STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[*] 72,691,200	72,838,400	72,838,400	72,838,400	[1] 72,838,400	72,857,600	72,857,600
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	18,468	18,824	14,173	9,975	9,227	5,809	1,126
Land in all farms.....acres....	25,651,092	14,018,540	10,526,627	5,802,126	1,246,613	1,935,327	1,297,033
Farms irrigated:[2]							
Farms.....number...	10,339	10,050	8,523	6,605	4,841	2,981	1,075
Increase or decrease (-) over preceding census....percent..	[3] 21.3	.....	29.0	36.4	62.4	177.3	.....
Proportion of all farms.....percent..	56.0	53.4	60.1	66.2	52.5	51.3	75.4
Land in farms.....acres....	5,274,470	([4])	2,983,784	([4])	([4])	([4])	([4])
Proportion of all farm land.....percent..	20.6	([4])	28.3	([4])	([4])	([4])	([4])
Area irrigated.....acres....	[5] 575,464	[6] 430,056	[7] 448,806	([8])	([8])	185,396	65,821
Increase or decrease (-) over preceding census....percent..	[3] 28.2	.....	.....	.....	.....	181.7	.....
Proportion of total land area of State.....percent..	0.8	0.6	0.6	.....	.....	0.3	0.1
Proportion of all farm land.....percent..	2.2	3.1	4.3	.....	.....	9.1	5.1
Value of irrigated farms (land and buildings).....dollars..	115,309,610	([4])	149,154,077	([4])	([4])	([4])	([4])
Average per farm.....dollars..	11,152.88	([4])	17,500.19	([4])	([4])	([4])	([4])
Average per acre.....dollars..	21.86	([4])	49.99	([4])	([4])	([4])	([4])
Value of farm implements and machinery[9].....dollars..	7,461,726	([4])	8,136,633	([4])	([4])	([4])	([4])
Average per farm[9].....dollars..	721.71	([4])	954.67	([4])	([4])	([4])	([4])
Average per acre[9].....dollars..	1.41	([4])	2.73	([4])	([4])	([4])	([4])
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	1,911	([4])	1,270	1,388	1,269	([4])	([4])
Farms irrigated.....number...	15,375	([4])	([4])	([4])	([4])	([4])	([4])
Area irrigated.....acres....	653,263	([4])	575,590	467,565	320,051	([4])	([4])
Area existing works were capable of supplying with water.....acres....	844,212	([4])	824,152	627,303	387,655	([4])	([4])
Area irrigable.....acres....	1,104,645	([4])	1,085,627	[10] 813,153	[10] 944,090	([4])	([4])
Additional area existing works were capable of supplying with water.....acres....	190,949	([4])	248,562	159,738	67,604	([4])	([4])
Additional irrigable area in enterprises not supplied with water.....acres....	451,382	([4])	510,037	[10] 345,588	[10] 624,039	([4])	([4])
Investment in irrigation enterprises.....dollars..	83,526,608	([4])	73,328,197	33,498,094	17,677,966	4,438,352	465,000
Increase or decrease (-) over preceding census.....percent..	[3] 13.9	([4])	118.9	89.5	298.3	854.5	.....
Average per acre based on area works were capable of supplying with water.....dollars..	98.94	([4])	88.97	53.40	45.60	([4])	([4])
Increase or decrease (-) over preceding census....percent..	[3] 11.2	([4])	66.6	17.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	108,980,519	([4])	91,913,550	34,615,064	24,828,868	([4])	([4])
Average per acre based on irrigable area in enterprises.....dollars..	98.66	([4])	84.66	[10] 42.57	[10] 26.30	([4])	([4])
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	5.00	([4])	4.57	3.27	0.93	([4])	([4])

[1] Decrease due to the building of the Roosevelt and Laguna Reservoirs. [2] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [3] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [4] Not available. [5] Irrigated land from which crops were harvested plus 104,092 acres of irrigated land used only for pasture. [6] Irrigated land from which crops were harvested. [7] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [8] Data were secured for crops irrigated but the returns were considered relatively incomplete. [9] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [10] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [*] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from those shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	18,468	25,651,092	525,974	471,372	104,092	153,675,675	5.99	23,091,437	0.90	9,961,098	0.39
Owners and managers.....	16,328	24,496,794	431,695	384,543	90,208	134,460,964	5.49	20,705,102	0.85	8,520,061	0.35
Tenants.....	2,140	1,154,298	94,279	86,829	13,884	19,215,711	16.65	2,386,335	2.07	1,441,037	1.25
Irrigated farms, total.....	10,339	5,274,470	478,521	471,372	104,092	115,309,610	21.86	16,497,968	3.13	7,461,726	1.41
Owners and managers.....	8,787	5,051,817	390,677	384,543	90,208	99,320,601	19.66	14,664,418	2.90	6,296,260	1.25
Tenants.....	1,552	222,653	87,844	86,829	13,884	15,989,009	71.81	1,833,550	8.24	1,165,466	5.23
Wholly irrigated farms.....	8,662	4,661,868	450,045	450,045	73,867	102,833,437	22.06	13,863,525	2.97	6,786,836	1.46
Owners and managers.....	7,418	4,461,543	365,105	365,105	65,124	88,340,200	19.80	12,388,925	2.78	5,695,258	1.28
Tenants.....	1,244	200,325	84,940	84,940	8,743	14,493,237	72.35	1,474,600	7.36	1,091,578	5.45
Partly irrigated farms.....	1,677	612,602	28,476	21,327	30,225	12,476,173	20.37	2,634,443	4.30	674,890	1.10
Owners and managers.....	1,369	590,274	25,572	19,438	25,084	10,980,401	18.60	2,275,493	3.85	601,002	1.02
Tenants.....	308	22,328	2,904	1,889	5,141	1,495,772	66.99	358,950	16.08	73,888	3.31
Nonirrigated farms, total.....	8,129	20,376,622	47,453	.....	.....	38,367,065	1.88	6,593,469	0.32	2,499,372	0.12

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	Acres	Acres	Acres	Acres	Acres	Percent	Acres	Acres	Acres	Acre-feet	Dollars	Dollars
Total	1,911	1,104,645	844,212	653,263	575,590	467,565	13.5	622,469	633,565	615,199	3.4	6.15	1.79
Primary sources:													
Streams, gravity	550	153,986	97,538	71,075	162,621	189,782	-56.3	50,848	58,945	45,224	2.9	2.38	0.83
Streams, pumped	44	2,189	1,951	1,055	8,123	6,671	-87.0	993	1,055	993	3.1	2.99	0.98
Streams, gravity and pumped	11	57,981	56,592	47,614	53	.....	(2)	47,604	47,614	47,604	4.4	3.39	0.78
Wells, pumped	867	231,187	201,201	144,175	104,637	39,694	37.8	136,124	138,419	135,376	3.7	9.10	2.43
Wells, flowing	90	2,737	2,674	1,947	1,107	1,558	75.9	1,704	1,418	1,214	2.6	1.05	3.99
Wells, pumped and flowing	11	532	457	374	258	558	45.0	325	324	275	2.9	5.79	1.98
Lakes, gravity	1	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	4	488	481	100	.....	5	.....	100	100	100	1.1	6.45	5.92
Springs	83	5,079	4,437	3,061	3,056	2,578	0.2	2,347	2,596	2,307	2.4	5.74	2.35
Springs and streams	16	647	647	551	.....	.....	.....	25	502	22	1.1	7.27	6.40
Stored storm water	4	70	70	40	755	510	-94.7	20	40	20	1.2	1.50	1.20
City water	2	(3)	(3)	(3)	.....	.....	.....	.....	(3)	.....	.....	.....	.....
Sewage	3	455	455	395	342	195	15.5	340	395	340	5.3	3.53	0.67
Streams, gravity; wells, pumped	46	526,879	459,100	368,375	292,681	217,799	25.9	367,901	367,846	367,586	3.1	5.47	1.77
Streams, gravity; wells, flowing	6	3,730	3,530	3,447	40	525	(2)	3,447	3,447	3,447	2.2	2.68	1.21
Streams, pumped; wells, pumped	4	110,088	7,664	4,605	.....	.....	.....	4,605	4,605	4,605	4.0	3.05	0.77
Waste water, seepage or drainage	3	182	180	178	.....	.....	.....	1	3	1	3.0	6.00	2.00
Other mixed	23	8,280	7,100	6,166	1,887	7,690	226.8	6,085	6,156	6,085	2.5	4.15	1.65
Other and not reported	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]													
Streams, gravity and/or storage	5	91,125	91,125	58,139	.....	.....	.....	58,097	53	53	1.0	1.89	1.92
Streams, pumped	1	(5)	(5)	(5)	80	.....	(5)	(5)	.....	.....	.....	.....	.....
Wells, pumped	120	35,957	21,452	15,210	1,592	.....	855.4	13,350	13,965	12,114	1.5	2.96	1.92
Wells, flowing	17	742	742	445	53	.....	739.6	442	445	442	3.0	0.90	0.31

[1]Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2]Percent not shown when more than 1,000. [3]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [4]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [5]Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	Percent	Dollars	Dollars	Percent	Dollars	Dollars	Acres	Dollars	Acres	Dollars	Dollars	Acres	Dollars
Total	83,526,608	100.0	98.94	73,328,197	100.0	88.97	9.97	630,942	5.00	561,605	4.57	0.43	362,828	3.27
Primary sources:														
Streams, gravity	3,932,570	4.7	40.32	20,016,538	27.3	75.80	-35.48	58,585	1.40	156,393	3.20	-1.80	111,223	2.27
Streams, pumped	38,096	(3)	19.53	1,459,527	2.0	117.89	-98.36	1,055	2.93	8,074	9.83	-6.90	6,082	8.12
Streams, gravity and pumped	8,195,261	9.8	144.81	2,550	(3)	36.43	108.38	47,614	2.48	43	3.49	-1.01	.....	.....
Wells, pumped	9,594,076	11.5	47.68	8,747,182	11.9	58.70	-11.02	136,156	7.98	99,740	10.76	-2.78	18,733	13.15
Wells, flowing	186,401	0.2	69.71	111,500	0.2	63.07	6.64	1,418	1.36	968	0.27	1.09	734	3.64
Wells, pumped and flowing	34,487	(3)	75.46	28,750	(3)	65.64	9.82	324	5.15	165	10.64	-5.49	558	13.64
Lakes, gravity	(4)	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	2,530	(3)	5.26	.....	.....	.....	.....	100	6.45	.....	.....	.....	5	10.00
Springs	220,820	0.3	49.77	177,191	0.2	47.58	2.19	2,596	3.82	1,991	1.98	1.84	1,525	3.88
Springs and streams	11,725	(3)	18.12	.....	.....	.....	.....	502	1.19	.....	.....	.....	.....	.....
Stored storm water	14,480	(3)	206.86	64,450	0.1	35.35	171.51	40	13.27	731	1.98	11.29	.....	.....
City water	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Sewage	13,950	(3)	30.66	50,116	0.1	146.54	-115.88	395	3.65	1	.....	.....	90	1.89
Streams, gravity; wells, pumped	54,903,401	65.7	119.59	37,553,267	51.2	104.64	14.95	367,846	4.69	291,769	3.06	1.63	216,397	2.70
Streams, gravity; wells, flowing	109,978	0.1	31.16	5,500	(3)	137.50	-106.34	3,447	0.61	40	3.75	-3.14	495	2.40
Streams, pumped; wells, pumped	3,457,092	4.1	451.08	.....	.....	.....	.....	4,605	9.96	.....	.....	.....	.....	.....
Waste water, seepage or drainage	328	(3)	1.82	.....	.....	.....	.....	3	5.33	.....	.....	.....	.....	.....
Other mixed	294,173	0.4	41.43	5,049,225	6.9	160.04	-118.61	6,156	3.33	1,650	5.69	-2.36	6,986	4.99
Other and not reported	.....	.....	.....	601	(3)	16.69	.....	.....	.....	30	9.17	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	1,996,810	2.4	21.91	.....	.....	.....	.....	53	1.89	.....	.....	.....	.....	.....
Streams, pumped	(6)	(6)	(6)	10,200	(3)	104.08	(6)	.....	.....	80	14.63	.....	.....	.....
Wells, pumped	472,510	0.6	22.03	48,600	0.1	30.47	-8.44	13,965	3.59	1,592	2.44	1.15	.....	.....
Wells, flowing	41,160	(3)	55.47	3,000	(3)	53.57	1.90	445	1.02	53	.....	.....	.....	.....

[1]Based on irrigated area in enterprises reporting cost of maintenance and operation. [2]Based on area works were capable of supplying with water. [3]Less than one-tenth of 1 percent. [4]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [5]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [6]Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	653,263	73,806	575,590	467,565	13.5
Individual and partnership	131,320	15,547	73,836	80,511	77.9
Cooperative, incorporated	71,766	215	58,733	114,482	41.2
Cooperative, unincorporated	11,153	.....			
Irrigation district	77,164	.....	117,869	300	-34.5
Commercial	[2]12,635	.....	32,600	14,500	[2]-61.7
Bureau of Reclamation[3] *	265,042	58,044	278,584	248,814	-4.9
Office of Indian Affairs[3]	84,183	.....	13,555	8,733	521.0
State	(2)	.....	111	.....	(2)
City and/or sewage	(2)	.....	301	200	(2)
Other	.....	.....	1	25	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	844,212	113,331	824,152	627,303	2.4
Individual and partnership	184,482	21,751	107,220	195,331	72.1
Cooperative, incorporated	79,999	637	58,427	130,903	58.4
Cooperative, unincorporated	12,532	.....			
Irrigation district	140,687	.....	191,186	300	-26.4
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued					
Commercial	[2]12,945	.....	76,500	20,000	[2]-83.2
Bureau of Reclamation[3] *	297,669	90,943	296,738	269,691	0.3
Office of Indian Affairs[3]	115,898	.....	93,592	10,833	23.8
State	(2)	.....	186	.....	(2)
City and/or sewage	(2)	.....	301	220	(2)
Other	.....	.....	2	25	.....
IRRIGABLE AREA[4]					
Total	1,104,645	127,860	1,085,627	813,153	1.8
Individual and partnership	235,867	22,360	141,045	288,510	67.2
Cooperative, incorporated	87,056	14,557	65,181	157,849	53.4
Cooperative, unincorporated	12,932	.....			
Irrigation district	156,786	.....	214,666	450	-27.0
Commercial	[2]61,245	.....	100,600	31,000	[2]-39.4
Bureau of Reclamation[3] *	299,058	90,943	339,680	314,691	-12.0
Office of Indian Affairs[3]	251,701	.....	223,948	20,058	12.4
State	(2)	.....	196	.....	(2)
City and/or sewage	(2)	.....	301	300	(2)
Other	.....	.....	10	295	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data for 2 "State" and 1 "City and/or sewage" enterprises are included with "Commercial" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 97.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	Serving 5 or more farms	AREAS Irrigable	Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	Primary enterprises: Maintenance and operation per acre[3]	Supplemental enterprises: Works and equipment per acre[2]	Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1]: Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	1,911	124	1,104,645	844,212	95.33	4.92	22.14	3.51	15,375	653,263	592,305	3,321	57,637
Individual and partnership	1,808	36	235,867	184,482	27.89	6.57	23.43	3.52	2,048	131,320	104,318	1,909	25,093
Cooperative, incorporated	32	29	87,056	79,999	37.35	1.95	4.10	0.45	1,808	71,766	65,965	.....	5,801
Cooperative, unincorporated	29	20	12,932	12,532	17.09	1.78	.....	.....	295	11,153	7,144	828	3,181
Irrigation district	14	14	156,786	140,687	103.09	6.54	.....	.....	1,142	77,164	75,470	57	1,637
Commercial	2	2	[4]61,245	[4]12,945	[4]271.56	[4]1.98	.....	.....	[4]20	[4]12,635	[4]12,499	[4]100	[4]36
U. S. Bureau of Reclamation[3] *	3	3	299,058	297,669	126.69	4.88	21.96	.....	6,597	265,042	252,595	.....	12,447
U. S. Office of Indian Affairs	20	20	251,701	115,898	141.55	4.34	.....	.....	3,465	84,183	74,314	427	9,442
State	2	.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	(4)	(4)
City and/or sewage	1	.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 2 "State" and 1 "City and/or sewage" enterprises are included with "Commercial" enterprises. * For explanation of areas and investment, see text, p. 97.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	83,526,608	81,015,378	2,511,230	82,990,947	535,661	73,328,197	33,498,094	13.9	95.97	22.16	8,404,800	25,453,911
Individual and partnership	5,667,378	5,155,438	511,940	5,654,437	12,941	5,913,408	5,598,625	-4.2	27.95	23.54	4,508	392,544
Cooperative, incorporated	3,012,125	3,009,515	2,610	2,990,622	21,503	1,337,982	3,171,406	141.2	37.62	4.10	26,219	54,875
Cooperative, unincorporated	215,179	215,179	.....	214,149	1,030				17.17	.....	141	20,700
Irrigation district	14,961,006	14,961,006	.....	14,502,865	458,141	13,721,792	100,000	9.0	106.34	.....	640,849	793,000
Commercial	[2]3,515,383	[2]3,515,383	.....	[2]3,515,383	.....	4,857,759	3,693,400	[2]28.8	[2]271.56	.....	[2]31,284	[2]1,005,000
U. S. Bureau of Reclamation *	39,708,470	37,711,790	1,996,680	39,708,470	.....	37,691,293	20,277,919	5.4	126.69	21.96	5,052,269	24,092
U. S. Office of Indian Affairs	16,447,067	16,447,067	.....	16,405,021	42,046	9,728,963	585,029	69.1	141.91	.....	2,649,530	23,163,700
State	(2)	(2)	.....	(2)	.....	27,000	.....	(2)	(2)	.....	(2)	(2)
City and/or sewage	(2)	(2)	.....	(2)	.....	50,000	71,500	(2)	(2)	.....	(2)	(2)
Other	.....	.....	.....	.....	.....	.....	215	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 2 "State" and 1 "City and/or sewage" enterprises are included with "Commercial" enterprises. * 1930 investment includes cost of all power facilities financed by water users; 1940 total eliminates cost of certain power facilities and includes expenditures on Bartlett Dam and other facilities by the Bureau of Reclamation since 1930 of $6,844,000. For explanation of investment, see text, p. 97.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING					ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area					Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[3]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[4]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 47	*Acres* 816,070	*Acres* 611,533	*Dollars* 42,592,133	*Dollars* 70.03	*Dollars* 69.67	*Number* 4	*Dollars* 990,222	*Dollars* 923,519	*Dollars* 43.87	*Acres* 656,600	*Dollars* 2,826,665	*Dollars* 1,943,983
Partnership	2	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	10,800	10,618	7,709
Cooperative, incorporated	[6] 13	49,583	45,383	227,866	5.02	5.02	1	(7)	.....	(7)	[6] 91,542	[6] 264,074	180,624
Cooperative, unincorporated	1	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	8,651	8,266	4,586
Irrigation district	11	151,433	136,234	8,639,026	57.00	63.41	3	[7] 990,222	923,519	[7] 43.87	154,980	869,814	831,690
Commercial	(5)	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	(5)	(5)	.....
Bureau of Reclamation[8] [9]	[9] 2	299,058	297,669	[10] 20,045,158	68.59	67.34	.....	.....	.....	.....	292,229	1,451,918	809,138
Office of Indian Affairs[8]	18	250,627	114,878	[11] 12,926,217	129.50	112.52	.....	.....	.....	.....	98,398	221,995	110,236
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises not shown because less than 3 enterprises reported. [4] Based on primary enterprises only; no supplemental enterprises reported arrearage. [5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [6] Data for "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [7] Data for 1 "Cooperative, incorporated" enterprise are included with "Irrigation District" enterprises in the 1940 Census. [8] U. S. Dept. of the Interior. [9] Data for less than 3 enterprises shown with permission of the enterprises involved. [10] Represents indebtedness of irrigation districts and a water-user association to the U. S. Government and to non-Federal agencies. [11] Represents construction costs of irrigation works less cancellations and repayments. [*] For explanation of areas and investment, see text, p. 97.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre				
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 630,942	*Dollars* 3,101,467	*Acres* 14,463	*Dollars* 50,715	*Dollars* 4.92	*Dollars* 3.51	*Number* 67	*Dollars* 1,441,641	*Number* 1,516
Individual and partnership	120,047	788,588	14,383	50,679	6.57	3.52	2	[2] 64,320	[2] 71
Cooperative, incorporated	71,766	140,150	80	36	1.95	0.45	25	75,072	142
Cooperative, unincorporated	6,530	11,642	.....	.....	1.78	.....	10	4,939	22
Irrigation district	77,164	504,923	.....	.....	6.54	.....	12	194,536	204
Commercial	[3] 12,385	[3] 24,499	.....	.....	[3] 1.98	.....	1	(2)	(2)
U. S. Bureau of Reclamation[4]	265,042	1,293,376	.....	.....	4.88	.....	[4] 2	855,966	653
U. S. Office of Indian Affairs	78,008	338,289	.....	.....	4.34	.....	15	249,808	454
State	(3)	(3)	.....	.....	(3)	.....	.....	.....	.....
City and/or sewage	(3)	(3)	.....	.....	(3)	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "Commercial" enterprise are included with "Individual and partnership" enterprises in the 1940 Census. [3] Data for 2 "State" and 1 "City and/or sewage" enterprises are included with "Commercial" enterprises in the 1940 Census. [4] Data for less than 3 enterprises shown with permission of the enterprises involved. [*] For explanation of areas and investment, see text, p. 97.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 602	*Number* 199	*Sec.-ft.* 13,258	*Miles* 3,986	*Miles* 192.2	333	*Ac.-ft.* 4,860,898	*Miles* 344.3	268	*G.p.m.* 23,878	[3] 1,858	*G.p.m.* 2,508,337	1,970	*Hp.* 102,733	1,969	*G.p.m.* 2,992,986
Individual and partnership	471	150	2,246	401	7.7	283	6,614	127.1	259	19,853	1,314	1,349,115	1,415	56,036	1,414	1,509,940
Cooperative, incorporated	24	8	1,212	308	3.2	8	41,517	16.0	9	3,025	66	106,780	67	4,053	67	114,600
Cooperative, unincorporated	20	2	247	91	0.5	3	1,986	0.7	....	.....	13	21,150	14	657	14	21,700
Irrigation district	6	5	1,165	514	115.0	5	203,500	28.4	....	.....	183	463,942	189	18,380	189	607,937
Commercial	1	[4] 5	[4] 618	152	.....	[4] 5	[4] 2,312	[4] 5.0	....	.....	[4] 15	[4] 35,700	[4] 15	[4] 2,425	[4] 15	[4] 35,700
Bureau of Reclamation[5]	5	6	5,709	1,537	53.1	6	3,392,000	104.4	....	.....	166	347,400	173	14,735	173	470,700
Office of Indian Affairs[5]	75	23	2,061	983	12.7	23	1,212,969	62.7	....	.....	[3] 101	184,250	97	6,117	97	232,409
State	.....	(4)	(4)	.....	.....	(4)	(4)	(4)	....	.....	(4)	(4)	(4)	(4)	(4)	(4)
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] Includes batteries of wells pumped by 1 pump. [4] Data for 2 "State" enterprises are included with "Commercial" enterprises in the 1940 Census. [5] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	602	199	267	78	Earth and rock	321	167	.....	57
					Other and mixed	[1] 185	11	[1] 197	4
Concrete or masonry	84	17	34	9	Not reported	7	4	32	8
Timber	5	.....	4	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940, AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*		*Number*	*Percent*	*Hp.*	*Percent*
Total, 1940	1,969	100.0	2,992,986	100.0	60	Total, 1940	1,970	100.0	102,733	100.0
Electric motor	**962**	**48.8**	**1,930,064**	**64.5**	**85**	**Centrifugal pump**	**490**	**24.9**	**10,786**	**10.5**
Centrifugal	111	5.6	264,530	8.8	44	Electric	124	6.3	4,581	4.4
Turbine	838	42.5	1,661,668	55.5	96	Internal-combustion	355	18.0	6,028	5.9
Plunger	7	0.4	191	(1)	111	Other	11	0.6	177	0.2
Other	6	0.3	3,675	0.2	75					
Internal-combustion engine	**746**	**37.9**	**650,764**	**21.7**	**47**	**Turbine pump**	**1,172**	**59.5**	**80,428**	**78.3**
Centrifugal	362	18.4	212,612	7.1	30	Electric	845	42.9	63,561	61.9
Turbine	317	16.1	424,350	14.2	64	Internal-combustion	322	16.3	16,701	16.2
Plunger	48	2.4	3,702	0.1	79	Other	5	0.3	166	0.2
Other	19	1.0	10,100	0.3	47					
Other kinds of motive power	**65**	**3.3**	**13,124**	**0.5**	**48**	**Plunger pump**	**128**	**6.5**	**460**	**0.4**
Centrifugal	10	0.5	5,880	0.2	29	Electric	8	0.4	29	(1)
Turbine	5	0.3	6,500	0.3	61	Internal-combustion	59	3.0	335	0.3
Plunger	47	2.3	677	(1)	52	Other	61	3.1	96	0.1
Other	3	0.2	67	(1)	30					
Mixed kinds of motive power	**196**	**10.0**	**399,034**	**13.3**	**61**	**Other and mixed types of pumps**	**180**	**9.1**	**11,059**	**10.8**
Centrifugal	55	2.8	165,120	5.5	38	Electric	101	5.1	9,957	9.7
Turbine	100	5.1	231,950	7.7	75	Internal-combustion	60	3.0	1,081	1.1
Plunger	37	1.9	1,774	0.1	66	Other	[2] 19	1.0	21	(1)
Other	4	0.2	190	(1)	88					
Total, 1930	1,364	.....	2,125,293	.....	46	Total, 1930	[3] 1,378	.....	57,633	.....
Increase or decrease (-) 1930-1940	605	.....	867,693	.....	14	Increase or decrease (-) 1930-1940	592	.....	45,100	.....

[1] Less than one-tenth of 1 percent. [2] Includes 1 water wheel, capacity not reported. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]			1940[1]	1930[2]	
	Miles	*Miles*	*Percent*		*Miles*	*Miles*	*Percent*
Total	344.3	[2] 189.3	81.9	Wood-stave:			
				1 to 12 inches	1.3	21.5	94.0
Concrete:				13 to 24 inches	0.3	20.3	-91.6
1 to 12 inches	95.4	14.0	581.4	Over 24 inches	1.4		
13 to 24 inches	125.0	57.0	198.9	Clay and other:			
Over 24 inches	45.4			1 to 12 inches	2.3	0.4	-475.0
Metal:				13 to 24 inches	.....	.....	.....
1 to 12 inches	48.1	52.5	-8.4	Over 24 inches	7.5		
13 to 24 inches	4.0	5.6	214.3				
Over 24 inches	13.6						

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 18.0 miles of concrete and metal pipe lines, not segregated by size.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage...number..	18	26	31	Ratio of area drained to area irrigated in—			
				(a) Enterprises reporting lands drained and/or needing drainage...percent..	34.5	[3] 21.6	[1] 6.6
Area irrigable in these enterprises.....acres...	418,539	568,254	[1] 382,928	(b) All irrigation enterprises.....percent..	14.4	21.4	5.4
Area irrigated in these enterprises.....acres...	271,680	(2)	(2)	Ratio of area drained plus area needing drainage to—			
Area for which drains have been installed...acres...	93,803	123,013	25,173	(a) Irrigable area reporting.....percent..	48.1	29.9	[1] 25.2
Additional area needing drainage.....acres...	107,651	47,155	71,357	(b) Irrigated area reporting.....percent..	74.2	(2)	(2)

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,526,462	2,667,698	1,839,689	2,302,963	2,586,474	1,402,101	223,499	81,224	437,588
Area irrigated by these enterprises.....acres.....	331,864	462,575	358,383	291,101	452,170	283,376	40,763	10,405	75,007
Average water per acre irrigated.....acre-feet..	7.6	5.8	5.1	7.9	5.7	4.9	5.5	7.8	5.8
Total water delivered to irrigators.....acre-feet..	1,127,438	1,214,751	876,016	901,135	1,011,736	690,083	226,303	203,015	185,933
Area irrigated by these enterprises.....acres.....	347,296	387,286	291,637	281,498	348,751	233,469	65,798	38,535	58,168
Average water per acre irrigated.....acre-feet..	3.2	3.1	3.0	3.2	2.9	3.0	3.4	5.3	3.2
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	928,852	.....	.....	509,007	.....	.....	419,845	.....	.....
Area irrigated by these enterprises.....acres.....	275,173	.....	.....	170,937	.....	.....	104,236	.....	.....
Average water per acre irrigated.....acre-feet..	3.4	.....	.....	3.0	.....	.....	4.0	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	58,156	.....	.....	.....	.....	.....	58,156	.....	.....
Area irrigated by these enterprises.....acres.....	58,109	.....	.....	.....	.....	.....	58,109	.....	.....
Average water per acre irrigated.....acre-feet..	1.0	.....	.....	.....	.....	.....	1.0	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	21,888	.....	.....	.....	.....	.....	21,888	.....	.....
Area irrigated by these enterprises.....acres.....	13,792	.....	.....	.....	.....	.....	13,792	.....	.....
Average water per acre irrigated.....acre-feet..	1.6	.....	.....	.....	.....	.....	1.6	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated						
	Primary enterprises	Proportion of total	Supplemental enterprises[1]	Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	653,263	100.0	73,806	575,590	100.0	467,565	100.0
Appropriation[2]	167,874	25.7	107	129,084	22.4	323,986	69.3
Underground	138,941	21.3	15,584	93,825	16.3	41,624	8.9
Appropriation and underground	324,459	49.7	58,115	.....	.....	.....	.....
Adjudicated by court	5,942	0.9	.....	335,137	58.2	84,978	18.2
Other mixed and not reported	16,047	2.4	.....	17,544	3.1	16,977	3.6

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," "Certificate or license from State," and "Riparian."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 265,042 acres which were irrigated in 1939 within the Salt River Project and the Valley and Yuma Auxiliary Divisions of the Yuma Project. These projects are indicated as separate enterprises under the Bureau of Reclamation and their statistics are not duplicated under any other type of enterprise. Areas totalling 50,044 acres irrigated in 1939 with a supplemental water supply from the Salt River Project are reported as receiving a primary water supply through other types of enterprises, mostly irrigation districts.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates to expenditures on the above projects and reflects construction costs incurred by the Bureau of Reclamation and certain non-Federal expenditures for irrigation facilities. There are excluded from the totals in these tables certain investments in power facilities both by the Bureau of Reclamation and non-Federal agencies which do not come within the Census definition of irrigation investments. In the category excluded are construction expenditures by the Bureau of Reclamation within Arizona on Boulder Dam, together with expenditures by the Bureau and other agencies at Parker Dam, and on other structures; none of the costs of which will be repaid directly by irrigators. Neither are there included in the tabulated expenditures by the Bureau of Reclamation costs of the Imperial Dam of the All-American Canal Project which will serve lands in Arizona and California; nor are costs of the Gila Project in Arizona included in the tabulated statistics. These latter projects were under construction in 1939 but not supplying water to irrigators.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	1,768	94	1,447	111	58	40	15	3
2	Irrigated farms, 1939.....number...	15,375	.....	1,447	268	552	1,761	3,297	8,050
3	Area irrigated, 1939.....acres....	653,263	.....	110,544	13,355	48,709	46,968	104,997	328,690
4	(a) From which crops were harvested.....acres....	592,305	.....	88,692	10,581	43,645	41,596	100,697	307,094
5	(b) On which crops failed.....acres....	3,321	.....	1,201	287	436	1,310	24	63
6	(c) Irrigated pasture.....acres....	57,637	.....	20,651	2,487	4,628	4,062	4,276	21,533
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	81,015,378	208,113	4,443,792	526,732	11,375,213	3,365,417	12,567,437	48,528,674
8	(a) Cost of irrigation works and equipment.....dollars..	80,481,984	207,655	4,434,682	525,617	10,924,173	3,352,833	12,550,396	48,486,628
9	(b) Investment in water rights.....dollars..	533,394	458	9,110	1,115	451,040	12,584	17,041	42,046
10	Area works were capable of supplying with water.....acres....	844,212	10,825	145,689	17,550	82,254	56,978	147,616	383,300
11	Average investment per acre irrigated.....dollars..	124.02	.....	40.20	39.44	233.53	71.65	119.69	147.64
12	Average investment per acre which the works could supply with water.....dollars..	95.97	19.23	30.50	30.01	138.29	59.07	85.14	126.61
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	1,380	27	1,171	82	48	36	13	3
14	(a) Area irrigated in these enterprises.....acres....	630,942	.....	99,976	12,233	45,280	45,317	99,446	328,690
15	(b) Cost of maintenance and operation.....dollars..	3,101,467	432	730,844	56,855	206,578	119,680	432,312	1,554,766
16	(c) Average cost per irrigated acre reporting.....dollars..	4.92	.....	7.31	4.65	4.56	2.64	4.35	4.73
17	Total annual charges[3].....dollars..	2,826,235	.....	.....	425	344,939	215,745	633,383	1,631,743
18	Average charge per irrigated acre reporting.....dollars..	5.42	.....	.....	2.18	7.20	4.76	6.37	4.96
19	Area against which charges were assessed.....acres....	656,350	.....	.....	195	77,584	67,309	133,402	377,860
20	Average annual charge per acre assessed.....dollars..	4.31	.....	.....	2.18	4.45	3.21	4.75	4.32
21	Total charges collected[3].....dollars..	1,943,583	.....	.....	348	242,270	167,306	614,855	918,804
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4].....number...	46	[2] 2	.....	1	5	21	14	3
23	(a) Area irrigated in these enterprises.....acres....	478,077	.....	.....	22,980		26,310	100,097	328,690
24	(b) Indebtedness.....dollars..	42,589,633	10,084	.....	2,490,781		1,578,674	7,669,966	30,840,128
25	(c) Average indebtedness per acre irrigated.....dollars..	89.09	.....	.....	108.39		60.00	76.63	93.83
26	(d) Cost of irrigation works and equipment.....dollars..	73,247,085	10,084	.....	9,955,861		2,344,116	12,450,396	48,486,628
27	(e) Investment in water rights.....dollars..	509,070	.....	.....	450,499		1,984	14,541	42,046
28	(f) Total investment.....dollars..	73,756,155	10,084	.....	10,406,360		2,346,100	12,464,937	48,528,674
29	(g) Maintenance and operation.....dollars..	2,219,836	.....	.....	135,544		97,614	431,912	1,554,766
30	(h) Total annual charges[3].....dollars..	2,681,606	.....	.....	268,262		156,793	624,808	1,631,743
31	(i) Total charges collected[3].....dollars..	1,879,500	.....	.....	229,993		123,188	607,515	918,804
32	(j) Area against which annual charges were assessed.....acres....	603,671	.....	.....	51,780		45,529	128,502	377,860
33	(k) Average indebtedness per acre assessed.....dollars..	70.03	.....	.....	48.10		34.34	57.43	81.62
34	(l) Average charges per acre assessed.....dollars..	4.44	.....	.....	5.18		3.44	4.86	4.32
35	(m) Average charges per acre irrigated.....dollars..	5.68	.....	.....	11.67		6.10	6.61	4.96
36	Enterprises reporting arrearage[4].....number...	4	.....	.....	.....	1	2	1	.....
37	(a) Area assessed in these enterprises.....acres....	22,571	.....	.....	.....		22,571		.....
38	(b) Total arrearage.....dollars..	990,222	.....	.....	.....		990,222		.....
39	(c) Average arrearage per acre assessed.....dollars..	43.87	.....	.....	.....		43.87		.....
40	(d) Indebtedness.....dollars..	1,213,075	.....	.....	.....		1,213,075		.....
	TYPE, 1940								
41	Individual and partnership.....number...	1,669	91	1,438	107	30	3	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	58	.....	6	4	23	18	7	.....
43	Irrigation district.....number...	14	1	.....	.....	1	9	3	.....
44	Commercial.....number...	2	.....	.....	.....	2	.....	.....	.....
45	U. S. Bureau of Reclamation.....number...	2	.....	.....	.....	.....	.....	.....	2
46	U. S. Office of Indian Affairs.....number...	20	2	.....	.....	2	10	5	1
47	All other.....number...	3	.....	3	.....	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	67	[2] 2	.....	.....	16	32	14	3
49	Wages and salaries paid and payable for 1939.....dollars..	1,444,641	4,885	.....	.....	126,773	91,373	331,091	890,519
50	Persons employed during week ending April 29, 1939.....number...	1,546	9	.....	.....	128	202	423	784
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	550	18	395	61	45	25	6	.....
52	Streams, pumped.....number...	44	7	37	.....	.....	.....	.....	.....
53	Wells, pumped.....number...	867	58	767	31	3	7	1	.....
54	Wells, pumped and flowing; or wells flowing.....number...	101	1	94	6	.....	.....	.....	.....
55	Lakes, gravity or pumped.....number...	5	1	4	.....	.....	.....	.....	.....
56	Streams and springs; or springs.....number...	99	3	82	6	7	1	.....	.....
57	Mixed, streams and wells.....number...	67	3	40	6	3	6	6	3
58	Other mixed or stored storm water.....number...	35	3	28	1	.....	1	2	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	Total	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	143	12	117	12	1	.....	.....	[2] 1
2	Irrigated farms, 1939.....number...	2,091	.....	117	31	9	.....	.....	1,934
3	Area irrigated, 1939.....acres....	73,806	.....	14,161	1,601		.....	.....	58,044
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	2,511,230	81,481	387,899	45,170		.....	.....	1,996,680
5	(a) Cost of irrigation works and equipment.....dollars..	2,508,963	81,481	385,632	45,170		.....	.....	1,996,680
6	(b) Investment in water rights.....dollars..	2,267	.....	2,267	.....		.....	.....	.....
7	Area works were capable of supplying with water.....acres....	113,331	3,202	16,927	2,259		.....	.....	90,943
8	Average investment per acre irrigated.....dollars..	34.02	.....	27.39	28.21		.....	.....	34.40
9	Average investment per acre which the works could supply with water.....dollars..	22.16	25.45	22.92	20.00		.....	.....	21.96

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 71,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
. 91	1,302	204	137	22	8	[2] 1	1,435	187	114	24	6	[2] 2	1
.....	1,536	676	1,809	2,569	3,459	5,326	1,808	564	1,479	2,883	1,862	6,779	2
.....	28,189	35,250	86,702	74,844	208,819	219,159	53,136	43,223	86,315	66,044	121,738	282,807	3
.....	22,373	28,987	69,916	66,984	197,333	206,712	33,974	35,966	78,082	61,695	121,377	261,211	4
.....	1,274	698	1,262	24	63	.....	1,739	30[illegible]	795	397	24	63	5
.....	4,842	5,565	15,524	7,836	11,423	12,447	17,423	6,954	7,438	3,952	337	21,533	6
208,113	1,605,120	1,513,129	5,004,216	6,039,036	37,098,219	29,547,545	1,466,682	1,467,197	3,439,271	5,750,410	28,527,389	40,364,429	7
207,655	1,597,193	1,511,033	4,992,940	6,023,586	36,602,032	29,547,545	1,456,912	1,465,261	3,426,520	5,737,660	28,073,248	40,322,383	8
458	7,927	2,096	11,276	15,450	496,187	.....	9,770	1,936	12,751	12,750	454,141	42,046	9
10,325	45,507	49,503	113,023	84,131	298,353	242,870	79,861	56,335	105,367	82,401	191,747	328,501	10
.....	56.34	42.93	57.72	80.69	177.66	134.82	27.60	33.94	39.85	87.07	234.33	142.73	11
19.23	35.27	30.57	44.28	71.78	124.34	121.66	18.37	26.04	32.64	69.79	148.78	122.87	12
27	1,014	181	131	18	8	[2] 1	1,078	166	106	22	6	[2] 2	13
.....	23,362	31,405	83,733	64,464	208,819	219,159	40,771	40,345	84,788	60,493	121,738	282,807	14
432	146,605	202,820	500,897	147,895	923,194	1,179,624	168,500	216,560	472,989	193,769	608,635	1,441,014	15
.....	6.28	6.46	5.98	2.29	4.42	5.38	4.13	5.37	5.58	3.20	5.00	5.10	16
.....	1,230	12,316	105,363	212,066	1,200,285	1,294,975	7,058	29,130	102,027	284,838	928,382	1,474,800	17
.....	1.38	2.85	3.72	3.53	5.75	5.91	0.82	2.46	2.83	4.71	7.63	5.21	18
.....	1,020	5,082	39,013	75,740	292,625	242,870	9,314	13,036	37,548	85,838	182,113	328,501	19
.....	1.21	2.42	2.70	2.80	4.10	5.33	0.76	2.23	2.72	3.32	5.10	4.49	20
.....	499	5,788	73,688	171,881	1,080,378	611,349	3,730	22,921	90,659	198,746	906,512	721,015	21
[2] 2	.....	6	17	13	7	[2] 1	2	7	11	18	6	[2] 2	22
.....	.....	908	12,180	49,169	196,661	219,159	6,989		24,257	42,286	121,738	282,807	23
10,084	.....	96,534	443,806	2,986,593	20,934,324	18,118,292	28,860		237,939	2,120,464	11,289,108	28,913,262	24
.....	.....	106.31	36.44	60.74	106.45	82.67	4.13		9.81	50.15	92.73	102.24	25
10,094	.....	279,148	2,025,878	5,553,686	35,830,744	29,547,545	55,253		529,829	4,266,372	28,073,248	40,322,383	26
.....	.....	199	3,434	9,250	196,187	.....	583		8,050	4,250	454,141	42,046	27
10,084	.....	279,317	2,029,312	5,562,936	36,326,931	29,547,545	55,836		537,879	4,270,622	28,527,389	40,364,429	28
.....	.....	4,253	56,078	113,808	866,073	1,179,624	12,589		31,669	125,929	608,635	1,441,014	29
.....	.....	4,254	61,471	177,742	1,143,164	1,294,975	18,312		69,529	190,583	928,382	1,474,800	30
.....	.....	99	49,013	138,661	1,080,378	611,349	16,858		62,555	172,560	906,512	721,015	31
.....	.....	768	20,370	59,196	280,467	242,870	7,402		24,972	60,683	182,113	328,501	32
.....	.....	113.00	21.52	45.55	74.64	74.60	1.80		9.14	30.16	61.99	88.02	33
.....	.....	5.54	3.02	3.00	4.08	5.33	2.47		2.78	3.14	5.10	4.49	34
.....	.....	5.54	5.26	4.07	5.81	5.91	2.82		2.88	5.19	7.63	5.21	35
.....	.....	.....	2	2	.....	.....	.....	1	1	2	.....	.....	36
.....	.....	.....	22,571		.....	.....	.....	22,571			.....	.....	37
.....	.....	.....	990,222		.....	.....	.....	990,222			.....	.....	38
.....	.....	.....	43.87		.....	.....	.....	43.87			.....	.....	39
.....	.....	.....	1,213,075		.....	.....	.....	1,213,075			.....	.....	40
91	1,291	186	97	4	.....	.....	1,416	165	88	.....	.....	.....	41
.....	9	12	26	9	2	.....	17	14	18	9	.....	.....	42
1	.....	.....	5	5	3	.....	.....	1	3	7	3	.....	43
.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	1	.....	44
.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	1	45
2	.....	5	8	4	1	.....	1	4	5	8	1	1	46
.....	2	.....	1	.....	.....	.....	1	2	.....	.....	.....	.....	47
[2] 2	2	6	30	18	8	[2] 1	5	13	19	22	6	[2] 2	48
4,885	28,351		45,278	218,916	405,516	741,695	3,110	17,275	44,405	163,971	139,632	776,248	49
9	35		208	275	432	587	5	27	102	349	345	718	50
18	442	44	39	7	.....	.....	487	36	13	14	.....	.....	51
7	35	1	1	.....	.....	.....	42	2	.....	.....	.....	.....	52
58	579	134	87	7	2	.....	646	128	87	5	1	.....	53
1	95	5	.....	.....	.....	.....	95	4	2	.....	.....	.....	54
1	4	.....	.....	.....	.....	.....	4	1	.....	.....	.....	.....	55
3	87	8	1	.....	.....	.....	91	5	2	1	.....	.....	56
3	37	9	4	7	6	1	44	6	7	3	5	2	57
3	23	3	5	1	.....	.....	26	5	3	1	.....	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
12	74	45	11	.....	[2] 1	.....	121	17	4	.....	[2] 1	.....	1
.....	84	59	14	.....	1,934	.....	129	17	11	.....	1,934	.....	2
.....	3,022	7,000	5,740	.....	58,044	.....	10,451	3,569	1,742	.....	58,044	.....	3
81,481	131,798	172,966	128,305	.....	1,996,680	.....	227,757	141,968	144,825	.....	1,996,680	.....	4
81,481	131,031	171,466	128,305	.....	1,996,680	.....	226,990	140,468	144,825	.....	1,996,680	.....	5
.....	767	1,500	.....	.....	.....	.....	767	1,500	.....	.....	.....	.....	6
3,202	5,040	8,127	6,019	.....	90,943	.....	14,544	4,443	3,401	.....	90,943	.....	7
.....	43.61	24.71	22.35	.....	34.40	.....	21.79	39.78	83.14	.....	34.40	.....	8
25.45	26.15	21.28	21.32	.....	21.96	.....	15.66	31.95	42.58	.....	21.96	.....	9

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	127	6	110	10	1	.....	.....	.....
11	(a) Area irrigated in these enterprises.....acres....	14,463	.....	12,886	1,577		.....	.....	.....
12	(b) Cost of maintenance and operation.....dollars..	50,715	15	46,142	4,558		.....	.....	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	3.51	.....	3.58	2.89		.....	.....	.....
14	Total annual charges[2].....dollars..	(3)	.....	.....	.....	(3)	.....	.....	.....
15	Average charge per irrigated acre reporting.....dollars..	(3)	.....	.....	.....	(3)	.....	.....	.....
16	Area against which charges were assessed.....acres....	(3)	.....	.....	.....	(3)	.....	.....	.....
17	Average annual charge per acre assessed.....dollars..	(3)	.....	.....	.....	(3)	.....	.....	.....
18	Total charges collected[2].....dollars..	(3)	.....	.....	.....	(3)	.....	.....	.....
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[4].....number...	6 1	.....	.....	.....	6 1	.....	.....	.....
	TYPE, 1940								
20	Individual and partnership.....number...	139	11	115	12	1	.....	.....	.....
21	Cooperative (incorporated and unincorporated).....number...	3	1	2	.....	.....	.....	.....	.....
22	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	.....	1
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939								
23	Streams, pumped.....number...	1	.....	1	.....	.....	.....	.....	.....
24	Wells, pumped or flowing.....number...	137	12	114	10	1	.....	.....	.....
25	Streams, gravity or storage.....number...	5	.....	2	2	.....	.....	.....	1

[1]Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2]Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3]Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Colorado River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Grand Canyon	Coconino	6,866	18.91	+1.92	2.67	-1.60	4.16	-0.37	1.40	-0.82	10.68	+4.71	49.8	+1.7
Kingman	Mohave	3,326	20.34	+9.53	3.19	+0.67	3.66	-0.05	0.99	-0.23	12.50	+9.14	61.2	-0.3
Mount Trumbull	Mohave	(2)	19.95	+7.29	2.85	0.00	4.20	+0.93	1.34	-0.49	11.56	+6.85	(2)	(2)
Yuma	Yuma	138	7.35	+3.88	0.88	-0.20	1.11	-0.09	0.00	-0.16	5.36	+4.33	73.4	+1.5
Chinle Creek														
Chin Lee	Apache	5,538	5.12	-3.22	1.00	-0.75	1.08	-0.29	1.04	-0.10	2.00	-2.08	53.4	+3.2
Little Colorado River														
Flagstaff	Coconino	6,907	14.72	-8.08	3.63	-1.31	3.62	-4.08	0.65	-2.15	6.82	-0.54	46.6	+2.1
Jeddito	Navajo	6,700	6.21	-5.93	1.64	-1.42	1.59	-1.92	0.64	-0.92	2.34	-2.27	53.0	+2.6
St. Johns	Apache	5,650	6.98	-5.19	0.50	-1.89	2.35	+0.11	1.13	-0.37	3.00	-3.04	53.8	+1.6
Winslow	Navajo	4,848	5.32	-3.47	0.53	-1.28	1.54	-0.12	0.83	-0.26	2.42	-1.81	55.3	+0.4
Upper Gila River														
Florence	Pinal	1,500	8.08	-1.80	1.99	-0.59	2.05	-0.96	0.38	-0.39	3.66	+0.14	70.1	+1.0
Safford	Graham	2,900	(2)	(2)	(2)	(2)	2.22	+0.14	[3]0.74	-0.03	4.30	-0.23	64.3	+1.7
San Francisco River														
Clifton	Greenlee	3,465	8.10	-5.33	1.52	-1.29	1.82	-1.18	0.23	-1.07	4.53	-1.79	69.2	+3.0
San Pedro River														
Benson	Cochise	3,585	8.31	-2.76	1.00	-0.81	1.19	-0.86	0.60	-0.14	5.52	-0.95	62.3	-1.9
Santa Cruz River														
Tucson	Pima	2,423	7.08	-4.20	1.02	-1.50	2.64	+0.20	0.04	-0.96	3.38	-1.94	68.0	+0.7
Salt River														
Phoenix	Maricopa	1,108	9.49	+1.71	1.14	-1.03	1.22	-1.03	0.17	-0.42	6.96	+4.19	71.4	+1.7
Verde River														
Prescott	Yavapai	5,372	18.04	-2.48	3.65	-0.74	4.12	-2.05	0.43	-1.67	9.84	+1.98	54.2	+1.3
Seligman	Yavapai	5,219	[4]20.04	+9.00	[4]2.41	0.00	1.67	-0.88	0.55	-0.46	15.41	+10.34	52.8	-0.2
Lower Gila River														
Ajo	Pima	1,763	8.34	-0.82	1.38	-0.93	1.46	-0.85	0.00	-0.56	5.50	+1.52	71.2	+0.3
Gila Bend	Maricopa	737	5.27	-0.64	0.90	-0.79	0.69	-1.09	0.00	-0.40	3.68	+1.64	73.0	+0.8
Whitewater Draw														
Douglas	Cochise	3,973	[3]10.48	-2.53	2.16	-0.34	1.63	-0.31	[3]0.12	-0.80	6.57	-1.08	62.9	+0.5

[1]Departure from normal. [2]Data not available. [3]Does not include data for June 1939. [4]Does not include data for November 1938.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE. PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[4]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
6	67	44	10	.....	.....	.....	109	15	3	.....	.....	.....	10
.....	2,858	6,865	4,740	.....	.....	.....	10,152	2,569	1,742	.....	.....	.....	11
15	9,791	23,600	17,309	.....	.....	.....	26,097	10,689	13,929	.....	.....	.....	12
.....	3.43	3.44	3.65	.....	.....	.....	2.57	4.16	8.00	.....	.....	.....	13
.....	.....	[3]	.....	.....	.....	.....	.....	.....	[3]	.....	.....	.....	14
.....	.....	[3]	.....	.....	.....	.....	.....	.....	[3]	.....	.....	.....	15
.....	.....	[3]	.....	.....	.....	.....	.....	.....	[3]	.....	.....	.....	16
.....	.....	[3]	.....	.....	.....	.....	.....	.....	[3]	.....	.....	.....	17
.....	.....	[3]	.....	.....	.....	.....	.....	.....	[3]	.....	.....	.....	18
.....	.....	[5] 1	.....	.....	.....	.....	.....	.....	[5] 1	.....	.....	.....	19
11	73	44	11	.....	.....	.....	118	17	4	.....	.....	.....	20
1	1	1	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	21
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	22
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	23
12	69	45	11	.....	.....	.....	116	17	4	.....	.....	.....	24
.....	4	.....	.....	.....	1	.....	4	.....	.....	.....	1	.....	25

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Detailed data not shown because less than 3 enterprises reported in the 1940 Census.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The average annual precipitation for Arizona for the calendar year of 1939 was 12.88 inches which is 1.01 inches below the mean for the last 45 years, as reported by the U. S. Weather Bureau. The greatest annual amount was 26.65 inches at Bright Angel R. S., Coconino County. The least annual amount was 4.49 inches at Leupp, Coconino County. The average snowfall was 19.3 inches. There were 220 clear days, 87 partly cloudy, and 58 cloudy days. The average number of days with measurable precipitation was 47.

The average precipitation for the water year (October 1938 through September 1939) at 17 stations listed in State table 18 with complete records, and which are representative of the major drainage basins in Arizona, was 10.45 inches, a departure of -1.15 from the average normal precipitation at these stations.

The 1939 precipitation was generally below normal from January through July, and also in October and December. During the early part of September unprecedented heavy rains fell in the western half of the State, resulting in flood conditions on the Williams and lower Colorado Rivers; there was considerable damage to highways and bridges in the area of the heaviest rains. Contrasted with these excessive rains in the west was a drought condition in the northeast portion of the State, which continued throughout the growing season and resulted in an acute feed shortage in the Navajo country.

The February snowfall, which was the heaviest of record for the month, was exceptionally dry and did not furnish potential run-off moisture. The heavy rains of September resulted in some run-off in the Verde River, but water storage in the reservoirs of the Salt and Gila Rivers was not increased and the total available storage at the end of the year was the lowest since 1929.

Conditions were favorable generally for crops in irrigated districts, particularly for cotton. Nonirrigated crops, however, suffered for lack of moisture.

Temperature.—The 1939 temperatures averaged normal for Arizona as a whole, although new records for both heat and cold were established during the year. February was the coldest for all years of record, and December the warmest since 1896; many localities having record high temperatures for the latter month.

The average annual temperature for the State was 60.6°, which is 0.1° above the mean for the last 45 years. The highest annual mean was 75.2° at Mohawk. The lowest annual mean was 43.3° at Bright Angel R. S. The highest temperature recorded was 120° at Parker on July 13 and at Maricopa on July 14. The lowest temperature recorded was -23° at Alpine on February 3.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	COLORADO RIVER		
			Total	Direct[1] (1)	San Juan River: Chinle Creek[2] (3)
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms.....1939...number.....	15,375	14,876	1,550	546
2	Area irrigated.....1939...acres.....	653,263	640,110	56,181	3,940
3	(a) Cropland harvested.....1939...acres.....	592,305	585,378	55,519	3,680
4	(b) Crop failure.....1939...acres.....	3,321	2,717	44	260
5	(c) Pasture.....1939...acres.....	57,637	52,015	618	.....
6	Area irrigated.....1929...acres.....	575,590	572,289	54,732	.....
7	1919...acres.....	467,565	461,694	48,326	.....
8	Increase or decrease (-), 1929-1939.....percent....	13.5	11.9	2.6	.....
9	Irrigable area in enterprises.....1940...acres.....	1,104,645	1,046,181	174,048	12,928
10	1930...acres.....	1,085,627	1,080,057	203,105	.....
11	1920[5]...acres.....	813,153	796,530	107,311	.....
12	Excess of irrigable area over the area irrigated..1940...acres.....	451,382	406,071	117,867	8,988
13	1930...acres.....	510,037	507,768	148,373	.....
14	1920[5]...acres.....	345,588	334,836	58,985	.....
15	Area works were capable of supplying with water...1940...acres.....	844,212	824,678	70,211	6,699
16	1930...acres.....	824,152	819,399	37,102	.....
17	1920...acres.....	627,303	617,353	56,531	.....
18	Increase or decrease (-), 1930-1940.....percent....	2.4	0.6	4.6	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	190,949	184,568	14,030	2,759
20	1930...acres.....	248,562	247,110	12,370	.....
21	1920...acres.....	159,738	155,659	8,205	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	77.4	77.6	80.0	58.8
23	1929...percent....	69.8	69.8	81.6	.....
24	1919...percent....	74.5	74.8	85.5	.....
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises.....1940...dollars....	83,526,608	83,181,559	11,724,383	794,834
26	(a) Cost of irrigation works and equipment.....1940...dollars....	82,990,947	82,646,590	11,723,685	794,834
27	(b) Investment in water rights (reported).....1940...dollars....	535,661	534,969	698	.....
28	Total investment in irrigation enterprises.....1930...dollars....	73,328,197	73,097,591	9,546,192	.....
29	1920...dollars....	33,498,094	33,198,726	7,381,891	.....
30	Increase or decrease (-), 1930-1940.....percent....	13.9	13.8	22.8	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	98.94	100.87	166.99	118.65
32	1930...dollars....	88.97	89.21	142.26	.....
33	1920...dollars....	53.40	53.78	130.58	.....
34	Average investment per acre irrigated.....1939...dollars....	127.86	129.95	208.69	201.73
35	Estimated final investment in existing enterprises..1940...dollars....	108,980,519	108,598,969	22,055,225	2,348,508
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	98.66	103.81	126.72	181.66
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises		
37	Enterprises reporting maintenance and operation...1939...number.....	1,385 / 127	1,142 / 127	33	5
38	Area irrigated in these enterprises.....1939...acres.....	630,942 / 14,463	620,459 / 14,463	56,121	3,940
39	Cost of maintenance and operation.....1939...dollars....	3,101,467 / 50,715	3,065,628 / 50,715	173,661	7,699
40	Average cost, per acre irrigated.....1939...dollars....	4.92 / 3.51	4.94 / 3.51	3.09	1.95
41	Total annual charges (reported)[7] [8].....1939...dollars....	2,826,235 / 450	2,825,625 / 450	186,749	7,699
42	Average annual charge per acre irrigated.....1939...dollars....	5.42 / 3.00	5.45 / 3.00	3.38	1.95
43	Area against which charges were assessed.....1939...acres.....	656,350 / 250	653,631 / 250	58,018	3,940
44	Average annual charge per acre assessed.....1939...dollars....	4.31 / 1.80	4.32 / 1.80	3.22	1.95
45	Total charges collected[7].....1939...dollars....	1,943,583 / 400	1,943,583 / 400	209,934	.....
46	Indebtedness to December 31 (reported)[8].....1939...dollars....	42,589,633 / 2,500	42,589,633 / 2,500	3,298,572	200,759
	WATER DELIVERED TO IRRIGATORS, 1939				
47	Enterprises reporting water delivered.....1939...number.....	1,308 / 118	1,089 / 118	31	5
48	Area irrigated by these enterprises.....1939...acres.....	622,469 / 71,901	617,144 / 71,901	55,951	3,940
49	Water delivered.....1939...acre-feet..	2,056,290 / 80,044	2,046,272 / 80,044	258,036	5,314
50	Average water delivered per acre irrigated.....1939...acre-feet..	3.3 / 1.1	3.3 / 1.1	4.6	1.3
51	Average cost of water per acre irrigated.....1939...dollars....	5.82 / 2.88	5.81 / 2.88	3.33	1.95
52	Average cost of water per acre-foot delivered..1939...dollars....	1.76 / 2.59	1.75 / 2.59	0.72	1.45
	DRAINAGE OF IRRIGATED LAND				
53	Enterprises reporting land drained or needing drainage.....1939...number.....	18 /	18 /	5	.....
54	Irrigable area in these enterprises.....1939...acres.....	418,539 /	418,539 /	167,258	.....
55	Irrigated area in these enterprises.....1939...acres.....	271,680 /	271,680 /	50,676	.....
56	Area for which drains have been installed.....1939...acres.....	93,803 /	93,803 /	48,010	.....
57	Additional area needing drainage.....1939...acres.....	107,651 /	107,651 /	106,040	.....

[1] Data for 1 enterprise in Paria River Drainage Basin (4) (number refers to separate map) are included with Colorado River "Direct" Drainage Basin (1).
[2] Data for 2 enterprises in San Juan River "Direct" Drainage Basin (2) (number refers to separate map) are included with Chinle Creek Drainage Basin (3).
[3] Data for 1 enterprise in Puerco River Drainage Basin (10) (number refers to separate map) are included with Little Colorado River "Direct" Drainage Basin (5).
[4] Data for 1 enterprise in San Carlos River Drainage Basin (18) (number refers to separate map) are included with Upper Gila River "Direct" Drainage Basin (14).

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

COLORADO RIVER—Continued													
Little Colorado River					Kanab Creek	Virgin River	Williams River	Gila River					
									Upper Gila River				
Total	Direct[3]	Nutrioso Creek	Concho Creek	Silver Creek				Total	Total	Direct[4]			
	(5)	(6)	(7)	(9)	(11)	(12)	(13)			(14)			
1,246	859	3	45	339	35	36	82	11,381	10,716	2,781			1
15,006	9,360	154	921	4,571	500	617	1,714	562,152	471,091	130,065			2
12,219	7,532	154	321	4,212	462	521	1,213	511,764	427,103	114,598			3
155	141	.....	.....	14	.....	30	66	2,162	1,981	855			4
2,632	1,687	.....	600	345	38	66	435	48,226	42,007	14,612			5
13,652	7,249	222	823	.....	322	444	1,111	500,169	.....	.....			6
17,036	10,260	636	244	.....	450	379	1,653	391,417	.....	.....			7
9.9	29.1	-30.6	11.9	.....	55.3	39.0	54.3	12.4	.....	.....			8
30,918	23,191	154	1,539	6,034	600	728	2,425	824,534	610,785	180,720			9
29,116	14,683	260	1,197	.....	822	702	2,020	837,443	.....	.....			10
35,358	20,821	1,224	500	.....	710	533	3,232	643,480	.....	.....			11
15,912	13,831	.....	618	1,463	100	111	711	262,382	139,694	50,655			12
15,464	7,434	38	374	.....	500	258	909	337,274	.....	.....			13
18,322	10,561	588	256	.....	260	154	1,579	252,063	.....	.....			14
24,981	18,154	154	1,539	5,134	600	646	2,346	719,195	575,922	163,298			15
21,796	11,937	260	823	.....	667	690	1,475	724,283	.....	.....			16
21,880	14,131	952	250	.....	610	512	1,809	533,521	.....	.....			17
14.6	52.1	-40.8	87.0	.....	-10.0	-6.4	59.1	-0.7	.....	.....			18
9,975	8,794	.....	618	563	100	29	632	157,043	104,831	33,233			19
8,144	4,688	38	.....	.....	345	246	364	224,114	.....	.....			20
4,844	3,871	316	6	.....	160	133	156	142,104	.....	.....			21
60.1	51.6	100.0	59.8	89.0	83.3	95.5	73.1	78.2	81.8	79.6			22
62.6	60.7	85.4	100.0	.....	48.3	64.3	75.3	69.1	.....	.....			23
77.9	72.6	66.8	97.6	.....	73.8	74.0	91.4	73.4	.....	.....			24
1,552,636	1,232,916	8,330	101,480	209,910	6,086	16,918	52,948	69,033,754	53,438,448	13,259,650			25
1,546,361	1,227,741	8,330	101,480	208,810	6,086	16,577	52,900	68,506,147	53,361,476	13,193,336			26
6,275	5,175	.....	.....	1,100	.....	341	48	527,607	76,972	66,314			27
821,056	465,060	12,250	52,725	.....	13,540	17,750	62,321	62,420,861	.....	.....			28
460,206	146,913	16,500	49,228	.....	20,500	7,474	55,504	25,165,814	.....	.....			29
89.1	165.1	-32.0	92.5	.....	-55.1	-4.7	-15.0	10.6	.....	.....			30
62.15	67.91	54.09	65.94	40.89	10.14	26.19	22.57	95.99	92.79	81.20			31
37.67	38.96	47.12	64.06	.....	20.30	25.72	42.25	86.18	.....	.....			32
21.03	10.40	17.33	196.91	.....	33.61	14.60	30.68	47.17	.....	.....			33
103.47	131.72	54.09	110.18	45.92	12.17	27.42	30.89	122.80	113.44	101.95			34
2,121,912	1,788,692	12,830	101,480	218,910	6,086	26,313	59,608	81,981,317	64,555,131	23,375,480			35
68.63	77.13	83.31	65.94	36.28	10.14	36.14	24.58	99.43	105.69	129.35			36
								Primary	Sup.	Primary	Sup.	Primary	Sup.
								Enterprises		Enterprises		Enterprises	
65	52	1	3	9	6	16	66	951	127	782	123	208	114	37
14,611	9,019	(6)	921	4,571	350	617	1,504	543,316	14,463	457,176	13,807	128,706	13,272	38
21,182	16,275	(6)	879	3,878	353	1,673	5,046	2,856,014	50,715	2,313,872	45,445	444,950	42,055	39
1.45	1.80	(6)	0.95	0.85	1.01	2.71	3.36	5.26	3.51	5.06	3.29	3.46	3.17	40
32,500	18,776	.....	4,500	9,224	200	615	.....	2,597,862	450	1,885,211	450	276,927	.....	41
2.60	2.56	.....	5.00	2.15	0.67	1.48	.....	5.82	3.00	5.01	3.00	2.71	.....	42
19,663	13,241	.....	1,500	4,942	400	415	.....	571,175	250	441,982	250	124,676	.....	43
1.65	1.42	.....	3.00	1.87	0.50	1.48	.....	4.55	1.80	4.27	1.80	2.22	.....	44
22,128	12,940	.....	600	8,588	168	348	.....	1,711,005	400	1,028,997	400	203,651	.....	45
236,527	124,527	.....	.....	112,000	.....	37	.....	38,853,738	2,500	33,408,250	2,500	10,827,383	.....	46
66	52	3	3	8	6	14	60	907	118	749	114	201	105	47
14,536	9,160	154	921	4,301	350	488	1,434	540,445	71,901	454,327	71,245	128,931	12,667	48
32,250	19,221	154	1,812	11,063	331	2,042	3,975	1,744,324	80,044	1,374,216	77,977	382,789	18,407	49
2.2	2.1	1.0	2.0	2.6	0.9	4.2	2.8	3.2	1.1	3.0	1.1	3.0	1.5	50
2.38	2.23	1.50	4.97	2.16	1.04	3.26	3.49	6.20	2.88	5.53	2.60	3.33	2.49	51
1.07	1.06	1.50	2.53	0.84	1.10	0.78	1.26	1.92	2.59	1.83	2.38	1.12	1.71	52
5	5	.....	.....	.....	.....	.....	1	7	.....	7	.....	1	.....	53
6,253	6,253	.....	.....	.....	.....	.....	(6)	245,003	.....	245,003	.....	(6)	.....	54
1,012	1,012	.....	.....	.....	.....	.....	(6)	219,972	.....	219,972	.....	(6)	.....	55
62	62	.....	.....	.....	.....	.....	(6)	45,706	.....	45,706	.....	(6)	.....	56
291	291	.....	.....	.....	.....	.....	.....	1,320	.....	1,320	.....	.....	.....	57

[5] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[7] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[8] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Gila River—Continued							
		Upper Gila River—Continued							
		San Francisco River			San Simon Creek	San Pedro River		Queen Creek	
		Total	Direct (15)	Blue River (16)	(17)	(19)		(20)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	19	4	15	72	220		75	
2	Area irrigated....1939...acres	245	33	212	580	6,009		7,148	
3	(a) Cropland harvested....1939...acres	224	33	191	577	4,669		6,693	
4	(b) Crop failure....1939...acres	16	.....	16	.....	35		89	
5	(c) Pasture....1939...acres	5	.....	5	3	1,305		366	
6	Area irrigated....1929...acres	781	.....	.....	.....	3,956		.....	
7	1919...acres	429	.....	.....	.....	7,773		.....	
8	Increase or decrease (-), 1929-1939....percent	-68.6	.....	.....	.....	51.9		.....	
9	Irrigable area in enterprises....1940...acres	348	35	313	843	8,741		10,167	
10	1930...acres	1,191	.....	.....	.....	6,584		.....	
11	1920[2]...acres	4,148	.....	.....	.....	18,959		.....	
12	Excess of irrigable area over the area irrigated..1940...acres	103	2	101	263	2,732		3,019	
13	1930...acres	410	.....	.....	.....	2,628		.....	
14	1920[2]...acres	3,719	.....	.....	.....	11,186		.....	
15	Area works were capable of supplying with water...1940...acres	348	35	313	828	8,094		10,167	
16	1930...acres	851	.....	.....	.....	4,428		.....	
17	1920...acres	476	.....	.....	.....	10,861		.....	
18	Increase or decrease (-), 1930-1940....percent	-59.1	.....	.....	.....	82.8		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	103	2	101	248	2,085		3,019	
20	1930...acres	70	.....	.....	.....	472		.....	
21	1920...acres	47	.....	.....	.....	3,088		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	70.4	94.3	67.7	70.0	74.2		70.3	
23	1929...percent	91.8	.....	.....	.....	89.3		.....	
24	1919...percent	90.1	.....	.....	.....	71.6		.....	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	7,275	1,225	6,050	127,634	490,553		412,025	
26	(a) Cost of irrigation works and equipment....1940...dollars	7,250	1,200	6,050	127,634	486,168		412,025	
27	(b) Investment in water rights (reported)....1940...dollars	25	25	.....	.....	4,385		.....	
28	Total investment in irrigation enterprises....1930...dollars	22,649	.....	.....	.....	184,985		.....	
29	1920...dollars	15,415	.....	.....	.....	359,153		.....	
30	Increase or decrease (-), 1930-1940....percent	-67.9	.....	.....	.....	165.2		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	20.91	35.00	19.33	154.15	60.61		40.53	
32	1930...dollars	26.61	.....	.....	.....	41.78		.....	
33	1920...dollars	32.38	.....	.....	.....	33.07		.....	
34	Average investment per acre irrigated....1939...dollars	29.69	37.12	28.54	220.06	81.64		57.64	
35	Estimated final investment in existing enterprises..1940...dollars	7,375	1,325	6,050	127,894	501,053		425,505	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	21.19	37.86	19.33	151.71	57.32		41.85	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	
37	Enterprises reporting maintenance and operation...1939...number	13	3	10	36	1	84	6	15
38	Area irrigated in these enterprises....1939...acres	213	33	180	414	(3)	5,242	125	7,144
39	Cost of maintenance and operation....1939...dollars	815	325	490	5,576	(3)	15,926	270	75,419
40	Average cost, per acre irrigated....1939...dollars	3.83	9.85	2.72	13.47	(3)	3.04	2.16	10.56
41	Total annual charges (reported)[4] [5]....1939...dollars	.....	.....	.....	.....	.....	17,759	.....	7,907
42	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	.....	8.07	.....	9.58
43	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	.....	2,997	.....	1,380
44	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	.....	5.93	.....	5.73
45	Total charges collected[4]....1939...dollars	.....	.....	.....	.....	.....	12,246	.....	5,590
46	Indebtedness to December 31 (reported)[5]....1939...dollars	.....	.....	.....	.....	.....	.....	.....	57,275
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	16	3	13	66	1	72	5	15
48	Area irrigated by these enterprises....1939...acres	233	33	200	545	(3)	5,269	124	7,144
49	Water delivered....1939...acre-feet	722	28	694	1,807	(3)	14,551	503	23,062
50	Average water delivered per acre irrigated....1939...acre-feet	3.1	0.8	3.5	3.3	(3)	2.8	4.1	3.2
51	Average cost of water per acre irrigated....1939...dollars	3.91	9.85	2.74	13.31	(3)	5.21	1.77	9.61
52	Average cost of water per acre-foot delivered..1939...dollars	1.26	11.61	0.79	4.02	(3)	1.89	0.44	2.98
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	.....	.....	.....	1	.....	.....
54	Irrigable area in these enterprises....1939...acres	.....	.....	.....	.....	.....	(3)	.....	.....
55	Irrigated area in these enterprises....1939...acres	.....	.....	.....	.....	.....	(3)	.....	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	(3)	.....	.....
57	Additional area needing drainage....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....

[1] Data for 2 enterprises in Black River Drainage Basin (24) (number refers to separate map) are included with Salt River "Direct" Drainage Basin (23).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued

Gila River—Continued

Upper Gila River—Continued

Santa Cruz River			Salt River				Lower Gila River				
Total	Direct (21)	Rillito Creek (22)	Total	Direct[1] (23)	Tonto Creek (25)	Verde River (26)	Total				
613	493	120	6,936	6,480	35	421	665				1
59,889	56,051	3,838	267,155	258,008	512	8,635	91,061				2
50,296	48,129	2,167	250,046	242,161	399	7,486	84,661				3
691	685	6	295	53	1	241	181				4
8,902	7,237	1,665	16,814	15,794	112	908	6,219				5
24,718	.....	.....	311,264	264,740	442	6,844	.....				6
33,019	.....	.....	247,260	235,825	502	6,564	.....				7
142.3	.....	.....	-14.2	-2.5	15.8	26.2	.....				8
90,112	84,773	5,339	319,854	305,883	532	13,439	213,749				9
43,945	.....	.....	356,219	297,012	446	13,779	.....				10
76,617	.....	.....	277,034	253,603	2,928	9,978	.....				11
30,223	28,722	1,501	52,699	47,875	20	4,804	122,688				12
19,227	.....	.....	44,955	32,272	4	6,935	.....				13
43,598	.....	.....	29,774	17,778	2,426	3,414	.....				14
82,015	77,216	4,799	311,172	298,636	520	12,016	143,273				15
39,920	.....	.....	345,045	290,479	442	9,685	.....				16
45,115	.....	.....	268,644	253,308	720	7,470	.....				17
105.4	.....	.....	-9.8	2.8	17.6	24.1	.....				18
22,126	21,165	961	44,017	40,628	8	3,381	52,212				19
15,202	.....	.....	33,781	25,739	.....	2,841	.....				20
12,096	.....	.....	21,384	17,483	218	906	.....				21
73.0	72.6	80.0	85.9	86.4	98.5	71.9	63.6				22
61.9	.....	.....	90.2	91.1	100.0	70.7	.....				23
73.2	.....	.....	92.0	93.1	69.7	87.9	.....				24
3,167,752	2,889,176	278,576	35,973,559	35,277,292	10,025	686,242	15,595,306				25
3,166,347	2,888,289	278,058	35,968,716	35,272,646	10,000	686,070	15,144,671				26
1,405	887	518	4,843	4,646	25	172	450,635				27
2,251,988	.....	.....	36,188,493	32,193,073	20,550	462,381	.....				28
5,168,524	.....	.....	14,939,034	14,339,874	9,468	209,482	.....				29
40.7	.....	.....	-0.6	-9.6	-51.2	48.4	.....				30
38.62	37.42	58.05	115.61	118.13	19.28	57.11	108.85				31
56.41	.....	.....	104.88	110.83	46.49	47.74	.....				32
114.56	.....	.....	55.61	56.61	13.15	28.04	.....				33
52.89	51.55	72.58	134.65	136.73	19.58	79.47	171.26				34
3,430,667	3,144,311	286,356	36,687,157	35,882,942	10,775	793,440	17,426,186				35
38.07	37.09	53.63	114.70	117.31	20.25	59.04	81.53				36
Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	
233	.....	172	.....	61	193	2	42	1	24	127	1	169	4	37
58,130	.....	54,435	.....	3,695	257,327	(3)	249,215	(3)	324	7,788	(3)	86,140	656	38
451,311	.....	414,545	.....	36,766	1,319,875	(3)	1,297,312	(3)	778	21,785	(3)	542,142	5,270	39
7.76	.....	7.62	.....	9.95	5.13	(3)	5.21	(3)	2.40	2.80	(3)	6.29	8.03	40
88,044	.....	66,228	.....	21,816	1,494,574	450	1,476,137	.....	.....	18,437	450	712,651	.....	41
5.24	.....	4.44	.....	11.48	5.88	3.00	5.93	.....	.....	3.65	3.00	10.16	.....	42
17,428	.....	14,915	.....	2,513	295,501	250	288,288	.....	.....	7,213	250	129,193	.....	43
5.05	.....	4.44	.....	8.68	5.06	1.80	5.12	.....	.....	2.56	1.80	5.52	.....	44
21,011	.....	570	.....	20,441	786,499	400	774,012	.....	.....	12,487	400	682,008	.....	45
191,677	.....	157,317	.....	34,360	22,331,915	2,500	22,227,414	.....	.....	104,501	2,500	5,445,488	.....	46
202	.....	139	.....	63	177	3	36	2	22	119	1	158	4	47
54,023	.....	50,413	.....	3,610	258,182	58,404	252,646	(3)	295	5,241	(3)	86,118	656	48
171,643	.....	161,673	.....	9,970	779,642	58,872	767,369	(3)	480	11,793	(3)	370,108	2,067	49
3.2	.....	3.2	.....	2.8	3.0	1.0	3.0	(3)	1.6	2.3	(3)	4.3	3.2	50
8.28	.....	8.13	.....	10.35	5.94	6.79	5.99	(3)	2.47	3.99	(3)	9.70	8.03	51
2.60	.....	2.53	.....	3.75	1.97	6.70	1.97	(3)	1.52	1.77	(3)	2.26	2.55	52
2	.....	2	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	53
(3)	.....	(3)	.....	.....	244,625	.....	244,625	.....	.....	.....	.....	.....	.....	54
(3)	.....	(3)	.....	.....	219,594	.....	219,594	.....	.....	.....	.....	.....	.....	55
(3)	.....	(3)	.....	.....	45,435	.....	45,435	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	1,320	.....	1,320	.....	.....	.....	.....	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued				INDEPENDENT BASINS			
		Gila River—Continued							
		Lower Gila River—Continued							
		Direct (27)	Aqua Fria River (28)	Hassayampa River (29)	Centennial Wash (30)	Red Lake (31)	Vamori (Valshni) Wash (32)	Sulphur Springs (33)	White-water Draw (34)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	556	71	32	6	4	268	90	137
2	Area irrigated....1939...acres	73,685	16,462	530	384	40	5,243	4,615	3,255
3	(a) Cropland harvested....1939...acres	67,967	15,998	509	187	27	2,084	2,327	2,489
4	(b) Crop failure....1939...acres	162	19	.....	.....	.....	434	76	94
5	(c) Pasture....1939...acres	5,556	445	21	197	13	2,725	2,212	672
6	Area irrigated....1929...acres	.....	25,104	432	.....	.....	.....	.....	3,301
7	1919...acres	.....	18,824	956	.....	.....	.....	.....	5,871
8	Increase or decrease (-), 1929-1939....percent	.....	-34.4	22.7	.....	.....	.....	.....	-1.4
9	Irrigable area in enterprises....1940...acres	165,625	46,892	751	461	42	8,637	44,161	5,624
10	1930...acres	.....	83,801	865	.....	.....	.....	.....	5,570
11	1920[1]..acres	.....	38,699	3,657	.....	.....	.....	.....	16,623
12	Excess of irrigable area over the area irrigated..1940...acres	91,940	30,430	221	97	2	3,394	39,546	2,369
13	1930...acres	.....	58,697	433	.....	.....	.....	.....	2,269
14	1920[1]..acres	.....	19,875	2,701	.....	.....	.....	.....	10,752
15	Area works were capable of supplying with water...1940...acres	95,346	46,771	750	406	42	8,571	6,030	4,891
16	1930...acres	.....	62,753	650	.....	.....	.....	.....	4,753
17	1920...acres	.....	30,000	1,773	.....	.....	.....	.....	9,950
18	Increase or decrease (-), 1930-1940....percent	.....	-25.5	15.4	.....	.....	.....	.....	2.9
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	21,661	30,309	220	22	2	3,328	1,415	1,636
20	1930...acres	.....	37,649	218	.....	.....	.....	.....	1,452
21	1920...acres	.....	11,176	817	.....	.....	.....	.....	4,079
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	77.3	35.2	70.7	94.6	95.2	61.2	76.5	66.6
23	1929...percent	.....	40.0	66.5	.....	.....	.....	.....	69.5
24	1919...percent	.....	62.7	53.9	.....	.....	.....	.....	59.0
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	8,390,724	7,164,487	20,545	19,550	2,300	37,676	116,122	188,951
26	(a) Cost of irrigation works and equipment....1940...dollars	8,390,089	6,714,487	20,545	19,550	2,300	37,676	115,435	188,946
27	(b) Investment in water rights (reported)....1940...dollars	635	450,000	.....	.....	.....	.....	687	5
28	Total investment in irrigation enterprises....1930...dollars	.....	7,451,130	26,450	.....	.....	.....	.....	230,606
29	1920...dollars	.....	1,428,077	51,299	.....	.....	.....	.....	299,368
30	Increase or decrease (-), 1930-1940....percent	.....	-3.8	-22.3	.....	.....	.....	.....	-18.1
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	88.00	153.18	27.39	48.15	54.76	4.40	19.26	38.63
32	1930...dollars	.....	118.74	40.69	.....	.....	.....	.....	48.52
33	1920...dollars	.....	47.60	28.93	.....	.....	.....	.....	30.09
34	Average investment per acre irrigated....1939...dollars	113.87	435.21	38.76	50.91	57.50	7.19	25.16	58.05
35	Estimated final investment in existing enterprises..1940...dollars	10,210,719	7,175,172	20,745	19,550	3,650	42,344	120,397	215,159
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	61.65	153.01	27.62	40.64	86.90	4.90	2.73	38.26
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises						
37	Enterprises reporting maintenance and operation...1939...number	87	4	47	30	5	4	26	80	133
38	Area irrigated in these enterprises....1939...acres	70,019	656	15,478	500	143	40	2,980	4,236	3,227
39	Cost of maintenance and operation....1939...dollars	392,045	5,270	145,772	2,300	2,025	500	1,039	15,257	19,043
40	Average cost, per acre irrigated....1939...dollars	5.60	8.03	9.42	4.60	14.16	12.50	0.35	3.60	5.90
41	Total annual charges (reported)[2] [3]....1939...dollars	483,731	.....	228,920	.....	.....	.....	610	.....	.....
42	Average annual charge per acre irrigated....1939...dollars	8.04	.....	22.89	.....	.....	.....	0.22	.....	.....
43	Area against which charges were assessed....1939...acres	90,393	.....	38,800	.....	.....	.....	2,719	.....	.....
44	Average annual charge per acre assessed....1939...dollars	5.35	.....	5.90	.....	.....	.....	0.22	.....	.....
45	Total charges collected[2]....1939...dollars	454,525	.....	227,483	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[3]....1939...dollars	3,710,488	.....	1,735,000	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	86	4	35	31	6	3	1	83	132
48	Area irrigated by these enterprises....1939...acres	70,059	656	15,145	530	384	25	(4)	2,745	2,538
49	Water delivered....1939...acre-feet	338,232	2,067	29,565	1,378	933	51	(4)	4,281	5,656
50	Average water delivered per acre irrigated....1939...acre-feet	4.8	3.2	2.0	2.6	2.4	2.0	(4)	1.6	2.2
51	Average cost of water per acre irrigated....1939...dollars	8.04	8.03	17.49	4.60	14.16	8.00	(4)	6.04	7.53
52	Average cost of water per acre-foot delivered..1939...dollars	1.67	2.55	8.96	1.77	5.84	3.92	(4)	3.87	3.38
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	.....	.....	.....	.....	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	COLORADO RIVER					
			Total	Direct[1] (1)	San Juan River: Chinle Creek[2] (3)	Little Colorado River: Total	Direct[3] (5)	Nutrioso Creek (6)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises.....1940..number.....	[4] 1,918	1,539	34	5	77	61	3
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	440	536	2,065	1,340	324	298	51
3	Diversion dams.....1940..total number.....	602	426	3	28	63	51	2
4	1930..total number.....	267	260	1	.....	31	9	4
5	1920..total number.....	248	242	2	.....	32	19	4
6	(a) Concrete and masonry.....1940..number.....	84	80	.....	27	26	22	.....
7	(b) Timber.....1940..number.....	5	5	.....	.....	.....	.....	.....
8	(c) Earth and rock.....1940..number.....	321	239	.....	1	23	17	1
9	(d) Other, mixed, and not reported..1940..number.....	192	102	3	.....	14	12	1
10	Main canals and laterals.....1940..total length, miles.....	4,178.2	4,138.2	304.5	164.3	321.2	242.1	6.0
11	1930..total length, miles.....	3,974	3,967	323	.....	220	116	2
12	1920..total length, miles.....	3,368	3,240	273	.....	199	100	8
13	(a) Earth.....1940..length, miles.....	3,986	3,946	288	164	321	242	6
14	(b) Lined.....1940..length, miles.....	192.2	192.2	16.5	0.3	0.2	0.1	.....
15	1940..capacity, c.f.s.[5].....	13,258	12,498	2,294	147	393	337	6
16	1930..capacity, c.f.s.[5].....	13,697	13,687	2,426	.....	314	129	3
17	1920..capacity, c.f.s.[5].....	11,707	11,154	713	.....	341	208	17
18	Pipe lines[6].....1940..total length, miles.....	344.3	334.0	11.2	0.1	2.4	2.2	.....
19	1930..total length, miles.....	189.3	185.2	12.5	.....	2.1	.....	.....
20	1920..total length, miles.....	104.5	99.4	.....	.....	.....	.....	.....
21	(a) Concrete.....1940..length, miles.....	265.8	265.8	10.3	.....	0.5	0.5	.....
22	(b) Metal.....1940..length, miles.....	65.7	55.4	0.9	0.1	1.9	1.7	.....
23	(c) Wood-stave.....1940..length, miles.....	3.0	3.0	.....	.....	.....	.....	.....
24	(d) Other.....1940..length, miles.....	9.8	9.8	.....	.....	.....	.....	.....
25	Storage dams.....1940..total number.....	199	188	.....	7	50	42	2
26	1930..total number.....	78	74	.....	.....	29	7	2
27	1920..total number.....	99	48	.....	.....	14	9	1
28	(a) Concrete and masonry.....1940..number.....	17	16	.....	.....	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	167	157	.....	1	46	38	2
30	(c) Other, mixed, and not reported..1940..number.....	15	15	.....	6	4	4	.....
31	Reservoirs.....1940..total number.....	333	302	.....	7	52	44	2
32	(a) 1-99 acre-feet capacity.....1940..number.....	274	244	.....	.....	18	16	.....
33	(b) 100-999 acre-feet capacity....1940..number.....	36	35	.....	7	23	21	2
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	23	23	.....	.....	11	7	.....
35	1940..total capacity, ac.-ft.[7]..	4,860,898	4,860,586	.....	6,073	60,690	48,144	(8)
36	1930..total number.....	378	288	.....	.....	37	10	3
37	1930..total capacity, ac.-ft....	3,410,975	3,410,835	.....	.....	72,795	41,648	1,001
38	Wells, flowing.....1940..number.....	268	261	.....	.....	13	13	.....
39	1930..number.....	215	204	.....	.....	.....	.....	.....
40	1920..number.....	310	300	.....	.....	2	2	.....
41	1940..yield, g.p.m.....	22,878	22,038	.....	.....	4,000	4,000	.....
42	1930..yield, g.p.m.....	13,772	13,342	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	14,547	14,044	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	1,858	1,641	18	.....	16	14	.....
45	1930..number.....	1,398	1,188	1	.....	.....	.....	.....
46	1920..number.....	999	790	3	.....	2	.....	.....
47	1940..yield, g.p.m.....	2,508,337	2,426,877	7,933	.....	4,775	4,395	.....
48	1930..yield, g.p.m.....	1,832,352	1,769,895	1,000	.....	.....	.....	.....
49	1920..yield, g.p.m.....	1,042,590	969,803	750	.....	1,000	.....	.....
50	Pumping plants.....1940..total number.....	1,970	1,741	37	.....	22	19	.....
51	1930..total number.....	1,378	1,164	12	.....	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	102,733	99,142	2,196	.....	338	284	.....
53	1930..capacity, hp.....	57,633	55,608	2,545	.....	.....	.....	.....
54	1920..capacity, hp.....	22,014	19,611	414	.....	1	.....	.....
55	(a) Electric.....1940..number.....	1,078	1,076	14	.....	3	3	.....
56	1940..capacity, hp.....	78,128	78,118	1,469	.....	13	13	.....
57	(b) Internal-combustion.....1940..number.....	796	601	21	.....	16	14	.....
58	1940..capacity, hp.....	24,145	20,614	724	.....	301	269	.....
59	(c) Other.....1940..number.....	96	64	2	.....	3	2	.....
60	1940..capacity, hp.....	460	410	(8)	.....	24	(8)	.....
61	Pumps.....1940..total number.....	1,969	1,748	36	.....	22	19	.....
62	1930..number.....	1,364	1,149	19	.....	.....	.....	.....
63	1920..number.....	1,001	792	10	.....	2	.....	.....
64	1940..capacity, g.p.m.....	2,992,986	2,893,289	202,223	.....	9,280	7,100	.....
65	1930..capacity, g.p.m.....	2,125,293	2,065,786	233,700	.....	.....	.....	.....
66	1920..capacity, g.p.m.....	1,048,030	974,063	80,200	.....	1,000	.....	.....
67	(a) Centrifugal.....1940..number.....	538	427	25	.....	15	14	.....
68	1940..capacity, g.p.m.....	648,142	598,116	124,388	.....	6,085	5,735	.....
69	1940..average capacity, g.p.m..	1,205	1,401	4,976	.....	406	410	.....
70	(b) Turbine.....1940..number.....	1,260	1,196	5	.....	2	1	.....
71	1940..capacity, g.p.m.....	2,324,468	2,279,778	77,500	.....	(8)	(8)	.....
72	1940..average capacity, g.p.m..	1,845	1,906	15,500	.....	(8)	(8)	.....
73	(c) Plunger.....1940..number.....	139	97	6	.....	3	2	.....
74	1940..capacity, g.p.m.....	6,344	3,713	335	.....	240	(8)	.....
75	1940..average capacity, g.p.m..	46	38	56	.....	80	(8)	.....
76	(d) Other.....1940..number.....	32	28	.....	.....	2	2	.....
77	1940..capacity, g.p.m.....	14,032	11,682	.....	.....	(8)	(8)	.....
78	Pumping lift, from all sources.....1940..average, feet.....	60	62	27	.....	34	36	.....
79	1930..average, feet.....	46	45	39	.....	.....	.....	.....
80	1920..average, feet.....	44	45	14	.....	30	.....	.....
81	from pumped wells.....1940..average, feet.....	62	64	42	.....	30	31	.....
82	from surface sources...1940..average, feet.....	34	32	19	.....	57	74	.....

[1] Data for 1 enterprise in Paria River Drainage Basin (4) (number refers to separate map) are included with Colorado River "Direct" Drainage Basin (1). [2] Data for 2 enterprises in San Juan River "Direct" Drainage Basin (2) (number refers to separate map) are included with Chinle Creek Drainage Basin (3). [3] Data for 1 enterprise in Puerco River Drainage Basin (10) (number refers to separate map) are included with Little Colorado River "Direct" Drainage Basin (5). [4] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1. [5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [6] Includes siphons and farm pipe lines reported. [7] Total capacity of all reservoirs regardless of size. [8] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Little Colorado River—Continued					Gila River		
								Upper Gila River	
		Concho Creek (7)	Silver Creek (9)	Kanab Creek (11)	Virgin River (12)	Williams River (13)	Total	Total	Direct[1] (14)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	4	9	7	16	79	1,321	1,104	354
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	385	570	86	40	30	544	522	461
3	Diversion dams....1940..total number	.....	10	1	5	13	313	274	36
4	1930..total number	.....	.....	2	2	9	200	.....	.....
5	1920..total number	.....	.....	1	.....	5	199	.....	.....
6	(a) Concrete and masonry....1940..number	.....	4	1	.....	1	25	20	8
7	(b) Timber....1940..number	.....	.....	.....	.....	.....	5	5	.....
8	(c) Earth and rock....1940..number	.....	5	.....	4	10	201	181	13
9	(d) Other, mixed, and not reported..1940..number	.....	1	.....	1	2	82	68	15
10	Main canals and laterals....1940..total length, miles	10.0	63.1	5.0	20.0	45.0	3,278.2	2,571.9	704.8
11	1930..total length, miles	2	.....	6	11	28	3,331	.....	.....
12	1920..total length, miles	3	.....	4	11	35	2,701	.....	.....
13	(a) Earth....1940..length, miles	10	63	5	20	45	3,103	2,481	701
14	(b) Lined....1940..length, miles	.....	0.1	.....	.....	.....	175.2	90.9	3.8
15	1940..capacity, c.f.s.[3]	5	45	8	46	141	9,469	7,600	2,158
16	1930..capacity, c.f.s.[3]	16	.....	66	17	36	10,716	.....	.....
17	1920..capacity, c.f.s.[3]	3	.....	1	9	40	10,032	.....	.....
18	Pipe lines[4]....1940..total length, miles	.....	0.2	.....	0.1	4.0	316.2	288.8	53.6
19	1930..total length, miles	.....	.....	.....	3.0	3.7	150.0	.....	.....
20	1920..total length, miles	.....	.....	1.3	.....	10.1	87.9	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	0.1	254.9	237.3	52.1
22	(b) Metal....1940..length, miles	.....	0.2	.....	0.1	3.1	49.3	47.1	1.5
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	0.8	2.2	2.1	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	9.8	2.3	.....
25	Storage dams....1940..total number	2	4	.....	1	4	126	119	7
26	1930..total number	2	.....	1	.....	2	40	.....	.....
27	1920..total number	.....	.....	.....	1	.....	33	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	16	15	.....
29	(b) Earth and rock....1940..number	2	4	.....	1	4	105	99	7
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	5	5	.....
31	Reservoirs....1940..total number	2	4	.....	2	3	238	226	64
32	(a) 1-99 acre-feet capacity....1940..number	1	1	.....	2	3	221	210	59
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	5	5	3
34	(c) 1,000 and over acre-feet capacity....1940..number	1	3	.....	.....	.....	12	11	2
35	1940..total capacity, ac.-ft.[5]	(6)	9,286	.....	(6)	43	4,793,778	4,609,218	1,202,553
36	1930..total number	2	.....	6	3	14	214	.....	.....
37	1930..total capacity, ac.-ft	1,197	.....	508	2	34	3,315,572	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	248	248	95
39	1930..number	.....	.....	.....	.....	1	202	.....	.....
40	1920..number	.....	.....	.....	.....	.....	298	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	18,038	18,038	5,685
42	1930..yield, g.p.m.	.....	.....	.....	.....	10	13,314	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	14,044	.....	.....
44	Wells, pumped....1940..number	2	.....	.....	5	32	1,570	1,234	431
45	1930..number	.....	.....	3	4	44	1,119	.....	.....
46	1920..number	.....	.....	.....	.....	5	774	.....	.....
47	1940..yield, g.p.m.	(6)	.....	.....	1,753	12,935	2,399,481	1,691,526	645,812
48	1930..yield, g.p.m.	.....	.....	17	49	8,094	1,745,297	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	2,015	965,338	.....	.....
50	Pumping plants....1940..total number	2	1	1	5	38	1,638	1,292	442
51	1930..total number	.....	.....	3	4	41	1,080	.....	.....
52	Prime movers....1940..capacity, hp.	(6)	(6)	(6)	23	419	96,161	73,901	22,715
53	1930..capacity, hp.	.....	.....	2	4	326	52,391	.....	.....
54	1920..capacity, hp.	.....	.....	.....	.....	39	19,087	.....	.....
55	(a) Electric....1940..number	.....	.....	1	.....	2	1,056	831	241
56	1940..capacity, hp.	.....	.....	(6)	.....	(6)	76,626	59,323	15,177
57	(b) Internal-combustion....1940..number	2	.....	.....	3	33	528	417	193
58	1940..capacity, hp.	(6)	.....	.....	21	377	19,191	14,306	7,422
59	(c) Other....1940..number	.....	1	.....	2	3	54	44	8
60	1940..capacity, hp.	.....	(6)	.....	(6)	37	344	272	116
61	Pumps....1940..total number	2	1	1	5	38	1,646	1,298	444
62	1930..number	.....	.....	3	4	44	1,055	.....	.....
63	1920..number	.....	.....	.....	.....	8	765	.....	.....
64	1940..capacity, g.p.m.	(6)	(6)	(6)	1,105	13,665	2,666,316	1,946,281	695,647
65	1930..capacity, g.p.m.	.....	.....	17	49	10,209	1,806,044	.....	.....
66	1920..capacity, g.p.m.	.....	.....	.....	.....	2,590	889,573	.....	.....
67	(a) Centrifugal....1940..number	1	.....	1	1	28	357	264	64
68	1940..capacity, g.p.m.	(6)	.....	(6)	(6)	10,895	455,698	323,796	62,616
69	1940..average capacity, g.p.m.	(6)	.....	(6)	(6)	389	1,276	1,226	979
70	(b) Turbine....1940..number	.....	1	.....	.....	4	1,185	948	367
71	1940..capacity, g.p.m.	.....	(6)	.....	.....	2,400	2,197,078	1,609,788	627,393
72	1940..average capacity, g.p.m.	.....	(6)	.....	.....	600	1,854	1,698	1,710
73	(c) Plunger....1940..number	1	.....	.....	2	6	80	67	10
74	1940..capacity, g.p.m.	(6)	.....	.....	(6)	370	2,763	2,277	508
75	1940..average capacity, g.p.m.	(6)	.....	.....	(6)	62	35	34	51
76	(d) Other....1940..number	.....	.....	.....	2	.....	24	19	3
77	1940..capacity, g.p.m.	.....	.....	.....	(6)	.....	10,777	10,420	5,100
78	Pumping lift, from all sources....1940..average, feet	(6)	(6)	(6)	19	25	65	67	60
79	1930..average, feet	.....	.....	58	24	24	46	.....	.....
80	1920..average, feet	.....	.....	.....	.....	20	44	.....	.....
81	from pumped wells....1940..average, feet	(6)	.....	.....	19	27	67	69	65
82	from surface sources...1940..average, feet	.....	(6)	(6)	.....	14	38	40	15

[1] Data for 1 enterprise in San Carlos River Drainage Basin (18) (number refers to separate map) are included with Upper Gila River "Direct" Drainage Basin (14).
[2] Data for 2 enterprises in Black River Drainage Basin (24) (number refers to separate map) are included with Salt River "Direct" Drainage Basin (23).
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued													
Gila River—Continued													
Upper Gila River—Continued													
San Francisco River			San Simon Creek (17)	San Pedro River (19)	Queen Creek (20)	Santa Cruz River			Salt River				
Total	Direct (15)	Blue River (16)				Total	Direct (21)	Rillito Creek (22)	Total	Direct[2] (23)	Tonto Creek (25)	Verde River (26)	
17	3	14	75	111	17	284	217	67	246	64	28	154	1
20	12	22	11	73	598	289	356	72	1,265	4,666	19	78	2
15	1	14	2	23	.....	69	61	8	129	35	22	72	3
31	.....	.....	.....	12	.....	11	.....	.....	56	2	.....	46	4
28	.....	.....	.....	30	.....	31	.....	.....	44	8	9	22	5
.....	.....	.....	.....	2	.....	1	.....	1	9	4	.....	5	6
.....	.....	.....	.....	.....	.....	5	5	.....	.....	.....	.....	.....	7
14	.....	14	2	17	.....	41	34	7	94	14	22	58	8
1	1	.....	.....	4	.....	22	22	.....	26	17	.....	9	9
1.0	1.0	.....	5.0	47.0	3.0	152.3	106.0	46.3	1,658.8	1,510.1	8.0	140.7	10
3	.....	.....	.....	145	.....	189	.....	.....	1,471	1,176	1	144	11
12	.....	.....	.....	177	.....	335	.....	.....	1,201	1,009	26	114	12
1	1	.....	5	47	3	138	97	41	1,586	1,443	8	135	13
.....	.....	.....	.....	.....	.....	14.3	9.0	5.3	72.8	67.1	.....	5.7	14
21	5	16	30	246	.....	398	365	33	4,747	4,268	39	440	15
14	.....	.....	.....	112	.....	420	.....	.....	5,359	4,475	1	460	16
22	.....	.....	.....	270	.....	1,196	.....	.....	5,084	4,447	58	359	17
.....	.....	.....	5.7	11.5	26.5	65.0	50.9	14.1	126.5	115.7	.....	10.8	18
4.4	.....	.....	.....	3.0	.....	47.9	.....	.....	31.3	0.1	.....	5.7	19
1.4	.....	.....	.....	5.1	.....	35.0	.....	.....	4.3	1.5	.....	1.8	20
.....	.....	.....	0.8	1.2	26.5	54.3	46.9	7.4	102.4	101.8	.....	0.6	21
.....	.....	.....	4.9	9.9	.....	8.9	3.1	5.8	21.9	11.9	.....	10.0	22
.....	.....	.....	.....	0.4	.....	1.7	0.9	0.8	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	0.1	.....	0.1	2.2	2.0	.....	0.2	24
.....	.....	.....	39	9	.....	44	37	7	20	6	.....	14	25
.....	.....	.....	.....	6	.....	2	.....	.....	12	4	.....	6	26
1	.....	.....	.....	9	.....	5	.....	.....	3	1	1	.....	27
.....	.....	.....	1	1	.....	3	2	1	10	6	.....	4	28
.....	.....	.....	38	7	.....	37	31	6	10	.....	.....	10	29
.....	.....	.....	.....	1	.....	4	4	.....	.....	.....	.....	.....	30
.....	.....	.....	45	45	.....	49	39	10	23	7	.....	16	31
.....	.....	.....	45	44	.....	48	38	10	14	2	.....	12	32
.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	1	33
.....	.....	.....	.....	1	.....	.....	.....	.....	8	5	.....	3	34
.....	.....	.....	113	3,091	.....	289	261	28	3,403,172	3,192,004	.....	211,168	35
.....	.....	.....	.....	61	.....	4	.....	.....	23	4	.....	13	36
.....	.....	.....	.....	98	.....	12	.....	.....	2,020,233	2,015,500	.....	4,721	37
.....	.....	.....	50	91	.....	.....	.....	.....	12	.....	.....	12	38
.....	.....	.....	.....	105	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	133	.....	.....	.....	.....	1	.....	.....	1	40
.....	.....	.....	2,899	2,888	.....	.....	.....	.....	6,566	.....	.....	6,566	41
.....	.....	.....	.....	3,106	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	5,195	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	36	43	33	390	310	80	301	263	1	37	44
.....	.....	.....	.....	24	.....	154	.....	.....	343	227	5	22	45
4	.....	.....	.....	25	.....	365	.....	.....	132	72	1	3	46
.....	.....	.....	6,871	21,166	53,470	459,245	435,164	24,081	504,962	484,090	(6)	20,172	47
.....	.....	.....	.....	9,310	.....	146,530	.....	.....	778,540	537,500	165	6,591	48
225	.....	.....	.....	11,474	.....	576,234	.....	.....	150,874	75,319	500	.....	49
3	3	.....	37	47	36	405	321	84	322	270	1	51	50
4	.....	.....	.....	27	.....	121	.....	.....	283	153	6	32	51
24	24	.....	296	713	3,484	22,080	21,299	781	24,589	23,717	(6)	866	52
30	.....	.....	.....	283	.....	6,994	.....	.....	20,257	13,835	47	637	53
70	.....	.....	.....	285	.....	8,073	.....	.....	2,653	629	25	96	54
.....	.....	.....	.....	3	31	294	229	65	212	244	.....	18	55
.....	.....	.....	.....	125	3,000	17,346	16,716	630	23,675	23,427	.....	248	56
3	3	.....	25	34	4	107	88	19	51	22	1	28	57
24	24	.....	279	498	480	4,708	4,557	151	895	287	(6)	602	58
.....	.....	.....	12	10	1	4	4	.....	9	4	.....	5	59
.....	.....	.....	17	90	(6)	26	26	.....	19	3	.....	16	60
3	3	.....	36	48	36	406	322	84	325	270	1	54	61
5	.....	.....	.....	28	.....	155	.....	.....	291	160	6	33	62
12	.....	.....	.....	29	.....	366	.....	.....	124	60	2	11	63
1,000	1,000	.....	6,889	22,840	59,470	505,185	477,846	27,339	655,250	627,300	(6)	27,250	64
4,190	.....	.....	.....	12,210	.....	101,890	.....	.....	835,630	587,750	185	13,096	65
5,835	.....	.....	.....	12,949	.....	528,649	.....	.....	153,184	75,719	1,500	1,070	66
3	3	.....	20	27	1	99	54	45	50	18	1	31	67
1,000	1,000	.....	5,585	14,240	(6)	65,875	52,080	13,795	173,450	154,850	(6)	17,900	68
333	333	.....	279	527	(6)	665	964	307	3,469	8,603	(6)	577	69
.....	.....	.....	3	9	34	287	253	34	248	240	.....	8	70
.....	.....	.....	1,165	8,500	58,450	438,077	424,651	13,426	476,203	472,227	.....	3,976	71
.....	.....	.....	388	944	1,719	1,526	1,678	395	1,920	1,968	.....	497	72
.....	.....	.....	13	8	1	17	14	3	18	11	.....	7	73
.....	.....	.....	139	60	(6)	1,153	1,085	68	397	183	.....	214	74
.....	.....	.....	11	8	(6)	68	78	23	22	17	.....	31	75
.....	.....	.....	.....	4	.....	3	1	2	9	1	.....	8	76
.....	.....	.....	.....	40	.....	80	(6)	(6)	5,200	(6)	.....	5,160	77
8	8	.....	34	31	146	83	88	69	63	86	(6)	43	78
25	.....	.....	.....	24	.....	58	.....	.....	54	33	38	47	79
19	.....	.....	.....	30	.....	44	.....	.....	68	54	16	63	80
.....	.....	.....	29	31	146	85	90	71	64	86	(6)	35	81
8	8	.....	85	20	.....	39	46	25	57	.....	.....	57	82

[4] Includes siphons and farm pipe lines reported.
[5] Total capacity of all reservoirs regardless of size.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER—Continued				INDEPENDENT BASINS			
			Gila River—Continued							
			Lower Gila River							
			Total	Direct (27)	Aqua Fria River (28)	Hassayampa River (29)	Centennial Wash (30)	Red Lake (31)	Vamori (Valshni) Wash (32)	Sulphur Springs (33)	Whitewater Draw (34)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1										
1	Enterprises	1940..number	217	117	60	34	6	4	136	92	147
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	660	815	780	22	68	10	63	66	33
3	Diversion dams	1940..total number	39	20	19	.....	.....	.....	146	18	12
4		1930..total number	.....	.....	11	6	.....	.....	.....	.....	7
5		1920..total number	.....	.....	12	1	.....	.....	.....	.....	6
6	(a) Concrete and masonry	1940..number	5	2	3	.....	.....	.....	1	3	.....
7	(b) Timber	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock	1940..number	20	7	13	.....	.....	.....	58	15	9
9	(d) Other, mixed, and not reported	1940..number	14	11	3	.....	.....	.....	87	.....	3
10	Main canals and laterals	1940..total length, miles	706.3	530.0	167.1	9.2	.....	.....	24.0	14.0	2.0
11		1930..total length, miles	.....	.....	292	15	.....	.....	.....	.....	7
12		1920..total length, miles	.....	.....	208	18	.....	.....	.....	.....	128
13	(a) Earth	1940..length, miles	622	465	148	9	.....	.....	24	14	2
14	(b) Lined	1940..length, miles	84.3	65.0	19.1	0.2	.....	.....	.....	.....	.....
15		1940..capacity, c.f.s.[1]	1,869	1,100	750	19	.....	2	396	274	88
16		1930..capacity, c.f.s.[1]	.....	.....	935	45	.....	.....	.....	.....	10
17		1920..capacity, c.f.s.[1]	.....	.....	525	46	.....	.....	.....	.....	553
18	Pipe lines[2]	1940..total length, miles	27.4	7.9	19.3	0.2	.....	.....	.....	5.4	4.9
19		1930..total length, miles	.....	.....	26.1	3.6	.....	.....	.....	.....	4.1
20		1920..total length, miles	.....	.....	34.3	4.1	.....	.....	.....	.....	5.1
21	(a) Concrete	1940..length, miles	17.6	7.9	9.7	.....	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	2.2	.....	2.0	0.2	.....	.....	.....	5.4	4.9
23	(c) Wood-stave	1940..length, miles	0.1	.....	0.1	.....	.....	.....	.....	.....	.....
24	(d) Other	1940..length, miles	7.5	.....	7.5	.....	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	7	.....	7	.....	.....	.....	1	5	5
26		1930..total number	.....	.....	10	.....	.....	.....	.....	.....	4
27		1920..total number	.....	.....	5	1	.....	.....	.....	.....	51
28	(a) Concrete and masonry	1940..number	1	.....	1	.....	.....	.....	.....	1	.....
29	(b) Earth and rock	1940..number	6	.....	6	.....	.....	.....	1	4	5
30	(c) Other, mixed, and not reported	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs	1940..total number	12	1	10	.....	1	.....	1	13	17
32	(a) 1-99 acre-feet capacity	1940..number	11	1	9	.....	1	.....	1	12	17
33	(b) 100-999 acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....	.....	1	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	1	.....	1	.....	.....	.....	.....	.....	.....
35		1940..total capacity, ac.-ft.[3]	184,560	(4)	184,552	.....	(4)	.....	(4)	238	73
36		1930..total number	.....	.....	22	2	.....	.....	.....	.....	90
37		1930..total capacity, ac.-ft.	.....	.....	92,086	2	.....	.....	.....	.....	140
38	Wells, flowing	1940..number	.....	.....	.....	.....	.....	.....	.....	1	6
39		1930..number	.....	.....	.....	1	.....	.....	.....	.....	11
40		1920..number	.....	.....	1	.....	.....	.....	.....	.....	10
41		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	(4)	765
42		1930..yield, g.p.m.	.....	.....	.....	150	.....	.....	.....	.....	430
43		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	503
44	Wells, pumped	1940..number	336	247	52	27	10	2	.....	73	142
45		1930..number	.....	.....	186	10	.....	.....	.....	.....	210
46		1920..number	.....	.....	114	15	.....	.....	.....	.....	209
47		1940..yield, g.p.m.	707,955	631,906	61,499	7,785	6,765	(4)	.....	34,673	45,537
48		1930..yield, g.p.m.	.....	.....	278,876	3,144	.....	.....	.....	.....	62,457
49		1920..yield, g.p.m.	.....	.....	120,685	6,420	.....	.....	.....	.....	72,787
50	Pumping plants	1940..total number	346	250	56	30	10	2	.....	77	150
51		1930..total number	.....	.....	214	14	.....	.....	.....	.....	214
52	Prime movers	1940..capacity, hp.	22,260	18,469	3,333	202	256	(4)	.....	1,480	2,070
53		1930..capacity, hp.	.....	.....	8,681	121	.....	.....	.....	.....	2,025
54		1920..capacity, hp.	.....	.....	4,749	204	.....	.....	.....	.....	2,403
55	(a) Electric	1940..number	225	185	37	3	.....	.....	.....	.....	2
56		1940..capacity, hp.	17,303	14,436	2,855	12	.....	.....	.....	.....	(4)
57	(b) Internal-combustion	1940..number	111	63	18	23	7	1	.....	61	133
58		1940..capacity, hp.	4,885	3,973	477	183	252	(4)	.....	1,451	2,045
59	(c) Other	1940..number	10	2	1	4	3	1	.....	16	15
60		1940..capacity, hp.	72	(4)	(4)	7	4	(4)	.....	29	15
61	Pumps	1940..total number	348	250	56	31	11	2	.....	75	144
62		1930..number	.....	.....	214	14	.....	.....	.....	.....	215
63		1920..number	.....	.....	100	13	.....	.....	.....	.....	209
64		1940..capacity, g.p.m.	720,035	639,756	64,994	8,560	6,725	(4)	.....	35,103	63,344
65		1930..capacity, g.p.m.	.....	.....	322,942	4,708	.....	.....	.....	.....	59,507
66		1920..capacity, g.p.m.	.....	.....	68,575	5,810	.....	.....	.....	.....	73,967
67	(a) Centrifugal	1940..number	93	57	11	22	3	2	.....	44	65
68		1940..capacity, g.p.m.	131,902	116,746	7,351	6,855	950	(4)	.....	21,080	27,696
69		1940..average capacity, g.p.m.	1,418	2,048	668	312	317	(4)	.....	479	426
70	(b) Turbine	1940..number	237	190	40	3	4	.....	.....	16	48
71		1940..capacity, g.p.m.	587,290	522,810	57,140	1,640	5,700	.....	.....	13,460	31,290
72		1940..average capacity, g.p.m.	2,478	2,752	1,428	547	1,425	.....	.....	841	651
73	(c) Plunger	1940..number	13	2	3	4	4	.....	.....	14	28
74		1940..capacity, g.p.m.	486	(4)	198	38	75	.....	.....	103	2,468
75		1940..average capacity, g.p.m.	37	(4)	66	10	19	.....	.....	12	88
76	(d) Other	1940..number	5	1	2	2	.....	.....	.....	1	3
77		1940..capacity, g.p.m.	357	(4)	(4)	(4)	.....	.....	.....	(4)	1,950
78	Pumping lift, from all sources	1940..average, feet	56	49	89	31	80	(4)	.....	46	57
79		1930..average, feet	.....	.....	52	29	.....	.....	.....	.....	48
80		1920..average, feet	.....	.....	47	35	.....	.....	.....	.....	44
81	from pumped wells	1940..average, feet	57	50	94	32	80	(4)	.....	46	57
82	from surface sources	1940..average, feet	16	14	20	14	.....	.....	.....	79	56

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Total capacity of all reservoirs regardless of size. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Apache	Cochise		Coconino	Gila
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms.....1940...number.....	18,468		3,120	1,076		1,509	595
2	1930...number.....	14,173		1,444	927		789	306
3	Irrigated farms.....1940...number.....	10,339		935	516		237	255
4	1930...number.....	8,523		495	361		119	105
5	Increase or decrease (-), 1930-1940.....percent....	21.3		88.9	42.9		99.2	142.9
	Operated by—							
6	(a) Owners and managers.....1940...number.....	8,787		911	424		224	238
7	1930...number.....	6,750		460	277		117	93
8	(b) Tenants.....1940...number.....	1,552		24	92		13	17
9	1930...number.....	1,773		35	84		2	12
10	Land in all farms.....1940...acres.....	25,651,092		4,879,135	2,926,869		4,747,593	135,578
11	Land in irrigated farms.....1940...acres.....	5,274,470		1,047,869	907,700		405,394	17,602
12	Average per farm.....1940...acres.....	510		1,121	1,759		1,711	69
13	(a) Operated by owners and managers.....1940...acres.....	5,051,817		1,045,056	890,879		404,900	16,631
14	Average per farm.....1940...acres.....	575		1,147	2,101		1,808	70
15	(b) Operated by tenants.....1940...acres.....	222,653		2,813	16,821		494	971
16	Average per farm.....1940...acres.....	143		117	183		38	57
17	Approximate land area.....1940...acres.....	72,691,200		7,151,360	4,003,840		11,886,720	3,040,000
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	653,263		11,401	11,458		2,065	1,424
19	(a) Cropland harvested.....1939...acres.....	592,305		9,603	8,142		1,597	1,266
20	(b) Crop failure.....1939...acres.....	3,321		406	125		9	11
21	(c) Pasture.....1939...acres.....	57,637		1,392	3,191		459	147
22	Area irrigated.....1929...acres.....	575,590		9,302	6,305		1,206	1,297
23	1919...acres.....	467,565		12,070	12,982		1,479	1,797
24	Increase or decrease (-), 1929-1939.....percent....	13.5		22.6	81.7		71.2	9.8
25	Irrigable area in enterprises.....1940...acres.....	1,104,645		32,866	55,607		3,152	1,561
26	1930...acres.....	1,085,627		23,028	11,111		2,232	2,209
27	1920[1]...acres.....	813,153		27,571	33,999		2,040	7,012
28	Excess of irrigable area over the area irrigated..1940...acres.....	451,382		21,465	44,149		1,087	137
29	1930...acres.....	510,037		13,726	4,806		1,026	912
30	Area works were capable of supplying with water...1940...acres.....	844,212		22,611	16,081		2,579	1,525
31	1930...acres.....	824,152		17,248	8,757		1,752	1,182
32	1920...acres.....	627,303		16,159	19,130		1,902	2,379
33	Increase or decrease (-), 1930-1940.....percent....	2.4		31.1	83.6		47.2	2.9
34	Excess, capability of works over area irrigated...1940...acres.....	190,949		11,210	4,623		514	101
35	1930...acres.....	248,562		7,946	2,452		546	185
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	12.4		1.1	1.3		0.5	8.1
37	1929...percent....	19.3		1.8	1.7		13.3	14.2
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	77.4		50.4	71.3		80.1	93.4
39	1929...percent....	69.8		53.9	72.0		68.8	87.5
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	83,526,608		1,739,226	858,464		171,134	40,955
41	(a) Cost of irrigation works and equipment.....1940...dollars....	82,990,947		1,734,251	853,772		170,919	40,425
42	(b) Investment in water rights (reported).....1940...dollars....	535,661		4,975	4,692		215	530
43	Total investment in all enterprises.....1930...dollars....	73,328,197		622,600	470,611		39,073	153,073
44	1920...dollars....	33,498,094		275,010	611,883		72,317	59,749
45	Increase or decrease (-), 1930-1940.....percent....	13.9		179.3	82.4		338.0	-73.2
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	98.94		76.92	53.38		66.36	26.85
47	1930...dollars....	88.97		36.10	53.74		22.30	103.29
48	1920...dollars....	53.40		17.02	31.99		38.02	25.12
49	Average investment per acre irrigated.....1939...dollars....	127.86		152.55	74.92		82.87	28.76
50	Estimated final investment in existing enterprises..1940...dollars....	108,980,519		3,685,276	892,957		282,471	47,055
51	1930...dollars....	91,913,550		631,650	479,761		40,073	154,613
52	1920...dollars....	34,615,064		283,240	635,248		72,317	60,749
53	Increase or decrease (-), 1930-1940.....percent....	18.6		483.4	86.1		604.9	-69.6
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	98.66		112.13	16.06		89.62	30.14
55	1930...dollars....	84.66		27.43	43.18		17.95	69.99
56	1920[1]...dollars....	42.57		10.27	18.68		35.45	8.66
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises		
57	Enterprises reporting maintenance and operation...1939...number.....	1,380	127	32	282	6	30	52
58	Area irrigated in these enterprises.....1939...acres.....	630,942	14,463	11,147	10,776	125	1,990	602
59	Cost of maintenance and operation.....1939...dollars....	3,101,467	50,715	19,193	50,297	270	6,636	3,165
60	Average cost, per acre irrigated.....1939...dollars....	4.92	3.51	1.72	4.67	2.16	3.33	5.26
61	1929...dollars....	4.57	.....	1.41	8.04	.....	2.38	4.76
62	Total annual charges (reported)[2] [3].....1939...dollars....	2,826,235	450	26,226	17,759	.....	5,721	.....
63	Average annual charge per acre irrigated.....1939...dollars....	5.42	3.00	2.65	8.07	.....	3.63	.....
64	Area against which charges were assessed.....1939...acres.....	656,350	250	16,257	2,997	.....	1,674	.....
65	Average annual charge per acre assessed.....1939...dollars....	4.31	1.80	1.61	5.93	.....	3.42	.....
66	Total charges collected[2].....1939...dollars....	1,943,583	400	10,990	12,246	.....	168	.....
67	Indebtedness to December 31 (reported)[3].....1939...dollars....	42,589,633	2,500	235,301	.....	.....	47,341	5,453
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	1,303	118	34	313	5	30	10
69	Area irrigated in these enterprises.....1939...acres.....	622,469	71,901	11,401	8,776	124	1,824	511
70	Water delivered in these enterprises.....1939...acre-feet..	2,056,290	80,044	21,866	21,899	503	2,592	817
71	Average water delivered per acre irrigated.....1939...acre-feet..	3.3	1.1	1.9	2.5	4.1	1.4	1.6
72	Average cost of water per acre irrigated.....1939...dollars....	5.82	2.88	2.47	7.30	1.77	1.82	4.88
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	18	.....	1	1	.....	1	1
74	Irrigable area in these enterprises.....1939...acres.....	418,539	.....	(4)	(4)	.....	(4)	(4)
75	Irrigated area in these enterprises.....1939...acres.....	271,680	.....	(4)	(4)	.....	.....	(4)
76	Area for which drains have been installed.....1939...acres.....	93,803	.....	.....	(4)	.....	(4)	(4)
77	Additional area needing drainage.....1939...acres.....	107,651	.....	(4)	.....	.....	.....	.....

*Census of Agriculture. [1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [3]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only. [4]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Graham	Greenlee	Maricopa	Mohave	Navajo
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*					
1	All farms....1940...number....	676	239	4,632	373	2,448
2	1930...number....	749	257	4,597	384	1,287
3	Irrigated farms....1940...number....	553	151	4,249	111	594
4	1930...number....	579	189	4,382	115	344
5	Increase or decrease (-), 1930-1940....percent....	-4.5	-20.1	-3.0	-3.5	72.7
	Operated by—					
6	(a) Owners and managers....1940...number....	465	107	3,454	99	553
7	1930...number....	398	124	3,442	99	319
8	(b) Tenants....1940...number....	88	44	795	12	41
9	1930...number....	181	65	940	16	25
10	Land in all farms....1940...acres....	493,817	315,571	1,122,211	2,540,541	3,644,536
11	Land in irrigated farms....1940...acres....	210,127	59,472	466,400	148,017	479,387
12	Average per farm....1940...acres....	380	394	110	1,333	807
13	(a) Operated by owners and managers....1940...acres....	199,973	52,819	402,639	145,624	474,898
14	Average per farm....1940...acres....	430	494	117	1,471	859
15	(b) Operated by tenants....1940...acres....	10,154	6,653	63,761	2,393	4,489
16	Average per farm....1940...acres....	115	151	80	199	109
17	Approximate land area....1940...acres....	2,950,400	1,199,360	5,907,840	8,486,400	6,343,040
	IRRIGATED AND IRRIGABLE AREAS					
18	Area irrigated....1939...acres....	36,628	5,124	344,406	1,824	8,528
19	(a) Cropland harvested....1939...acres....	33,649	5,020	321,347	1,425	7,431
20	(b) Crop failure....1939...acres....	689	20	283	78	9
21	(c) Pasture....1939...acres....	2,290	84	22,776	321	1,088
22	Area irrigated....1929...acres....	34,623	6,958	383,422	1,493	4,755
23	1919...acres....	32,400	6,974	282,130	2,342	5,832
24	Increase or decrease (-), 1929-1939....percent....	5.8	-26.4	-10.2	22.2	79.3
25	Irrigable area in enterprises....1940...acres....	37,821	5,931	499,966	2,594	11,193
26	1930...acres....	47,804	7,707	562,934	2,576	9,150
27	1920[1]...acres....	41,938	15,288	409,967	3,395	11,956
28	Excess of irrigable area over the area irrigated..1940...acres....	1,193	807	155,560	770	2,665
29	1930...acres....	13,181	749	179,512	1,083	4,395
30	Area works were capable of supplying with water...1940...acres....	37,752	5,776	437,786	2,498	9,732
31	1930...acres....	46,405	7,167	498,790	2,190	5,850
32	1920...acres....	34,355	8,086	394,599	2,672	6,596
33	Increase or decrease (-), 1930-1940....percent....	-18.6	-19.4	-12.2	14.1	66.4
34	Excess, capability of works over area irrigated...1940...acres....	1,124	652	93,380	674	1,204
35	1930...acres....	11,782	209	115,368	697	1,095
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	17.4	8.6	73.8	1.2	1.8
37	1929...percent....	25.4	33.9	75.1	0.6	1.2
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	97.0	88.7	78.7	73.0	87.6
39	1929...percent....	74.6	97.1	76.9	68.2	81.3
	CAPITAL INVESTED TO JANUARY 1					
40	Total investment in all enterprises....1940...dollars....	1,117,374	93,743	50,510,962	35,690	610,878
41	(a) Cost of irrigation works and equipment....1940...dollars....	1,096,121	93,144	50,056,816	34,759	609,778
42	(b) Investment in water rights (reported)....1940...dollars....	21,253	599	454,146	931	1,100
43	Total investment in all enterprises....1930...dollars....	856,777	305,227	47,812,637	111,082	300,626
44	1920...dollars....	945,403	75,158	17,491,021	86,612	246,783
45	Increase or decrease (-), 1930-1940....percent....	30.4	-69.3	5.6	-67.9	103.2
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	29.60	16.23	115.38	14.29	62.77
47	1930...dollars....	18.46	42.59	95.86	50.72	51.39
48	1920...dollars....	27.52	9.29	44.33	32.41	37.41
49	Average investment per acre irrigated....1939...dollars....	30.51	18.29	146.66	19.57	71.63
50	Estimated final investment in existing enterprises..1940...dollars....	1,156,424	100,308	52,160,767	49,215	764,878
51	1930...dollars....	890,027	312,727	48,579,087	115,312	318,626
52	1920...dollars....	995,809	77,758	17,517,921	88,112	264,283
53	Increase or decrease (-), 1930-1940....percent....	29.9	-67.9	7.4	-57.3	140.1
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	30.58	16.91	104.33	18.97	68.34
55	1930...dollars....	18.62	40.58	86.30	44.76	34.82
56	1920[1]...dollars....	23.74	5.09	42.73	25.95	22.10
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises		
57	Enterprises reporting maintenance and operation...1939...number....	83 / 86	39 / 13	104 / 5	69	22
58	Area irrigated in these enterprises....1939...acres....	36,534 / 8,923	5,067 / 634	333,216 / 866	1,534	6,327
59	Cost of maintenance and operation....1939...dollars....	30,862 / 19,081	9,981 / 2,021	1,865,686 / 7,265	4,240	7,159
60	Average cost, per acre irrigated....1939...dollars....	0.84 / 2.14	1.97 / 3.19	5.60 / 8.39	2.76	1.18
61	1929...dollars....	1.49 /	2.95 /	4.24 /	10.40	2.64
62	Total annual charges (reported)[2] [3]....1939...dollars....	87,371 /	9,731 /	2,143,847 /	615	11,904
63	Average annual charge per acre irrigated....1939...dollars....	2.55 /	2.18 /	6.77 /	1.48	2.16
64	Area against which charges were assessed....1939...acres....	34,306 /	4,739 /	400,511 /	415	6,322
65	Average annual charge per acre assessed....1939...dollars....	2.55 /	2.05 /	5.35 /	1.48	1.88
66	Total charges collected[2]....1939...dollars....	84,871 /	9,114 /	1,424,645 /	348	11,138
67	Indebtedness to December 31 (reported)[3]....1939...dollars....	31,045 /	1,368 /	26,569,525 /	37	290,844
	WATER DELIVERED TO IRRIGATORS					
68	Enterprises reporting water delivered....1939...number....	65 / 83	43 / 11	108 / 6	65	21
69	Area irrigated in these enterprises....1939...acres....	36,268 / 9,956	4,671 / 523	337,975 / 58,910	1,471	5,998
70	Water delivered in these enterprises....1939...acre-feet..	89,575 / 14,111	10,068 / 861	1,110,081 / 60,779	4,979	14,173
71	Average water delivered per acre irrigated....1939...acre-feet..	2.5 / 1.4	2.2 / 1.6	3.3 / 1.0	3.4	2.4
72	Average cost of water per acre irrigated....1939...dollars....	2.64 / 2.12	2.06 / 3.31	6.90 / 8.39	2.80	1.99
	DRAINAGE OF IRRIGATED LAND					
73	Enterprises reporting land drained or needing drainage....1939...number....	..... /	..... /	3 /	.....	3
74	Irrigable area in these enterprises....1939...acres....	..... /	..... /	244,625 /	.....	243
75	Irrigated area in these enterprises....1939...acres....	..... /	..... /	219,594 /	.....	12
76	Area for which drains have been installed....1939...acres....	..... /	..... /	45,435 /	.....	52
77	Additional area needing drainage....1939...acres....	..... /	..... /	1,320 /	.....	191

*Census of Agriculture. [1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [3]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Pima	Pinal	Santa Cruz	Yavapai	Yuma
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*					
1	All farms....1940...number	932	1,309	174	715	670
	1930...number	757	1,008	220	675	773
2						
3	Irrigated farms....1940...number	635	1,095	40	357	611
4	1930...number	261	523	29	324	697
5	Increase or decrease (-), 1930-1940....percent	143.3	109.4	37.9	10.2	-12.3
	Operated by—					
6	(a) Owners and managers....1940...number	596	916	34	273	493
7	1930...number	217	432	18	258	496
8	(b) Tenants....1940...number	39	179	6	84	118
9	1930...number	44	91	11	66	201
10	Land in all farms....1940...acres	1,160,373	1,542,913	371,072	1,667,119	103,764
11	Land in irrigated farms....1940...acres	293,661	593,930	168,610	384,312	91,989
12	Average per farm....1940...acres	462	542	4,215	1,077	151
13	(a) Operated by owners and managers....1940...acres	279,102	527,203	168,233	367,008	76,852
14	Average per farm....1940...acres	468	576	4,948	1,344	156
15	(b) Operated by tenants....1940...acres	14,559	66,727	377	17,304	15,137
16	Average per farm....1940...acres	373	373	63	206	128
17	Approximate land area....1940...acres	5,914,240	3,441,920	797,440	5,178,240	6,390,400
	IRRIGATED AND IRRIGABLE AREAS					
18	Area irrigated....1939...acres	33,995	117,556	2,842	9,572	66,440
19	(a) Cropland harvested....1939...acres	25,376	100,930	2,706	8,322	65,491
20	(b) Crop failure....1939...acres	899	358	32	264	138
21	(c) Pasture....1939...acres	7,720	16,268	104	986	811
22	Area irrigated....1929...acres	18,780	37,044	1,040	7,966	61,399
23	1919...acres	16,883	28,647	2,608	11,566	49,855
24	Increase or decrease (-), 1929-1939....percent	81.0	217.3	173.3	20.2	8.2
25	Irrigable area in enterprises....1940...acres	49,985	181,305	3,847	13,626	205,191
26	1930...acres	36,720	132,198	2,296	12,662	233,000
27	1920[1]...acres	40,978	65,799	7,162	17,108	128,940
28	Excess of irrigable area over the area irrigated...1940...acres	15,990	63,749	1,005	4,054	138,751
29	1930...acres	17,940	95,154	1,256	4,696	171,601
30	Area works were capable of supplying with water...1940...acres	44,711	161,613	3,345	13,156	85,047
31	1930...acres	31,759	105,136	2,103	11,137	84,376
32	1920...acres	25,443	34,706	3,413	13,382	64,481
33	Increase or decrease (-), 1930-1940....percent	40.8	53.7	59.1	18.1	0.8
34	Excess, capability of works over area irrigated...1940...acres	10,716	44,057	503	3,584	18,607
35	1930...acres	12,979	68,092	1,063	3,171	22,977
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	11.6	19.8	1.7	2.5	72.2
37	1929...percent	6.7	48.9	20.9	2.4	76.1
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	76.0	72.7	85.0	72.8	78.1
39	1929...percent	59.1	35.2	49.5	71.5	72.8
	CAPITAL INVESTED TO JANUARY 1					
40	Total investment in all enterprises....1940...dollars	1,670,469	13,459,075	107,028	707,252	12,404,358
41	(a) Cost of irrigation works and equipment....1940...dollars	1,669,851	13,414,203	106,241	707,095	12,403,572
42	(b) Investment in water rights (reported)....1940...dollars	618	44,872	787	157	786
43	Total investment in all enterprises....1930...dollars	2,152,665	9,522,328	28,235	494,921	10,458,342
44	1920...dollars	4,549,400	891,345	116,050	523,638	7,553,725
45	Increase or decrease (-), 1930-1940....percent	-22.4	41.3	279.1	42.9	18.6
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	37.36	83.28	32.00	53.76	145.85
47	1930...dollars	67.78	90.57	13.43	44.44	123.95
48	1920...dollars	178.81	25.68	34.00	39.13	117.15
49	Average investment per acre irrigated....1939...dollars	49.14	114.49	37.66	73.89	186.70
50	Estimated final investment in existing enterprises...1940...dollars	1,827,242	23,642,390	112,588	753,923	23,505,025
51	1930...dollars	2,367,345	11,051,403	30,235	590,621	26,352,070
52	1920...dollars	4,595,575	893,345	119,050	655,888	8,355,775
53	Increase or decrease (-), 1930-1940....percent	-22.8	113.9	272.4	27.6	-10.8
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	36.56	130.40	29.27	55.33	114.55
55	1930...dollars	64.47	83.60	13.17	46.65	113.10
56	1920[1]...dollars	112.15	13.58	16.62	38.34	64.80
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup.	Primary Enterprises / Sup.		Primary Enterprises / Sup.	
57	Enterprises reporting maintenance and operation...1939...number	165	217 16	26	166 1	93
58	Area irrigated in these enterprises....1939...acres	30,601	116,597 3,765	2,243	8,766 (2)	65,542
59	Cost of maintenance and operation....1939...dollars	156,616	683,166 20,978	17,568	25,572 (2)	221,026
60	Average cost, per acre irrigated....1939...dollars	5.12	5.86 5.57	7.83	2.92 (2)	3.37
61	1929...dollars	13.91	4.81	3.84	3.65	5.26
62	Total annual charges (reported)[3] [4]....1939...dollars	80,654	187,825	.....	18,437 450	236,145
63	Average annual charge per acre irrigated....1939...dollars	4.37	2.90	.....	3.65 3.00	4.03
64	Area against which charges were assessed....1939...acres	19,086	86,692	.....	7,213 250	76,138
65	Average annual charge per acre assessed....1939...dollars	4.23	2.17	.....	2.56 1.80	3.10
66	Total charges collected[3]....1939...dollars	21,011	109,666	.....	12,487 400	246,899
67	Indebtedness to December 31 (reported)[4]....1939...dollars	137,244	10,849,403	.....	94,750 2,500	4,327,322
	WATER DELIVERED TO IRRIGATORS					
68	Enterprises reporting water delivered....1939...number	111	212 12	24	145 1	92
69	Area irrigated in these enterprises....1939...acres	23,681	116,540 2,238	1,935	5,783 (2)	65,635
70	Water delivered in these enterprises....1939...acre-feet	62,115	386,546 3,630	7,365	12,216 (2)	311,998
71	Average water delivered per acre irrigated....1939...acre-feet	2.6	3.3 1.6	3.8	2.1 (2)	4.8
72	Average cost of water per acre irrigated....1939...dollars	6.46	5.15 3.69	7.91	4.03 (2)	4.31
	DRAINAGE OF IRRIGATED LAND					
73	Enterprises reporting land drained or needing drainage....1939...number	....	....	2	....	6
74	Irrigable area in these enterprises....1939...acres	....	....	(2)	....	167,283
75	Irrigated area in these enterprises....1939...acres	....	....	(2)	....	50,696
76	Area for which drains have been installed....1939...acres	....	....	(2)	....	48,035
77	Additional area needing drainage....1939...acres	....	....	.....	....	106,040

*Census of Agriculture. [1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [3]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Apache	Cochise	Coconino	Gila	Graham	Greenlee
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	153,676,675	5,945,776	10,580,705	6,293,728	1,207,076	7,382,308	1,102,423
2	Land and buildings, irrigated farms....dollars..	115,309,610	2,425,407	3,958,972	831,388	572,129	6,514,898	606,683
	Operated by—							
3	(a) Owners and managers....dollars..	99,320,601	2,378,877	3,704,127	779,828	511,879	5,586,860	488,803
4	(b) Tenants....dollars..	15,989,009	46,530	254,845	51,560	60,250	928,038	207,880
5	Average, land and buildings, per farm....dollars..	11,152.88	2,594.02	7,672.43	3,507.97	2,243.64	11,781.01	4,613.79
6	per acre in farms....dollars..	21.86	2.31	4.36	2.05	32.50	31.01	11.71
7	Buildings, irrigated farms reporting value....number...	9,673	882	508	227	250	522	150
8	Total reported....dollars..	16,497,968	389,091	733,015	193,495	158,780	739,250	169,420
9	Average, per irrigated farm reporting....dollars..	1,705.57	441.15	1,442.94	852.40	635.12	1,416.19	1,129.47
10	per acre on all irrigated farms....dollars..	3.13	0.37	0.81	0.48	9.02	3.52	2.85
11	Buildings, nonirrigated farms reporting value....number...	7,587	2,146	532	1,245	243	64	85
12	Total reported....dollars..	6,593,469	551,610	1,216,227	584,130	207,441	102,600	68,275
13	Average, per nonirrigated farm reporting....dollars..	869.05	257.04	2,286.14	469.18	853.67	1,603.12	803.24
14	per acre on all nonirrigated farms....dollars..	0.32	0.14	0.60	0.13	1.76	0.36	0.27
15	Implements and machinery, irrigated farms reporting value..number...	8,031	770	483	207	147	399	139
16	Total reported....dollars..	7,461,726	182,776	347,136	54,977	75,670	530,109	87,953
17	Average, per irrigated farm reporting....dollars..	929.12	237.37	718.71	265.59	514.76	1,328.59	632.76
18	per acre, on all irrigated farms....dollars..	1.41	0.17	0.38	0.14	4.30	2.52	1.48
19	Implements and machinery, nonirrigated farms reporting value....number...	6,357	1,853	484	1,023	213	58	74
20	Total reported....dollars..	2,499,372	269,482	398,851	472,524	89,250	53,160	36,883
21	Average, per acre, on all nonirrigated farms....dollars..	0.12	0.07	0.20	0.11	0.76	0.19	0.14
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	[1] 1,912	36	361	36	71	181	62
23	1930...number....	[1] 1,271	33	311	19	76	47	48
24	1920...number....	1,388	39	328	21	83	100	69
25	Average size of enterprise based on irrigable area....1940...acres....	578	913	154	88	22	209	96
26	1930...acres....	854	698	36	117	29	1,017	161
27	1920[2]...acres....	586	707	104	97	84	419	222
28	Diversion dams....1940...number....	602	66	31	13	45	40	27
29	Main canals and laterals....1940...length, miles....	4,178.2	352.4	39.0	39.8	18.0	150.8	35.0
30	1930...length, miles....	3,974	156	139	33	12	216	50
31	1920...length, miles....	3,368	124	289	35	95	371	70
32	1940...capacity, c.f.s.[3]....	13,258	378	448	84	99	667	239
33	1930...capacity, c.f.s.[3]....	13,697	291	80	42	26	938	187
34	1920...capacity, c.f.s.[3]....	11,707	249	837	49	162	883	232
35	Pipe lines[4]....1940...length, miles....	344.3	0.3	17.7	2.9	2.9	10.4	0.3
36	Storage dams....1940...number....	199	31	51	19	3	11	.....
37	Reservoirs....1940...number....	333	31	110	22	5	71	.....
38	1930...number....	378	27	198	4	7	46	.....
39	1920...number....	340	36	165	4	2	56	2
40	1940...capacity, acre-feet..	4,860,898	54,460	403	1,478	1,420,006	5,651	.....
41	1930...capacity, acre-feet..	3,410,975	57,905	318	603	1,367,312	1,838	.....
42	1920...capacity, acre-feet..	1,510,856	45,614	86,017	13	1	1,471	.....
43	Wells, flowing....1940...number....	268	3	142	.....	1	100	.....
44	1930...number....	215	2	159	.....	.....	50	.....
45	1920...number....	310	.....	204	.....	.....	95	.....
46	1940...yield, g.p.m....	22,878	1,650	6,127	.....	[5]	6,137	.....
47	1930...yield, g.p.m....	13,772	35	6,016	.....	.....	7,043	.....
48	1920...yield, g.p.m....	14,547	.....	9,643	.....	.....	4,054	.....
49	Wells, pumped....1940...number....	1,858	4	276	3	16	118	21
50	1930...number....	1,398	.....	251	.....	13	5	2
51	1920...number....	999	2	255	.....	18	4	14
52	1940...yield, g.p.m....	2,508,337	880	97,632	250	3,685	146,681	21,585
53	1930...yield, g.p.m....	1,832,352	.....	74,902	.....	899	1,022	788
54	1920...yield, g.p.m....	1,042,590	1,000	90,531	.....	5,930	1,880	3,125
55	Pumping plants....1940...number....	1,970	5	288	7	16	122	32
56	1930...number....	1,378	.....	262	.....	17	7	9
57	1920...number....	744	1	241	2	19	10	21
58	Prime movers....1940...capacity, hp....	102,733	88	4,173	33	127	4,266	718
59	1930...capacity, hp....	57,633	.....	2,536	.....	129	38	67
60	1920...capacity, hp....	22,014	15	2,909	50	146	104	126
61	Pumps....1940...capacity, g.p.m....	2,992,986	1,280	116,136	1,315	3,595	159,649	33,275
62	1930...capacity, g.p.m....	2,125,293	.....	80,912	.....	1,234	1,292	8,003
63	1920...capacity, g.p.m....	1,048,030	1,000	94,556	30	5,900	11,030	8,735
64	Pumping lift, from all sources....1940...average, feet....	60	38	48	75	37	56	25
65	1930...average, feet....	46	.....	42	.....	49	24	22
66	1920...average, feet....	44	30	43	22	24	18	20
67	from pumped wells....1940...average, feet....	62	20	48	8	37	58	31
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll....number...	67	8	2	3	[7] 1	12	6
69	Irrigated area in these enterprises....acres....	515,128	9,499	[5]	1,574	484	34,007	3,769
70	Wages and salaries paid and payable....dollars..	1,444,641	69,770	[5]	6,612	1,592	27,218	4,046
71	Persons employed during week ending April 29....number...	1,546	132	[5]	81	.....	75	7

*Census of Agriculture. [1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4] Includes siphons and farm pipe lines reported. [5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [6] Pay roll and number of employees reported only by enterprises serving 5 or more farms. [7] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

	ITEM (For definitions and explanations, see text)	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	66,755,605	3,040,305	5,514,070	8,893,816	17,937,922	3,832,496	7,160,398	8,030,047
2	Land and buildings, irrigated farms.....dollars..	64,289,543	434,700	1,710,362	5,670,407	15,211,127	2,030,025	3,095,212	7,868,757
	Operated by—								
3	(a) Owners and managers.....dollars..	55,774,330	402,600	1,604,700	5,038,357	11,413,912	2,002,975	2,733,412	6,899,941
4	(b) Tenants.....dollars..	8,515,213	32,100	105,662	632,050	3,797,215	27,050	361,800	968,816
5	Average, land and buildings, per farm.....dollars..	15,130.51	3,916.22	2,879.40	8,929.77	13,891.44	50,750.62	8,670.06	12,878.49
6	per acre in farms.....dollars..	137.85	2.94	3.57	19.31	25.61	12.04	8.05	85.54
7	Buildings, irrigated farms reporting value.....number...	3,974	109	525	592	970	39	353	572
8	Total reported.....dollars..	9,189,677	105,555	351,926	1,115,642	1,175,899	402,936	755,346	1,017,936
9	Average, per irrigated farm reporting.....dollars..	2,312.45	968.39	670.34	1,884.53	1,212.27	10,331.69	2,139.79	1,779.61
10	per acre on all irrigated farms.....dollars..	19.70	0.71	0.73	3.80	1.98	2.39	1.97	11.07
11	Buildings, nonirrigated farms reporting value.....number...	345	201	1,791	243	179	122	343	48
12	Total reported.....dollars..	524,005	190,400	801,172	823,498	360,750	451,226	675,690	36,445
13	Average, per nonirrigated farm reporting.....dollars..	1,518.86	947.26	447.33	3,388.88	2,015.36	3,698.57	1,969.94	759.27
14	per acre on all nonirrigated farms.....dollars..	0.80	0.08	0.25	0.95	0.38	2.23	0.53	3.10
15	Implements and machinery, irrigated farms reporting value..number...	2,843	102	542	585	923	34	328	529
16	Total reported.....dollars..	3,213,777	78,725	176,290	392,479	1,178,049	100,641	262,267	780,877
17	Average, per irrigated farm reporting.....dollars..	1,130.42	771.81	325.26	670.90	1,276.33	2,960.03	799.59	1,476.14
18	per acre, on all irrigated farms.....dollars..	6.89	0.53	0.37	1.34	1.98	0.60	0.68	8.49
19	Implements and machinery, nonirrigated farms reporting value.....number...	211	134	1,510	219	145	103	295	35
20	Total reported.....dollars..	130,117	79,535	319,398	165,070	171,792	93,874	195,501	23,935
21	Average, per acre, on all nonirrigated farms.....dollars..	0.20	0.03	0.10	0.19	0.18	0.46	0.15	2.03
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940...number.....	139	79	30	314	263	37	200	103
23	1930...number.....	86	89	14	112	149	27	178	82
24	1920...number.....	105	63	18	125	167	19	224	27
25	Average size of enterprise based on irrigable area.....1940...acres.....	3,597	33	373	159	689	104	68	1,992
26	1930...acres.....	6,546	29	654	328	887	85	71	2,841
27	1920[1]...acres.....	3,904	54	664	328	394	377	76	4,776
28	Diversion dams.....1940...number.....	19	5	31	218	13	1	90	3
29	Main canals and laterals.....1940...length, miles.....	2,115.1	37.0	142.1	143.3	561.0	7.0	168.6	369.1
30	1930...length, miles.....	1,881	33	79	209	466	6	273	421
31	1920...length, miles.....	1,324	36	73	190	244	28	170	319
32	1940...capacity, c.f.s.[2]....	6,001	109	150	668	1,573	16	481	2,345
33	1930...capacity, c.f.s.[2]....	7,154	102	83	381	1,264	4	500	2,645
34	1920...capacity, c.f.s.[2]....	6,371	46	94	449	940	102	492	801
35	Pipe lines[3].....1940...length, miles.....	161.3	2.2	0.9	62.0	52.2	3.5	8.9	18.8
36	Storage dams.....1940...number.....	6	1	8	34	5	9	21	.....
37	Reservoirs.....1940...number.....	6	2	9	39	6	9	22	1
38	1930...number.....	11	16	11	7	3	.....	43	5
39	1920...number.....	5	5	8	18	9	6	23	1
40	1940...capacity, acre-feet..	2,156,500	[4]	10,952	122	1,200,137	51	11,134	[4]
41	1930...capacity, acre-feet..	740,205	18	15,990	21,926	1,200,002	.....	4,817	41
42	1920...capacity, acre-feet..	1,367,305	338	2,410	360	57	51	7,209	10
43	Wells, flowing.....1940...number.....	.....	.....	10	.....	.....	.....	12	.....
44	1930...number.....	1	2	.....	.....	1	.....	.....	.....
45	1920...number.....	.....	.....	2	6	1	.....	2	.....
46	1940...yield, g.p.m.....	.....	.....	2,350	.....	.....	.....	6,566	.....
47	1930...yield, g.p.m.....	150	28	.....	.....	500	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	350	500	.....	.....	.....
49	Wells, pumped.....1940...number.....	506	22	12	193	446	51	73	117
50	1930...number.....	538	38	.....	169	203	21	61	97
51	1920...number.....	238	11	1	248	136	16	26	30
52	1940...yield, g.p.m.....	1,070,032	9,316	3,895	145,367	725,506	55,423	32,775	195,310
53	1930...yield, g.p.m.....	1,146,898	8,941	.....	107,136	298,941	21,900	10,278	160,647
54	1920...yield, g.p.m.....	288,339	1,515	.....	456,766	149,099	15,600	5,460	23,345
55	Pumping plants.....1940...number.....	519	27	17	199	459	51	88	140
56	1930...number.....	496	40	.....	135	210	21	73	108
57	1920...number.....	95	11	1	136	124	14	36	33
58	Prime movers.....1940...capacity, hp.....	46,236	392	250	5,219	33,120	1,053	1,248	5,810
59	1930...capacity, hp.....	32,327	539	.....	5,122	10,287	254	637	5,697
60	1920...capacity, hp.....	7,945	90	.....	3,990	4,940	343	191	1,165
61	Pumps.....1940...capacity, g.p.m.....	1,227,027	12,368	8,000	154,977	785,018	59,843	41,293	389,210
62	1930...capacity, g.p.m.....	1,233,211	15,194	.....	63,896	299,621	15,950	18,280	387,700
63	1920...capacity, g.p.m.....	243,334	1,790	.....	408,581	148,924	15,200	6,005	102,945
64	Pumping lift, from all sources.....1940...average, feet.....	95	22	33	65	89	35	32	35
65	1930...average, feet.....	72	40	.....	43	59	24	28	40
66	1920...average, feet.....	72	20	.....	38	48	25	37	29
67	from pumped wells.....1940...average, feet.....	95	25	32	67	90	36	32	39
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]								
68	Enterprises reporting pay roll.....number...	12	.....	8	3	[6]2	.....	6	1
69	Irrigated area in these enterprises.....acres....	316,463	.....	6,598	14,814	64,148	.....	3,230	58,342
70	Wages and salaries paid and payable.....dollars..	998,774	.....	41,212	19,327	36,315	.....	4,615	225,207
71	Persons employed during week ending April 29.....number...	823	.....	62	22	133	.....	39	155

*Census of Agriculture. [1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [3]Includes siphons and farm pipe lines reported. [4]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [5]Pay roll and number of employees reported only by enterprises serving 5 or more farms. [6]Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[9]33,744,000	33,616,000	33,616,000	33,616,000	33,616,000	33,616,000	33,616,000
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	216,674	253,013	242,334	232,604	214,678	178,694	124,760
Land in all farms.....acres....	18,044,542	17,741,627	16,052,962	17,456,750	17,416,075	16,636,719	14,891,356
Farms irrigated:[1]							
Farms.....number...	1,529	1,284	1,096	1,166	232	20	(2)
Increase or decrease (-) over preceding census....percent..	[3]39.5	.....	-6.0	402.6	(4)	(2)	.....
Proportion of all farms.....percent..	0.7	0.5	0.5	0.5	0.1	(5)	(2)
Land in farms.....acres....	592,920	(2)	363,549	(2)	(2)	(2)	(2)
Proportion of all farm land.....percent..	3.3	(2)	2.3	(2)	(2)	(2)	(2)
Area irrigated.....acres....	[6]159,412	[7]135,179	[8]146,910	(9)	(9)	25	9
Increase or decrease (-) over preceding census....percent..	[3]8.5	.....	.....	.....	.....	177.8	.....
Proportion of total land area of State.....percent..	0.5	0.4	0.4	.....	.....	(5)	(5)
Proportion of all farm land.....percent..	0.9	0.8	0.9	.....	.....	(5)	(5)
Value of irrigated farms (land and buildings).....dollars..	17,067,803	(2)	16,002,854	(2)	(2)	(2)	(2)
Average per farm.....dollars..	11,162.72	(2)	14,601.14	(2)	(2)	(2)	(2)
Average per acre.....dollars..	28.79	(2)	44.02	(2)	(2)	(2)	(2)
Value of farm implements and machinery[10].....dollars..	3,417,847	(2)	2,414,628	(2)	(2)	(2)	(2)
Average per farm[10].....dollars..	2,235.35	(2)	2,203.13	(2)	(2)	(2)	(2)
Average per acre[10].....dollars..	5.76	(2)	6.64	(2)	(2)	(2)	(2)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	1,298	(2)	1,043	944	310	(2)	(2)
Farms irrigated.....number...	1,474	(2)	(2)	(2)	(2)	(2)	(2)
Area irrigated.....acres....	161,501	(2)	151,787	143,946	27,753	(2)	(2)
Area existing works were capable of supplying with water.....acres....	287,765	(2)	209,942	179,013	47,136	(2)	(2)
Area irrigable.....acres....	314,929	(2)	225,992	[11]246,480	[11]52,883	(2)	(2)
Additional area existing works were capable of supplying with water.....acres....	126,164	(2)	58,155	35,067	19,383	(2)	(2)
Additional irrigable area in enterprises not supplied with water.....acres....	153,328	(2)	74,205	[11]102,534	[11]25,130	(2)	(2)
Investment in irrigation enterprises.....dollars..	5,766,895	(2)	6,836,648	7,183,322	587,834	(2)	(2)
Increase or decrease (-) over preceding census.....percent..	[3]-15.6	(2)	-4.8	(3)	.....	.....	.....
Average per acre based on area works were capable of supplying with water.....dollars..	20.04	(2)	32.56	40.13	12.47	(2)	(2)
Increase or decrease (-) over preceding census....percent..	[3]-38.4	(2)	-18.9	221.8	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	5,878,930	(2)	6,844,092	7,283,522	612,834	(2)	(2)
Average per acre based on irrigable area in enterprises.....dollars..	18.67	(2)	30.28	[11]29.55	[11]11.59	(2)	(2)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	5.46	(2)	7.03	13.67	(2)	(2)	(2)

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Not available. [3] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [4] Percent not shown when more than 1,000. [5] Less than one-tenth of 1 percent. [6] Irrigated land from which crops were harvested plus 2,314 acres of irrigated land used only for pasture. [7] Irrigated land from which crops were harvested. [8] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [9] Data were secured for crops irrigated but the returns were considered relatively incomplete. [10] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [11] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [9] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	216,674	18,044,542	6,609,833	157,098	2,314	456,848,156	25.32	116,313,548	6.45	37,416,663	2.07
Owners and managers.....	101,232	11,322,606	3,514,836	97,619	1,882	266,260,057	23.52	75,144,012	6.64	24,314,521	2.15
Tenants.....	115,442	6,721,936	3,094,997	59,479	432	190,588,099	28.35	41,169,536	6.12	13,102,142	1.95
Irrigated farms, total.....	1,529	592,920	276,440	157,098	2,314	17,067,803	28.79	3,211,708	5.42	3,417,847	5.76
Owners and managers.....	958	394,572	182,619	97,619	1,882	11,711,544	29.68	2,342,453	5.94	2,365,355	5.99
Tenants.....	571	198,348	93,821	59,479	432	5,356,259	27.00	869,255	4.38	1,052,492	5.31
Wholly irrigated farms.....	245	55,705	25,539	25,539	545	1,552,234	27.87	227,550	4.08	491,980	8.83
Owners and managers.....	115	29,130	11,054	11,054	417	832,640	28.58	136,925	4.70	262,180	9.00
Tenants.....	130	26,575	14,485	14,485	128	719,594	27.08	90,625	3.41	229,800	8.65
Partly irrigated farms.....	1,284	537,215	250,901	131,559	1,769	15,515,569	28.88	2,984,158	5.55	2,925,867	5.45
Owners and managers.....	843	365,442	171,565	86,565	1,465	10,878,904	29.77	2,205,528	6.04	2,103,175	5.76
Tenants.....	441	171,773	79,336	44,994	304	4,636,665	26.99	778,630	4.53	822,692	4.79
Nonirrigated farms, total.....	215,145	17,451,622	6,333,393	.....	.....	439,780,353	25.20	113,101,840	6.48	33,998,816	1.95

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[2]	Cost[2]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919[1]	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	1,298	314,929	287,765	161,601	151,787	143,946	6.5	158,767	153,346	150,940	2.8	5.43	1.95
Primary sources:													
Streams, gravity	.....	.....	.....	.....	.....	120	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	45	15,006	10,946	6,733	1,502	6,009	348.3	5,003	6,333	4,603	2.4	4.79	1.97
Streams, gravity and pumped	1	(3)	(3)	(3)	.....	.....	.....	(3)	(3)	(3)	(3)	(3)	(3)
Wells, pumped	1,223	288,343	268,145	149,915	142,978	135,260	4.9	148,811	142,140	141,464	2.8	5.51	1.98
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	3	361	361	134	75	450	78.7	134	134	134	1.7	5.67	3.41
Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	1	(3)	(3)	(3)	.....	[4] 40	.....	(3)	.....	.....	.....	.....	.....
City water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	3	729	729	479	.....	250	.....	479	479	479	3.2	1.36	0.43
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	13	8,320	5,714	3,330	.....	.....	.....	3,330	3,330	3,330	3.0	4.09	1.37
Waste water, seepage or drainage	1	(3)	(3)	(3)	.....	.....	.....	(3)	(3)	(3)	(3)	(3)	(3)
Other mixed	3	1,210	1,210	623	6,750	1,817	-90.8	623	623	623	2.8	2.25	0.80
Other and not reported	.....	.....	.....	.....	482	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[5]													
Streams, gravity and/or storage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	1	(3)	(3)	(3)	.....	.....	.....	(3)	(3)	(3)	(3)	(3)	(3)
Wells, pumped	4	1,216	1,216	302	.....	.....	.....	192	192	192	2.8	4.69	1.70
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Rice irrigation only. [2] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost of water had used the same quantity of water per acre as all enterprises which reported water delivered. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [4] In reservoirs filled from channels which carry water only during storms and are not classed as streams. [5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	5,766,895	100.0	20.04	6,836,648	100.0	32.56	-12.52	153,346	5.46	147,921	7.03	-1.57	99,255	13.67
Primary sources:														
Streams, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	145,077	2.5	13.25	30,675	0.5	17.86	-4.61	6,333	5.07	1,502	6.27	-1.20	3,309	7.06
Streams, gravity and pumped	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Wells, pumped	5,414,533	93.9	20.19	6,640,773	97.1	33.23	-13.04	142,140	5.53	139,594	7.04	-1.51	93,471	14.06
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	2,725	(4)	7.55	1,900	(4)	9.50	-1.95	134	5.67	75	3.49	2.18	450	11.78
Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	(3)	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	10.00
City water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	7,200	0.1	9.88	.....	.....	.....	.....	479	1.36	.....	.....	.....	170	30.15
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	121,410	2.1	21.25	.....	.....	.....	.....	3,330	4.09	.....	.....	.....	.....	.....
Waste water, seepage or drainage	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Other mixed	29,000	0.5	23.97	151,250	2.2	19.66	4.31	623	2.25	6,750	6.99	-4.74	1,815	4.16
Other and not reported	.....	.....	.....	12,050	0.2	25.00	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	(3)	(3)	(3)	.....	.....	.....	.....	(6)	(3)	.....	.....	.....	.....	.....
Wells, pumped	14,500	0.3	11.92	.....	.....	.....	.....	192	4.69	.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [4] Less than one-tenth of 1 percent. [5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [6] Data are not shown because less than 3 enterprises reported.

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	161,601	341	151,787	143,946	6.5
Individual and partnership	158,750	341	145,487	140,471	9.1
Cooperative, incorporated	.....	.....	.....	1,075	.....
Cooperative, unincorporated	(2)	.....	.....		
Commercial	(2)	.....	6,300	2,400	(2)
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	287,765	1,266	209,942	179,013	37.1
Individual and partnership	283,525	1,266	203,442	175,338	39.4
Cooperative, incorporated	.....	.....	.....	1,275	.....
Cooperative, unincorporated	(2)	.....	.....		
Commercial	(2)	.....	6,500	2,400	(2)

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
IRRIGABLE AREA[3]	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	314,929	1,266	225,992	246,480	39.4
Individual and partnership	310,689	1,266	218,992	242,380	41.9
Cooperative, incorporated	.....	.....	.....	1,500	.....
Cooperative, unincorporated	(2)	.....	.....		
Commercial	(2)	.....	7,000	2,600	(2)

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [3] For 1920 relates to total area. Irrigable area for that year was not reported.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	1,298	8	314,929	287,765	19.99	5.45	11.73	5.20
Individual and partnership	1,294	6	310,689	283,525	20.09	5.41	11.73	5.20
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	2	.....	(4)	(4)	(4)	(4)	.....	.....
Commercial	2	2	(4)	(4)	(4)	(4)	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1] Farms served	Total area ✓	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Acres*	*Acres*	*Acres*	*Acres*
Total	1,474	161,601	158,833	133	2,635
Individual and partnership	1,443	158,750	155,982	133	2,635
Cooperative, incorporated	.....	.....	.....	.....	.....
Cooperative, unincorporated	(4)	(4)	(4)	.....	.....
Commercial	(4)	(4)	(4)	.....	.....

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920[2]	Increase or decrease (-) 1930-40
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*
Total	5,766,895	5,752,045	14,850	5,766,895	.....	6,836,648	7,183,322	-15.6
Individual and partnership	5,711,895	5,697,045	14,850	5,711,895	.....	6,711,648	7,073,297	-14.9
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	60,013	.....
Cooperative, unincorporated	(3)	(3)	.....	(3)	.....			
Commercial	(3)	(3)	.....	(3)	.....	125,000	50,012	(3)

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*
Total	19.99	11.73	640	112,035
Individual and partnership	20.09	11.73	640	112,035
Cooperative, incorporated	.....	.....	.....	.....
Cooperative, unincorporated	(3)	.....	.....	.....
Commercial	(3)	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Rice irrigation only. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING: Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*
Total	.....	.....	.....	.....	.....	.....
Partnership	.....	.....	.....	.....	.....	.....
Cooperative, incorporated	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....
Commercial	.....	.....	.....	.....	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ARREARAGES OF ENTERPRISES REPORTING[2]: Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939	CHARGES OF ENTERPRISES REPORTING: Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	.....	.....	.....	.....	4,879	34,409	23,818
Partnership	.....	.....	.....	.....	(3)	(3)	(3)
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....
Commercial	.....	.....	.....	.....	(3)	(3)	(3)

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	153,346	835,891	231	1,201	5.45	5.20	6	12,823	44
Individual and partnership	150,495	814,077	231	1,201	5.41	5.20	4	(2)	(2)
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	(2)	(2)	.....	.....	(2)	.....	.....	.....	.....
Commercial	(2)	(2)	.....	.....	(2)	.....	2	(2)	(2)

[1] Only for enterprises serving 5 or more farms. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	6	27	270	74	3.9	24	31,992	13.0	....	.....	1,534	1,812,647	1,633	76,048	1,633	2,013,697
Individual and partnership	5	22	210	56	3.9	22	29,942	13.0	....	.....	1,532	1,810,447	1,622	75,213	1,623	1,965,997
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	2	2,200	2	120	2	2,200
Commercial	1	5	60	18	.....	2	2,050	.....	....	.....	.....	.....	9	715	8	45,500

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	6	27	1	6
Concrete or masonry	.....	.....	.....	.....
Timber	1	.....	1	.....
Earth and rock	4	21	.....	6
Other and mixed	[1]1	1	.....	.....
Not reported	.....	5	.....	.....

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*		*Number*	*Percent*	*Hp.*	*Percent*
Total, 1940	1,633	100.0	2,013,697	100.0	61	Total, 1940	1,633	100.0	76,048	100.0
Electric motor	**560**	**34.3**	**632,117**	**31.4**	**66**	**Centrifugal pump**	**1,417**	**86.8**	**67,815**	**89.2**
Centrifugal	489	30.0	532,017	26.5	69	Electric	568	34.8	22,063	29.0
Turbine	67	4.1	95,700	4.7	40	Internal-combustion	834	51.1	45,077	59.3
Plunger	.....	.....	.....	.....	.....	Other	15	0.9	675	0.9
Other	4	0.2	4,400	0.2	100					
Internal-combustion engine	**870**	**53.3**	**1,142,543**	**56.7**	**58**	**Turbine pump**	**147**	**9.0**	**5,749**	**7.6**
Centrifugal	765	46.8	986,951	49.0	60	Electric	61	3.7	2,133	2.8
Turbine	88	5.4	137,090	6.8	42	Internal-combustion	83	5.1	3,481	4.6
Plunger	1	0.1	2	(1)	50	Other	3	0.2	135	0.2
Other	16	1.0	18,500	0.9	50					
Other kinds of motive power	**12**	**0.7**	**17,400**	**0.9**	**42**	**Plunger pump**	**1**	**0.1**	**1**	(1)
Centrifugal	6	0.4	7,900	0.4	41	Electric	.....	.....	.....	.....
Turbine	4	0.2	7,700	0.4	34	Internal-combustion	1	0.1	1	(1)
Plunger	.....	.....	.....	.....	.....	Other	.....	.....	.....	.....
Other	2	0.1	1,800	0.1	55					
Mixed kinds of motive power	**191**	**11.7**	**221,637**	**11.0**	**67**	**Other and mixed types of pumps**	**68**	**4.1**	**2,483**	**3.2**
Centrifugal	179	11.0	210,337	10.4	69	Electric	25	1.5	949	1.2
Turbine	7	0.4	5,600	0.3	47	Internal-combustion	40	2.4	1,444	1.9
Plunger	.....	.....	.....	.....	.....	Other	3	0.2	90	0.1
Other	5	0.3	5,500	0.3	45					
Total, 1930	1,206	.....	1,775,788	.....	68	Total, 1930	[2]1,184	.....	66,980	.....
Increase or decrease (-) 1930-1940	427	.....	237,909	.....	-7	Increase or decrease (-) 1930-1940	449	.....	9,068	.....

[1] Less than one-tenth of 1 percent. [2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	13.0	1.0	([3])
Concrete:			
1 to 12 inches	.....	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Metal:			
1 to 12 inches	3.2	0.9	255.6
13 to 24 inches	.....	0.1	100.0
Over 24 inches	0.2		
Wood-stave:			
1 to 12 inches	.....	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Clay and other:			
1 to 12 inches	9.6	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Percent not shown when more than 1,000.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	96	597	134
Area irrigable in these enterprises.....acres....	34,894	124,799	[1] 37,574
Area irrigated in these enterprises.....acres....	14,700	([2])	([2])
Area for which drains have been installed.....acres....	26,078	107,601	27,350
Additional area needing drainage.....acres....	2,016	1,873	2,821
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	177.4	[3] 86.2	[1] 72.8
(b) All irrigation enterprises.....percent..	16.1	70.9	19.00
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	80.5	87.7	[1] 80.3
(b) Irrigated area reporting.....percent..	191.1	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED			NOT MEASURED		
	1939	1929[1]	1919[2]	1939[1]	1929[1]	1919[2]	1939	1929[1]	1919[2]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,172	.....	50,859	.....	.....	.....	2,172	.....	50,859
Area irrigated by these enterprises.....acres.....	1,082	.....	12,720	.....	.....	.....	1,082	.....	12,720
Average water per acre irrigated.....acre-feet..	2.0	.....	4.0	.....	.....	.....	2.0	.....	4.0
Total water delivered to irrigators.....acre-feet..	21,060	.....	13,089	.....	.....	.....	21,060	.....	13,089
Area irrigated by these enterprises.....acres.....	8,135	.....	5,189	.....	.....	.....	8,135	.....	5,189
Average water per acre irrigated.....acre-feet..	2.6	.....	2.5	.....	.....	.....	2.6	.....	2.5
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	420,229	.....	.....	.....	.....	.....	420,229	.....	.....
Area irrigated by these enterprises.....acres.....	150,632	.....	.....	.....	.....	.....	150,632	.....	.....
Average water per acre irrigated.....acre-feet..	2.8	.....	.....	.....	.....	.....	2.8	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	28	.....	.....	.....	.....	.....	28	.....	.....
Area irrigated by these enterprises.....acres.....	39	.....	.....	.....	.....	.....	39	.....	.....
Average water per acre irrigated.....acre-feet..	0.7	.....	.....	.....	.....	.....	0.7	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	528	.....	.....	.....	.....	.....	528	.....	.....
Area irrigated by these enterprises.....acres.....	192	.....	.....	.....	.....	.....	192	.....	.....
Average water per acre irrigated.....acre-feet..	2.8	.....	.....	.....	.....	.....	2.8	.....	.....

[1] Not reported. [2] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1919.

STATE TABLE 16.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS			
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms
1	Enterprises, 1940.....number...	1,293	21	1,142	122	8
2	Irrigated farms, 1939.....number...	1,474	.....	1,142	264	68
3	Area irrigated, 1939.....acres....	161,601	.....	135,687	21,035	4,879
4	(a) From which crops were harvested.....acres....	158,833	.....	133,213	20,791	4,829
5	(b) On which crops failed.....acres....	133	.....	133	.....	.....
6	(c) Irrigated pasture.....acres....	2,635	.....	2,341	244	50
	CAPITAL INVESTMENT, 1940					
7	Total capital investment in all enterprises.....dollars..	5,752,045	47,800	4,930,198	668,670	105,377
8	(a) Cost of irrigation works and equipment.....dollars..	5,752,045	47,800	4,930,198	668,670	105,377
9	(b) Investment in water rights.....dollars..	.....	.....	.....	.....	.....
10	Area works were capable of supplying with water.....acres....	287,765	3,534	244,907	32,474	6,850
11	Average investment per acre irrigated.....dollars..	35.59	.....	36.34	31.79	21.60
12	Average investment per acre which the works could supply with water....dollars..	19.99	13.53	20.13	20.59	15.38
	MAINTENANCE AND OPERATION, AND CHARGES, 1939					
13	Enterprises reporting maintenance and operation.....number...	1,228	18	1,084	118	8
14	(a) Area irrigated in these enterprises.....acres....	153,346	.....	127,943	20,524	4,879
15	(b) Cost of maintenance and operation.....dollars..	835,891	18	724,445	84,975	26,453
16	(c) Average cost per irrigated acre reporting.....dollars..	5.45	.....	5.66	4.14	5.42
17	Total annual charges[2].....dollars..	34,409	.....	.....	.....	34,409
18	Average charge per irrigated acre reporting.....dollars..	7.05	.....	.....	.....	7.05
19	Area against which charges were assessed.....acres....	4,879	.....	.....	.....	4,879
20	Average annual charge per acre assessed.....dollars..	7.05	.....	.....	.....	7.05
21	Total charges collected[2].....dollars..	23,818	.....	.....	.....	23,818
	TYPE, 1940					
22	Individual and partnership.....number...	1,289	21	1,140	122	6
23	Cooperative (incorporated and unincorporated).....number...	2	.....	2	.....	.....
24	Commercial.....number...	2	.....	.....	.....	2
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939					
25	Enterprises reporting pay roll.....number...	6	.....	.....	.....	6
26	Wages and salaries paid and payable for 1939.....dollars..	12,823	.....	.....	.....	12,823
27	Persons employed during week ending April 29, 1939.....number...	44	.....	.....	.....	44
	SOURCE OF WATER SUPPLY, 1939					
28	Streams, gravity.....number...	.....	.....	.....	.....	.....
29	Streams, pumped.....number...	45	.....	34	7	4
30	Wells, pumped.....number...	1,223	21	1,091	108	3
31	Wells, pumped and flowing; or wells flowing.....number...	.....	.....	.....	.....	.....
32	Lakes, gravity or pumped.....number...	3	.....	3	.....	.....
33	Streams and springs; or springs.....number...	.....	.....	.....	.....	.....
34	Mixed, streams and wells.....number...	17	.....	10	6	1
35	Other mixed or stored storm water.....number...	5	.....	4	1	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS			
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms
1	Enterprises, 1940.....number...	5		5	.....	.....
2	Irrigated farms, 1939.....number...	4		4	.....	.....
3	Area irrigated, 1939.....acres....	341		341	.....	.....
	CAPITAL INVESTMENT, 1940					
4	Total capital investment in all enterprises.....dollars..	14,850		14,850	.....	.....
5	(a) Cost of irrigation works and equipment.....dollars..	14,850		14,850	.....	.....
6	(b) Investment in water rights.....dollars..	.....	.....		.....	.....
7	Area works were capable of supplying with water.....acres....	1,266		1,266	.....	.....
8	Average investment per acre irrigated.....dollars..	43.55		43.55	.....	.....
9	Average investment per acre which the works could supply with water....dollars..	11.73		11.73	.....	.....
	MAINTENANCE AND OPERATION, AND CHARGES, 1939					
10	Enterprises reporting maintenance and operation.....number...	3		3	.....	.....
11	(a) Area irrigated in these enterprises.....acres....	231		231	.....	.....
12	(b) Cost of maintenance and operation.....dollars..	1,201		1,201	.....	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	5.20		5.20	.....	.....
	TYPE, 1940					
14	Individual and partnership.....number...	5		5	.....	.....
15	Cooperative (incorporated and unincorporated).....number...	.....	.....		.....	.....
16	Commercial.....number...	.....	.....		.....	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939					
17	Streams, pumped.....number...	1		1	.....	.....
18	Wells, pumped or flowing.....number...	4		4	.....	.....
19	Streams, gravity or storage.....number...	.....	.....		.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 16.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	ACRES IRRIGATED				COST OF IRRIGATION WORKS AND EQUIPMENT		
		No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999
1	Enterprises, 1940.....number...	21	575	633	64	872	372	49
2	Irrigated farms, 1939.....number...	.....	615	724	135	948	430	96
3	Area irrigated, 1939.....acres....	.....	35,877	97,358	28,366	89,244	56,746	15,611
4	(a) From which crops were harvested.....acres....	.....	35,651	95,908	27,274	87,645	55,762	15,426
5	(b) On which crops failed.....acres....	.....	38	95	.....	100	18	15
6	(c) Irrigated pasture.....acres....	.....	188	1,355	1,092	1,499	966	170
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	47,800	1,671,712	3,350,200	682,333	1,908,335	2,890,865	952,845
8	(a) Cost of irrigation works and equipment.....dollars..	47,800	1,671,712	3,350,200	682,333	1,908,335	2,890,865	952,845
9	(b) Investment in water rights.....dollars..	.....	.....	.....	.....	.....	.....	.....
10	Area works were capable of supplying with water.....acres....	3,534	79,904	164,378	39,949	164,118	96,992	26,655
11	Average investment per acre irrigated.....dollars..	.....	46.60	34.41	24.05	21.38	50.94	61.04
12	Average investment per acre which the works could supply with water....dollars..	13.53	20.92	20.38	17.08	11.63	29.81	35.75
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	18	547	604	59	817	363	48
14	(a) Area irrigated in these enterprises.....acres....	.....	34,103	92,963	26,280	83,162	54,888	15,296
15	(b) Cost of maintenance and operation.....dollars..	18	237,755	496,518	101,600	448,883	303,562	83,446
16	(c) Average cost per irrigated acre reporting.....dollars..	.....	6.97	5.34	3.87	5.40	5.53	5.46
17	Total annual charges[2].....dollars..	.....	.....	1,810	32,599	1,090	3,895	29,424
18	Average charge per irrigated acre reporting.....dollars..	.....	.....	3.13	7.58	3.67	2.69	9.39
19	Area against which charges were assessed.....acres....	.....	.....	579	4,300	297	1,447	3,135
20	Average annual charge per acre assessed.....dollars..	.....	.....	3.13	7.58	3.67	2.69	9.39
21	Total charges collected[2].....dollars..	.....	.....	.....	23,818	.....	2,175	21,643
	TYPE, 1940							
22	Individual and partnership.....number...	21	574	632	62	870	372	47
23	Cooperative (incorporated and unincorporated).....number...	.....	1	1	.....	2	.....	.....
24	Commercial.....number...	.....	.....	.....	2	.....	.....	2
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
25	Enterprises reporting pay roll.....number...	.....	.....	2	4	2	1	3
26	Wages and salaries paid and payable for 1939.....dollars..	.....	.....	12,823		4,040		8,783
27	Persons employed during week ending April 29, 1939.....number...	.....	.....	44		26		18
	SOURCE OF WATER SUPPLY, 1939							
28	Streams, gravity.....number...	.....	.....	.....	.....	.....	.....	.....
29	Streams, pumped.....number...	.....	34	4	7	39	2	4
30	Wells, pumped.....number...	21	534	616	52	820	363	40
31	Wells, pumped and flowing; or wells flowing.....number...	.....	.....	.....	.....	.....	.....	.....
32	Lakes, gravity or pumped.....number...	.....	2	1	.....	3	.....	.....
33	Streams and springs; or springs.....number...	.....	.....	.....	.....	.....	.....	.....
34	Mixed, streams and wells.....number...	.....	3	10	4	7	6	4
35	Other mixed or stored storm water.....number...	.....	2	2	1	3	1	1

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	ACRES IRRIGATED				COST OF IRRIGATION WORKS AND EQUIPMENT		
		No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999
1	Enterprises, 1940.....number...		5		.....	5		.....
2	Irrigated farms, 1939.....number...		4		.....	4		.....
3	Area irrigated, 1939.....acres....		341		.....	341		.....
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..		14,850		.....	14,850		.....
5	(a) Cost of irrigation works and equipment.....dollars..		14,850		.....	14,850		.....
6	(b) Investment in water rights.....dollars..	.....			.....	.....		.....
7	Area works were capable of supplying with water.....acres....		1,266		.....	1,266		.....
8	Average investment per acre irrigated.....dollars..		43.55		.....	43.55		.....
9	Average investment per acre which the works could supply with water....dollars..		11.73		.....	11.73		.....
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
10	Enterprises reporting maintenance and operation.....number...		3		.....	3		.....
11	(a) Area irrigated in these enterprises.....acres....		231		.....	231		.....
12	(b) Cost of maintenance and operation.....dollars..		1,201		.....	1,201		.....
13	(c) Average cost per irrigated acre reporting.....dollars..		5.20		.....	5.20		.....
	TYPE, 1940							
14	Individual and partnership.....number...	3		2	.....	4	1	.....
15	Cooperative (incorporated and unincorporated).....number...	.....		.....	.....	.....	.....	.....
16	Commercial.....number...	.....		.....	.....	.....	.....	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
17	Streams, pumped.....number...	1		.....	.....	1	.....	.....
18	Wells, pumped or flowing.....number...	2		2	.....	3	1	.....
19	Streams, gravity or storage.....number...	.....		.....	.....	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 17.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Arkansas River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Sallisaw, Okla.	Sequoyah	531	31.82	-11.05	6.75	-3.07	9.27	+0.77	12.33	-2.42	3.47	-6.33	63.5	+1.5
Fayetteville Exp.	Washington	1,451	35.47	-8.83	7.13	-2.14	9.78	+0.88	15.97	+1.34	2.59	-8.91	61.1	+2.2
Lutherville	Johnson	775	65.14	+16.65	12.29	+0.94	19.68	+8.66	18.11	+3.50	15.06	+3.55	62.2	+1.6
Cotter	Baxter	440	49.30	+7.00	12.95	+3.37	13.82	+4.68	17.65	+4.00	4.88	-5.05	[2]	[2]
Pine Bluff	Jefferson	215	66.26	+14.43	8.93	-3.93	29.35	+15.08	22.62	+8.52	5.36	-5.24	65.1	+1.6
Pocahontas	Randolph	309	50.28	+0.32	9.81	-1.17	15.48	+3.23	14.80	+0.71	10.19	-2.45	61.2	+1.0
Searcy	White	245	63.74	+17.14	12.87	+1.61	21.51	+9.33	18.04	+5.27	11.32	+0.93	63.0	+1.6
Stuttgart	Arkansas	214	62.20	+11.80	6.97	-5.42	28.23	+14.22	17.34	+3.67	9.66	-0.67	63.7	+1.3
Red River														
Antlers, Okla.	Pushmataha	511	39.92	-4.90	5.89	-4.82	11.71	+2.47	17.24	+2.19	5.08	-4.74	65.1	+1.9
Idabel, Okla.	McCurtain	504	39.91	-5.09	5.61	-5.01	15.68	+4.39	14.23	-0.06	4.39	-4.41	64.8	+0.9
Fulton	Hempstead	260	46.91	+0.85	9.30	-1.28	22.10	+9.70	8.24	-5.24	7.27	-2.33	[2]	[2]
Magnolia	Columbia	315	49.78	+2.34	12.35	+0.18	22.40	+9.59	8.30	-4.77	6.67	-2.66	66.8	+1.6
Ouachita River														
Mena	Polk	1,207	48.59	-3.58	8.69	-2.98	13.81	+2.32	16.38	-0.57	9.71	-2.35	63.7	+3.3
Jessieville	Garland	750	65.80	+13.84	14.35	+1.78	15.69	+2.26	22.29	+6.45	13.47	+3.35	[2]	[2]
Warren	Bradley	206	57.22	+4.54	7.65	-5.84	24.80	+10.54	16.81	+3.22	7.96	-3.38	65.4	+1.5
Portland	Ashley	122	47.99	-2.34	7.73	-5.22	25.86	+11.83	9.02	-4.53	5.38	-4.42	64.4	-0.2
St. Francis River														
St. Francis	Clay	290	55.25	+2.60	8.58	-3.59	22.42	+7.45	14.66	+2.67	9.59	-3.93	[2]	[2]
Marked Tree	Poinsett	229	57.39	+7.26	6.43	-6.31	23.55	+9.15	19.56	+6.66	7.85	-2.24	61.2	+0.6
Marianna	Lee	235	45.45	-2.13	4.19	-7.35	21.68	+8.18	13.03	+0.73	6.55	-3.69	63.7	+1.3

[1] Departure from normal. [2] Not available.

Precipitation in Arkansas during both the calendar year (1939) and the water year (October 1938 through September 1939) as reported by the United States Weather Bureau, was substantially above normal. However, drought conditions which prevailed during September and October 1939 were decidedly unfavorable for vegetation, especially late corn, meadows, pastures, potatoes, and truck. The scarcity of water for stock became a problem in most western and northern counties during this period. The Weather Bureau reports further:

"Monthly precipitation averages were above the 35-year normal in January, February, April and June. The average for the year was 50.16 inches which is 1.91 inches above the 49-year average. The greatest annual amount was 66.68 inches at Pine Bluff, while the least annual amount was 33.26 inches recorded at Fort Smith. The greatest monthly amount was 16.69 inches recorded at Pine Bluff in February, while the least monthly amount was 0.00 at Plantersville for October. February and June were noted for frequent rainy days. The average of 12 rainy days in February was a record for that month. Snowfall for the year averaged 5.1 inches. Heavy rains were reported on the evening of April 15th and all day of the 16th, over the northern and central counties, being excessive over west central counties. Mountain Valley reported 8.25 inches for 24 hours, ending at 6 p.m. on the 16th, the greatest for the year. Danville reported 10.04 inches in less than 48 hours; Dardanelle 8.40 inches; Booneville 8.08; Ozark 4.57; Jessieville 7.60; Story 7.82 and Oden 8.22 during the same period. This downpour caused a record stage on the Petit Jean River at Danville of 31.8 feet on April 17th, causing flood losses estimated at $24,000. During this rainstorm the dam of the city of Paris waterworks washed out, with an estimated loss of $35,000.

"Temperatures were above the 35-year normal every month except April and November. The mean of 62.7° was 1.2° above the 49-year average. The highest annual mean was 67.6° at Texarkana, while the lowest mean was 57.8° at Lead Hill. The highest temperature during the year was 112° at Booneville on September 4th. This reading was one degree below the September record established at Helena in 1925. The lowest temperature was 4°, recorded at Mammoth Spring on February 4th. January and September were unusually warm. The mean of 79.9° in September was exceeded only once in September records, the record being 80.5° in September 1925."

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1] [2]	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore Mississippi River total for Arkansas is identical with State total)					
			St. Francis River	White River				
			L'Anguille River[3] (10)	Total		Direct (13)		
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	1,474	138	839		508		
2	Area irrigated....1939...acres....	161,601	16,325	92,088		56,439		
3	(a) Cropland harvested....1939...acres....	158,833	15,464	90,534		55,828		
4	(b) Crop failure....1939...acres....	133	20	103		23		
5	(c) Pasture....1939...acres....	2,635	841	1,451		588		
6	Area irrigated....1929...acres....	151,787	13,282	85,884		.....		
7	1919...acres....	143,946	4,965	74,918		.....		
8	Increase or decrease (-), 1929-1939....percent....	6.5	22.9	7.2		.....		
9	Irrigable area in enterprises....1940...acres....	314,929	32,011	164,176		97,810		
10	1930...acres....	225,992	23,587	130,476		.....		
11	1920[4]...acres....	246,480	14,198	131,346		.....		
12	Excess of irrigable area over the area irrigated..1940...acres....	153,328	15,686	72,088		41,371		
13	1930...acres....	74,205	10,305	44,592		.....		
14	1920[4]...acres....	102,534	9,233	56,428		.....		
15	Area works were capable of supplying with water...1940...acres....	287,765	30,992	158,722		95,578		
16	1930...acres....	209,942	21,599	119,560		.....		
17	1920...acres....	179,013	5,920	95,709		.....		
18	Increase or decrease (-), 1930-1940....percent....	37.1	43.5	32.8		.....		
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	126,164	14,667	66,634		39,139		
20	1930...acres....	58,155	8,317	33,676		.....		
21	1920...acres....	35,067	955	20,791		.....		
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	56.2	52.7	58.0		59.1		
23	1929...percent....	72.3	61.5	71.8		.....		
24	1919...percent....	80.4	83.9	78.3		.....		
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	5,766,895	334,988	3,271,717		2,566,147		
26	(a) Cost of irrigation works and equipment....1940...dollars....	5,766,895	334,988	3,271,717		2,566,147		
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....	.....		.....		
28	Total investment in irrigation enterprises....1930...dollars....	6,836,648	432,600	4,165,818		.....		
29	1920...dollars....	7,183,322	218,727	3,992,967		.....		
30	Increase or decrease (-), 1930-1940....percent....	-15.6	-22.6	-21.5		.....		
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	20.04	10.81	20.61		26.85		
32	1930...dollars....	32.56	20.03	34.84		.....		
33	1920...dollars....	40.13	36.95	41.72		.....		
34	Average investment per acre irrigated....1939...dollars....	35.69	20.52	35.53		45.47		
35	Estimated final investment in existing enterprises..1940...dollars....	5,878,930	335,363	3,294,327		2,581,907		
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	18.67	10.48	20.07		26.40		
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	1,228	3	123	711	2	441	1
38	Area irrigated in these enterprises....1939...acres....	153,346	231	15,161	87,488	(5)	54,053	(5)
39	Cost of maintenance and operation....1939...dollars....	835,891	1,201	73,094	476,133	(5)	322,483	(5)
40	Average cost, per acre irrigated....1939...dollars....	5.45	5.20	4.82	5.44	(5)	6.00	(5)
41	Total annual charges (reported)[6] [7]....1939...dollars....	34,409	.....	.....	13,535	.....	9,360	.....
42	Average annual charge per acre irrigated....1939...dollars....	7.05	.....	.....	5.24	.....	7.54	.....
43	Area against which charges were assessed....1939...acres....	4,879	.....	.....	2,582	.....	1,242	.....
44	Average annual charge per acre assessed....1939...dollars....	7.05	.....	.....	5.24	.....	7.54	.....
45	Total charges collected[6]....1939...dollars....	23,818	.....	.....	2,175	.....	.....	.....
46	Indebtedness to December 31 (reported)[7]....1939...dollars....	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	1,258	2	123	722	1	450	1
48	Area irrigated by these enterprises....1939...acres....	158,767	(8)	16,320	91,470	(8)	56,201	(8)
49	Water delivered....1939...acre-feet..	441,289	(8)	40,939	255,838	(8)	153,699	(8)
50	Average water delivered per acre irrigated....1939...acre-feet..	2.8	(8)	2.5	2.8	(8)	2.7	(8)
51	Average cost of water per acre irrigated....1939...dollars....	5.42	(8)	4.82	5.48	(8)	6.05	(8)
52	Average cost of water per acre-foot delivered..1939...dollars....	1.95	(8)	1.93	1.96	(8)	2.21	(8)
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	96	.....	14	40	.....	10	.....
54	Irrigable area in these enterprises....1939...acres....	34,894	.....	3,310	9,694	.....	2,365	.....
55	Irrigated area in these enterprises....1939...acres....	14,700	.....	1,778	5,719	.....	1,153	.....
56	Area for which drains have been installed....1939...acres....	26,078	.....	1,455	6,773	.....	2,161	.....
57	Additional area needing drainage....1939...acres....	2,016	.....	355	909	.....	25	.....

[1] Data for 1 enterprise in Bartholomew Bayou Drainage Basin (22) (number refers to separate map) are included with State total. [2] Data for 1 enterprise in Mississippi River "Direct" Drainage Basin (11) (number refers to separate map) are included with Mississippi River total. [3] Data for 1 enterprise in St. Francis River Basin (1) (number refers to separate map) are included with L'Anguille River Basin (10). [4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [8] Data are not shown because less than 3 enterprises reported.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued						
		White River—Continued						
				Cache River				
		Black River (3)	Village River (24)	Total	Direct (2)	Bayou de Vue (9)	Big Creek (23)	Arkansas River (7)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number	13	33	214	52	162	71	495
2	Area irrigated....1939...acres	1,805	5,198	19,681	5,253	14,428	8,965	53,174
3	(a) Cropland harvested....1939...acres	1,795	5,133	18,913	4,923	13,990	8,865	52,821
4	(b) Crop failure....1939...acres	10	20	50	30	20	.....	10
5	(c) Pasture....1939...acres	.....	45	718	300	418	100	343
6	Area irrigated....1929...acres	.....	.....	.....	.....	.....	.....	52,446
7	1919...acres	.....	.....	.....	.....	.....	.....	63,521
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	.....	.....	1.4
9	Irrigable area in enterprises....1940...acres	3,872	6,916	40,082	9,687	30,395	15,496	118,725
10	1930...acres	.....	.....	.....	.....	.....	.....	71,754
11	1920[1]...acres	.....	.....	.....	.....	.....	.....	100,296
12	Excess of irrigable area over the area irrigated...1940...acres	2,067	1,718	20,401	4,434	15,967	6,531	65,551
13	1930...acres	.....	.....	.....	.....	.....	.....	19,308
14	1920[1]...acres	.....	.....	.....	.....	.....	.....	36,775
15	Area works were capable of supplying with water...1940...acres	3,064	6,863	38,431	9,322	29,109	14,786	98,034
16	1930...acres	.....	.....	.....	.....	.....	.....	68,608
17	1920...acres	.....	.....	.....	.....	.....	.....	76,779
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	.....	42.9
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	1,259	1,665	18,750	4,069	14,681	5,621	44,860
20	1930...acres	.....	.....	.....	.....	.....	.....	16,162
21	1920...acres	.....	.....	.....	.....	.....	.....	13,258
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	58.9	75.7	51.2	56.4	49.6	60.6	54.2
23	1929...percent	.....	.....	.....	.....	.....	.....	76.4
24	1919...percent	.....	.....	.....	.....	.....	.....	82.7
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars	37,800	70,250	380,770	83,025	297,745	216,750	2,159,490
26	(a) Cost of irrigation works and equipment....1940...dollars	37,800	70,250	380,770	83,025	297,745	216,750	2,159,490
27	(b) Investment in water rights (reported)....1940...dollars	.....	.....	.....	.....	.....	.....	.....
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	.....	.....	.....	2,233,855
29	1920...dollars	.....	.....	.....	.....	.....	.....	2,950,522
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	.....	-3.3
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	12.34	10.24	9.91	8.91	10.23	14.66	22.03
32	1930...dollars	.....	.....	.....	.....	.....	.....	32.56
33	1920...dollars	.....	.....	.....	.....	.....	.....	38.43
34	Average investment per acre irrigated....1939...dollars	20.94	13.51	19.35	15.81	20.64	24.18	40.61
35	Estimated final investment in existing enterprises...1940...dollars	40,400	70,250	384,220	84,375	299,845	217,550	2,248,540
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	10.43	10.16	9.59	8.71	9.86	14.04	18.94
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.
37	Enterprises reporting maintenance and operation...1939...number	8	24	191 / 1	47	144 / 1	47	392 / 1
38	Area irrigated in these enterprises....1939...acres	1,623	4,127	18,720 /	5,253	13,467 /	8,965	50,683 / [2]
39	Cost of maintenance and operation....1939...dollars	10,725	16,213	87,947 / [2]	23,713	64,234 / [2]	38,765	286,594 / [2]
40	Average cost, per acre irrigated....1939...dollars	6.61	3.93	4.70 /	4.51	4.77 /	4.32	5.65 / [2]
41	Total annual charges (reported)[3] [4]....1939...dollars	.....	2,175	..... /	.....	..... /	2,000	20,874 / .....
42	Average annual charge per acre irrigated....1939...dollars	.....	3.82	..... /	.....	..... /	2.60	9.09 / .....
43	Area against which charges were assessed....1939...acres	.....	570	..... /	.....	..... /	770	2,297 / .....
44	Average annual charge per acre assessed....1939...dollars	.....	3.82	..... /	.....	..... /	2.60	9.09 / .....
45	Total charges collected[3]....1939...dollars	.....	2,175	..... /	.....	..... /	.....	21,643 / .....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	.....	..... /	.....	..... /	.....	..... / .....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number	8	26	191 /	46	145 /	47	411 / 1
48	Area irrigated by these enterprises....1939...acres	1,565	5,198	19,541 /	5,253	14,288 /	8,965	50,963 / [5]
49	Water delivered....1939...acre-feet	5,412	17,107	57,775 /	15,673	42,102 /	21,845	144,498 / [5]
50	Average water delivered per acre irrigated....1939...acre-feet	3.5	3.3	3.0 /	3.0	2.9 /	2.4	2.8 / [5]
51	Average cost of water per acre irrigated....1939...dollars	5.59	3.93	4.70 /	4.51	4.77 /	4.32	5.52 / [5]
52	Average cost of water per acre-foot delivered...1939...dollars	1.62	1.19	1.59 /	1.51	1.62 /	1.77	1.95 / [5]
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number	2	5	20 /	8	12 /	3	42 / .....
54	Irrigable area in these enterprises....1939...acres	[2]	910	4,264 /	1,542	2,722 /	1,650	21,890 / .....
55	Irrigated area in these enterprises....1939...acres	[2]	666	2,952 /	998	1,954 /	564	7,203 / .....
56	Area for which drains have been installed....1939...acres	[2]	660	2,447 /	976	1,471 /	1,000	17,850 / .....
57	Additional area needing drainage....1939...acres	.....	100	314 /	20	294 /	470	752 / .....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [5] Data are not shown because less than 3 enterprises reported.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1] [2]	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore Mississippi River total for Arkansas is identical with State totals)			
			St. Francis River	White River		
			L'Anguille River[3] (10)	Total	Direct (13)	Black River (3)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1					
1	Enterprises....1940..number	1,298	130	746	463	9
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	222	238	213	206	340
3	Diversion dams....1940..total number	6	.....	3	2	.....
4	1930..total number	1	.....	1	.....	.....
5	1920..total number	63	.....	62	.....	.....
6	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....
7	(b) Timber....1940..number	1	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	4	.....	2	1	.....
9	(d) Other, mixed, and not reported..1940..number	1	.....	1	1	.....
10	Main canals and laterals....1940..total length, miles	77.9	1.0	39.8	20.9	.....
11	1930..total length, miles	51	.....	25	.....	.....
12	1920..total length, miles	86	.....	60	.....	.....
13	(a) Earth....1940..length, miles	74	1	36	20	.....
14	(b) Lined....1940..length, miles	3.9	.....	3.8	0.9	.....
15	1940..capacity, c.f.s.[4]	270	5	25	12	.....
16	1930..capacity, c.f.s.[4]	1,845	.....	1,396	.....	.....
17	1920..capacity, c.f.s.[4]	1,205	2	1,067	.....	.....
18	Pipe lines[5]....1940..total length, miles	13.0	1.0	9.8	9.6	.....
19	1930..total length, miles	1.0	.....	0.6	.....	.....
20	1920..total length, miles	0.4	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	3.4	1.0	0.2	.....	.....
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	9.6	.....	9.6	9.6	.....
25	Storage dams....1940..total number	27	.....	12	9	.....
26	1930..total number	6	.....	3	.....	.....
27	1920..total number	17	.....	14	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	21	.....	11	8	.....
30	(c) Other, mixed, and not reported..1940..number	6	.....	1	1	.....
31	Reservoirs....1940..total number	24	.....	11	8	.....
32	(a) 1-99 acre-feet capacity....1940..number	3	.....	2	2	.....
33	(b) 100-999 acre-feet capacity....1940..number	8	.....	4	4	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	13	.....	5	2	.....
35	1940..total capacity, ac.-ft.[6]	31,992	.....	16,821	3,821	.....
36	1930..total number	10	.....	7	.....	.....
37	1930..total capacity, ac.-ft.	7,342	.....	1,076	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	1,534	156	891	559	12
45	1930..number	1,190	140	662	.....	.....
46	1920..number	1,089	56	626	.....	.....
47	1940..yield, g.p.m.	1,812,647	209,350	1,070,716	593,044	27,800
48	1930..yield, g.p.m.	1,641,448	203,350	838,588	.....	.....
49	1920..yield, g.p.m.	1,470,147	73,050	820,388	.....	.....
50	Pumping plants....1940..total number	1,633	159	938	589	13
51	1930..total number	1,184	134	655	.....	.....
52	Prime movers....1940..capacity, hp.	76,048	5,198	44,221	30,856	526
53	1930..capacity, hp.	66,980	6,178	39,052	.....	.....
54	1920..capacity, hp.	58,332	2,223	30,537	.....	.....
55	(a) Electric....1940..number	654	68	357	253	.....
56	1940..capacity, hp.	25,145	1,990	13,886	9,775	.....
57	(b) Internal-combustion....1940..number	958	86	570	334	13
58	1940..capacity, hp.	50,003	2,988	29,810	21,021	526
59	(c) Other....1940..number	21	5	11	2	.....
60	1940..capacity, hp.	900	220	525	(7)	.....
61	Pumps....1940..total number	1,633	159	941	589	13
62	1930..number	1,206	130	677	.....	.....
63	1920..number	1,121	64	633	.....	.....
64	1940..capacity, g.p.m.	2,013,697	210,300	1,127,316	637,894	27,840
65	1930..capacity, g.p.m.	1,775,788	201,656	913,982	.....	.....
66	1920..capacity, g.p.m.	1,654,097	78,450	858,688	.....	.....
67	(a) Centrifugal....1940..number	1,439	92	830	562	11
68	1940..capacity, g.p.m.	1,737,205	118,350	977,474	610,404	24,640
69	1940..average capacity, g.p.m.	1,207	1,286	1,178	1,086	2,240
70	(b) Turbine....1940..number	166	67	90	16	2
71	1940..capacity, g.p.m.	246,290	91,950	125,440	17,190	(7)
72	1940..average capacity, g.p.m.	1,484	1,372	1,394	1,074	(7)
73	(c) Plunger....1940..number	1	.....	1	.....	.....
74	1940..capacity, g.p.m.	(7)	.....	(7)	.....	.....
75	1940..average capacity, g.p.m.	(7)	.....	(7)	.....	.....
76	(d) Other....1940..number	27	.....	20	11	.....
77	1940..capacity, g.p.m.	30,200	.....	24,400	10,300	.....
78	Pumping lift, from all sources....1940..average, feet	61	35	63	82	24
79	1930..average, feet	68	34	72	.....	.....
80	1920..average, feet	50	31	50	.....	.....
81	from pumped wells....1940..average, feet	64	36	64	82	25
82	from surface sources...1940..average, feet	25	9	25	41	20

[1] Data for 1 enterprise in Bartholomew Bayou Drainage Basin (22) (number refers to separate map) are included with State total. [2] Data for 1 enterprise in Mississippi River "Direct" Drainage Basin (11) (number refers to separate map) are included with Mississippi River total. [3] Data for 1 enterprise in St. Francis River Basin (1) (number refers to separate map) are included with L'Anguille River Basin (10). [4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [5] Includes siphons and farm pipe lines reported. [6] Total capacity of all reservoirs regardless of size. [7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		MISSISSIPPI RIVER—Continued				
			White River—Continued				
				Cache River			
		Village River (24)	Total	Direct (2)	Bayou de Vue (9)	Big Creek (23)	Arkansas River (7)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	26	200	47	153	48	420
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	264	192	198	190	308	233
3	Diversion dams....1940..total number	.....	1	1	.....	.....	3
4	1930..total number	.....	.....	.....	.....	.....	.....
5	1920..total number	.....	.....	.....	.....	.....	.....
6	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....
7	(b) Timber....1940..number	.....	.....	.....	.....	.....	1
8	(c) Earth and rock....1940..number	.....	1	1	.....	.....	2
9	(d) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....
10	Main canals and laterals....1940..total length, miles	6.5	5.5	5.5	.....	6.9	37.1
11	1930..total length, miles	.....	.....	.....	.....	.....	26
12	1920..total length, miles	.....	.....	.....	.....	.....	26
13	(a) Earth....1940..length, miles	5	5	5	.....	6	37
14	(b) Lined....1940..length, miles	1.5	0.5	0.5	.....	0.9	0.1
15	1940..capacity, c.f.s.[1]	.....	13	7	6	.....	240
16	1930..capacity, c.f.s.[1]	.....	.....	.....	.....	.....	449
17	1920..capacity, c.f.s.[1]	.....	.....	.....	.....	.....	136
18	Pipe lines[2]....1940..total length, miles	.....	.....	.....	.....	0.2	2.2
19	1930..total length, miles	.....	.....	.....	.....	.....	0.4
20	1920..total length, miles	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	.....	.....	.....	0.2	2.2
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	3	.....	.....	.....	.....	15
26	1930..total number	.....	.....	.....	.....	.....	3
27	1920..total number	.....	.....	.....	.....	.....	3
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	3	.....	.....	.....	.....	10
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	5
31	Reservoirs....1940..total number	3	.....	.....	.....	.....	13
32	(a) 1-99 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	1
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	4
34	(c) 1,000 and over acre-feet capacity....1940..number	3	.....	.....	.....	.....	8
35	1940..total capacity, ac.-ft.[3]	13,000	.....	.....	.....	.....	15,171
36	1930..total number	.....	.....	.....	.....	.....	3
37	1930..total capacity, ac.-ft.	.....	.....	.....	.....	.....	6,266
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	37	216	46	170	67	486
45	1930..number	.....	.....	.....	.....	.....	388
46	1920..number	.....	.....	.....	.....	.....	404
47	1940..yield, g.p.m.	64,452	283,750	65,700	218,050	101,670	532,381
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	599,510
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	575,509
50	Pumping plants....1940..total number	36	233	50	183	67	534
51	1930..total number	.....	.....	.....	.....	.....	395
52	Prime movers....1940..capacity, hp	1,273	8,189	1,721	6,468	3,377	26,622
53	1930..capacity, hp	.....	.....	.....	.....	.....	21,750
54	1920..capacity, hp	.....	.....	.....	.....	.....	25,572
55	(a) Electric....1940..number	14	54	6	48	36	229
56	1940..capacity, hp	510	1,729	210	1,519	1,872	9,269
57	(b) Internal-combustion....1940..number	22	171	42	129	30	300
58	1940..capacity, hp	763	6,035	1,411	4,624	1,465	17,198
59	(c) Other....1940..number	.....	8	2	6	1	5
60	1940..capacity, hp	.....	425	[4]	325	[4]	155
61	Pumps....1940..total number	37	236	55	181	66	531
62	1930..number	.....	.....	.....	.....	.....	399
63	1920..number	.....	.....	.....	.....	.....	421
64	1940..capacity, g.p.m.	62,452	307,380	74,900	232,480	91,750	675,131
65	1930..capacity, g.p.m.	.....	.....	.....	.....	.....	660,150
66	1920..capacity, g.p.m.	.....	.....	.....	.....	.....	714,459
67	(a) Centrifugal....1940..number	30	181	45	136	46	515
68	1940..capacity, g.p.m.	49,650	230,180	57,000	173,180	62,600	640,431
69	1940..average capacity, g.p.m.	1,655	1,272	1,267	1,273	1,361	1,244
70	(b) Turbine....1940..number	3	49	9	40	20	9
71	1940..capacity, g.p.m.	5,800	70,100	17,100	53,000	29,150	28,900
72	1940..average capacity, g.p.m.	1,933	1,431	1,900	1,325	1,458	3,211
73	(c) Plunger....1940..number	1	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	[4]	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	[4]	.....	.....	.....	.....	.....
76	(d) Other....1940..number	3	6	1	5	.....	7
77	1940..capacity, g.p.m.	7,000	7,100	[4]	6,300	.....	5,800
78	Pumping lift, from all sources....1940..average, feet	30	33	26	34	39	67
79	1930..average, feet	.....	.....	.....	.....	.....	74
80	1920..average, feet	.....	.....	.....	.....	.....	53
81	from pumped wells....1940..average, feet	30	34	27	36	39	71
82	from surface sources...1940..average, feet	.....	13	12	13	.....	28

[1]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2]Includes siphons and farm pipe lines reported. [3]Total capacity of all reservoirs regardless of size. [4]Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Arkansas		Clay	Craighead
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number	216,674		2,324		3,307	4,541
2	1930...number	242,334		2,301		3,435	4,757
3	Irrigated farms....1940...number	1,529		608		14	86
4	1930...number	1,096		546		9	40
5	Increase or decrease (-), 1930-1940....percent	39.5		11.4		55.6	115.0
	Operated by—						
6	(a) Owners and managers....1940...number	958		360		9	64
7	1930...number	625		299		4	27
8	(b) Tenants....1940...number	571		248		5	22
9	1930...number	471		247		5	13
10	Land in all farms....1940...acres	18,044,542		393,056		289,680	337,346
11	Land in irrigated farms....1940...acres	592,920		257,345		8,363	22,917
12	Average per farm....1940...acres	388		423		597	266
13	(a) Operated by owners and managers....1940...acres	394,572		163,121		6,123	17,567
14	Average per farm....1940...acres	412		453		680	274
15	(b) Operated by tenants....1940...acres	198,348		94,224		2,240	5,350
16	Average per farm....1940...acres	347		380		448	243
17	Approximate land area....1940...acres	33,744,000		662,400		416,000	458,880
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres	161,601		65,316		1,643	6,524
19	(a) Cropland harvested....1939...acres	158,833		64,554		1,633	6,394
20	(b) Crop failure....1939...acres	133		23		10	20
21	(c) Pasture....1939...acres	2,635		739		.....	110
22	Area irrigated....1929...acres	151,787		84,662		795	3,489
23	1919...acres	143,946		76,511		345	3,190
24	Increase or decrease (-), 1929-1939....percent	6.5		-22.9		106.7	87.0
25	Irrigable area in enterprises....1940...acres	314,929		128,385		3,672	14,339
26	1930...acres	225,992		112,563		1,447	4,910
27	1920[4]..acres	246,480		117,822		1,040	6,869
28	Excess of irrigable area over the area irrigated..1940...acres	153,328		63,069		2,029	7,815
29	1930...acres	74,205		27,901		652	1,421
30	Area works were capable of supplying with water...1940...acres	287,765		110,146		2,864	13,937
31	1930...acres	209,942		106,588		1,137	4,725
32	1920...acres	179,013		89,546		905	5,047
33	Increase or decrease (-), 1930-1940....percent	37.1		3.3		151.9	195.0
34	Excess, capability of works over area irrigated...1940...acres	126,164		44,830		1,221	7,413
35	1930...acres	58,155		21,926		342	1,236
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	27.3		25.4		19.6	28.5
37	1929...percent	41.8		45.4		38.3	41.7
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	56.2		59.3		57.4	46.8
39	1929...percent	72.3		79.4		69.9	73.8
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars	5,766,895		3,193,737		35,700	117,355
41	(a) Cost of irrigation works and equipment....1940...dollars	5,766,895		3,193,737		35,700	117,355
42	(b) Investment in water rights (reported)....1940...dollars	.....		.....		.....	.....
43	Total investment in all enterprises....1930...dollars	6,836,648		3,732,165		28,400	119,100
44	1920...dollars	7,183,322		3,492,391		47,414	140,375
45	Increase or decrease (-), 1930-1940....percent	-15.6		-14.4		25.7	-1.5
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	20.04		29.00		12.47	8.42
47	1930...dollars	32.56		35.01		24.98	25.21
48	1920...dollars	40.13		39.00		52.39	27.81
49	Average investment per acre irrigated....1939...dollars	35.69		48.90		21.73	17.99
50	Estimated final investment in existing enterprises..1940...dollars	5,878,930		3,262,847		36,200	117,455
51	1930...dollars	6,844,092		3,733,965		28,400	119,100
52	1920...dollars	7,283,522		3,564,791		47,414	140,375
53	Increase or decrease (-), 1930-1940....percent	-14.1		-12.6		27.5	-1.4
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	18.67		25.41		9.86	8.19
55	1930...dollars	30.28		33.17		19.63	24.26
56	1920[4]..dollars	29.55		30.26		45.59	20.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental	Primary Enterprises	Supplemental		
57	Enterprises reporting maintenance and operation...1939...number	1,229	3	473	2	7	85
58	Area irrigated in these enterprises....1939...acres	153,346	231	61,943	(3)	1,461	6,524
59	Cost of maintenance and operation....1939...dollars	835,891	1,201	339,806	(3)	9,975	35,290
60	Average cost, per acre irrigated....1939...dollars	5.45	5.19	5.49	(3)	6.83	5.41
61	1929...dollars	7.03	.....	6.82	.....	7.69	5.20
62	Total annual charges (reported)[5] [6]....1939...dollars	34,409	.....	30,144	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	7.05	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	4,879	.....	3,417	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	7.05	.....	.....	.....	.....	.....
66	Total charges collected[6]....1939...dollars	23,818	.....	21,643	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	1,259	2	495	2	7	82
69	Area irrigated in these enterprises....1939...acres	158,767	(7)	63,350	(7)	1,403	6,514
70	Water delivered in these enterprises....1939...acre-feet	441,289	(7)	172,016	(7)	5,028	16,560
71	Average water delivered per acre irrigated....1939...acre-feet	2.8	(7)	2.7	(7)	3.6	2.5
72	Average cost of water per acre irrigated....1939...dollars	5.42	(7)	5.46	(7)	5.71	5.41
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	96	.....	31	.....	2	6
74	Irrigable area in these enterprises....1939...acres	34,894	.....	17,185	.....	(3)	850
75	Irrigated area in these enterprises....1939...acres	14,700	.....	5,715	.....	(3)	549
76	Area for which drains have been installed....1939...acres	26,078	.....	15,585	.....	(3)	534
77	Additional area needing drainage....1939...acres	2,016	.....	400	.....	.....	31

* Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Percent not shown when more than 1,000.
[3] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

[Irrigation data omitted from any of the counties listed are included under "All other counties"]

Cross	Jackson	Jefferson	Lawrence	Lee	Lonoke	Monroe	Poinsett	Prairie	St. Francis	Woodruff	All other counties[1]	
3,836	2,861	6,484	2,757	4,280	4,424	2,633	4,136	2,063	5,456	2,747	164,825	1
4,398	3,768	8,099	2,851	5,569	6,169	3,415	3,676	2,131	6,507	3,432	181,806	2
78	59	8	9	27	131	28	118	248	28	36	51	3
36	2	.....	.....	9	86	20	103	189	21	13	22	4
116.7	(2)	.....	.....	200.0	52.3	40.0	14.6	31.2	33.3	176.9	131.8	5
50	30	6	7	2	84	15	88	172	11	19	41	6
24	.....	.....	.....	2	42	9	66	122	7	6	17	7
28	29	2	2	25	47	13	30	76	17	17	10	8
12	.....	.....	.....	7	44	11	37	67	14	7	7	9
238,684	281,526	318,450	272,732	247,999	381,462	187,477	277,788	263,182	300,203	217,457	14,037,500	10
23,424	17,122	7,475	2,177	10,154	53,313	13,096	39,177	94,298	18,631	14,224	11,204	11
300	290	934	242	376	407	468	332	380	665	395	220	12
16,232	11,627	(3)	(3)	(3)	31,049	7,312	30,782	67,658	11,285	9,078	10,216	13
325	388	(3)	(3)	(3)	370	487	350	393	1,026	478	249	14
7,192	5,495	(3)	(3)	(3)	22,264	5,784	8,395	26,640	7,346	5,146	988	15
257	189	(3)	(3)	(3)	474	445	280	351	432	303	99	16
400,640	407,680	569,600	378,880	396,800	512,000	394,880	487,680	431,360	407,040	378,880	27,441,280	17
9,444	7,992	367	688	2,527	15,608	3,445	13,217	24,903	4,814	4,655	458	18
9,051	7,634	367	688	2,527	15,593	3,405	12,636	24,831	4,714	4,348	458	19
20	50	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	20
373	308	.....	.....	.....	15	40	581	62	100	307	.....	21
3,698	.....	.....	.....	2,255	12,567	2,345	10,517	25,612	3,064	1,950	833	22
3,410	.....	.....	.....	.....	24,941	1,135	10,310	10,225	6,840	3,838	3,201	23
155.4	.....	.....	.....	12.1	24.2	46.9	25.7	-2.8	57.1	138.7	.....	24
18,147	12,021	1,301	910	3,440	38,918	6,988	27,839	40,515	8,456	8,178	1,820	25
7,048	.....	.....	.....	4,275	24,032	2,765	25,769	34,365	3,840	3,881	1,097	26
11,830	.....	.....	.....	.....	34,502	2,733	26,578	16,900	10,490	9,915	7,801	27
8,703	4,029	934	222	913	23,310	3,543	14,622	15,612	3,642	3,523	1,362	28
3,350	.....	.....	.....	2,020	11,465	420	15,252	8,753	776	1,931	264	29
16,948	11,998	1,041	860	3,440	36,933	6,508	27,640	39,376	8,456	7,158	460	30
6,828	.....	.....	.....	4,275	21,715	2,705	22,331	31,825	3,790	3,006	1,017	31
4,655	.....	.....	.....	.....	30,788	1,565	12,850	13,216	9,355	5,245	5,841	32
148.2	.....	.....	.....	-19.5	70.1	140.6	23.8	23.7	123.1	138.1	.....	33
7,504	4,006	674	172	913	21,325	3,063	14,423	14,473	3,642	2,503	2	34
3,130	.....	.....	.....	2,020	9,148	360	11,814	6,213	726	1,056	184	35
40.3	46.7	4.9	31.6	24.9	29.3	26.3	33.7	26.4	25.8	32.7	4.1	36
45.6	.....	.....	.....	30.5	38.7	28.7	39.6	38.7	30.5	45.2	25.8	37
55.7	66.6	35.3	80.0	73.5	42.3	52.9	47.8	63.2	56.9	65.0	99.6	38
54.2	.....	.....	.....	52.7	57.9	86.7	47.1	80.5	80.8	64.9	81.9	39
190,200	121,175	4,750	12,100	41,231	410,649	98,076	283,153	1,019,575	154,519	70,725	13,950	40
190,200	121,175	4,750	12,100	41,231	410,649	98,076	283,153	1,019,575	154,519	70,725	13,950	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
143,000	.....	.....	.....	123,700	817,355	112,200	274,100	1,234,803	129,500	96,600	25,725	43
174,628	.....	.....	.....	.....	1,272,693	76,674	404,158	787,275	425,414	192,550	169,750	44
33.0	.....	.....	.....	-66.7	-49.8	-12.6	3.3	-17.4	19.3	-26.8	-45.8	45
11.22	10.10	4.56	14.07	11.99	11.12	15.07	10.24	25.89	18.27	9.88	30.33	46
20.94	.....	.....	.....	28.94	37.64	41.48	12.27	38.80	34.17	32.14	25.29	47
37.51	.....	.....	.....	.....	41.34	48.99	31.45	59.57	45.47	36.71	29.06	48
20.14	15.16	12.94	17.59	16.32	26.31	28.47	21.42	40.94	32.10	15.19	30.46	49
190,575	122,175	4,900	14,200	41,231	417,799	98,076	285,453	1,021,725	154,519	71,525	40,250	50
143,000	.....	.....	.....	123,700	817,355	112,200	278,044	1,236,003	129,500	96,600	26,225	51
174,628	.....	.....	.....	.....	1,297,493	76,674	404,158	789,275	425,414	192,550	170,750	52
33.3	.....	.....	.....	-66.7	-48.9	-12.6	2.7	-17.3	19.3	-26.0	53.5	53
10.50	10.16	3.77	15.60	11.99	10.74	14.03	10.25	25.22	18.27	8.75	22.12	54
20.29	.....	.....	.....	28.94	34.01	40.58	10.79	35.97	33.72	24.89	23.91	55
14.76	.....	.....	.....	.....	37.61	28.05	15.21	46.70	40.55	19.42	21.89	56
							Primary enterprises / Sup. enterprises					
70	49	5	5	10	117	25	109 / 1	215	28	26	5	57
8,230	6,921	337	688	2,527	14,620	3,445	13,144 /	24,665	4,814	3,577	450	58
42,953	30,017	385	2,250	5,188	88,332	13,744	55,180 / (3)	167,309	27,597	14,595	3,270	59
5.22	4.34	1.14	3.27	2.05	6.04	3.99	4.20 /	6.78	5.73	4.08	7.27	60
5.99	.....	.....	.....	7.61	8.46	11.31	5.10 /	7.18	9.66	11.08	8.70	61
.....	2,175	90	.....	2,000	.....	.....	..... /	.....	.....	.....	.....	62
.....	3.82	0.74	.....	2.60	.....	.....	..... /	.....	.....	.....	.....	63
.....	570	122	.....	770	.....	.....	..... /	.....	.....	.....	.....	64
.....	3.82	0.74	.....	2.60	.....	.....	..... /	.....	.....	.....	.....	65
.....	2,175	.....	.....	.....	.....	.....	..... /	.....	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	.....	..... /	.....	.....	.....	.....	67
77	50	6	5	10	124	23	102 /	214	28	30	6	68
9,444	7,992	367	688	2,527	15,195	3,445	13,212 /	24,833	4,814	4,525	458	69
27,705	25,036	295	2,611	6,147	45,898	11,177	33,034 /	70,255	11,620	13,095	812	70
2.9	3.1	0.8	3.8	2.4	3.0	3.2	2.5 /	2.8	2.4	2.9	1.8	71
5.22	4.34	1.14	3.27	2.05	6.01	3.99	4.20 /	6.77	5.73	4.08	7.27	72
12	2	2	4	.....	9	2	9 /	6	.....	8	3	73
2,930	(3)	(3)	710	.....	2,945	(3)	2,338 /	1,105	.....	2,104	1,652	74
1,606	(3)	(3)	526	.....	1,277	(3)	1,460 /	689	.....	1,661	290	75
1,775	(3)	(3)	660	.....	2,550	(3)	460 /	521	.....	1,086	292	76
.....	(3)	.....	.....	.....	65	.....	550 /	312	.....	558	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[7] Data are not shown because less than 3 enterprises reported.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Arkansas	Clay	Craighead	Cross	Jackson	Jefferson	Lawrence
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	456,848,156	10,538,337	8,312,386	13,968,276	7,647,929	8,571,252	13,189,797	6,635,863
2	Land and buildings, irrigated farms....dollars..	17,067,803	7,682,186	137,000	532,480	510,958	529,960	230,110	61,000
	Operated by—								
3	(a) Owners and managers....dollars..	11,711,544	5,116,145	102,400	436,080	359,133	337,260	(1)	(1)
4	(b) Tenants....dollars..	5,356,259	2,566,041	34,600	96,400	151,825	192,700	(1)	(1)
5	Average, land and buildings, per farm....dollars..	11,162.72	12,635.17	9,785.71	6,191.63	6,550.74	8,982.37	28,763.75	6,777.78
6	per acre in farms....dollars..	28.79	29.85	16.38	23.24	21.81	30.95	30.78	28.02
7	Buildings, irrigated farms reporting value....number...	1,464	584	13	83	76	55	8	9
8	Total reported....dollars..	3,211,708	1,549,190	20,800	119,705	92,710	92,210	41,900	12,550
9	Average, per irrigated farm reporting....dollars..	2,193.79	2,652.72	1,600.00	1,442.23	1,219.87	1,676.55	5,237.50	1,394.44
10	per acre on all irrigated farms....dollars..	5.42	6.02	2.49	5.22	3.96	5.39	5.61	5.76
11	Buildings, nonirrigated farms reporting value....number...	208,576	1,659	3,189	4,366	3,662	2,750	6,364	2,705
12	Total reported....dollars..	113,101,840	829,178	2,020,236	3,123,427	1,736,680	1,728,967	3,147,288	1,836,305
13	Average, per nonirrigated farm reporting....dollars..	542.26	499.81	633.50	715.40	474.24	628.72	494.55	678.86
14	per acre on all nonirrigated farms....dollars..	6.48	6.11	7.18	9.93	8.07	6.54	10.12	6.79
15	Implements and machinery, irrigated farms reporting value..number...	1,436	560	13	80	73	52	7	9
16	Total reported....dollars..	3,417,847	1,195,847	48,720	203,325	167,520	140,725	67,470	25,300
17	Average, per irrigated farm reporting....dollars..	2,380.12	2,135.44	3,747.69	2,541.56	2,294.79	2,706.25	9,638.57	2,811.11
18	per acre, on all irrigated farms....dollars..	5.76	4.65	5.83	8.87	7.15	8.22	9.03	11.62
19	Implements and machinery, nonirrigated farms reporting value....number...	166,473	1,426	3,058	3,997	2,395	2,236	3,719	2,072
20	Total reported....dollars..	33,998,816	236,625	773,127	1,247,331	727,083	717,379	1,091,904	642,691
21	Average, per acre, on all nonirrigated farms....dollars..	1.95	1.74	2.75	3.97	3.38	2.71	3.51	2.38
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	[2]1,299	505	8	85	78	51	6	5
23	1930...number....	1,043	504	7	35	52	1	1	.....
24	1920...number....	944	454	4	44	35	.....	.....	.....
25	Average size of enterprise based on irrigable area....1940...acres....	242	254	459	169	233	236	217	182
26	1930...acres....	217	223	207	140	136	.....	.....	.....
27	1920[3]..acres....	261	260	260	156	338	.....	.....	.....
28	Diversion dams....1940...number....	6	4	.....	.....	.....	1	.....	.....
29	Main canals and laterals....1940...length, miles....	77.9	41.2	.....	.....	1.0	12.0	.....	.....
30	1930...length, miles....	51	37	.....	.....	.....	.....	.....	.....
31	1920...length, miles....	86	26	7	6	.....	.....	.....	.....
32	1940...capacity, c.f.s.[4]....	270	235	.....	7	5	6	6	.....
33	1930...capacity, c.f.s.[4]....	1,845	507	.....	.....	.....	.....	.....	.....
34	1920...capacity, c.f.s.[4]....	1,205	166	15	820	.....	.....	.....	.....
35	Pipe lines[5]....1940...length, miles....	13.0	0.2	.....	.....	.....	.....	.....	.....
36	Storage dams....1940...number....	27	24	.....	.....	.....	.....	.....	3
37	Reservoirs....1940...number....	24	21	.....	.....	.....	.....	.....	3
38	1930...number....	10	3	.....	1	.....	.....	.....	.....
39	1920...number....	16	.....	.....	.....	.....	.....	.....	.....
40	1940...capacity, acre-feet..	31,992	18,992	.....	.....	.....	.....	.....	13,000
41	1930...capacity, acre-feet..	7,342	7,250	.....	40	.....	.....	.....	.....
42	1920...capacity, acre-feet..	20	.....	.....	.....	.....	.....	.....	.....
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	1,534	597	11	76	87	62	3	5
50	1930...number....	1,190	593	6	39	53	.....	.....	.....
51	1920...number....	1,089	496	4	63	41	.....	.....	.....
52	1940...yield, g.p.m....	1,812,647	616,478	26,400	89,500	122,700	96,202	1,800	8,950
53	1930...yield, g.p.m....	1,641,448	835,660	11,500	40,450	76,900	.....	.....	.....
54	1920...yield, g.p.m....	1,470,147	573,524	9,700	66,000	63,650	.....	.....	.....
55	Pumping plants....1940...number....	1,633	654	12	87	90	63	6	5
56	1930...number....	1,184	603	7	38	53	.....	.....	.....
57	1920...number....	1,041	497	4	51	36	.....	.....	.....
58	Prime movers....1940...capacity, hp....	76,048	34,832	486	2,998	2,817	2,297	132	175
59	1930...capacity, hp....	66,980	35,586	370	1,396	2,512	.....	.....	.....
60	1920...capacity, hp....	58,332	29,299	180	1,987	2,013	.....	.....	.....
61	Pumps....1940...capacity, g.p.m....	2,013,697	790,878	26,440	103,680	128,550	101,702	5,400	8,950
62	1930...capacity, g.p.m....	1,775,788	947,070	14,000	40,800	75,900	.....	.....	.....
63	1920...capacity, g.p.m....	1,654,097	749,974	9,000	67,500	61,350	.....	.....	.....
64	Pumping lift, from all sources....1940...average, feet....	61	79	25	30	33	32	29	22
65	1930...average, feet....	68	78	35	33	27	.....	.....	.....
66	1920...average, feet....	50	61	20	30	27	.....	.....	.....
67	from pumped wells....1940...average, feet....	64	83	26	33	34	33	23	22
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	6	3	.....	.....	.....	.....	1	.....
69	Irrigated area in these enterprises....acres....	4,027	3,135	.....	.....	.....	.....	(1)	.....
70	Wages and salaries paid and payable....dollars..	12,823	8,783	.....	.....	.....	.....	(1)	.....
71	Persons employed during week ending April 29....number...	44	18	.....	.....	.....	.....	.....	.....

*Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

[2] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

[5] Includes siphons and farm pipe lines reported.

[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Lee	Lonoke	Monroe	Polnsett	Prairie	St. Francis	Woodruff	All other counties[1]
	FARM VALUES, 1940[0]								
1	Land and buildings, all farms....dollars..	7,951,838	12,435,174	5,109,223	13,675,834	6,160,734	11,752,760	6,169,648	324,729,105
2	Land and buildings, irrigated farms....dollars..	305,835	1,671,930	409,447	917,430	3,005,965	417,870	223,848	431,784
	Operated by—								
3	(a) Owners and managers....dollars..	(2)	982,170	183,497	707,770	2,246,225	269,370	151,075	415,684
4	(b) Tenants....dollars..	(2)	689,760	225,950	209,660	759,740	148,500	72,773	16,100
5	Average, land and buildings, per farm....dollars..	11,327.22	12,762.82	14,623.11	7,774.83	12,120.83	14,923.93	6,218.00	8,466.35
6	per acre in farms....dollars..	30.12	31.36	31.27	23.42	31.88	22.43	15.74	38.54
7	Buildings, irrigated farms reporting value....number...	27	125	27	112	237	24	34	50
8	Total reported....dollars..	55,980	222,600	61,222	167,801	566,540	59,445	34,500	114,555
9	Average, per irrigated farm reporting....dollars..	2,073.33	1,780.80	2,267.48	1,498.22	2,390.46	2,476.88	1,014.71	2,291.10
10	per acre on all irrigated farms....dollars..	5.51	4.18	4.67	4.28	6.01	3.19	2.43	10.22
11	Buildings, nonirrigated farms reporting value....number...	3,955	4,147	2,512	3,946	1,764	5,237	2,661	159,659
12	Total reported....dollars..	1,826,881	2,397,684	968,165	2,339,813	1,044,588	2,568,549	1,269,275	86,264,804
13	Average, per nonirrigated farm reporting....dollars..	461.92	578.17	385.42	592.96	592.17	490.46	476.99	540.31
14	per acre on all nonirrigated farms....dollars..	7.68	7.31	5.55	9.81	6.19	9.12	6.25	6.15
15	Implements and machinery, irrigated farms reporting value..number...	26	127	26	112	242	28	33	48
16	Total reported....dollars..	47,665	382,060	91,475	329,467	520,123	72,605	66,700	58,845
17	Average, per irrigated farm reporting....dollars..	1,833.27	3,008.35	3,518.27	2,941.67	2,149.27	2,593.04	2,021.21	1,225.94
18	per acre, on all irrigated farms....dollars..	4.69	7.17	6.98	8.41	5.52	3.90	4.69	5.25
19	Implements and machinery, nonirrigated farms reporting value....number...	2,933	3,642	2,136	3,261	1,421	4,286	1,996	127,895
20	Total reported....dollars..	571,707	1,279,901	405,225	1,019,128	327,154	872,386	501,050	23,586,125
21	Average, per acre, on all nonirrigated farms....dollars..	2.40	3.90	2.32	4.27	1.94	3.10	2.47	1.68
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	10	128	25	112	219	29	32	6
23	1930...number....	10	99	12	87	181	16	16	22
24	1920...number....	.....	145	6	107	70	28	30	21
25	Average size of enterprise based on irrigable area....1940...acres....	344	304	279	249	185	292	256	303
26	1930...acres....	428	243	230	296	190	240	243	.....
27	1920[3]..acres....	.....	238	456	248	241	375	330	371
28	Diversion dams....1940...number....	.....	.....	.....	.....	1	.....	.....	.....
29	Main canals and laterals....1940...length, miles....	5.0	4.0	.....	.....	12.0	0.9	1.8	.....
30	1930...length, miles....	3	10	1	.....	.....	.....	.....	.....
31	1920...length, miles....	.....	21	.....	.....	.....	3	.....	23
32	1940...capacity, c.f.s.[4]....	.....	9	.....	.....	2	.....	.....	.....
33	1930...capacity, c.f.s.[4]....	7	131	1,200	.....	.....	.....	.....	.....
34	1920...capacity, c.f.s.[4]....	.....	81	8	5	.....	12	.....	98
35	Pipe lines[5]....1940...length, miles....	0.2	0.9	.....	.....	.....	.....	9.6	2.1
36	Storage dams....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....
37	Reservoirs....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....
38	1930...number....	.....	5	.....	.....	.....	.....	.....	1
39	1920...number....	.....	14	.....	.....	.....	.....	.....	2
40	1940...capacity, acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
41	1930...capacity, acre-feet..	.....	27	.....	.....	.....	.....	.....	25
42	1920...capacity, acre-feet..	.....	20	.....	.....	.....	.....	.....	.....
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	14	140	33	150	275	40	34	7
50	1930...number....	24	108	16	113	196	19	19	4
51	1920...number....	.....	149	8	128	79	58	38	25
52	1940...yield, g.p.m....	14,100	200,485	44,800	191,800	266,542	65,270	61,800	5,820
53	1930...yield, g.p.m....	34,900	184,300	19,200	203,051	176,612	32,500	22,075	4,300
54	1920...yield, g.p.m....	.....	272,850	11,400	168,600	92,415	104,358	59,200	48,450
55	Pumping plants....1940...number....	14	148	32	153	283	41	37	8
56	1930...number....	24	107	15	103	191	22	16	5
57	1920...number....	.....	152	7	117	77	46	31	23
58	Prime movers....1940...capacity, hp....	770	8,108	1,526	5,097	12,975	2,100	1,525	210
59	1930...capacity, hp....	1,601	7,487	865	4,336	10,728	1,200	754	145
60	1920...capacity, hp....	.....	9,745	330	4,697	4,431	3,175	1,445	1,030
61	Pumps....1940...capacity, g.p.m....	14,100	206,985	46,500	188,000	266,142	56,750	62,650	6,970
62	1930...capacity, g.p.m....	34,900	187,325	19,450	208,656	183,812	32,500	24,875	6,500
63	1920...capacity, g.p.m....	.....	279,150	11,400	173,850	99,165	96,358	59,900	46,450
64	Pumping lift, from all sources....1940...average, feet....	34	58	58	37	77	42	32	41
65	1930...average, feet....	48	60	66	32	95	64	62	21
66	1920...average, feet....	.....	43	73	33	59	33	45	.....
67	from pumped wells....1940...average, feet....	34	61	58	37	78	42	32	47
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	2	.....	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises....acres....	(2)	.....	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable....dollars..	(2)	.....	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29....number...	(2)	.....	.....	.....	.....	.....	.....	.....

[0] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[5] 100,353,920	99,617,280	99,617,280	99,617,280	[1] 99,617,280	99,898,880	99,776,000
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	132,658	150,360	135,676	117,670	88,197	72,542	52,894
Land in all farms.....acres....	30,524,324	30,437,995	30,442,581	29,365,667	27,931,444	28,828,951	21,427,293
Farms irrigated: [2]							
Farms.....number...	84,310	91,347	85,784	67,391	39,352	25,675	13,732
Increase or decrease (-) over preceding census....percent..	[3] -1.7	.....	27.3	71.3	53.3	87.0	.....
Proportion of all farms.....percent..	63.6	60.8	63.2	57.3	44.6	35.4	26.0
Land in farms.....acres....	14,071,222	([4])	12,018,864	([4])	([4])	([4])	([4])
Proportion of all farm land.....percent..	46.1	([4])	39.5	([4])	([4])	([4])	([4])
Area irrigated.....acres....	[6] 4,276,554	[6] 3,513,700	[7] 3,540,350	([8])	([8])	1,446,114	1,004,233
Increase or decrease (-) over preceding census....percent..	[3] 20.8	.....	.....	.....	.....	44.0	.....
Proportion of total land area of State.....percent..	4.3	3.5	3.6	.....	.....	1.4	1.0
Proportion of all farm land.....percent..	14.0	11.5	11.6	.....	.....	5.0	4.7
Value of irrigated farms (land and buildings).....dollars..	1,591,824,377	([4])	2,438,289,524	([4])	([4])	([4])	([4])
Average per farm.....dollars..	18,880.61	([4])	28,423.59	([4])	([4])	([4])	([4])
Average per acre.....dollars..	113.13	([4])	202.87	([4])	([4])	([4])	([4])
Value of farm implements and machinery [9].....dollars..	99,181,718	([4])	96,785,482	([4])	([4])	([4])	([4])
Average per farm [9].....dollars..	1,176.39	([4])	1,128.25	([4])	([4])	([4])	([4])
Average per acre [9].....dollars..	7.05	([4])	8.05	([4])	([4])	([4])	([4])
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	39,975	([4])	38,117	24,115	13,970	([4])	([4])
Farms irrigated.....number...	125,303	([4])	([4])	([4])	([4])	([4])	([4])
Area irrigated.....acres....	5,069,568	([4])	4,746,632	4,219,040	2,664,104	([4])	([4])
Area existing works were capable of supplying with water.....acres....	7,398,576	([4])	6,815,250	5,894,466	3,619,378	([4])	([4])
Area irrigable.....acres....	8,039,175	([4])	8,075,895	[10] 7,805,207	[10] 5,490,360	([4])	([4])
Additional area existing works were capable of supplying with water.....acres....	2,329,008	([4])	2,068,618	1,675,426	955,274	([4])	([4])
Additional irrigable area in enterprises not supplied with water.....acres....	2,969,607	([4])	3,329,263	[10] 3,586,167	[10] 2,826,256	([4])	([4])
Investment in irrigation enterprises.....dollars..	318,889,218	([4])	[11] 310,967,979	194,886,388	72,580,030	19,181,610	13,004,817
Increase or decrease (-) over preceding census.....percent..	[3] 2.5	([4])	59.6	168.5	278.4	47.5	.....
Average per acre based on area works were capable of supplying with water.....dollars..	43.10	([4])	45.63	33.06	20.05	([4])	([4])
Increase or decrease (-) over preceding census.....percent..	[3] -5.5	([4])	38.0	64.9	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	327,593,311	([4])	[11] 325,930,535	225,799,123	84,392,344	([4])	([4])
Average per acre based on irrigable area in enterprises.....dollars..	40.75	([4])	40.36	[10] 28.93	[10] 15.37	([4])	([4])
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	4.73	([4])	6.10	4.40	1.54	([4])	([4])

[1] Decrease due to the formation of the Salton Sea. [2] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [3] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [4] Not available. [5] Irrigated land from which crops were harvested plus 544,339 acres of irrigated land used only for pasture. [6] Irrigated land from which crops were harvested. [7] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [8] Data were secured for crops irrigated but the returns were considered relatively incomplete. [9] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [10] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [11] Revised. [5] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated [1]		Total	Average per acre [2]	Total	Average per acre [2]	Total	Average per acre [2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	132,658	30,524,324	6,534,562	3,732,215	544,339	2,166,452,648	70.97	379,708,056	12.44	132,337,109	4.34
Owners and managers.....	107,259	24,830,742	4,971,661	2,943,787	447,187	1,767,610,287	71.19	332,650,294	13.40	105,477,163	4.25
Tenants.....	25,399	5,693,582	1,562,901	788,428	97,152	398,842,361	70.05	47,057,762	8.27	26,859,946	4.72
Irrigated farms, total.....	84,310	14,071,222	4,713,175	3,732,215	544,339	1,591,824,377	113.13	250,220,347	17.78	99,181,718	7.05
Owners and managers.....	69,306	12,016,422	3,735,087	2,943,787	447,187	1,336,867,338	111.25	223,567,210	18.61	80,621,811	6.71
Tenants.....	15,004	2,054,800	978,088	788,428	97,152	254,957,039	124.08	26,653,137	12.97	18,559,907	9.03
Wholly irrigated farms.....	66,819	6,537,964	2,930,047	2,930,047	279,476	1,103,786,529	168.83	183,518,261	28.07	67,675,526	10.35
Owners and managers.....	55,052	5,325,147	2,294,670	2,294,670	221,097	929,091,333	174.47	164,336,793	30.86	54,691,896	10.27
Tenants.....	11,767	1,212,817	635,377	635,377	58,379	174,695,196	144.04	19,179,468	15.81	12,983,630	10.71
Partly irrigated farms.....	17,491	7,533,258	1,783,128	802,168	264,863	488,037,848	64.78	66,702,086	8.85	31,506,192	4.18
Owners and managers.....	14,254	6,691,275	1,440,417	649,117	226,090	407,776,005	60.94	59,228,417	8.85	25,929,915	3.88
Tenants.....	3,237	841,983	342,711	153,051	38,773	80,261,843	95.32	7,473,669	8.88	5,576,277	6.62
Nonirrigated farms, total.....	48,348	16,453,102	1,821,387	.....	.....	574,628,271	34.93	129,487,709	7.87	33,155,391	2.02

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929–39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	39,975	8,039,175	7,398,576	5,069,568	4,746,632	4,219,040	6.8	4,840,760	4,860,264	4,687,108	2.8	5.42	1.95
Primary sources:													
Streams, gravity	2,140	2,897,828	2,690,410	1,741,575	1,699,599	2,564,445	2.5	1,602,613	1,629,784	1,532,267	2.3	2.62	1.12
Streams, pumped	1,309	850,814	813,716	470,538	469,944	295,673	0.1	433,416	458,284	421,462	3.5	3.13	0.89
Streams, gravity and pumped	68	654,420	454,260	251,196	85,169	60,278	194.9	239,742	247,034	236,410	4.2	3.92	0.91
Wells, pumped	26,284	2,126,146	2,070,540	1,511,789	1,453,272	826,846	4.0	1,490,218	1,457,423	1,445,676	2.7	8.87	3.24
Wells, flowing	113	2,845	2,726	1,636	1,927	17,653	-15.1	1,296	791	619	3.5	1.82	0.53
Wells, pumped and flowing	28	7,046	6,737	5,877	9,761	23,561	-39.8	5,852	5,662	5,637	2.8	24.05	8.48
Lakes, gravity	8	1,280	1,280	464	17,097	48,084	-97.3	360	415	360	1.9	1.21	0.63
Lakes, pumped	26	23,603	23,584	21,972	4,097	4,168	436.3	21,947	18,942	18,917	1.0	0.72	0.74
Springs	688	36,443	35,732	28,538	23,999	27,698	18.9	24,752	23,372	20,800	1.7	1.69	0.97
Springs and streams	166	51,066	48,994	28,555	.....	.....	.....	21,631	27,558	20,894	1.9	0.53	0.28
Stored storm water	36	6,679	5,396	4,360	10,754	20,351	-59.5	4,143	4,245	4,034	1.3	0.89	0.85
City water	68	10,599	10,374	9,497	641	515	(2)	9,406	8,591	8,587	3.7	5.36	1.45
Sewage	13	3,060	3,055	2,314	732	1,385	216.1	2,301	1,832	1,832	2.2	2.49	1.13
Streams, gravity; wells, pumped	268	1,063,976	966,360	786,466	780,960	87,897	0.7	782,056	780,278	777,232	2.1	4.02	1.89
Streams, gravity; wells, flowing	24	6,454	6,406	4,363	2,222	4,255	96.4	3,732	4,362	3,732	0.8	0.34	0.41
Streams, pumped; wells, pumped	273	209,725	174,298	138,215	.....	.....	.....	137,649	135,404	134,838	2.4	7.13	2.93
Waste water, seepage or drainage	42	14,561	14,061	11,456	.....	.....	.....	11,403	7,655	7,645	2.4	1.21	0.51
Other mixed	179	72,630	70,627	50,757	186,458	228,424	-72.8	48,243	48,632	46,166	2.2	5.93	2.67
Other and not reported	.....	.....	.....	.....	.....	7,807	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	42	149,661	129,311	94,088	.....	.....	.....	60,038	92,009	58,178	1.4	2.15	1.52
Streams, pumped	94	11,089	11,002	5,807	2,453	.....	136.7	3,416	5,737	3,346	2.0	3.53	1.72
Wells, pumped	8,105	[4] 490,287	[4] 484,237	[4] 355,447	287,136	.....	23.8	[4] 351,518	[4] 340,025	[4] 338,618	[4] 1.9	[4] 4.32	[4] 2.27
Wells, flowing	1	(4)	(4)	(4)	.....	.....	.....	(4)	(4)	(4)	(4)	(4)	(4)

[1] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered.
[2] Percent not shown when more than 1,000.
[3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).
[4] Data for 1 enterprise with "Wells, flowing" source of supply are included with enterprises reporting "Wells, pumped" source of supply in the 1940 Census.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930–40	1939		1929		Average per acre increase or decrease (-) 1930–40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	318,889,218	100.0	43.10	[3] 310,967,979	100.0	45.63	-2.53	4,831,550	4.73	4,538,579	6.10	-1.37	3,714,361	4.40
Primary sources:														
Streams, gravity	63,428,239	19.9	23.58	65,278,333	21.0	24.01	-0.43	1,640,639	1.77	1,611,792	2.16	-0.39	2,275,062	2.06
Streams, pumped	19,458,731	6.1	22.91	31,603,584	10.2	38.63	-14.72	459,287	3.18	459,987	4.47	-1.29	267,826	5.10
Streams, gravity and pumped	34,584,451	10.8	76.13	9,730,362	3.1	48.42	27.71	247,034	3.18	85,169	8.25	-5.07	60,137	1.93
Wells, pumped	104,729,374	32.8	50.58	100,421,609	32.3	61.00	-10.42	1,457,450	8.41	1,358,975	10.05	-1.64	724,593	10.40
Wells, flowing	146,036	(4)	53.57	159,035	0.1	47.47	6.10	791	1.71	1,517	10.93	-9.22	4,341	5.91
Wells, pumped and flowing	1,313,926	0.4	194.45	1,153,841	0.4	100.84	93.61	5,662	20.81	9,651	13.47	7.34	20,426	7.63
Lakes, gravity	10,907	(4)	8.52	3,277,641	1.1	52.31	-43.79	415	1.76	16,602	3.01	-1.25	41,962	0.39
Lakes, pumped	49,938	(4)	2.12	494,070	0.2	109.21	-107.09	18,942	0.73	3,082	3.97	-3.24	3,783	1.66
Springs	649,317	0.2	18.17	563,188	0.2	18.32	-0.15	23,372	1.40	20,258	1.92	-0.52	21,635	2.21
Springs and streams	382,408	0.1	7.81	.....	.....	.....	.....	27,558	0.50	.....	.....	.....	.....	.....
Stored storm water	134,019	(4)	24.84	430,258	0.1	26.33	-1.49	4,245	1.21	9,050	1.73	-0.52	18,963	4.25
City water	484,854	0.2	46.74	10,769	(4)	16.07	30.67	8,169	4.25	191	14.28	-10.03	58	24.05
Sewage	82,370	(4)	26.96	105,650	(4)	92.92	-65.96	1,832	2.49	621	3.10	-0.61	1,286	11.25
Streams, gravity; wells, pumped	55,040,258	17.3	56.96	60,683,254	19.5	59.33	-2.37	740,101	3.24	778,819	5.29	-2.05	67,779	15.62
Streams, gravity; wells, flowing	20,540	(4)	3.21	123,631	(4)	40.10	-36.89	4,362	0.36	2,012	0.71	-0.35	1,860	28.93
Streams, pumped; wells, pumped	14,725,424	4.6	84.48	.....	.....	.....	.....	135,404	6.61	.....	.....	.....	.....	.....
Waste water, seepage or drainage	50,811	(4)	3.61	.....	.....	.....	.....	7,655	1.21	.....	.....	.....	.....	.....
Other mixed	4,872,433	1.5	68.99	27,422,195	8.8	99.69	-30.70	48,632	6.07	180,853	9.83	-3.76	196,886	5.36
Other and not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,744	16.13
Supplemental sources:[5]														
Streams, gravity and/or storage	5,052,412	1.6	39.07	.....	.....	.....	.....	92,009	0.99	.....	.....	.....	.....	.....
Streams, pumped	515,449	0.2	46.85	70,681	(4)	17.47	29.38	5,737	7.83	2,389	5.39	2.44	.....	.....
Wells, pumped	[6] 13,157,321	[6] 4.1	[6] 27.17	9,439,878	3.0	30.03	-2.86	[6] 341,489	[6] 4.35	270,764	5.97	-1.62	.....	.....
Wells, flowing	(6)	(6)	(6)	.....	.....	.....	.....	(6)	(6)	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Revised. [4] Less than one-tenth of 1 percent. [5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [6] Data for 1 enterprise with "Wells, flowing" source of supply are included with enterprises reporting "Wells, pumped" source of supply in the 1940 Census.

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	5,069,568	455,342	4,746,632	4,219,040	6.8
Individual and partnership	2,004,621	348,721	1,735,457	1,502,870	15.5
Cooperative, incorporated	761,563	27,221	853,547	1,215,696	-0.2
Cooperative, unincorporated	89,964	19,426			
Irrigation district	1,684,602	12,387	1,598,830	577,168	5.4
Reclamation district	59,052	22,743	.....	.....	.....
Commercial	368,841	23,135	312,313	873,499	18.1
Bureau of Reclamation[2] *	44,581	1,709	31,998	36,622	39.3
Office of Indian Affairs[2]	4,106	.....	2,908	697	41.2
State	4,729	.....	9,186	2,936	-48.5
City and/or sewage	46,419	.....	79,590	6,213	-41.7
Other	1,090	.....	122,803	[3] 3,339	-99.1
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	7,398,576	624,550	6,815,250	5,894,466	8.6
Individual and partnership	2,767,274	483,132	2,037,308	1,919,663	35.8
Cooperative, incorporated	1,093,743	43,744	1,359,477	1,705,647	-12.1
Cooperative, unincorporated	100,999	24,269			
Irrigation district	2,384,379	12,387	2,386,919	899,785	-0.1
Reclamation district	136,276	22,743	.....	.....	.....

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	740,007	36,566	668,592	1,307,968	10.7
Bureau of Reclamation[2] *	60,297	1,709	44,588	42,805	35.2
Office of Indian Affairs[2]	7,864	.....	5,222	986	50.6
State	5,858	.....	11,004	4,210	-46.8
City and/or sewage	99,035	.....	104,479	9,073	-5.2
Other	2,844	.....	197,661	[3] 4,329	-98.6
IRRIGABLE AREA[4]					
Total	8,039,175	651,037	8,075,895	7,805,207	-0.5
Individual and partnership	2,879,543	503,769	2,268,503	2,698,798	26.9
Cooperative, incorporated	1,131,337	44,094	1,488,059	2,148,711	-17.0
Cooperative, unincorporated	103,087	24,269			
Irrigation district	2,750,301	12,387	3,142,415	1,101,220	-12.5
Reclamation district	137,526	22,743	.....	.....	.....
Commercial	830,592	42,066	799,995	1,778,135	3.8
Bureau of Reclamation[2] *	68,643	1,709	62,188	47,669	10.4
Office of Indian Affairs[2]	27,109	.....	5,579	5,252	385.9
State	6,158	.....	11,064	6,259	-44.3
City and/or sewage	102,035	.....	95,431	10,645	6.9
Other	2,844	.....	202,661	[3] 8,518	-98.6

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] U. S. Dept. of the Interior. [3] Includes "Not reported." [4] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 137.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
Total	*Number* 39,975	*Number* 1,191	*Acres* 8,039,175	*Acres* 7,398,576	*Dollars* 39.18	*Dollars* 4.39	*Dollars* 27.01	*Dollars* 3.69
Individual and partnership	36,729	284	2,879,543	2,767,274	34.70	6.11	26.19	4.26
Cooperative, incorporated	658	516	1,131,337	1,093,743	41.45	4.69	41.08	4.64
Cooperative, unincorporated	284	142	103,087	100,999	29.07	3.22	3.94	0.28
Irrigation district	87	87	2,750,301	2,384,379	45.08	2.70	15.74	0.07
Reclamation district	14	11	137,526	136,276	17.52	2.82	0.91	0.23
Commercial	104	93	830,592	740,007	33.60	3.46	56.42	2.76
U. S. Bureau of Reclamation *	8	7	68,643	60,297	97.42	1.81	24.15	0.67
U. S. Office of Indian Affairs	51	27	27,109	7,864	126.19	7.32	.....	.....
State	11	2	6,158	5,858	64.43	7.31	.....	.....
City and/or sewage	24	19	102,035	99,035	35.08	8.53	.....	.....
Other	5	3	2,844	2,844	41.77	4.29	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
Total	*Number* 125,303	*Acres* 5,069,568	*Acres* 4,621,791	*Acres* 22,084	*Acres* 425,693
Individual and partnership	34,706	2,004,621	1,780,635	10,250	213,736
Cooperative, incorporated	30,375	761,563	728,047	1,053	32,463
Cooperative, unincorporated	2,115	89,964	76,635	193	13,136
Irrigation district	44,762	1,684,602	1,558,969	7,812	117,821
Reclamation district	311	59,052	56,735	250	2,067
Commercial	7,988	368,841	324,752	2,491	41,598
U. S. Bureau of Reclamation *	1,387	44,581	40,987	.....	3,594
U. S. Office of Indian Affairs	728	4,106	3,958	20	128
State	30	4,729	4,676	.....	53
City and/or sewage	2,863	46,419	45,307	15	1,097
Other	38	1,090	1,090	.....	.....

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. * For explanation of areas and investment, see text, p. 137.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40
Total	*Dollars* 318,889,218	*Dollars* 300,164,036	*Dollars* 18,725,182	*Dollars* 306,729,175	*Dollars* 12,160,043	*Dollars* [2] 310,967,979	*Dollars* 194,886,388	*Percent* 2.5
Individual and partnership	109,682,184	97,017,879	12,664,305	108,671,184	1,011,000	108,129,435	57,616,716	1.4
Cooperative, incorporated	54,961,343	51,321,960	3,639,383	47,143,212	7,818,131	48,682,089	48,899,448	19.5
Cooperative, unincorporated	3,225,749	3,130,024	95,725	3,031,164	194,585			
Irrigation district	109,319,715	109,122,822	196,893	107,672,826	1,646,889	105,349,178	33,985,301	3.8
Reclamation district	2,413,740	2,393,108	20,632	2,408,740	5,000	.....	.....	.....
Commercial	28,354,269	26,287,295	2,066,974	26,923,959	1,430,310	24,660,738	44,996,723	15.0
U. S. Bureau of Reclamation *	5,915,578	5,874,308	41,270	5,915,578	.....	5,520,644	2,398,220	7.2
U. S. Office of Indian Affairs	992,397	992,397	.....	992,397	.....	547,695	55,556	81.2
State	423,779	423,779	.....	377,431	46,348	881,722	224,909	51.9
City and/or sewage	3,477,614	3,477,614	.....	3,473,884	3,730	14,748,387	1,401,320	-76.4
Other	122,850	122,850	.....	118,800	4,050	2,448,091	[3] 5,308,195	-95.0

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	40.57	29.98	2,178,568	8,704,093
Individual and partnership	35.06	26.21	31,244	1,316,658
Cooperative, incorporated	46.92	83.20	402,837	254,093
Cooperative, unincorporated	30.99	3.94	15,719	222,600
Irrigation district	45.77	15.90	1,294,176	6,015,930
Reclamation district	17.56	0.91	5,475	24,500
Commercial	35.52	56.53	236,552	98,765
U. S. Bureau of Reclamation *	97.42	24.15	61,842	268,107
U. S. Office of Indian Affairs	126.19	.....	124,398	503,440
State	72.34	.....	.....	.....
City and/or sewage	35.11	.....	6,325	.....
Other	43.20	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Revised. [3] Includes "Not reported." * For explanation of investment, see text, p. 137.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 357	*Acres* 3,587,606	*Acres* 3,160,514	*Dollars* 95,694,893	*Dollars* 32.40	*Dollars* 30.45	*Number* 41	*Dollars* 19,651,711	*Dollars* 18,668,245	*Dollars* 16.53	*Acres* 4,309,809	*Dollars* 13,041,764	*Dollars* 10,922,709
Partnership	9	4,057	4,047	36,512	13.60	9.02	.....	.....	.....	.....	80,013	522,060	97,403
Cooperative, incorporated	220	710,988	682,311	6,553,380	10.72	9.27	11	388,001	264,051	28.15	924,906	4,287,634	3,372,476
Cooperative, unincorporated	5	7,873	7,873	37,950	5.52	4.82	.....	.....	137	.....	57,882	146,920	105,707
Irrigation district	72	2,189,539	1,874,717	74,431,404	35.98	39.69	23	18,003,764	17,962,931	3.34	2,684,596	6,027,944	5,998,602
Reclamation district	5	82,910	82,910	1,412,344	42.12	17.03	[6]1	1,036,496	223,739	87.81	64,648	139,081	137,702
Commercial	35	520,136	444,897	9,300,579	49.04	20.28	5	141,495	138,032	35.00	389,246	1,458,006	1,103,047
Bureau of Reclamation[7] [8]	5	70,303	61,957	[8]3,777,454	65.41	62.03	[6]1	[8]81,955	[8]79,355	4.11	58,834	94,407	67,755
Office of Indian Affairs[7]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,582	17,661	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	344	1,250	.....
City and/or sewage	6	1,802	1,802	145,270	113.14	80.62	.....	.....	.....	.....	45,758	342,607	40,017
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000	4,194	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $27.25. [4] Based on primary enterprises only; State average for supplemental enterprises is $22.57. [5] Based on primary enterprises only; State average for supplemental enterprises is $16.78. [6] Data for less than 3 enterprises shown with permission of the enterprise involved. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] For explanation of areas and investment, see text, p. 137.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
Total	*Acres* 4,831,550	*Dollars* 21,229,685	*Acres* 439,235	*Dollars* 1,620,218	*Dollars* 4.39	*Dollars* 3.69	*Number* 851	*Dollars* 4,901,580	*Number* 4,425
Individual and partnership	1,860,837	11,365,258	334,114	1,424,440	6.11	4.26	92	31,053	125
Cooperative, incorporated	754,503	3,538,502	25,721	119,226	4.69	4.64	474	1,194,163	1,394
Cooperative, unincorporated	72,190	232,665	19,426	5,360	3.22	0.28	79	29,712	90
Irrigation district	1,684,602	4,555,036	12,387	900	2.70	0.07	84	2,694,292	2,045
Reclamation district	35,766	100,785	22,743	5,323	2.82	0.23	9	28,302	37
Commercial	368,192	1,273,403	23,135	63,823	3.46	2.76	75	578,299	401
U. S. Bureau of Reclamation[2]	44,581	80,793	1,709	1,146	1.81	0.67	4	77,059	64
U. S. Office of Indian Affairs	2,897	21,201	.....	.....	7.32	.....	22	63,580	148
State	1,472	10,756	.....	.....	7.31	.....	[3]1	760	2
City and/or sewage	5,504	46,972	.....	.....	8.53	.....	11	204,360	119
Other	1,006	4,314	.....	.....	4.29	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data for less than 3 enterprises shown with permission of the enterprise involved.
[3] For explanation of areas and investment, see text, p. 137.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
			Capacity at main heading	Length[1]									Prime movers		Pumps	
	Diversion	Storage		Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 2,714	*Number* 709	*Sec.-ft.* 91,776	*Miles* 18,217	*Miles* 1,582.1	2,632	*Ac.-ft.* 3,581,621	*Miles* 22,690.2	436	*G.p.m.* 34,767	48,568	*G.p.m.* 28,297,969	52,217	*Hp.* 968,351	52,016	*G.p.m.* 39,147,470
Individual and partnership	2,261	562	21,494	3,010	191.1	2,203	111,666	14,378.0	389	24,462	46,220	26,349,361	49,066	779,009	48,883	30,863,577
Cooperative, incorporated	146	45	14,123	1,950	308.6	237	146,386	4,615.6	42	7,740	1,210	962,604	1,568	109,337	1,573	2,749,700
Cooperative, unincorporated	127	16	2,242	332	36.1	48	19,102	456.4	2	540	284	207,301	334	11,043	332	253,280
Irrigation district	88	42	36,306	10,081	807.2	77	1,386,806	2,107.3	....	.....	544	574,654	805	46,474	788	3,778,759
Reclamation district	3	1	1,880	205	9.2	2	3	14.6	....	.....	.....	.....	59	6,233	60	977,000
Commercial	47	30	14,956	2,300	105.7	58	602,273	896.8	3	2,025	213	171,847	259	14,107	257	417,736
Bureau of Reclamation[3]	3	5	325	238	107.2	5	1,314,100	6.2	....	.....	1	600	3	160	3	28,500
Office of Indian Affairs[3]	29	3	272	57	14.3	10	510	125.5	....	.....	62	10,648	71	543	70	11,965
State	6	4	94	9	2.7	9	703	22.5	....	.....	20	9,679	36	872	34	52,178
City and/or sewage	4	1	84	23	.....	3	72	60.8	....	.....	5	3,245	7	210	7	6,745
Other	.....	.....	.....	12	.....	.....	.....	6.5	....	.....	9	8,030	9	363	9	8,030

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	2,714	709	1,654	421
Concrete or masonry	527	126	319	98
Timber	477	5	265	.....
Earth and rock	1,111	531	.....	156
Other and mixed	[1] 541	19	[1] 1,025	143
Not reported	58	28	45	24

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	52,016	100.0	39,147,470	100.0	55
Electric motor	**41,768**	**80.4**	**31,721,814**	**81.0**	**57**
Centrifugal	13,709	26.4	13,746,834	35.1	29
Turbine	25,835	49.8	17,296,281	44.1	70
Plunger	2,049	3.9	140,136	0.4	102
Other	175	0.3	538,563	1.4	74
Internal-combustion engine	**6,413**	**12.3**	**3,858,816**	**9.9**	**47**
Centrifugal	3,543	6.8	2,221,766	5.7	23
Turbine	2,297	4.4	1,563,462	4.0	81
Plunger	496	1.0	35,594	0.1	69
Other	77	0.1	37,994	0.1	45
Other kinds of motive power	**283**	**0.5**	**29,929**	**0.1**	**48**
Centrifugal	19	[1]	16,742	[1]	30
Turbine	11	[1]	5,820	[1]	97
Plunger	242	0.5	6,394	[1]	48
Other	11	[1]	973	[1]	34
Mixed kinds of motive power	**3,552**	**6.8**	**3,536,911**	**9.0**	**51**
Centrifugal	1,457	2.8	1,726,868	4.4	28
Turbine	1,854	3.5	1,672,433	4.3	73
Plunger	196	0.4	17,121	[1]	60
Other	45	0.1	120,489	0.3	49
Total, 1930	47,994	.....	33,240,589	.....	53
Increase or decrease (-) 1930-1940	4,022	.....	5,906,881	.....	2

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	52,217	100.0	968,351	100.0
Centrifugal pump	**16,109**	**30.9**	**206,903**	**21.4**
Electric	12,290	23.5	163,062	16.9
Internal-combustion	3,787	7.3	43,040	4.4
Other	32	0.1	801	0.1
Turbine pump	**27,027**	**51.7**	**596,016**	**61.5**
Electric	24,281	46.5	505,201	52.1
Internal-combustion	2,725	5.2	90,108	9.3
Other	21	[1]	707	0.1
Plunger pump	**2,443**	**4.7**	**11,165**	**1.2**
Electric	1,647	3.2	8,226	0.8
Internal-combustion	511	1.0	2,509	0.3
Other	285	0.5	430	[1]
Other and mixed types of pumps	**6,638**	**12.7**	**154,267**	**15.9**
Electric	5,734	11.0	127,809	13.2
Internal-combustion	804	1.5	25,077	2.6
Other	[2] 100	0.2	1,381	0.1
Total, 1930	[3] 46,729	.....	820,767	.....
Increase or decrease (-) 1930-1940	5,488	.....	147,584	.....

[1] Less than one-tenth of 1 percent. [2] Includes 2 hydraulic rams. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH 1940[1]	LENGTH 1930[2]	Increase or decrease (-) 1930-1940
	Miles	*Miles*	*Percent*
Total	22,690.2	[3] 14,683.0	54.5
Concrete:			
1 to 12 inches	13,183.5	7,199.4	83.1
13 to 24 inches	3,218.7	2,269.5	56.9
Over 24 inches	342.8		
Metal:			
1 to 12 inches	4,787.1	3,333.4	43.6
13 to 24 inches	510.6	758.3	-17.3
Over 24 inches	116.4		
Wood-stave:			
1 to 12 inches	160.1	138.9	15.3
13 to 24 inches	55.8	88.6	1.2
Over 24 inches	33.9		
Clay and other:			
1 to 12 inches	215.5	78.7	173.8
13 to 24 inches	53.9	32.0	105.6
Over 24 inches	11.9		

[1] Includes siphons and farm pipe lines reported.
[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.
[3] Includes 784.2 miles pipe lines not segregated by size.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage...number..	897	933	545
Area irrigable in these enterprises...acres...	2,598,196	3,105,549	[1] 1,623,330
Area irrigated in these enterprises...acres...	1,711,027	([2])	([2])
Area for which drains have been installed...acres...	1,509,632	1,522,338	319,573
Additional area needing drainage...acres...	394,963	235,990	409,933
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage...percent..	88.2	[3] 49.0	[1] 19.7
(b) All irrigation enterprises...percent..	29.8	32.1	7.6
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting...percent..	73.3	56.6	[1] 44.9
(b) Irrigated area reporting...percent..	111.3	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals....acre-feet..	11,016,598	10,109,851	14,793,933	9,680,546	9,272,139	10,581,929	1,336,052	837,712	4,212,004
Area irrigated by these enterprises....acres....	2,541,663	2,527,416	2,167,485	2,181,859	2,296,780	1,785,976	359,804	230,636	381,509
Average water per acre irrigated....acre-feet..	4.3	4.0	6.8	4.4	4.0	5.9	3.7	3.6	11.0
Total water delivered to irrigators....acre-feet..	7,979,232	5,631,710	3,409,367	4,108,863	4,048,809	1,627,316	3,870,369	1,581,901	1,782,051
Area irrigated by these enterprises....acres....	3,085,064	1,993,373	1,438,699	1,734,660	1,492,989	751,327	1,350,404	500,384	687,372
Average water per acre irrigated....acre-feet..	2.6	2.8	2.4	2.4	2.7	2.2	2.9	3.2	2.6
From underground sources reported:									
Total water delivered to irrigators....acre-feet..	4,678,588	.....	.....	557,974	.....	.....	4,120,614	.....	.....
Area irrigated by these enterprises....acres....	1,755,696	.....	.....	291,328	.....	.....	1,464,368	.....	.....
Average water per acre irrigated....acre-feet..	2.7	.....	.....	1.9	.....	.....	2.8	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals....acre-feet..	130,534	.....	.....	77,658	.....	.....	52,876	.....	.....
Area irrigated by these enterprises....acres....	90,777	.....	.....	39,611	.....	.....	51,166	.....	.....
Average water per acre irrigated....acre-feet..	1.4	.....	.....	2.0	.....	.....	1.0	.....	.....
Total water delivered to irrigators....acre-feet..	92,076	.....	.....	55,758	.....	.....	36,318	.....	.....
Area irrigated by these enterprises....acres....	63,454	.....	.....	31,584	.....	.....	31,870	.....	.....
Average water per acre irrigated....acre-feet..	1.5	.....	.....	1.8	.....	.....	1.1	.....	.....
From underground sources reported:									
Total water delivered to irrigators....acre-feet..	669,906	.....	.....	5,893	.....	.....	664,013	.....	.....
Area irrigated by these enterprises....acres....	351,518	.....	.....	5,026	.....	.....	346,492	.....	.....
Average water per acre irrigated....acre-feet..	1.9	.....	.....	1.2	.....	.....	1.9	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated						
	Primary enterprises	Proportion of total	Supplemental enterprises[1]	Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	5,069,568	100.0	455,342	4,746,632	100.0	4,219,040	100.0
Appropriation[2]	1,230,693	24.3	24,313	1,808,898	38.2	1,289,937	30.5
Riparian	426,708	8.4	21,253	357,635	7.5	240,512	5.7
Appropriation and riparian	778,908	15.4	37,992	.....	.....	.....	.....
Underground	1,479,022	29.1	348,514	1,454,093	30.6	863,613	20.5
Appropriation and underground	478,114	9.4	2,737	.....	.....	.....	.....
Riparian and underground	105,371	2.1	2,018	.....	.....	.....	.....
Adjudicated by court	494,693	9.8	18,107	777,891	16.4	982,157	23.3
Other mixed and not reported	76,059	1.5	408	348,115	7.3	842,821	20.0

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 44,581 acres which were irrigated in 1939, and which were within the Bard and Reservation Divisions of the Yuma Project, the Tule Lake Division of the Klamath Project, and the Orland Project. These projects are indicated as separate enterprises under the Bureau of Reclamation and are not duplicated under any other classification. Areas totaling 1,709 acres irrigated with supplemental water from the Klamath Project are reported as receiving a primary supply through other enterprises.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates to the areas outlined in the preceding paragraph and reflects costs incurred by the Bureau of Reclamation in the construction of these enterprises. There are excluded from the totals construction expenditures on the All-American Canal, which was not in operation in 1939, to provide a substituted supply for the Imperial Irrigation District, and on the Coachella Branch Canal in southern California. Neither are there included construction expenditures on the Central Valley Project, a multiple-purpose project designed to produce power, provide supplemental water for irrigation in the San Joaquin Valley and Contra Costa area, and municipal water supplies; for flood control and improvement of navigation. There are also omitted construction expenditures on Parker Dam constructed by the Bureau of Reclamation with funds advanced by the Metropolitan Water District of southern California as a source of Colorado River water for Los Angeles and 12 other cities of the coastal plain.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	31,733	780	27,633	2,170	779	228	128	15
2	Irrigated farms, 1939.....number...	125,303	.....	27,633	5,372	7,558	10,682	33,081	40,977
3	Area irrigated, 1939.....acres....	5,069,568	.....	1,777,214	229,809	336,133	397,182	976,480	1,352,750
4	(a) From which crops were harvested.....acres....	4,621,791	.....	1,577,084	199,384	294,748	364,346	925,764	1,260,465
5	(b) On which crops failed.....acres....	22,084	.....	11,061	678	1,220	982	4,143	4,000
6	(c) Irrigated pasture.....acres....	425,693	.....	189,069	29,747	40,165	31,854	46,573	88,285
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	300,164,036	1,807,790	81,094,859	14,512,633	17,993,899	26,580,291	83,956,546	74,218,018
8	(a) Cost of irrigation works and equipment.....dollars..	289,861,271	1,757,460	80,842,476	13,712,349	17,498,418	25,022,253	77,236,880	73,791,435
9	(b) Investment in water rights.....dollars..	10,302,765	50,330	252,383	800,284	495,481	1,558,038	6,719,666	426,583
10	Area works were capable of supplying with water.....acres....	7,398,576	169,707	2,427,559	322,108	561,799	693,866	1,515,586	1,707,951
11	Average investment per acre irrigated.....dollars..	59.21	.....	45.63	63.15	53.52	66.50	82.59	54.86
12	Average investment per acre which the works could supply with water.....dollars..	40.57	10.65	33.41	45.06	32.02	38.17	54.13	43.45
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	29,185	259	25,786	2,044	733	222	127	14
14	(a) Area irrigated in these enterprises.....acres....	4,831,550	.....	1,640,124	207,289	315,802	379,356	976,180	1,312,799
15	(b) Cost of maintenance and operation.....dollars..	21,229,685	24,019	10,085,495	1,125,306	1,390,091	1,524,612	4,171,180	2,908,982
16	(c) Average cost per irrigated acre reporting.....dollars..	4.39	.....	6.15	5.43	4.40	3.99	4.10	2.22
17	Total annual charges[2].....dollars..	12,789,209	1,327	.....	1,258	1,614,261	1,752,072	4,968,540	4,451,751
18	Average charge per irrigated acre reporting.....dollars..	4.24	.....	.....	0.52	5.12	4.61	5.15	3.29
19	Area against which charges were assessed.....acres....	4,212,879	28,552	.....	2,430	373,929	517,020	1,480,778	1,810,170
20	Average annual charge per acre assessed.....dollars..	3.04	0.05	.....	0.52	4.32	3.39	3.36	2.46
21	Total charges collected[2].....dollars..	10,519,461	1,355	.....	180	831,568	1,541,343	3,927,332	4,217,683
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3].....number...	345	[4]2	.....	[4]1	103	135	94	10
23	(a) Area irrigated in these enterprises.....acres....	2,009,905	.....	.....	300	102,064	269,031	765,231	873,279
24	(b) Indebtedness.....dollars..	94,170,982	16,099	.....	105	3,494,685	10,889,486	31,747,673	48,022,934
25	(c) Average indebtedness per acre irrigated.....dollars..	46.85	.....	.....	0.35	34.24	40.48	40.19	54.99
26	(d) Cost of irrigation works and equipment.....dollars..	153,776,097	293,833	.....	3,000	5,955,983	19,890,445	65,135,348	62,497,488
27	(e) Investment in water rights.....dollars..	7,613,291	40,200	.....	1,500	362,946	963,921	5,908,141	336,583
28	(f) Total investment.....dollars..	161,389,388	334,033	.....	4,500	6,318,929	20,854,366	71,043,489	62,834,071
29	(g) Maintenance and operation.....dollars..	7,455,185	3,872	.....	162	331,191	1,148,944	3,437,242	2,533,774
30	(h) Total annual charges[2].....dollars..	9,575,190	.....	.....	162	455,738	1,322,944	4,291,729	3,504,617
31	(i) Total charges collected[2].....dollars..	8,504,288	1,093	.....	180	318,331	1,268,219	3,379,086	3,537,379
32	(j) Area against which annual charges were assessed.....acres....	2,888,146	.....	.....	300	129,045	372,020	1,240,617	1,146,164
33	(k) Average indebtedness per acre assessed.....dollars..	32.40	.....	.....	0.35	22.98	29.27	25.55	41.90
34	(l) Average charges per acre assessed.....dollars..	3.32	.....	.....	0.54	3.53	3.56	3.46	3.06
35	(m) Average charges per acre irrigated.....dollars..	4.77	.....	.....	0.54	4.51	4.92	5.61	4.01
36	Enterprises reporting arrearage[3].....number...	40	.....	.....	.....	11	11	15	3
37	(a) Area assessed in these enterprises.....acres....	1,170,069	.....	.....	.....	15,988	112,947	266,412	774,722
38	(b) Total arrearage.....dollars..	19,649,311	.....	.....	.....	851,844	3,668,581	4,150,609	10,978,277
39	(c) Average arrearage per acre assessed.....dollars..	16.53	.....	.....	.....	34.03	32.48	15.58	14.17
40	(d) Indebtedness.....dollars..	55,869,751	.....	.....	.....	2,445,615	6,360,755	9,566,131	37,497,250
	TYPE, 1940								
41	Individual and partnership.....number...	30,536	761	27,430	2,064	279	1	1	.....
42	Cooperative (incorporated and unincorporated).....number...	903	13	166	90	390	170	71	3
43	Irrigation district.....number...	85	1	.....	.....	13	25	36	10
44	Commercial.....number...	100	2	11	.....	55	17	14	1
45	U. S. Bureau of Reclamation.....number...	5	1	.....	.....	1	.....	3	.....
46	U. S. Office of Indian Affairs.....number...	51	2	11	12	18	6	2	.....
47	All other.....number...	53	.....	15	4	23	9	1	1
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	835	8	.....	[4]2	468	216	126	15
49	Wages and salaries paid and payable for 1939.....dollars..	4,841,769	5,436	.....	1,181	278,011	604,813	1,770,141	2,182,187
50	Persons employed during week ending April 29, 1939.....number...	4,371	9	.....	6	788	685	1,397	1,488
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	2,140	54	1,723	119	141	65	32	6
52	Streams, pumped.....number...	1,309	31	1,163	67	25	15	8	.....
53	Wells, pumped.....number...	26,284	653	23,060	1,891	548	103	29	.....
54	Wells, pumped and flowing; or wells flowing.....number...	141	1	128	8	1	.....	3	.....
55	Lakes, gravity or pumped.....number...	34	.....	27	4	3	.....	.....	.....
56	Streams and springs; or springs.....number...	854	26	803	16	3	5	1	.....
57	Mixed, streams and wells.....number...	633	8	448	45	40	32	52	8
58	Other mixed or stored storm water.....number...	338	7	281	20	18	8	3	1

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	8,242	633	7,308	278	9	4	9	1
2	Irrigated farms, 1939.....number...	12,939	.....	7,308	635	109	203	2,221	[6]
3	Area irrigated, 1939.....acres....	455,342	.....	333,365	18,689	18,632	4,029	67,813	[6]
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	18,725,182	1,117,411	11,083,130	626,640	426,096	294,023	3,485,717	[6]
5	(a) Cost of irrigation works and equipment.....dollars..	16,867,904	1,117,371	11,074,450	626,039	308,513	292,998	1,756,368	[6]
6	(b) Investment in water rights.....dollars..	1,857,278	40	8,680	601	117,583	1,025	1,729,349	.....
7	Area works were capable of supplying with water.....acres....	624,550	45,762	418,085	23,735	20,481	4,235	88,186	[6]
8	Average investment per acre irrigated.....dollars..	41.12	.....	33.25	33.53	22.87	72.98	51.40	[6]
9	Average investment per acre which the works could supply with water.....dollars..	29.98	24.42	26.51	26.40	20.80	69.43	39.53	[6]

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
780	26,032	3,457	1,188	205	63	8	26,366	3,970	1,149	221	27	1
.....	31,088	8,613	14,543	16,968	27,065	27,026	29,520	9,226	12,331	29,700	44,526	2
.....	698,484	554,738	736,648	710,635	1,161,465	1,207,598	1,091,197	590,273	721,651	1,009,878	1,656,569	3
.....	646,239	506,628	645,385	626,568	1,057,910	1,139,061	931,236	534,584	661,061	945,282	1,549,628	4
.....	4,333	2,996	2,512	2,931	5,312	4,000	6,421	2,140	4,944	2,048	6,531	5
.....	47,812	45,114	88,751	81,136	98,243	64,537	153,540	53,549	55,846	62,548	100,410	6
1,807,790	53,983,782	27,349,457	38,325,762	55,515,412	70,111,373	53,070,460	38,904,293	29,993,055	35,821,141	84,824,817	110,620,730	7
1,757,460	53,812,766	27,040,352	35,987,202	51,587,783	66,731,831	52,943,877	38,765,888	29,733,023	34,898,647	77,476,422	108,987,291	8
50,330	171,016	309,105	2,338,560	3,927,629	3,379,542	126,583	138,405	260,032	922,494	7,348,395	1,633,439	9
169,707	1,039,249	715,530	999,925	1,145,643	1,753,692	1,574,830	1,511,361	762,313	1,050,228	1,802,393	2,272,281	10
.....	77.29	49.29	52.03	77.33	58.58	43.95	35.65	50.81	48.44	81.99	66.78	11
10.65	51.94	38.22	38.33	48.35	39.19	33.70	25.74	39.34	33.54	46.55	48.68	12
259	24,313	3,254	1,099	193	59	8	24,088	3,758	1,093	220	26	13
.....	666,559	520,570	678,587	670,343	1,087,893	1,207,598	988,173	557,552	667,589	1,001,618	1,616,618	14
24,019	5,759,214	3,351,012	3,421,442	3,027,274	3,287,040	2,359,684	5,347,920	3,406,015	3,437,629	4,700,398	4,337,723	15
.....	8.64	6.44	5.04	4.47	2.93	1.95	5.41	6.11	5.02	4.58	2.68	16
1,327	285,645	637,760	1,588,679	3,296,310	3,911,037	3,068,451	123,624	423,612	1,496,145	5,364,779	3,381,049	17
.....	14.44	11.99	7.39	6.96	3.74	2.54	3.02	3.63	4.96	5.92	3.26	18
28,552	27,934	64,089	267,158	712,667	1,507,814	1,604,665	44,789	136,272	382,979	1,277,900	2,370,939	19
0.05	10.23	9.95	5.95	4.63	2.59	1.91	2.76	3.11	3.91	4.20	2.27	20
1,355	142,541	448,964	1,419,472	2,317,673	3,014,248	3,175,208	56,274	249,905	1,179,057	3,948,977	5,085,248	21
[4]2	21	75	125	75	43	4	8	48	136	134	19	22
.....	1,324	14,428	99,452	278,515	848,108	768,078	2,834	27,143	141,615	723,568	1,114,745	23
16,099	93,609	414,000	6,569,625	18,354,610	31,783,482	36,939,557	4,123	110,522	1,734,504	27,612,255	64,709,578	24
.....	70.70	28.69	66.06	64.80	36.61	48.09	1.45	4.07	12.25	36.90	58.05	25
293,833	381,252	2,036,854	15,403,427	36,343,219	54,871,012	44,446,500	23,400	493,475	5,587,430	56,294,046	91,377,746	26
40,200	48,534	152,290	1,327,542	3,178,600	2,829,542	36,583	1,500	99,449	441,802	5,527,101	1,543,439	27
334,033	429,786	2,189,144	16,730,969	39,521,819	57,700,554	44,483,083	24,900	592,924	6,029,232	61,821,147	92,921,185	28
3,872	27,819	181,059	896,238	1,645,422	2,716,299	1,984,476	7,030	65,732	625,111	3,094,759	3,662,553	29
.....	53,830	238,653	1,029,524	2,576,461	3,275,748	2,400,974	7,415	84,753	795,184	4,464,876	4,222,962	30
1,093	34,156	217,145	1,031,673	1,895,889	2,829,428	2,494,904	4,703	84,409	638,766	3,490,649	4,285,761	31
.....	5,718	19,853	124,283	485,524	1,272,158	980,610	2,839	34,454	164,842	1,044,237	1,641,774	32
.....	16.37	20.85	48.61	37.71	24.98	37.67	1.45	3.21	10.52	25.87	39.41	33
.....	9.41	12.02	8.28	5.31	2.57	2.45	2.61	2.46	4.82	4.28	2.57	34
.....	40.66	16.54	10.46	9.25	3.86	3.13	2.62	3.12	5.62	6.18	3.79	35
.....	3	3	10	11	10	3	.....	[4]1	7	25	7	36
.....	233	1,220	17,948	88,115	258,943	803,610	.....	83	16,313	217,570	936,103	37
.....	8,655	36,954	1,051,999	2,547,804	5,657,693	10,346,206	.....	655	64,097	7,188,318	12,396,241	38
.....	37.15	30.29	41.47	28.91	21.85	12.87	.....	7.89	3.93	31.32	13.24	39
.....	13,169	67,431	2,504,289	5,678,804	15,249,058	32,357,000	.....	5,169	161,862	13,803,958	41,898,762	40
761	25,678	3,125	894	73	5	.....	26,093	3,631	772	39	1	41
13	280	282	229	79	20	.....	230	287	290	93	3	42
1	3	5	20	27	22	7	1	.....	15	53	16	43
2	17	25	27	17	11	1	5	23	42	26	4	44
1	.....	.....	1	1	2	.....	1	.....	1	1	2	45
2	38	6	5	.....	.....	.....	24	12	12	3	.....	46
.....	16	14	12	8	3	.....	12	17	17	6	1	47
8	157	233	251	123	55	8	90	237	314	168	26	48
5,436	52,516	130,115	536,861	833,380	1,672,759	1,610,702	61,545	74,204	436,482	1,468,609	2,800,929	49
9	256	391	693	708	1,228	1,086	112	334	762	1,215	1,948	50
54	1,316	366	292	79	29	4	1,855	135	88	54	8	51
31	887	226	133	25	6	1	1,130	114	41	21	3	52
653	22,385	2,607	594	43	2	.....	21,781	3,546	883	74	.....	53
1	132	3	4	1	.....	.....	127	8	2	4	.....	54
.....	28	3	1	1	1	.....	32	1	1	.....	.....	55
26	722	68	33	5	.....	.....	814	28	12	.....	.....	56
8	324	133	97	44	24	3	367	96	93	61	16	57
7	238	51	34	7	1	.....	260	42	29	7	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
633	6,946	529	124	5	5	.....	7,872	296	64	9	1	1
.....	7,248	621	1,120	720	3,230	.....	7,594	813	834	1,235	[5]	2
.....	204,265	81,471	73,701	16,075	79,830	.....	273,551	70,340	61,759	36,878	[5]	3
1,117,411	7,575,445	2,219,448	2,666,246	657,498	4,489,134	.....	8,433,865	2,250,967	2,005,114	4,343,071	[5]	4
1,117,371	7,573,324	2,217,388	2,514,421	628,689	2,816,711	.....	8,315,469	2,249,342	1,944,114	2,666,814	[5]	5
40	2,121	2,060	151,825	28,809	1,672,423	.....	118,396	1,625	61,000	1,676,257	.....	6
45,762	261,586	99,991	103,692	18,359	95,160	.....	370,428	90,516	96,938	42,602	[5]	7
.....	37.09	27.24	36.18	40.90	56.23	.....	30.83	32.00	32.47	117.77	[5]	8
24.42	28.96	22.20	25.71	35.81	47.17	.....	22.77	24.87	20.68	101.95	[5]	9

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for less than 3 enterprises shown with permission of the enterprises involved.
[5] Data are included only in State total because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms [1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	7,453	76	7,086	269	9	4	8	1
11	(a) Area irrigated in these enterprises.....acres....	439,235	.....	319,732	17,715	18,632	4,029	66,313	([2])
12	(b) Cost of maintenance and operation.....dollars..	1,620,218	18,823	1,337,263	77,211	11,066	34,654	107,729	([2])
13	(c) Average cost per irrigated acre reporting.....dollars..	3.69	.....	4.18	4.36	0.59	8.60	1.62	([2])
14	Total annual charges[3].....dollars..	252,555	.....	.....	.....	24,664	28,748	165,671	([2])
15	Average charge per irrigated acre reporting.....dollars..	3.06	.....	.....	.....	1.37	9.04	3.41	([2])
16	Area against which charges were assessed.....acres....	96,930	.....	.....	.....	18,018	3,179	62,919	([2])
17	Average annual charge per acre assessed.....dollars..	2.61	.....	.....	.....	1.37	9.04	2.63	([2])
18	Total charges collected[3].....dollars..	403,248	.....	.....	.....	22,410	21,035	150,167	([2])
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[4].....number...	12	.....	.....	.....	3	3	5	1
20	(a) Area irrigated in these enterprises.....acres....	52,641	.....	.....	.....	12,852	2,510	24,465	([2])
21	(b) Indebtedness.....dollars..	1,523,911	.....	.....	.....	141,757	141,325	436,328	([2])
22	(c) Average indebtedness per acre irrigated.....dollars..	28.95	.....	.....	.....	11.03	56.30	17.83	([2])
23	(d) Cost of irrigation works and equipment.....dollars..	3,784,684	.....	.....	.....	208,413	212,170	1,671,936	([2])
24	(e) Investment in water rights.....dollars..	1,817,957	.....	.....	.....	117,583	1,025	1,699,349	.....
25	(f) Total investment.....dollars..	5,602,641	.....	.....	.....	325,996	213,195	3,371,285	([2])
26	(g) Maintenance and operation.....dollars..	144,186	.....	.....	.....	2,531	6,902	101,281	([2])
27	(h) Total annual charges[3].....dollars..	199,902	.....	.....	.....	17,412	996	148,022	([2])
28	(i) Total charges collected[3].....dollars..	372,147	.....	.....	.....	16,684	2,400	143,427	([2])
29	(j) Area against which annual charges were assessed.....acres....	52,102	.....	.....	.....	12,852	1,660	24,776	([2])
30	(k) Average indebtedness per acre assessed.....dollars..	27.25	.....	.....	.....	11.03	22.55	17.61	([2])
31	(l) Average charges per acre assessed.....dollars..	3.84	.....	.....	.....	1.35	0.60	5.97	([2])
32	(m) Average charges per acre irrigated.....dollars..	3.86	.....	.....	.....	1.35	0.60	6.05	([2])
33	Enterprises reporting arrearage[4].....number...	[5] 1	.....	.....	.....	[5] 1	.....	.....	.....
34	(a) Area assessed in these enterprises.....acres....	143	.....	.....	.....	143	.....	.....	.....
35	(b) Total arrearage.....dollars..	2,400	.....	.....	.....	2,400	.....	.....	.....
36	(c) Average arrearage per acre assessed.....dollars..	16.78	.....	.....	.....	16.78	.....	.....	.....
37	(d) Indebtedness.....dollars..	2,400	.....	.....	.....	2,400	.....	.....	.....
	TYPE, 1940								
38	Individual and partnership.....number...	8,193	629	7,286	276	2	.....	.....	.....
39	Cooperative (incorporated and unincorporated).....number...	39	2	21	2	5	2	7	.....
40	Irrigation district.....number...	[5] 2	1	.....	.....	1	.....	.....	.....
41	Commercial.....number...	4	.....	.....	.....	1	1	1	1
42	U. S. Bureau of Reclamation.....number...	3	1	1	.....	.....	1	.....	.....
43	All other.....number...	[5] 1	.....	.....	.....	.....	.....	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
44	Enterprises reporting pay roll.....number...	16	.....	.....	.....	4	3	8	1
45	Wages and salaries paid and payable for 1939.....dollars..	59,811	.....	.....	.....	2,305	7,989	39,487	([2])
46	Persons employed during week ending April 29, 1939.....number...	54	.....	.....	.....	4	12	35	([2])
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
47	Streams, pumped.....number...	94	19	73	2	.....	.....	.....	.....
48	Wells, pumped or flowing.....number...	8,106	610	7,211	273	7	3	2	.....
49	Streams, gravity or storage.....number...	42	4	24	3	2	1	7	1

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data are included only in State total because less than 3 enterprises reported in the 1940 Census.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Klamath River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Klamath Falls, Oregon	Klamath	4,100	9.02	-3.18	3.43	-1.19	3.58	-0.84	0.90	-1.18	1.11	+0.03	50.1	+2.2
Montague	Siskiyou	2,523	7.99	-4.38	2.49	-2.13	2.23	-2.15	0.90	-1.19	2.37	+1.09	53.5	+0.5
Averages	.....	.....	8.50	-3.78	2.96	-1.66	2.90	-1.50	0.90	-1.19	1.74	+0.56	51.8	+1.4
Pacific Slope (North of San Francisco Bay)														
Crescent City	Del Norte	125	66.44	-7.17	24.14	-1.89	35.37	+2.38	5.29	-5.89	1.64	-1.77	54.4	+1.7
Weaverville	Trinity	2,030	25.28	-11.11	11.44	-2.05	9.95	-7.61	3.23	-1.20	0.66	-0.25	54.7	+1.4
Eureka	Humboldt	44	29.48	-10.28	12.43	-1.36	13.93	-4.89	2.78	-3.07	0.34	-0.96	52.2	+0.6
Ukiah	Mendocino	650	22.81	-12.29	9.82	-2.64	11.13	-7.65	1.62	-1.71	0.24	-0.29	59.6	+2.1
Cloverdale	Sonoma	315	18.00	-19.22	6.10	-6.02	9.84	-10.80	2.06	-1.78	0.00	-0.62	61.5	+2.1
Averages	.....	.....	32.40	-12.01	12.79	-2.79	16.04	-5.71	3.00	-2.73	0.58	-0.78	56.5	+1.6
San Francisco Bay														
Santa Rosa	Sonoma	167	15.26	-13.49	6.54	-3.43	7.38	-7.71	1.26	-1.86	0.08	-0.49	59.0	+2.1
Livermore	Alameda	480	9.62	-4.08	2.60	-1.68	6.15	-1.43	0.71	-0.75	0.16	-0.22	59.5	+0.2
San Jose	Santa Clara	95	10.77	-2.97	3.64	-0.53	6.11	-1.59	0.74	-0.73	0.28	-0.12	59.2	+1.5
Averages	.....	.....	11.88	-6.85	4.26	-1.88	6.55	-3.58	0.90	-1.11	0.17	-0.28	59.2	+1.5
Pacific Slope (South of San Francisco Bay)														
Santa Cruz	Santa Cruz	125	21.22	-4.91	5.74	-2.68	12.70	-1.76	1.46	-1.12	1.32	+0.65	57.9	+0.6
King City	Monterey	331	7.85	-2.42	2.36	-0.31	5.02	-1.46	0.19	-0.75	0.28	+0.10	59.1	+0.1
Salinas	Monterey	45	10.97	-2.00	3.21	-0.80	6.79	-0.44	0.68	-0.72	0.29	-0.04	56.8	+0.4
San Luis Obispo	San Luis Obispo	300	10.37	-10.66	2.09	-3.73	7.28	-5.60	0.39	-1.62	0.61	+0.29	59.2	+0.4
Santa Maria	Santa Barbara	217	11.51	-2.35	1.94	-1.59	7.82	-0.78	0.25	-1.18	1.50	+1.20	57.7	0.0
Averages, north group	.....	.....	12.38	-4.47	3.07	-1.82	7.92	-2.01	0.59	-1.08	0.80	+0.44	58.1	+0.3
Oxnard	Ventura	51	14.68	+2.48	6.65	+2.48	6.00	-0.07	0.34	-1.49	1.69	+1.56	59.3	+0.5
Los Angeles	Los Angeles	261	18.74	+3.51	7.27	+2.76	5.53	-3.42	0.26	-1.31	5.68	+5.48	65.4	+3.0
San Bernardino (near)	San Bernardino	1,172	17.97	+2.10	7.21	+3.15	7.59	-1.47	0.91	-1.41	2.26	+1.83	64.2	+1.3
Santa Ana	Orange	133	20.51	+7.11	8.77	+4.99	7.18	-0.75	0.65	-0.81	3.91	+3.68	63.2	+1.1
Escondido	San Diego	750	18.40	+1.80	6.37	+1.91	7.91	-1.83	0.86	-1.31	3.26	+3.03	62.2	+1.3
Averages, south group	.....	.....	18.06	+3.40	7.25	+3.06	6.84	-1.51	0.60	-1.27	3.36	+3.12	62.9	+1.4

[1] Departure from normal.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
76	6,744	510	113	5	5	.....	7,116	270	57	9	1	10
.....	198,583	78,442	66,305	16,075	79,830	.....	262,897	67,769	58,877	36,878	(2)	11
18,823	869,711	319,350	301,400	52,909	58,025	.....	1,048,073	233,502	175,534	129,637	(2)	12
.....	4.38	4.07	4.55	3.29	0.73	.....	3.99	3.45	2.98	3.52	(2)	13
.....	788	5,868	96,620	28,318	120,961	.....	765	2,957	55,059	160,302	(2)	14
.....	22.51	10.22	12.48	2.28	1.96	.....	2.38	10.06	1.58	4.66	(2)	15
.....	35	574	22,051	12,425	61,845	.....	322	294	48,766	34,734	(2)	16
.....	22.51	10.22	4.38	2.28	1.96	.....	2.38	10.06	1.13	4.62	(2)	17
.....	1,145	5,865	74,933	23,374	297,931	.....	.....	4,061	30,724	158,827	(2)	18
.....	.....	[5] 1	6	[5] 2	3	.....	1	[5] 1	3	6	1	19
.....	.....	143	5,671	7,725	39,102	.....	(2)	143	4,614	34,748	(2)	20
.....	.....	2,400	252,802	16,371	1,252,338	.....	(2)	2,400	45,325	671,329	(2)	21
.....	.....	16.78	44.56	2.12	32.03	.....	(2)	16.78	9.82	19.32	(2)	22
.....	.....	9,660	729,174	263,771	2,782,079	.....	(2)	9,660	134,966	1,944,140	(2)	23
.....	.....	.....	116,725	28,809	1,672,423	.....	(2)	.....	26,000	1,676,257	.....	24
.....	.....	9,660	845,899	292,580	4,454,502	.....	(2)	9,660	160,966	3,620,397	(2)	25
.....	.....	866	62,454	28,689	52,177	.....	(2)	866	7,123	101,960	(2)	26
.....	.....	1,287	58,548	26,435	115,632	.....	(2)	1,287	4,076	160,302	(2)	27
.....	.....	1,284	55,631	23,374	291,858	.....	.....	1,284	2,400	158,827	(2)	28
.....	.....	143	5,132	7,725	39,102	.....	(2)	143	4,089	34,734	(2)	29
.....	.....	16.78	29.01	2.12	32.03	.....	(2)	16.78	10.13	16.45	(2)	30
.....	.....	9.00	11.02	3.42	2.96	.....	(2)	9.00	1.00	4.62	(2)	31
.....	.....	9.00	11.73	3.42	2.96	.....	(2)	9.00	1.00	4.66	(2)	32
.....	.....	[5] 1	.....	.....	.....	.....	.....	[5] 1	.....	.....	.....	33
.....	.....	143	.....	.....	.....	.....	.....	143	.....	.....	.....	34
.....	.....	2,400	.....	.....	.....	.....	.....	2,400	.....	.....	.....	35
.....	.....	16.78	.....	.....	.....	.....	.....	16.78	.....	.....	.....	36
.....	.....	2,400	.....	.....	.....	.....	.....	2,400	.....	.....	.....	37
629	6,932	522	108	2	.....	.....	7,855	281	54	3	.....	38
2	13	7	14	1	2	.....	14	15	7	3	.....	39
1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	40
.....	.....	.....	1	2	1	.....	.....	.....	1	2	1	41
1	1	.....	1	.....	.....	.....	2	.....	1	.....	.....	42
.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	43
.....	.....	[5] 2	7	[5] 2	5	.....	1	[5] 2	6	6	1	44
.....	.....	485	21,528	11,083	26,715	.....	(2)	710	10,218	37,933	(2)	45
.....	.....	2	23	10	19	.....	.....	3	13	35	(2)	46
19	63	8	3	1	.....	.....	83	8	2	1	.....	47
610	6,864	514	116	2	.....	.....	7,759	284	58	5	.....	48
4	19	7	5	2	5	.....	30	4	4	3	1	49

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939—Continued

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Sacramento River (Tributary watershed)		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Alturas	Modoc	4,446	7.56	-4.47	2.61	-1.06	2.50	-1.63	1.02	-1.85	1.43	+0.07	47.3	+0.6
Mount Shasta	Siskiyou	3,555	20.40	-13.29	8.39	-2.74	7.81	-8.73	2.40	-2.28	1.80	+0.46	51.5	+2.4
Redding	Shasta	718	24.79	-11.35	9.33	-2.74	9.15	-9.01	4.43	-0.53	1.88	+0.93	64.6	+2.0
Sierraville	Sierra	5,000	14.72	-11.04	2.62	-4.98	6.48	-7.04	2.91	-0.60	2.71	+1.58	47.1	+2.3
Quincy	Plumas	3,409	21.47	-17.54	5.74	-7.29	12.11	-7.25	3.20	-1.99	0.42	-1.01	(2)	(2)
Lake Spaulding	Nevada	5,075	41.13	-23.79	11.69	-8.80	21.66	-12.05	6.30	-3.03	1.48	+0.09	49.6	+1.7
Nevada City	Nevada	2,570	29.19	-18.17	7.66	-7.74	17.45	-7.43	3.43	-2.74	0.65	-0.26	(2)	(2)
Placerville	El Dorado	1,925	25.52	-11.93	6.54	-5.14	14.16	-6.23	3.19	-1.47	1.63	+0.91	56.3	+1.2
Clear Lake (near)	Lake	1,350	10.40	-11.24	4.76	-2.46	4.86	-7.38	0.73	-1.01	0.05	-0.39	57.9	+0.2
Averages	.....	.....	21.69	-13.65	6.59	-4.77	10.69	-7.42	3.07	-1.72	1.34	+0.26	53.5	+1.5
Sacramento River (Valley)														
Red Bluff	Tehama	303	12.39	-10.49	4.97	-2.73	3.22	-8.31	2.36	-0.44	1.84	+0.99	64.0	+1.6
Willows	Glenn	136	6.78	-9.77	2.77	-2.92	2.73	-5.97	0.83	-0.85	0.45	-0.03	63.3	+1.0
Marysville	Yuba	61	9.66	-10.84	3.05	-4.13	4.50	-6.13	1.69	-0.59	0.42	+0.01	63.6	+1.0
Sacramento	Sacramento	25	9.79	-8.16	2.88	-2.95	5.39	-3.92	1.17	-1.26	0.35	-0.03	62.2	+2.3
Averages	.....	.....	9.65	-9.81	3.42	-3.18	3.96	-6.08	1.51	-0.78	0.76	+0.23	63.3	+1.5
San Joaquin River (Tributary watershed)														
Glennville	Kern	3,300	22.16	+3.10	4.97	-0.55	12.52	+3.04	2.60	-0.86	2.07	+1.47	56.5	+1.8
Giant Forest	Tulare	6,360	31.95	-5.24	7.50	-4.29	18.62	+1.84	4.35	-3.75	1.48	+0.96	48.6	+1.1
Huntington Lake	Fresno	7,000	21.03	-9.67	6.13	-2.00	9.18	-6.88	3.67	-1.42	2.05	+0.63	46.0	+2.3
Yosemite	Mariposa	3,983	24.06	-9.63	7.17	-2.60	12.22	-5.06	2.37	-2.89	2.30	+0.92	53.9	+2.0
Lake Eleanor	Tuolumne	4,650	32.64	-9.28	9.74	-1.89	16.87	-5.85	3.03	-3.20	3.00	+1.66	54.3	+2.9
Twin Lakes	Alpine	7,920	35.41	-7.29	7.63	-3.35	19.54	-3.59	4.75	-1.29	3.49	+0.94	40.8	+1.0
Averages	.....	.....	27.87	-6.33	7.19	-2.45	14.82	-2.75	3.46	-2.23	2.40	+1.10	50.0	+1.8

[1] Departure from normal.
[2] Data not available.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939—Continued

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
San Joaquin River (Valley)		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Bakersfield	Kern	289	7.33	+1.45	1.67	+0.03	4.49	+1.52	0.69	-0.41	0.48	+0.31	65.4	+0.8
Porterville	Tulare	464	8.43	-1.68	2.96	+0.25	4.18	-1.22	1.11	-0.66	0.18	-0.05	64.5	+0.6
Hanford	Kings	249	6.53	-1.68	1.80	-0.29	3.75	-0.89	0.94	-0.17	0.04	-0.33	61.7	-0.6
Fresno	Fresno	277	9.12	-0.27	2.26	-0.69	4.64	-0.10	2.05	+0.58	0.17	-0.06	64.2	+1.9
Los Banos	Merced	120	6.14	-2.33	1.96	-0.58	2.64	-2.03	0.75	-0.37	0.79	+0.65	62.5	-0.8
Merced	Merced	173	8.55	-2.84	2.22	-1.19	5.19	-1.12	0.51	-0.93	0.63	+0.40	61.2	-0.8
Denair	Stanislaus	126	9.98	-0.14	3.00	-0.22	5.53	+0.13	0.56	-0.82	0.89	+0.77	62.1	+1.9
Stockton	San Joaquin	20	10.33	-3.45	2.95	-1.44	6.34	-1.07	0.64	-1.01	0.40	+0.07	59.9	-0.5
Averages	.....	.....	8.30	-1.37	2.35	-0.52	4.60	-0.60	0.91	-0.47	0.45	+0.22	62.7	+0.3
Cowhead Lake														
Fort Bidwell	Modoc	4,735	9.65	-4.75	4.00	-0.87	3.58	-2.18	1.46	-1.15	0.61	-0.55	49.9	+1.1
Honey Lake														
Susanville	Lassen	4,268	8.68	-9.88	1.12	-5.18	5.70	-2.97	1.51	-0.93	0.35	-0.80	51.1	+1.4
Truckee River														
Truckee	Nevada	6,200	20.99	-2.42	4.12	-2.63	12.78	-0.83	1.91	-0.48	2.18	+1.52	44.5	+0.8
Owens River														
Independence	Inyo	3,939	5.82	+1.53	1.06	-0.03	2.69	+0.45	0.57	+0.10	1.50	+1.01	59.4	+1.7
Amargosa River and Dry Lakes														
Trona	San Bernardino	1,656	7.27	+2.56	1.98	+0.90	2.00	-0.76	0.48	-0.13	2.81	+2.55	66.9	+1.5
Antelope Valley														
Fairmont	Los Angeles	3,036	17.18	+2.49	7.06	+3.00	6.61	-2.25	0.78	-0.62	2.73	+2.36	60.2	-0.7
Llano	Los Angeles	3,400	10.61	+3.78	4.26	+2.70	3.40	-0.42	0.65	-0.30	2.30	+1.80	59.3	-0.3
Averages	.....	.....	13.89	+3.13	5.66	+2.85	5.00	-1.34	0.72	-0.46	2.52	+2.08	59.8	-0.5
San Jacinto River														
San Jacinto	Riverside	1,550	17.61	-4.08	4.97	+1.48	6.78	-0.59	1.13	-0.74	4.73	-4.23	([2])	([2])
Whitewater River														
Indio	Riverside	-20	12.47	+9.19	2.31	+1.33	1.07	-0.41	0.13	-0.09	8.96	+8.36	73.4	0.0
Colorado River														
Blythe	Riverside	268	10.22	+6.11	2.44	+1.21	1.00	-0.66	0.00	-0.25	6.78	+5.81	70.9	+0.9
Brawley	Imperial	-119	9.03	+6.37	1.45	+0.50	0.83	-0.35	0.00	-0.24	6.75	+6.46	72.6	+1.3
Averages	.....	.....	9.62	+6.24	1.95	+0.86	0.92	-0.50	0.00	-0.24	6.76	+6.14	71.8	+1.1

[1] Departure from normal.

[2] Data not available.

Precipitation.—The total precipitation in California for the calendar year 1939, as reported by the U. S. Weather Bureau, was 67 percent, and the total snowfall was 89 percent of the 43-year average. Monthly averages in 1939 exceeded the normal slightly in May and July. The September rainfall was nearly 4 times the normal amount, but the excess was confined to desert regions and southwestern counties. Precipitation was subnormal during the other 9 months, with deficiency large in January and February. The total snowfall for the first 3 months of 1939 was moderately heavy, but snowfall was generally light thereafter.

Annual precipitation totals for the calendar year 1939 exceeded the normal in the desert regions and San Diego County, and locally elsewhere in southern California and the southern San Joaquin Valley, but were subnormal elsewhere, with deficiencies largest in central coastal and Sacramento valleys and over the western slopes of the northern and middle Sierra Nevada. The annual surplus in the desert regions and locally in other limited areas of southern California was due to the excessive rains attending a tropical storm that moved inland near the Los Angeles Harbor on September 25. In the northern fifth of the State a large percentage of the annual precipitation occurred in December.

Although precipitation for the calendar year 1938 was 126 percent and the total snowfall 142 percent of the 42-year average, the precipitation of fall and early winter was only about normal in the northern half and light in the southern half until mid-December when general rains started. These were heaviest in southern California and were sufficient to overcome the previous 1938-39 deficiency in that area. (California precipitation is reported for the year beginning with July.) Thus in October (1938) precipitation exceeded the normal throughout the northern two-thirds of the State with excess greatest over the northern Sacramento Valley and the western slopes of the Sierra Nevada, but was deficient in the southern third; in November it was about half the usual amount, the deficiency being general but least in the northern fourth of the State and increasing southward, necessitating heavy irrigation in southern areas; in December the total precipitation was three-fourths and the total snowfall about one-fifth of the December average. The large excess was thus confined to southern California and the desert region. A moderate excess occurred in the southern San Joaquin Drainage Basin. The deficiency elsewhere was most marked in the Sacramento Drainage Basin and the central coastal area.

The average precipitation for the water year (October 1938 through September 1939) at 58 stations listed in State table 18 which are arranged to indicate rainfall distribution within major drainage basins was 16.62 inches, a departure of -5.06 inches from the average water-year normal for these stations. Precipitation for the water year in practically all areas north of the Tehachapi Mountains and Death Valley was substantially below normal while all areas to the south, with the exception of the San Jacinto Valley, received an unusual rainfall above normal, as indicated in the subaverages given in table 18.

Vegetation got a late start in 1939 because of a cold winter and cold early spring, and deficient precipitation unfavorably affected pastures and nonirrigated crops in much of central and northern California. Otherwise the growing season was generally favorable for the development and harvesting of field, nut, and fruit crops, and crop yields were fair to good. Winter pastures, grains, and cover crops got a poor start in much of the Sacramento and San Joaquin Valleys because of deficient moisture in the fall months of 1938.

In 1929, average annual precipitation was only about 59 percent of normal, the deficiency characterizing all months except April, June, and December. Precipitation was poorly distributed, both as to time and amount. Precipitation in 1928 was about 75 percent of normal, being subnormal in every month except March and November. Snowfall in the mountains was much below the average.

STATE TABLE 19.—IRRIGATION ENTERPRISES SPREADING WATER FOR STORAGE UNDERGROUND—FARMS AND AREAS BENEFITED, CAPITAL INVESTED, COST OF MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, QUANTITIES AND COSTS OF WATER, AND PHYSICAL WORKS: CENSUS OF 1940

	ITEM (Averages, proportions, and percentages are based on enterprises reporting all the specific factors involved)		Totals and ratios[1]	
	FARMS AND AREAS BENEFITED			
1	Enterprises reporting	number	17	.....
2	Farms benefited	number	6,390	(7)
3	Area irrigated in benefited area	acres	250,069	(10)
4	Irrigable area in enterprises	acres	825,095	(16)
5	Proportion which area irrigated is of irrigable area in enterprises	percent	90.5	(10)
6	Area spreading works were capable of benefiting	acres	487,357	(14)
7	Proportion which area irrigated is of area enterprises were capable of benefiting	percent	96.4	(10)
8	Area of spreading grounds	acres	9,314	(16)
9	Average area works were capable of benefiting, per acre of spreading ground	acres	56	(13)
	CAPITAL INVESTED[2]			
10	Total investment in spreading enterprises	dollars	7,022,426	(16)
11	(*a*) Cost of spreading works and equipment to December 31, 1939	dollars	6,506,246	(16)
12	(*b*) Investment in water rights to December 31, 1939	dollars	516,180	(1)
13	Average investment per acre works were capable of benefiting	dollars	13.39	(13)
14	Average investment per acre of spreading ground	dollars	727.40	(15)
15	Estimated final investment in existing enterprises	dollars	7,794,426	(16)
16	Average investment, per acre, based on estimated final investment and irrigable area	dollars	9.27	(15)
17	Capital expenditures in 1939	dollars	590,654	(9)
	MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS[2]			
18	Cost of maintenance and operation	dollars	81,440	(14)
19	Area irrigated in benefited area	acres	250,069	(10)
20	Average cost of maintenance and operation per acre irrigated	dollars	0.30	(10)
21	Area of spreading grounds	acres	8,606	(13)
22	Average cost of maintenance and operation per acre of spreading grounds	dollars	9.45	(13)
23	Charges assessed[3]	dollars	223,006	(8)
24	Area assessed	acres	191,235	(8)
25	Average charge per acre assessed	dollars	1.17	(8)
26	Charges collected	dollars	301,675	(9)
27	Indebtedness to December 31, 1939	dollars	2,659,876	(5)
28	Area works were capable of benefiting	acres	139,235	(5)
29	Average indebtedness per acre the works were capable of benefiting	dollars	19.10	(5)
30	Area assessed	acres	158,835	(5)
31	Average indebtedness per acre assessed	dollars	16.75	(5)
	QUANTITIES AND COSTS OF WATER[2]			
32	Quantity of water entering system	acre-feet	111,092	(11)
33	Average quantity per irrigated acre benefited	acre-feet	0.4	(9)
34	Quantity of water stored underground	acre-feet	110,226	(11)
35	Average quantity per irrigated acre benefited	acre-feet	0.4	(9)
36	Average cost per acre-foot of water stored underground[4]	dollars	2.97	(7)
37	Quantity of water pumped in benefited area	acre-feet	295,520	(8)
38	Average cost of spreading per acre-foot of water pumped in benefited area[5]	dollars	1.09	(7)
	SPREADING WORKS[2]			
39	Diversion dams	total number	21	(10)
40	(*a*) Concrete or rock	number	17	(8)
41	(*b*) Earth	number	4	(3)
42	Canals	total length, miles	129.1	(14)
43		total capacity, sec.-ft.	15,654	(14)
44	(*a*) Earth	length, miles	109.4	(12)
45	(*b*) Concrete or rubble-lined	length, miles	19.7	(7)
46	Pipe lines	total length, miles	37.1	(5)
47	(*a*) Concrete	length, miles	3.0	(4)
48	(*b*) Metal	length, miles	34.1	(2)
49	Storage dams	total number	15	(7)
50	(*a*) Concrete or rock	number	2	(1)
51	(*b*) Earth	number	13	(6)
52	Retard or spreading dams	total number	546	(14)
53	(*a*) Concrete or rock	number	211	(6)
54	(*b*) Earth	number	335	(11)
55	Reservoirs	total number	20	(8)
56		total capacity, acre-feet	172,281	(8)
	IRRIGATION PUMPING PLANTS AND WELLS WITHIN THE BENEFITED AREA			
57	Pumping plants	total number	[6] 3,739	(8)
58	Motive power	total hp.	98,298	(7)
59	(*a*) Electric	number	[6] 3,538	(7)
60		hp.	89,970	(6)
61	(*b*) Internal combustion	number	[6] 194	(7)
62		hp.	7,283	(6)
63	(*c*) Other	number	7	(2)
64		hp.	1,045	(2)
65	Pumps	total number	[7] 3,739	(8)
66		total capacity, g.p.m.	1,488,845	(7)
67	(*a*) Centrifugal	number	[7] 213	(3)
68		capacity, g.p.m.	13,450	(2)
69	(*b*) Turbine	number	[7] 3,525	(7)
70		capacity, g.p.m.	1,474,927	(6)
71	(*c*) Plunger	number	1	(1)
72		capacity, g.p.m.	468	(1)
73	Wells, pumped	number	3,739	(8)
74		yield, g.p.m.	1,322,198	(8)
75	Wells, flowing	number	171	(2)
76		yield, g.p.m.	11,340	(2)

[1] Numbers in parentheses represent the number of enterprises reporting the item or the number of enterprises from which statistics were used in the computation of ratios. [2] Statistics not included in any other table. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Based on charges assessed and quantity of water stored underground. [5] Based on charges assessed and quantity of water pumped in the benefited area. [6] Includes 500 electric motors and 60 internal-combustion engines for which no horsepower was reported. [7] Includes 200 centrifugal and 360 turbine pumps for which no capacity was reported.

CENSUS OF IRRIGATION — CALIFORNIA

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL	PACIFIC OCEAN STREAMS (North of San Francisco Bay)			
				Total[1]	Klamath River		
					Total	Direct (3)	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms	1939...number	125,303	1,785	1,517	299	
2	Area irrigated	1939...acres	5,069,568	116,412	108,172	16,385	
3	(a) Cropland harvested	1939...acres	4,621,791	82,628	75,155	10,016	
4	(b) Crop failure	1939...acres	22,084	97	40	38	
5	(c) Pasture	1939...acres	425,693	33,687	32,977	6,331	
6	Area irrigated	1929...acres	4,746,632	68,270	61,886	.....	
7		1919...acres	4,219,040	66,001	62,535	.....	
8	Increase or decrease (-), 1929-1939	percent	6.8	70.5	74.8	.....	
9	Irrigable area in enterprises	1940...acres	8,039,175	161,324	150,129	21,690	
10		1930...acres	8,075,895	129,808	117,807	.....	
11		1920[2]..acres	7,805,207	146,070	122,853	.....	
12	Excess of irrigable area over the area irrigated	1940...acres	2,969,607	44,912	41,957	5,305	
13		1930...acres	3,329,263	61,538	55,921	.....	
14		1920[2]..acres	3,586,167	80,069	60,318	.....	
15	Area works were capable of supplying with water	1940...acres	7,398,576	135,503	124,542	19,937	
16		1930...acres	6,815,250	104,765	95,250	.....	
17		1920...acres	5,894,466	85,098	70,275	.....	
18	Increase or decrease (-), 1930-1940	percent	8.6	29.3	30.8	.....	
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	2,329,008	19,091	16,370	3,552	
20		1930...acres	2,068,618	36,495	33,364	.....	
21		1920...acres	1,675,426	19,097	7,740	.....	
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	68.5	85.9	86.9	82.2	
23		1929...percent	69.6	65.2	65.0	.....	
24		1919...percent	71.6	77.6	89.0	.....	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises	1940...dollars	318,889,218	5,713,760	5,294,938	664,350	
26	(a) Cost of irrigation works and equipment	1940...dollars	306,729,175	5,668,567	5,250,436	658,970	
27	(b) Investment in water rights (reported)	1940...dollars	12,160,043	45,193	44,502	5,380	
28	Total investment in irrigation enterprises	1930...dollars	[3]310,967,979	4,792,229	4,192,140	.....	
29		1920...dollars	194,886,388	2,378,513	1,690,958	.....	
30	Increase or decrease (-), 1930-1940	percent	2.5	19.2	26.3	.....	
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	43.10	42.17	42.52	33.32	
32		1930...dollars	45.63	45.74	44.01	.....	
33		1920...dollars	33.06	27.95	24.06	.....	
34	Average investment per acre irrigated	1939...dollars	62.90	49.08	48.95	40.55	
35	Estimated final investment in existing enterprises	1940...dollars	327,593,311	6,065,102	5,617,941	667,855	
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	40.75	37.60	37.42	30.79	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation	1939...number	29,200	7,453	836	6	602	6	234	2
38	Area irrigated in these enterprises	1939...acres	4,831,550	439,235	104,646	2,212	96,933	2,212	13,668	(5)
39	Cost of maintenance and operation	1939...dollars	21,229,685	1,620,218	158,910	1,531	112,328	1,531	18,385	(5)
40	Average cost, per acre irrigated	1939...dollars	4.39	3.69	1.52	0.69	1.16	0.69	1.35	(5)
41	Total annual charges (reported)[6] [7]	1939...dollars	12,789,209	252,555	101,703	996	100,453	996	3,111	.....
42	Average annual charge per acre irrigated	1939...dollars	4.24	2.51	2.11	0.60	2.10	0.60	1.52	.....
43	Area against which charges were assessed	1939...acres	4,212,879	96,930	57,225	1,660	56,881	1,660	2,125	.....
44	Average annual charge per acre assessed	1939...dollars	3.04	2.61	1.78	0.60	1.77	0.60	1.46	.....
45	Total charges collected[8]	1939...dollars	10,519,461	403,248	54,568	.....	54,568	.....	1,800	.....
46	Indebtedness to December 31 (reported)[7]	1939...dollars	94,170,982	1,523,911	5,510,753	37,425	5,510,753	37,425	1,074,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered	1939...number	29,476	7,503	625	4	379	4	121	1
48	Area irrigated by these enterprises	1939...acres	4,840,760	414,972	93,841	1,972	86,043	1,972	9,592	(5)
49	Water delivered	1939...acre-feet	12,657,820	761,982	210,931	4,010	197,244	4,010	20,487	(5)
50	Average water delivered per acre irrigated	1939...acre-feet	2.6	1.8	2.2	2.0	2.3	2.0	2.1	(5)
51	Average cost of water per acre irrigated	1939...dollars	5.06	4.00	2.03	0.55	1.65	0.55	1.24	(5)
52	Average cost of water per acre-foot delivered	1939...dollars	1.93	2.18	0.90	0.27	0.72	0.27	0.58	(5)
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage	1939...number	897	.....	31	.....	22	.....	2	.....
54	Irrigable area in these enterprises	1939...acres	2,598,196	.....	47,261	.....	46,735	.....	(5)	.....
55	Irrigated area in these enterprises	1939...acres	1,711,027	.....	33,599	.....	33,289	.....	(5)	.....
56	Area for which drains have been installed	1939...acres	1,509,832	.....	39,582	.....	39,530	.....	(5)	.....
57	Additional area needing drainage	1939...acres	394,963	.....	312	.....	288	.....	.....	.....

[1] Data for 1 enterprise in Illinois River Drainage Basin (2) (number refers to separate map) are included with Pacific Ocean streams total.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Revised.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

PACIFIC OCEAN STREAMS—Continued (North of San Francisco Bay)								SAN FRANCISCO BAY (Other than Sacramento–San Joaquin Delta and Sacramento and San Joaquin Rivers)				
Klamath River—Continued												
Lost River	Shasta River	Scott River	Trinity River	Mad River	Eel River	Russian River	Other coastal streams	Total	Direct	Petaluma Creek	Sonoma Creek	
(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)	(14)	
396	285	227	310	9	32	221	5	4,400	215	4	12	1
31,529	33,631	20,785	5,842	179	941	7,063	46	116,502	1,379	31	378	2
27,901	17,888	15,217	4,133	104	532	6,793	33	108,693	1,337	31	252	3
.....	.....	1	1	.....	.....	57	.....	1,856	35	.....	.....	4
3,628	15,743	5,567	1,708	75	409	213	13	5,953	7	.....	126	5
.....	.....	.....	.....	.....	.....	5,431	.....	99,079	.....	.....	.....	6
.....	.....	.....	.....	.....	.....	3,045	.....	76,947	.....	.....	.....	7
.....	.....	.....	.....	.....	.....	30.0	.....	17.6	.....	.....	.....	8
43,815	52,048	23,276	9,300	271	1,516	9,334	63	165,735	1,806	72	412	9
.....	.....	.....	.....	.....	.....	10,071	.....	111,354	.....	.....	.....	10
.....	.....	.....	.....	.....	.....	12,475	.....	100,730	.....	.....	.....	11
12,286	18,417	2,491	3,458	92	575	2,271	17	49,233	427	41	34	12
.....	.....	.....	.....	.....	.....	4,640	.....	12,275	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	9,430	.....	23,783	.....	.....	.....	14
36,404	36,995	22,678	8,528	214	1,420	9,253	63	163,185	1,793	72	412	15
.....	.....	.....	.....	.....	.....	7,941	.....	107,432	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	4,200	.....	86,779	.....	.....	.....	17
.....	.....	.....	.....	.....	.....	16.5	.....	51.9	.....	.....	.....	18
4,875	3,364	1,893	2,686	35	479	2,190	17	46,683	414	41	34	19
.....	.....	.....	.....	.....	.....	2,510	.....	8,353	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	1,155	.....	9,832	.....	.....	.....	21
86.6	90.9	91.7	68.5	83.6	66.3	76.3	73.0	71.4	76.9	43.1	91.7	22
.....	.....	.....	.....	.....	.....	68.4	.....	92.2	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	72.5	.....	88.7	.....	.....	.....	24
2,249,887	1,902,008	276,517	202,176	7,305	41,957	365,635	3,725	9,346,398	286,694	6,000	31,350	25
2,249,887	1,869,336	270,376	201,867	7,300	41,747	365,159	3,725	9,331,250	286,694	6,000	31,350	26
.....	32,672	6,141	309	5	210	476	.....	15,148	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	534,835	.....	9,405,139	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	162,630	.....	4,940,061	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	-31.6	.....	-0.6	.....	.....	.....	30
61.80	51.41	12.19	23.71	34.14	29.55	39.52	59.13	57.27	159.90	83.33	76.09	31
.....	.....	.....	.....	.....	.....	67.35	.....	87.55	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	38.72	.....	56.93	.....	.....	.....	33
71.36	56.56	13.30	34.61	40.81	44.59	51.77	80.98	80.23	207.90	193.55	82.94	34
2,518,135	1,904,768	299,472	227,711	10,405	46,507	384,324	5,725	9,412,904	286,929	7,000	31,350	35
57.47	36.60	12.87	24.49	38.39	30.68	41.17	90.87	56.79	158.88	97.22	76.09	36
Primary Enterprises	Sup.		Primary Enterprises	Sup.					Primary Enterprises	Sup.			
6	[4] 1	97	116	3	149	5	27	198	4	2,568	3	102	5	11	37
25,624	1,660	33,597	18,781	305	5,563	62	881	6,729	41	114,041	569	1,090	31	317	38
30,016	996	40,141	9,855	435	13,931	502	3,984	41,831	265	887,812	3,794	22,495	665	3,384	39
1.17	0.60	1.19	0.53	1.43	2.50	8.10	4.52	6.22	6.46	7.79	6.67	20.64	21.45	10.68	40
27,802	996	57,700	9,340	.....	2,500	.....	.....	1,250	.....	167,534	.....	10,884	.....	.....	41
1.25	0.60	3.88	1.23	.....	2.48	.....	.....	3.63	.....	9.45	.....	60.13	.....	.....	42
23,905	1,660	22,252	7,591	.....	1,008	.....	.....	344	.....	18,074	.....	229	.....	.....	43
1.16	0.60	2.59	1.23	.....	2.48	.....	.....	3.63	.....	9.27	.....	47.53	.....	.....	44
1,357	.....	42,538	8,873	.....	.....	.....	.....	.....	.....	4,752	.....	3,060	.....	.....	45
1,999,289	37,425	2,365,807	71,657	.....	.....	.....	.....	.....	.....	19,795	.....	.....	.....	.....	46
10	[4] 1	78	73	2	97	8	30	203	4	2,643	2	108	4	12	47
31,529	1,660	30,961	10,565	(5)	3,396	87	821	6,838	41	115,522	(5)	1,261	31	378	48
73,741	3,320	63,589	21,710	(5)	17,717	137	1,055	12,410	65	192,419	(5)	2,474	43	674	49
2.3	2.0	2.1	2.1	(5)	5.2	1.6	1.3	1.8	1.6	1.7	(5)	2.0	1.4	1.8	50
1.17	0.60	2.21	1.04	(5)	2.86	8.10	4.68	6.15	6.46	8.22	(5)	25.74	15.00	10.68	51
0.50	0.30	1.08	0.51	(5)	0.55	5.12	3.64	3.39	4.08	4.93	(5)	13.12	10.81	5.99	52
5	.....	4	7	.....	4	.....	2	6	[4] 1	38	.....	5	1	.....	53
40.795	.....	4,074	762	.....	101	.....	(5)	399	12	15,973	.....	193	(5)	.....	54
28,510	.....	3,456	353	.....	81	.....	(5)	238	6	11,096	.....	192	(5)	.....	55
37,768	.....	1,300	31	.....	9	.....	(5)	50	.....	7,724	.....	117	(5)	.....	56
150	.....	53	60	.....	25	.....	(5)	16	3	5,212	.....	.....	.....	.....	57

[4] Data for less than 3 enterprises shown with permission of the enterprise involved.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SAN FRANCISCO BAY—Continued (Other than Sacramento-San Joaquin Delta and Sacramento and San Joaquin Rivers)						
			Suisun Bay					
		Napa River (15)	Total	Direct (16)	Walnut Creek (17)	Alameda Creek (18)	Santa Clara Valley streams (19)	
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number	175	231	157	74	584	3,179	
2	Area irrigated....1939...acres	2,291	19,198	16,529	2,669	18,723	74,502	
3	(a) Cropland harvested....1939...acres	2,069	12,506	9,857	2,649	18,515	73,983	
4	(b) Crop failure....1939...acres	3	1,560	1,540	20	121	137	
5	(c) Pasture....1939...acres	219	5,132	5,132	.....	87	382	
6	Area irrigated....1929...acres	.....	.....	.....	.....	.....	62,397	
7	1919...acres	.....	.....	.....	.....	.....	54,340	
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	.....	19.4	
9	Irrigable area in enterprises....1940...acres	3,939	26,534	22,788	3,746	28,259	104,713	
10	1930...acres	.....	.....	.....	.....	.....	67,486	
11	1920[1]...acres	.....	.....	.....	.....	.....	65,528	
12	Excess of irrigable area over the area irrigated..1940...acres	1,648	7,336	6,259	1,077	9,536	30,211	
13	1930...acres	.....	.....	.....	.....	.....	5,089	
14	1920[1]...acres	.....	.....	.....	.....	.....	11,188	
15	Area works were capable of supplying with water...1940...acres	3,915	26,439	22,753	3,686	28,075	102,479	
16	1930...acres	.....	.....	.....	.....	.....	66,304	
17	1920...acres	.....	.....	.....	.....	.....	57,534	
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	54.6	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	1,624	7,241	6,224	1,017	9,352	27,977	
20	1930...acres	.....	.....	.....	.....	.....	3,907	
21	1920...acres	.....	.....	.....	.....	.....	3,194	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	58.5	72.6	72.6	72.4	66.7	72.7	
23	1929...percent	.....	.....	.....	.....	.....	94.1	
24	1919...percent	.....	.....	.....	.....	.....	94.4	
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars	253,329	554,158	291,238	262,920	1,182,715	7,032,152	
26	(a) Cost of irrigation works and equipment....1940...dollars	252,719	554,052	291,232	262,820	1,178,565	7,021,870	
27	(b) Investment in water rights (reported)....1940...dollars	610	106	6	100	4,150	10,282	
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	.....	.....	5,021,248	
29	1920...dollars	.....	.....	.....	.....	.....	3,336,187	
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	40.0	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	64.71	20.96	12.80	71.33	42.13	68.62	
32	1930...dollars	.....	.....	.....	.....	.....	75.73	
33	1920...dollars	.....	.....	.....	.....	.....	57.99	
34	Average investment per acre irrigated....1939...dollars	110.58	28.87	17.62	98.51	63.17	94.39	
35	Estimated final investment in existing enterprises..1940...dollars	258,489	580,518	317,488	263,030	1,189,605	7,059,013	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	65.62	21.88	13.93	70.22	42.10	67.41	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	116	208	134	74	480	1,646	3
38	Area irrigated in these enterprises....1939...acres	2,009	19,045	16,394	2,651	18,143	73,406	569
39	Cost of maintenance and operation....1939...dollars	14,087	54,212	28,951	25,261	126,798	666,171	3,794
40	Average cost, per acre irrigated....1939...dollars	7.01	2.85	1.77	9.53	6.99	9.08	6.67
41	Total annual charges (reported)[3 4]....1939...dollars	.....	197	197	.....	3,914	152,539	.....
42	Average annual charge per acre irrigated....1939...dollars	.....	4.92	4.92	.....	2.35	9.63	.....
43	Area against which charges were assessed....1939...acres	.....	40	40	.....	1,669	16,136	.....
44	Average annual charge per acre assessed....1939...dollars	.....	4.92	4.92	.....	2.35	9.45	.....
45	Total charges collected[3]....1939...dollars	.....	.....	.....	.....	.....	1,692	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	.....	.....	.....	.....	19,795	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number	163	215	144	71	499	1,642	2
48	Area irrigated by these enterprises....1939...acres	2,206	18,888	16,373	2,515	18,713	74,045	[2]
49	Water delivered....1939...acre-feet	3,835	50,832	46,426	4,406	31,602	102,959	[2]
50	Average water delivered per acre irrigated....1939...acre-feet	1.7	2.7	2.8	1.8	1.7	1.4	[2]
51	Average cost of water per acre irrigated....1939...dollars	6.91	2.84	1.73	9.97	7.01	9.65	[2]
52	Average cost of water per acre-foot delivered..1939...dollars	3.97	1.05	0.61	5.69	4.15	6.94	[2]
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number	13	7	7	.....	4	8	.....
54	Irrigable area in these enterprises....1939...acres	574	14,148	14,148	.....	279	772	.....
55	Irrigated area in these enterprises....1939...acres	343	9,857	9,857	.....	114	583	.....
56	Area for which drains have been installed....1939...acres	215	7,232	7,232	.....	16	137	.....
57	Additional area needing drainage....1939...acres	83	5,000	5,000	.....	125	4	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Total	Pajaro and San Benito Rivers (20)	Salinas River (21)	Santa Maria River (22)	San Antonio River (23)	Santa Ynez River (24)	Ventura River (25)	
			PACIFIC OCEAN STREAMS (South of San Francisco Bay)				
43,351	1,483	1,198	201	11	166	284	1
790,017	53,062	103,818	25,236	721	11,681	4,011	2
778,540	52,702	102,268	24,398	646	10,579	3,871	3
3,086	141	233	161	.....	331	.....	4
8,391	219	1,317	677	75	771	140	5
739,670	43,519	77,266	21,818	.....	11,869	.....	6
543,385	19,771	48,097	9,623	.....	3,491	.....	7
6.8	21.9	34.4	15.7	.....	-1.6	.....	8
1,121,672	69,748	111,990	29,961	781	14,950	4,690	9
979,574	51,310	88,587	23,939	.....	18,522	.....	10
831,490	33,620	60,989	22,903	.....	10,082	.....	11
331,655	36,686	8,172	4,725	60	3,269	679	12
239,904	7,791	11,331	2,121	.....	6,653	.....	13
288,105	13,849	12,892	13,280	.....	6,591	.....	14
1,094,207	83,213	111,570	29,185	756	14,764	4,654	15
918,956	49,013	85,437	23,779	.....	16,695	.....	16
662,847	25,769	57,456	20,460	.....	9,645	.....	17
19.1	69.8	30.6	22.7	.....	-11.6	.....	18
304,190	30,151	7,752	3,949	35	3,083	643	19
179,286	5,494	8,171	1,961	.....	4,826	.....	20
119,462	5,998	9,359	10,837	.....	6,154	.....	21
72.2	63.8	93.1	86.5	95.4	79.1	86.2	22
80.5	88.8	90.4	91.8	.....	71.1	.....	23
82.0	76.7	83.7	47.0	.....	36.2	.....	24
100,761,225	3,367,947	5,936,503	1,160,535	33,750	566,836	688,758	25
93,214,281	3,363,367	5,934,103	1,160,335	33,750	566,693	687,998	26
7,546,944	4,580	2,400	200	.....	143	760	27
93,601,386	2,970,981	4,774,377	1,044,252	.....	3,606,837	.....	28
53,456,601	1,248,343	2,570,331	573,194	.....	284,037	.....	29
7.6	13.4	24.3	11.1	.....	-84.3	.....	30
92.09	40.47	53.21	39.76	44.64	38.39	147.99	31
58.17	60.62	55.88	43.91	.....	216.04	.....	32
80.65	48.44	44.74	28.02	.....	29.45	.....	33
127.54	63.47	57.18	45.99	46.81	48.53	171.72	34
101,898,894	3,731,182	5,977,697	1,161,585	33,750	583,920	695,258	35
90.85	41.57	53.38	38.77	43.21	39.06	148.24	36
Primary Enterprises / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	
8,165 / 169	1,107 / 7	840 / 21	186 / 2	11 / 1	139 / 1	74 / 4	37
730,444 / 45,402	52,045 / 317	102,477 / 2,003	24,587 / (2)	721 / (2)	11,599 / (2)	3,935 / 56	38
6,115,383 / 224,834	323,258 / 1,910	671,861 / 14,535	177,874 / (2)	4,880 / (2)	60,587 / (2)	40,532 / 1,010	39
8.37 / 4.95	6.21 / 6.03	6.56 / 7.26	7.23 / (2)	6.77 / (2)	5.22 / (2)	10.30 / 18.04	40
4,512,728 / 192,547	24,312 /	25,801 /	..... /	..... /	1,200 /	16,586 /	41
11.91 / 5.64	6.81 /	4.96 /	..... /	..... /	12.00 /	9.09 /	42
447,112 / 34,422	21,490 /	5,270 /	..... /	..... /	100 /	2,139 /	43
10.09 / 5.59	1.13 /	4.90 /	..... /	..... /	12.00 /	7.75 /	44
3,348,715 / 357,734	15,764 /	24,275 /	..... /	..... /	606 /	17,719 /	45
14,886,308 / 1,334,758	..... /	10,334 /	..... /	..... /	..... /	1,600 /	46
8,391 / 169	1,114 / 7	854 / 23	188 / 2	11 / 1	142 /	75 / 4	47
779,080 / 28,584	52,845 / 317	103,598 / 2,010	24,770 / (2)	721 / (2)	11,581 /	3,696 / 56	48
1,453,282 / 55,534	80,667 / 301	252,148 / 5,153	69,667 / (2)	1,898 / (2)	19,161 /	6,008 / 76	49
1.9 / 1.9	1.5 / 0.9	2.4 / 2.6	2.8 / (2)	2.6 / (2)	1.7 /	1.6 / 1.4	50
9.59 / 7.60	6.27 / 6.03	6.50 / 7.26	7.21 / (2)	6.77 / (2)	5.21 /	12.95 / 18.04	51
5.14 / 3.91	4.11 / 6.35	2.67 / 2.83	2.56 / (2)	2.57 / (2)	3.15 /	7.97 / 13.29	52
363 /	45 /	85 /	2 /	..... /	4 /	..... /	53
80,567 /	3,065 /	9,440 /	(2) /	..... /	586 /	..... /	54
60,530 /	2,423 /	8,791 /	(2) /	..... /	586 /	..... /	55
39,322 /	1,783 /	6,029 /	..... /	..... /	215 /	..... /	56
3,569 /	143 /	1,101 /	(2) /	..... /	19 /	..... /	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)							
		Santa Clara River and Calleguas Creek[1] (26)		Los Angeles and San Gabriel Rivers (27)		Santa Ana River (28)		Santa Margarita River (29)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	1,654		11,835		18,534		192	
2	Area irrigated....1939...acres....	85,764		158,870		258,653		4,139	
3	(a) Cropland harvested....1939...acres....	85,332		157,983		254,695		3,982	
4	(b) Crop failure....1939...acres....	261		213		908		59	
5	(c) Pasture....1939...acres....	171		674		3,050		98	
6	Area irrigated....1929...acres....	61,492		172,263		246,899		.....	
7	1919...acres....	28,270		186,218		185,508		.....	
8	Increase or decrease (-), 1929-1939....percent....	.....		-7.8		4.8		.....	
9	Irrigable area in enterprises....1940...acres....	117,224		253,400		353,674		6,803	
10	1930...acres....	74,691		244,266		303,570		.....	
11	1920[4]...acres....	43,205		244,394		281,630		.....	
12	Excess of irrigable area over the area irrigated..1940...acres....	31,460		94,530		95,021		2,664	
13	1930...acres....	13,199		72,003		56,671		.....	
14	1920[4]...acres....	14,935		58,176		96,122		.....	
15	Area works were capable of supplying with water...1940...acres....	115,139		251,794		343,843		6,487	
16	1930...acres....	69,288		231,391		291,530		.....	
17	1920...acres....	30,216		218,628		218,735		.....	
18	Increase or decrease (-), 1930-1940....percent....	.....		8:8		17.9		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	29,375		92,924		85,190		2,348	
20	1930...acres....	7,796		59,128		44,631		.....	
21	1920...acres....	1,946		32,410		33,227		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	74.5		63.1		75.2		63.8	
23	1929...percent....	88.7		74.4		84.7		.....	
24	1919...percent....	93.6		85.2		84.8		.....	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	8,577,686		18,637,170		36,111,047		951,762	
26	(a) Cost of irrigation works and equipment....1940...dollars....	8,247,958		17,721,573		30,480,067		451,761	
27	(b) Investment in water rights (reported)....1940...dollars....	329,728		915,597		5,630,980		500,001	
28	Total investment in irrigation enterprises....1930...dollars....	5,422,200		27,835,206		27,092,533		.....	
29	1920...dollars....	2,211,473		18,370,719		19,918,550		.....	
30	Increase or decrease (-), 1930-1940....percent....	.....		-33.0		33.3		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	74.50		74.02		105.02		146.72	
32	1930...dollars....	78.26		120.30		92.93		.....	
33	1920...dollars....	73.19		84.03		91.06		.....	
34	Average investment per acre irrigated....1939...dollars....	100.01		117.31		139.61		229.95	
35	Estimated final investment in existing enterprises..1940...dollars....	8,783,571		18,707,000		36,227,294		998,842	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	74.93		73.82		102.43		146.82	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number....	533	17	1,138	15	1,775	28	148	1
38	Area irrigated in these enterprises....1939...acres....	84,365	4,376	115,803	5,358	249,818	16,471	4,075	(5)
39	Cost of maintenance and operation....1939...dollars....	626,314	56,720	1,254,604	56,357	2,146,687	38,571	36,192	(5)
40	Average cost, per acre irrigated....1939...dollars....	7.42	12.96	10.83	10.52	8.59	2.34	8.88	(5)
41	Total annual charges (reported)[6] [7]....1939...dollars....	258,055	27,752	1,366,667	51,995	2,248,850	79,328	13,124	.....
42	Average annual charge per acre irrigated....1939...dollars....	9.47	18.27	11.36	11.76	12.37	5.17	9.41	.....
43	Area against which charges were assessed....1939...acres....	28,178	1,519	124,021	4,422	202,273	15,667	1,395	.....
44	Average annual charge per acre assessed....1939...dollars....	9.16	18.27	11.02	11.76	11.12	5.06	9.41	.....
45	Total charges collected[6]....1939...dollars....	179,688	18,635	915,850	51,116	1,587,508	78,347	13,000	.....
46	Indebtedness to December 31 (reported)[7]....1939...dollars....	166,806	.....	1,215,642	117,936	4,392,315	312,322	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	540	14	1,155	14	1,871	27	139	1
48	Area irrigated by these enterprises....1939...acres....	85,256	2,891	156,993	2,929	253,356	16,542	3,980	(5)
49	Water delivered....1939...acre-feet..	153,785	3,697	250,890	3,439	479,421	39,751	7,143	(5)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	1.3	1.6	1.2	1.9	2.4	1.8	(5)
51	Average cost of water per acre irrigated....1939...dollars....	7.68	14.97	10.79	21.02	11.01	5.29	8.66	(5)
52	Average cost of water per acre-foot delivered..1939...dollars....	4.26	11.11	6.75	17.91	5.82	2.20	4.82	(5)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	63	.....	32	.....	70	.....	2	.....
54	Irrigable area in these enterprises....1939...acres....	27,660	.....	4,101	.....	26,496	.....	(5)	.....
55	Irrigated area in these enterprises....1939...acres....	15,764	.....	2,949	.....	23,938	.....	(5)	.....
56	Area for which drains have been installed....1939...acres....	20,457	.....	1,142	.....	7,484	.....	(5)	.....
57	Additional area needing drainage....1939...acres....	1,015	.....	85	.....	728	.....	.....	.....

[1] 1930 and 1920 data for Santa Clara River only, therefore percentages are not shown.
[2] Miscellaneous coastal streams north of Santa Maria River to San Francisco.
[3] Miscellaneous coastal streams south of Santa Ynez River to Santa Margarita River.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)							SACRAMENTO-SAN JOAQUIN DELTA	
San Luis Rey River (30)	San Dieguito River (31)	San Diego River (32)	Sweetwater River (33)	Otay and Tia Juana Rivers (34)	Other coastal streams (north) [2] (35)	Other coastal streams (south) [3] (36)	Total	
2,373	1,828	1,462	835	331	772	792	66,363	1
17,385	13,445	10,489	5,162	3,541	20,074	13,966	3,371,960	2
17,163	13,362	10,290	5,150	3,068	19,212	13,819	3,063,033	3
10	40	85	1	48	553	42	11,521	4
212	43	114	11	405	309	105	297,406	5
.....	.....	9,078	.....	.....	.....	.....	3,157,132	6
.....	.....	8,812	.....	.....	.....	.....	2,744,644	7
.....	.....	15.5	.....	.....	.....	.....	6.8	8
32,236	24,711	19,633	5,463	5,480	24,844	26,084	5,636,102	9
.....	.....	18,301	.....	.....	.....	.....	5,393,666	10
.....	.....	14,039	.....	.....	.....	.....	5,499,735	11
14,851	11,266	9,144	301	1,939	4,770	12,118	2,264,142	12
.....	.....	9,223	.....	.....	.....	.....	2,236,534	13
.....	.....	5,227	.....	.....	.....	.....	2,755,091	14
31,339	24,532	18,176	5,424	5,390	23,626	24,315	5,108,599	15
.....	.....	17,865	.....	.....	.....	.....	4,795,836	16
.....	.....	10,789	.....	.....	.....	.....	4,113,524	17
.....	.....	1.7	.....	.....	.....	.....	6.5	18
13,954	11,087	7,687	262	1,849	3,552	10,349	1,736,639	19
.....	.....	8,787	.....	.....	.....	.....	1,638,704	20
.....	.....	1,977	.....	.....	.....	.....	1,368,880	21
55.5	54.8	57.7	95.2	65.7	85.0	57.4	66.0	22
.....	.....	50.8	.....	.....	.....	.....	65.8	23
.....	.....	81.7	.....	.....	.....	.....	66.5	24
4,212,983	2,502,857	5,210,892	7,639,011	478,277	1,450,829	3,234,382	169,471,616	25
4,205,856	2,498,797	5,210,892	7,530,136	476,277	1,445,662	3,199,056	165,880,975	26
7,127	4,060	.....	108,875	2,000	5,167	35,326	3,590,641	27
.....	.....	3,192,381	.....	.....	.....	.....	164,628,093	28
.....	.....	1,789,124	.....	.....	.....	.....	100,527,759	29
.....	.....	63.2	.....	.....	.....	.....	2.9	30
134.43	102.02	286.69	1,408.37	88.73	61.41	133.02	33.17	31
.....	.....	178.69	.....	.....	.....	.....	34.33	32
.....	.....	165.83	.....	.....	.....	.....	24.52	33
242.33	186.16	496.80	1,479.85	135.07	72.27	231.59	50.26	34
4,372,338	2,538,382	5,240,963	7,642,611	485,002	1,458,304	3,261,195	175,836,694	35
135.64	102.72	266.95	1,398.98	88.50	58.70	125.03	31.20	36
Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	
341	9	222	34	438	12	48	6	200	2	615	370	9	16,040	7,261	37
16,928	13,215	13,228	1,327	10,205	254	5,046	125	3,311	(5)	19,015	13,286	1,178	3,227,470	384,497	38
101,493	36,969	87,827	8,044	136,971	2,613	107,501	1,338	26,869	(5)	163,646	148,287	3,575	11,627,200	1,357,820	39
6.00	2.80	6.64	6.06	13.42	10.29	21.30	10.70	8.12	(5)	8.61	11.16	3.03	3.60	3.53	40
119,888	33,472	205,746	.....	77,375	.....	89,107	.....	1,521	.....	5,989	58,507	.....	5,978,229	34,892	41
11.38	2.61	19,57	.....	13.36	.....	19.51	.....	5.74	.....	2.73	15.48	.....	2.89	0.59	42
20,228	12,814	16,874	.....	14,091	.....	4,568	.....	425	.....	2,220	3,840	.....	3,026,228	55,230	43
5.93	2.61	12.19	.....	5.49	.....	19.51	.....	3.58	.....	2.70	15.24	.....	1.96	0.63	44
71,769	209,636	123,750	.....	218,389	.....	89,107	.....	3,280	.....	315	87,695	.....	5,149,590	22,140	45
979,499	904,500	664,573	.....	1,368,260	.....	5,460,500	.....	3,700	.....	.....	623,079	.....	56,273,276	139,000	46
340	8	209	33	450	15	53	6	215	2	646	389	12	16,096	7,313	47
16,788	404	12,866	1,027	10,414	323	5,162	125	3,524	(5)	19,767	13,763	1,247	3,185,364	377,491	48
24,621	139	16,716	583	15,692	293	6,777	267	10,271	(5)	37,609	20,788	966	8,708,832	693,453	49
1.5	0.3	1.3	0.6	1.5	0.9	1.3	2.1	2.9	(5)	1.9	1.5	0.8	2.7	1.8	50
10.28	9.86	17.72	3.35	12.54	10.29	18.93	10.70	7.84	(5)	8.62	13.12	3.03	4.04	3.73	51
7.01	28.41	13.64	5.89	8.33	11.36	14.42	5.01	2.69	(5)	4.53	8.68	3.92	1.48	2.03	52
7	.....	7	.....	3	.....	.....	.....	2	.....	18	23	.....	449	.....	53
2,451	.....	486	.....	55	.....	.....	.....	(5)	.....	813	2,751	.....	1,897,086	.....	54
1,749	.....	361	.....	31	.....	.....	.....	(5)	.....	572	1,474	.....	1,181,520	.....	55
690	.....	54	.....	16	.....	.....	.....	(5)	.....	313	728	.....	1,213,586	.....	56
73	.....	28	.....	14	.....	.....	.....	(5)	.....	106	4	.....	60,179	.....	57

[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued			
		Sacramento River			
			Upper Sacramento River		
		Direct (37)	Total[1]	Total	Direct (38)
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms.....1939...number.....	1,904	15,582	2,859	874
2	Area irrigated.....1939...acres.....	245,691	757,446	138,364	14,423
3	(a) Cropland harvested.....1939...acres.....	238,636	657,387	98,786	11,581
4	(b) Crop failure.....1939...acres.....	1,012	5,468	403	11
5	(c) Pasture.....1939...acres.....	6,043	94,591	39,175	2,831
6	Area irrigated.....1929...acres.....	.....	696,824	.....	.....
7	1919...acres.....	.....	640,950	.....	.....
8	Increase or decrease (-), 1929-1939.....percent....	.....	8.7	.....	.....
9	Irrigable area in enterprises.....1940...acres.....	337,304	1,683,768	231,336	37,754
10	1930...acres.....	.....	1,554,698	.....	.....
11	1920[2]..acres.....	.....	1,204,769	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres.....	91,613	926,322	92,972	23,331
13	1930...acres.....	.....	857,774	.....	.....
14	1920[2]..acres.....	.....	563,819	.....	.....
15	Area works were capable of supplying with water...1940...acres.....	333,376	1,368,187	217,525	37,704
16	1930...acres.....	.....	1,176,770	.....	.....
17	1920...acres.....	.....	864,605	.....	.....
18	Increase or decrease (-), 1930-1940.....percent....	.....	16.3	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	87,685	610,741	79,161	23,281
20	1930...acres.....	.....	479,846	.....	.....
21	1920...acres.....	.....	223,655	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	73.7	55.4	63.6	38.3
23	1929...percent....	.....	59.2	.....	.....
24	1919...percent....	.....	74.1	.....	.....
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises.....1940...dollars....	5,809,300	44,525,264	5,239,691	1,452,961
26	(a) Cost of irrigation works and equipment.....1940...dollars....	5,807,746	43,105,005	5,170,795	1,452,542
27	(b) Investment in water rights (reported).....1940...dollars....	1,554	1,420,259	68,896	419
28	Total investment in irrigation enterprises.....1930...dollars....	.....	48,750,541	.....	.....
29	1920...dollars....	.....	28,833,106	.....	.....
30	Increase or decrease (-), 1930-1940.....percent....	.....	-8.7	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	17.43	32.54	24.09	38.54
32	1930...dollars....	.....	41.43	.....	.....
33	1920...dollars....	.....	33.35	.....	.....
34	Average investment per acre irrigated.....1939...dollars....	23.64	58.78	37.87	100.74
35	Estimated final investment in existing enterprises..1940...dollars....	5,873,307	47,475,230	5,350,982	1,455,342
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	17.41	28.20	23.13	38.55
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.
37	Enterprises reporting maintenance and operation...1939...number.....	684 / 11	4,622 / 59	1,003 / 19	159 / 4
38	Area irrigated in these enterprises.....1939...acres.....	170,538 / 22,950	724,241 / 16,164	127,845 / 12,999	14,099 / 96
39	Cost of maintenance and operation.....1939...dollars....	504,342 / 6,701	2,609,208 / 12,144	230,737 / 2,778	49,416 / 472
40	Average cost, per acre irrigated.....1939...dollars....	2.96 / 0.29	3.60 / 0.76	1.80 / 0.21	3.50 / 4.92
41	Total annual charges (reported)[4] [5].....1939...dollars....	315,488 / 5,329	1,349,910 / 15,360	144,125 / 15,360	50,266 / .....
42	Average annual charge per acre irrigated.....1939...dollars....	5.07 / 0.23	3.17 / 1.24	2.90 / 1.24	5.55 / .....
43	Area against which charges were assessed.....1939...acres.....	87,196 / 22,743	835,583 / 12,387	84,753 / 12,387	27,740 / .....
44	Average annual charge per acre assessed.....1939...dollars....	3.62 / 0.23	1.62 / 1.24	1.70 / 1.24	1.81 / .....
45	Total charges collected[4].....1939...dollars....	282,500 / 5,323	1,197,880 / 15,400	106,803 / 15,400	46,912 / .....
46	Indebtedness to December 31 (reported)[5].....1939...dollars....	2,191,863 /	13,261,459 / 139,000	1,922,900 / 139,000	1,121,000 / .....
	WATER DELIVERED TO IRRIGATORS, 1939				
47	Enterprises reporting water delivered.....1939...number.....	772 / 8	4,678 / 55	869 / 17	146 / 4
48	Area irrigated by these enterprises.....1939...acres.....	210,047 / 22,943	695,988 / 16,264	105,710 / 13,085	12,420 / 96
49	Water delivered.....1939...acre-feet..	493,991 / 21,184	2,474,591 / 20,679	242,981 / 13,353	19,465 / 150
50	Average water delivered per acre irrigated.....1939...acre-feet..	2.4 / 0.9	3.6 / 1.3	2.3 / 1.0	1.6 / 1.6
51	Average cost of water per acre irrigated.....1939...dollars....	3.28 / 0.28	3.68 / 1.63	2.05 / 1.30	5.48 / 4.82
52	Average cost of water per acre-foot delivered..1939...dollars....	1.40 / 0.31	1.04 / 1.28	0.89 / 1.27	3.49 / 3.15
	DRAINAGE OF IRRIGATED LAND				
53	Enterprises reporting land drained or needing drainage.....1939...number.....	196 /	152 /	53 /	11 / .....
54	Irrigable area in these enterprises.....1939...acres.....	218,350 /	675,229 /	14,798 /	698 / .....
55	Irrigated area in these enterprises.....1939...acres.....	158,807 /	273,817 /	11,909 /	672 / .....
56	Area for which drains have been installed.....1939...acres.....	171,953 /	536,104 /	8,407 /	7 / .....
57	Additional area needing drainage.....1939...acres.....	9,522 /	22,746 /	536 /	139 / .....

[1] 1930 and 1920 data include an unidentified portion of the Sacramento-San Joaquin Delta which was not considered as a separate drainage basin in those years.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND,- 1939—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued

Sacramento River—Continued

Upper Sacramento River—Continued

Pit River			Clear Creek (41)	Cow Creek (42)	Bear Creek (43)	Cottonwood Creek (44)	Battle Creek (45)	Paynes Creek (46)	
Total	Direct (39)	Goose Lake (40)							
570	487	83	22	163	37	155	55	6	1
82,459	76,226	6,233	628	5,686	1,523	2,470	4,028	387	2
59,401	54,252	5,149	391	2,301	588	2,275	747	157	3
2	1	1	.....	106	1	.....	.....	100	4
23,056	21,973	1,083	237	3,279	934	195	3,281	130	5
69,768	.....	.....	.....	5,122	.....	2,446	4,570	.....	6
89,984	.....	.....	.....	6,068	.....	2,972	2,966	.....	7
18.2	.....	.....	.....	11.0	.....	1.0	-11.9	.....	8
121,879	98,305	23,574	1,449	6,910	1,817	10,846	6,611	730	9
94,151	.....	.....	.....	5,877	.....	13,971	6,352	.....	10
129,984	.....	.....	.....	12,488	.....	21,016	6,590	.....	11
39,420	22,079	17,341	821	1,224	294	8,376	2,583	343	12
24,383	.....	.....	.....	755	.....	11,525	1,782	.....	13
40,000	.....	.....	.....	6,420	.....	18,044	3,624	.....	14
113,972	91,070	22,902	1,231	6,883	1,817	5,723	6,191	730	15
83,058	.....	.....	.....	5,757	.....	6,738	5,824	.....	16
107,478	.....	.....	.....	7,446	.....	4,112	5,108	.....	17
37.2	.....	.....	.....	19.6	.....	-15.1	6.3	.....	18
31,513	14,844	16,669	603	1,197	294	3,253	2,163	343	19
13,290	.....	.....	.....	635	.....	4,292	1,254	.....	20
17,494	.....	.....	.....	1,378	.....	1,140	2,142	.....	21
72.4	83.7	27.2	51.0	82.6	83.8	43.2	65.1	53.0	22
84.0	.....	.....	.....	89.0	.....	36.3	78.5	.....	23
83.7	.....	.....	.....	81.5	.....	72.3	58.1	.....	24
1,400,476	1,313,605	86,871	35,967	118,795	29,227	827,179	68,651	15,005	25
1,340,116	1,257,865	82,251	35,967	116,034	28,312	827,179	64,280	15,000	26
60,360	55,740	4,620	.....	2,761	915	.....	4,371	5	27
982,284	.....	.....	.....	89,260	.....	821,779	87,685	.....	28
799,913	.....	.....	.....	126,946	.....	573,601	95,139	.....	29
42.6	.....	.....	.....	33.1	.....	0.7	-21.7	.....	30
12.29	14.42	3.79	29.22	17.26	16.09	144.54	11.09	20.55	31
11.83	.....	.....	.....	15.50	.....	121.96	15.06	.....	32
7.44	.....	.....	.....	17.05	.....	139.49	18.63	.....	33
16.98	17.23	13.94	57.27	20.89	19.19	334.89	17.04	38.77	34
1,461,996	1,374,030	87,966	38,667	119,570	29,227	832,829	68,651	15,005	35
12.00	13.98	3.73	26.69	17.30	16.09	76.79	10.38	20.55	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
324	2	277	2	47	12	2	84	29	1	25	3	42	6	1	37
73,760	(3)	67,743	(3)	6,017	601	(3)	4,978	1,506	(3)	2,470	11	3,945	387	(3)	38
37,855	(3)	36,100	(3)	1,755	1,114	(3)	5,477	1,093	(3)	19,469	35	1,568	1,195	(3)	39
0.51	(3)	0.53	(3)	0.29	1.85	(3)	1.10	0.73	(3)	7.88	3.18	0.40	3.09	(3)	40
12,577	15,360	12,535	15,360	42	672	.....	729	100	.....	17,573	.....	20	.....	.....	41
0.72	1.24	0.73	1.24	0.11	1.40	.....	0.51	0.51	.....	8.79	.....	0.05	.....	.....	42
23,598	12,387	23,223	12,387	375	480	.....	1,560	197	.....	2,500	.....	420	.....	.....	43
0.53	1.24	0.54	1.24	0.11	1.40	.....	0.47	0.51	.....	7.03	.....	0.05	.....	.....	44
6,970	15,400	6,970	15,400	.....	.....	.....	591	.....	.....	.....	.....	.....	.....	.....	45
45,000	139,000	45,000	139,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
270	2	222	2	48	12	1	52	18	1	16	2	27	5	1	47
71,227	(3)	65,299	(3)	5,928	609	(3)	2,536	10.33	(3)	2,197	(3)	3,213	375	(3)	48
163,386	(3)	146,868	(3)	16,518	2,299	(3)	12,850	4,855	(3)	3,270	(3)	6,305	755	(3)	49
2.3	(3)	2.2	(3)	2.8	3.8	(3)	5.1	4.7	(3)	1.5	(3)	2.0	2.0	(3)	50
0.54	(3)	0.57	(3)	0.30	1.85	(3)	1.27	0.43	(3)	8.31	(3)	0.23	3.05	(3)	51
0.24	(3)	0.25	(3)	0.11	0.49	(3)	0.25	0.09	(3)	5.58	(3)	0.12	1.52	(3)	52
35	.....	35	.....	.....	.....	.....	.....	4	.....	.....	.....	3	.....	.....	53
13,244	.....	13,244	.....	.....	.....	.....	.....	479	.....	.....	.....	377	.....	.....	54
10,411	.....	10,411	.....	.....	.....	.....	.....	474	.....	.....	.....	352	.....	.....	55
8,400	.....	8,400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
340	.....	340	.....	.....	.....	.....	.....	26	.....	.....	.....	31	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued				
		Sacramento River—Continued				
		Upper Sacramento River—Continued				Middle Sacramento River
		Redbank Creek group (47)	Antelope and Mill Creeks (48)	Thomas Creek (49)	Deer Creek (50)	Total
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	160	374	373	70	6,449
2	Area irrigated....1939...acres	3,467	9,282	8,238	5,773	484,266
3	(a) Cropland harvested....1939...acres	2,096	8,623	5,903	4,723	432,477
4	(b) Crop failure....1939...acres	100	.....	83	.....	4,062
5	(c) Pasture....1939...acres	1,271	659	2,252	1,050	47,727
6	Area irrigated....1929...acres	.....	.....	.....	.....	.....
7	1919...acres	.....	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	.....
9	Irrigable area in enterprises....1940...acres	9,215	12,918	12,987	8,220	1,142,387
10	1930...acres	.....	.....	.....	.....	.....
11	1920[1]...acres	.....	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	5,748	3,636	4,749	2,447	658,121
13	1930...acres	.....	.....	.....	.....	.....
14	1920[1]...acres	.....	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres	9,215	12,918	12,921	8,220	902,733
16	1930...acres	.....	.....	.....	.....	.....
17	1920...acres	.....	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	5,748	3,636	4,683	2,447	418,467
20	1930...acres	.....	.....	.....	.....	.....
21	1920...acres	.....	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	37.6	71.9	63.8	70.2	53.6
23	1929...percent	.....	.....	.....	.....	.....
24	1919...percent	.....	.....	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	567,715	248,139	389,676	85,900	29,450,495
26	(a) Cost of irrigation works and equipment....1940...dollars	567,715	248,139	389,611	85,900	28,544,266
27	(b) Investment in water rights (reported)....1940...dollars	.....	.....	65	.....	906,229
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	.....	.....
29	1920...dollars	.....	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	61.61	19.21	30.16	10.45	32.62
32	1930...dollars	.....	.....	.....	.....	.....
33	1920...dollars	.....	.....	.....	.....	.....
34	Average investment per acre irrigated....1939...dollars	163.75	26.73	47.30	14.88	60.81
35	Estimated final investment in existing enterprises..1940...dollars	595,730	248,139	389,926	95,900	32,268,764
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	64.65	19.21	30.02	11.67	28.25
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	14	13 / 1	288 / 5	7	1,813 / 22
38	Area irrigated in these enterprises....1939...acres	3,467	9,282 / (2)	7,617 / 217	5,733	465,645 / 2,187
39	Cost of maintenance and operation....1939...dollars	23,590	30,232 / (2)	55,433 / 605	4,295	1,634,557 / 7,333
40	Average cost, per acre irrigated....1939...dollars	6.80	3.26 / (2)	7.28 / 2.79	0.75	3.51 / 3.35
41	Total annual charges (reported)[3] [4]....1939...dollars	14,800	29,750 /	7,247 /	10,391	1,028,593 / .....
42	Average annual charge per acre irrigated....1939...dollars	4.51	3.63 /	5.08 /	1.87	3.08 / .....
43	Area against which charges were assessed....1939...acres	7,400	8,500 /	4,452 /	7,906	660,668 / .....
44	Average annual charge per acre assessed....1939...dollars	2.00	3.50 /	1.63 /	1.31	1.56 / .....
45	Total charges collected[3]....1939...dollars	11,282	30,794 /	974 /	9,280	866,315 / .....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	700,000	52,000 /	1,400 /	3,500	9,592,055 / .....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number	12	10 / 1	295 / 5	6	1,935 / 21
48	Area irrigated by these enterprises....1939...acres	3,366	987 / (2)	7,414 / 217	333	459,445 / 2,237
49	Water delivered....1939...acre-feet	5,978	2,080 / (2)	21,033 / 132	705	1,842,716 / 5,700
50	Average water delivered per acre irrigated....1939...acre-feet	1.8	2.1 / (2)	2.8 / 0.6	2.1	4.0 / 2.5
51	Average cost of water per acre irrigated....1939...dollars	4.68	1.47 / (2)	7.76 / 2.79	5.15	3.55 / 3.32
52	Average cost of water per acre-foot delivered..1939...dollars	2.63	0.70 / (2)	2.73 / 4.58	2.43	0.89 / 1.30
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number	.....	..... /	..... /	.....	69 / .....
54	Irrigable area in these enterprises....1939...acres	.....	..... /	..... /	.....	574,652 / .....
55	Irrigated area in these enterprises....1939...acres	.....	..... /	..... /	.....	241,627 / .....
56	Area for which drains have been installed....1939...acres	.....	..... /	..... /	.....	463,760 / .....
57	Additional area needing drainage....1939...acres	.....	..... /	..... /	.....	22,025 / .....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued

Sacramento River—Continued

Middle Sacramento River—Continued

Direct (51)	Rock Creek (52)	Stony Creek (53)	Chico Creek (54)	Butte Creek (55)	West side streams (56)	Feather River		
						Total	Direct (57)	
1,899	92	746	140	818	91	4,663	2,629	1
245,884	4,193	17,468	8,271	12,546	4,657	191,247	134,681	2
239,160	2,837	16,849	6,036	9,971	3,519	154,105	109,802	3
419	.....	14	4	.....	50	3,575	1,756	4
6,305	1,356	605	2,231	2,575	1,088	33,567	23,123	5
.....	.....	15,898	.....	.....	.....	173,350	.....	6
.....	.....	23,559	.....	.....	.....	162,314	.....	7
.....	.....	9.9	.....	.....	.....	10.3	.....	8
513,116	5,343	23,698	36,761	27,408	7,306	528,755	301,606	9
.....	.....	25,218	.....	.....	.....	540,530	.....	10
.....	.....	45,143	.....	.....	.....	255,830	.....	11
267,232	1,150	6,230	28,490	14,862	2,649	337,508	166,925	12
.....	.....	9,320	.....	.....	.....	367,180	.....	13
.....	.....	21,584	.....	.....	.....	93,516	.....	14
502,948	5,293	23,434	22,706	16,868	7,256	324,228	215,824	15
.....	.....	24,626	.....	.....	.....	294,446	.....	16
.....	.....	36,191	.....	.....	.....	190,955	.....	17
.....	.....	4.8	.....	.....	.....	10.1	.....	18
257,064	1,100	5,966	14,435	4,322	2,599	132,981	81,143	19
.....	.....	8,728	.....	.....	.....	121,096	.....	20
.....	.....	12,632	.....	.....	.....	28,641	.....	21
48.9	79.2	74.5	36.4	74.4	64.2	59.0	62.4	22
.....	.....	64.6	.....	.....	.....	58.9	.....	23
.....	.....	65.1	.....	.....	.....	85.0	.....	24
11,690,290	152,002	2,528,980	743,564	837,606	142,816	13,355,237	8,391,203	25
11,606,305	151,987	2,528,652	743,562	836,055	142,806	12,534,899	7,577,965	26
83,985	15	328	2	1,551	10	820,338	813,238	27
.....	.....	2,439,017	.....	.....	.....	15,668,631	.....	28
.....	.....	1,539,614	.....	.....	.....	6,456,150	.....	29
.....	.....	3.7	.....	.....	.....	-14.8	.....	30
23.24	28.72	107.92	32.75	49.66	19.68	41.19	38.88	31
.....	.....	99.04	.....	.....	.....	53.21	.....	32
.....	.....	42.54	.....	.....	.....	33.81	.....	33
47.54	36.25	144.78	89.90	66.76	30.67	69.83	52.39	34
11,844,714	152,002	2,534,761	745,064	838,406	145,696	16,008,121	10,910,187	35
23.08	28.45	106.96	20.27	30.59	19.94	30.28	36.17	36
Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	
342	3	44	59	2	132	1	74	68	1	1,094	15	910	4	37
240,625	979	3,026	17,268	(2)	7,854	(2)	12,433	4,393	(2)	180,046	594	124,062	150	38
762,341	2,087	9,160	38,028	(2)	31,052	(2)	50,901	24,753	(2)	718,322	3,571	523,086	178	39
3.17	2.13	3.03	2.20	(2)	3.95	(2)	4.09	5.63	(2)	3.99	6.01	4.22	1.19	40
431,139	.....	.....	36,318	.....	7,369	.....	23,438	1,686	.....	528,643	.....	335,510	.....	41
2.27	.....	.....	2.34	.....	1.97	.....	3.84	4.61	.....	4.50	.....	4.88	.....	42
225,594	.....	.....	19,955	.....	3,738	.....	13,006	366	.....	396,009	.....	103,956	.....	43
1.91	.....	.....	1.82	.....	1.97	.....	1.80	4.61	.....	1.33	.....	3.23	.....	44
378,071	.....	.....	60,614	.....	.....	.....	40,076	1,398	.....	386,156	.....	292,076	.....	45
4,281,715	.....	.....	1,696,594	.....	.....	.....	252,500	.....	.....	3,361,246	.....	1,404,323	.....	46
363	3	88	59	2	133	1	72	74	1	1,146	14	934	1	47
240,277	979	4,193	17,380	(2)	8,109	(2)	12,451	4,657	(2)	172,378	644	115,891	(2)	48
1,038,910	2,937	8,266	76,644	(2)	23,094	(2)	38,380	14,164	(2)	643,258	1,861	507,489	(2)	49
4.3	3.0	2.0	4.4	(2)	2.8	(2)	3.1	3.0	(2)	3.7	2.9	4.4	(2)	50
2.60	2.13	3.03	2.53	(2)	3.93	(2)	3.96	5.62	(2)	4.94	5.88	5.26	(2)	51
0.60	0.71	1.54	0.57	(2)	1.38	(2)	1.29	1.85	(2)	1.32	2.04	1.20	(2)	52
29	.....	.....	.....	.....	1	.....	2	8	.....	29	.....	27	.....	53
418,716	.....	.....	.....	.....	(2)	.....	(2)	668	.....	144,068	.....	143,264	.....	54
194,129	.....	.....	.....	.....	(2)	.....	(2)	448	.....	41,435	.....	40,956	.....	55
370,535	.....	.....	.....	.....	.....	.....	(2)	210	.....	88,715	.....	88,611	.....	56
1,748	.....	.....	.....	.....	(2)	.....	(2)	103	.....	18,064	.....	18,064	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued							
		Sacramento River—Continued							
		Middle Sacramento River—Continued				Lower Sacramento River			
		Feather River—Continued							
		Yuba and Upper Bear Rivers[2] (58)		Lower Bear River (59)		Total		Direct (60)	American River (61)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	1,926		108		4,274		521	2,575
2	Area irrigated....1939...acres....	50,015		6,551		134,816		38,672	38,047
3	(a) Cropland harvested....1939...acres....	38,145		6,158		126,124		36,805	34,570
4	(b) Crop failure....1939...acres....	1,811		8		1,003		407	207
5	(c) Pasture....1939...acres....	10,059		385		7,689		1,360	3,270
6	Area irrigated....1929...acres....	23,924		.....		.....		.....	27,378
7	1919...acres....	19,473		.....		.....		.....	47,156
8	Increase or decrease (-), 1929-1939....percent....	.....		.....		.....		.....	39.0
9	Irrigable area in enterprises....1940...acres....	217,186		9,963		310,045		102,007	71,957
10	1930...acres....	194,279		.....		.....		.....	51,410
11	1920[3]...acres....	69,074		.....		.....		.....	82,695
12	Excess of irrigable area over the area irrigated..1940...acres....	167,171		3,412		175,229		63,435	33,910
13	1930...acres....	170,355		.....		.....		.....	24,032
14	1920[3]...acres....	49,601		.....		.....		.....	35,539
15	Area works were capable of supplying with water...1940...acres....	100,150		8,254		247,929		91,994	51,073
16	1930...acres....	42,465		.....		.....		.....	34,375
17	1920...acres....	23,492		.....		.....		.....	52,842
18	Increase or decrease (-), 1930-1940....percent....	.....		.....		.....		.....	48.6
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	50,135		1,703		113,113		53,422	13,026
20	1930...acres....	18,541		.....		.....		.....	6,997
21	1920...acres....	4,019		.....		.....		.....	5,686
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	49.9		79.4		54.4		41.9	74.5
23	1929...percent....	56.3		.....		.....		.....	79.6
24	1919...percent....	82.9		.....		.....		.....	89.2
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	4,564,499		399,535		9,835,078		3,252,627	3,326,095
26	(a) Cost of irrigation works and equipment....1940...dollars....	4,557,399		399,535		9,389,944		3,252,377	3,325,488
27	(b) Investment in water rights (reported)....1940...dollars....	7,100		.....		445,134		250	607
28	Total investment in irrigation enterprises....1930...dollars....	3,200,008		.....		.....		.....	3,437,456
29	1920...dollars....	2,518,770		.....		.....		.....	2,890,114
30	Increase or decrease (-), 1930-1940....percent....	.....		.....		.....		.....	-3.2
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	45.58		48.41		39.67		35.36	65.12
32	1930...dollars....	75.36		.....		.....		.....	100.00
33	1920...dollars....	107.22		.....[4].....		.....		.....	54.69
34	Average investment per acre irrigated....1939...dollars....	91.26		60.99		72.95		84.33	87.42
35	Estimated final investment in existing enterprises..1940...dollars....	4,691,976		405,958		9,855,484		3,256,128	3,334,124
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	21.60		40.75		31.79		31.92	46.33
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
37	Enterprises reporting maintenance and operation...1939...number....	100	11	84	.....	1,806	18	280	912
38	Area irrigated in these enterprises....1939...acres....	49,803	444	6,181	.....	130,751	978	37,051	36,374
39	Cost of maintenance and operation....1939...dollars....	159,727	3,393	35,509	.....	743,914	2,033	198,657	299,786
40	Average cost, per acre irrigated....1939...dollars....	3.21	7.64	5.74	.....	5.69	2.08	5.36	8.24
41	Total annual charges (reported)[5 6]....1939...dollars....	174,253	.....	18,880	.....	177,192	.....	20,752	94,635
42	Average annual charge per acre irrigated....1939...dollars....	3.74	.....	8.44	.....	4.18	.....	2.85	5.97
43	Area against which charges were assessed....1939...acres....	289,969	.....	4,084	.....	90,162	.....	22,881	44,352
44	Average annual charge per acre assessed....1939...dollars....	0.60	.....	4.62	.....	1.97	.....	0.91	2.13
45	Total charges collected[5]....1939...dollars....	75,200	.....	18,880	.....	224,762	.....	51,395	115,024
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	1,798,453	.....	158,470	.....	1,746,504	.....	134,529	1,223,927
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	118	12	94	1	1,874	17	286	959
48	Area irrigated by these enterprises....1939...acres....	49,936	484	6,551	[4]	130,833	942	35,265	37,656
49	Water delivered....1939...acre-feet..	117,371	1,671	18,398	[4]	388,894	1,626	136,181	109,957
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4	3.5	2.8	[4]	3.0	1.7	3.9	2.9
51	Average cost of water per acre irrigated....1939...dollars....	3.79	7.64	8.64	.....	5.37	2.11	4.55	7.03
52	Average cost of water per acre-foot delivered..1939...dollars....	1.61	2.21	3.08	.....	1.81	1.22	1.18	2.41
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	.....	2	.....	30	.....	11	8
54	Irrigable area in these enterprises....1939...acres....	.....	.....	[4]	.....	85,779	.....	71,734	1,014
55	Irrigated area in these enterprises....1939...acres....	.....	.....	[4]	.....	20,381	.....	18,540	564
56	Area for which drains have been installed....1939...acres....	.....	.....	[4]	.....	63,937	.....	50,314	978
57	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	185	.....	.....	6

[1] 1930 and 1920 data include an unidentified portion of the Sacramento-San Joaquin Delta which was not considered as a separate drainage basin in those years.
[2] 1930 and 1920 data for Yuba River only, therefore percentages are not shown.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued																		
Sacramento River—Continued		San Joaquin River																
Lower Sacramento River—Continued												Kern River						
Cache Creek (62)	Putah Creek (63)	Total[1]		Direct (64)		Avenal and El Paso Creeks group (65)	Caliente Creek (66)		Total		Direct (67)							
895	283	46,067		3,572		14	225		2,430		2,004							1
44,235	13,962	2,251,216		265,390		6,682	17,213		257,073		206,427							2
41,590	13,159	2,062,728		245,895		6,522	16,945		218,170		168,341							3
377	12	4,585		39		.....	126		458		324							4
2,268	791	183,603		19,456		160	142		38,445		37,762							5
24,160	.....	2,358,824		471,789		.....	.....		196,861		.....							6
24,541	.....	2,050,264		642,261		.....	.....		200,641		.....							7
83.1	.....	-4.6		-43.7		.....	.....		30.6		.....							8
106,068	30,013	3,451,274		362,024		7,765	23,512		481,373		413,405							9
88,802	.....	3,688,275		638,596		.....	.....		446,298		.....							10
56,498	.....	4,108,377		1,083,862		.....	.....		432,481		.....							11
61,833	16,051	1,200,058		96,634		1,083	6,299		224,300		206,978							12
64,642	.....	1,329,451		166,807		.....	.....		249,437		.....							13
31,957	.....	2,058,613		441,601		.....	.....		231,840		.....							14
75,388	29,474	3,265,497		341,161		7,760	22,772		477,239		410,056							15
56,009	.....	3,474,938		623,486		.....	.....		437,885		.....							16
31,212	.....	3,153,881		873,300		.....	.....		299,665		.....							17
34.6	.....	-6.0		-45.3		.....	.....		9.0		.....							18
31,153	15,512	1,014,281		75,771		1,078	5,559		220,166		203,629							19
31,849	.....	1,116,114		151,697		.....	.....		241,024		.....							20
6,671	.....	1,103,617		231,099		.....	.....		99,024		.....							21
58.7	47.4	68.9		77.8		86.1	75.6		53.9		50.3							22
43.1	.....	67.9		75.7		.....	.....		45.0		.....							23
78.6	.....	65.0		73.5		.....	.....		67.0		.....							24
2,517,141	739,215	114,467,407		8,343,127		142,923	1,450,647		11,485,707		8,358,795							25
2,072,881	739,198	112,358,000		7,848,472		142,918	1,450,563		11,485,267		8,358,355							26
444,260	17	2,109,407		494,655		5	84		440		440							27
2,421,872	.....	111,112,108		12,006,191		.....	.....		9,518,734		.....							28
916,477	.....	69,046,622		9,224,164		.....	.....		17,573,637		.....							29
3.9	.....	3.0		-30.5		.....	.....		62.9		.....							30
33.39	25.08	35.05		24.46		18.42	63.70		24.07		20.38							31
43.24	.....	31.98		19.26		.....	.....		21.74		.....							32
29.36	.....	21.89		10.56		.....	.....		58.64		.....							33
56.90	52.94	50.85		31.44		21.39	84.28		44.68		40.49							34
2,525,457	739,775	117,694,777		8,361,296		145,423	1,494,147		11,818,468		8,630,520							35
23.81	24.65	34.10		23.10		18.73	63.55		24.55		20.88							36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.				
351	17	263	1	8,376	7,172	87	4	11	95	31	1,167	63	863	63				37
43,730	948	13,596	(4)	2,220,936	344,506	265,375	892	5,832	15,672	2,552	254,170	5,978	203,781	5,978				38
145,404	1,973	100,067	(4)	7,985,052	1,335,613	798,979	1,165	19,518	182,031	12,106	1,465,412	28,779	920,855	28,779				39
3.33	2.08	7.36	(4)	3.60	3.88	3.01	1.31	3.35	11.62	4.74	5.77	4.81	4.52	4.81				40
58,223	.....	3,582	.....	4,279,318	14,203	847,882	.....	.....	23,870	.....	564,403	.....	457,488	.....				41
3.08	.....	10.60	.....	2.74	0.59	3.53	.....	.....	13.21	.....	4.11	.....	3.72	.....				42
22,591	.....	338	.....	2,086,261	20,100	260,953	.....	.....	1,807	.....	150,188	.....	135,789	.....				43
2.58	.....	10.60	.....	2.05	0.71	3.25	.....	.....	13.21	.....	3.76	.....	3.37	.....				44
56,803	.....	1,540	.....	3,643,263	1,417	905,162	.....	.....	27,236	.....	133,601	.....	112,379	.....				45
366,000	.....	22,048	.....	40,574,954	.....	2,535,646	.....	.....	1,910	.....	2,331,138	.....	2,288,822	.....				46
360	16	269	1	8,258	7,229	82	4	14	101	31	1,174	65	867	64				47
44,070	912	13,842	(4)	2,163,415	337,277	252,621	892	6,682	17,082	2,304	255,763	7,674	205,231	6,474				48
94,464	1,604	48,292	(4)	5,375,672	649,370	672,699	1,117	8,098	65,804	6,752	767,256	16,710	595,615	16,110				49
2.1	1.8	3.5	(4)	2.5	1.9	2.7	1.3	1.2	3.9	2.9	3.0	2.2	2.9	2.5				50
3.98	2.11	7.54	(4)	4.18	4.08	3.51	1.31	3.35	11.65	5.11	6.18	4.82	5.07	4.82				51
1.86	1.20	2.16	(4)	1.68	2.12	1.32	1.04	2.76	3.02	1.74	2.06	2.21	1.75	1.94				52
9	.....	2	.....	74	.....	9	.....	.....	2	.....	6	.....	5	.....				53
1,231	.....	(4)	.....	987,064	.....	138,923	.....	.....	(4)	.....	49,800	.....	49,222	.....				54
839	.....	(4)	.....	734,526	.....	113,002	.....	.....	(4)	.....	36,674	.....	36,323	.....				55
845	.....	(4)	.....	491,014	.....	66,065	.....	.....	(4)	.....	49,171	.....	49,011	.....				56
179	.....	.....	.....	27,820	.....	2,700	.....	.....	.....	.....	200	.....	200	.....				57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA— Continued								
		San Joaquin River—Continued								
		Kern River—Con.								
		Poso Creek and White River (68)		Tule River and Deer Creek[1] (69)		Kaweah River (70)		Panoche and Los Gatos Creeks group (71)	Kings River[2] (72)	
	IRRIGATED FARMS AND AREAS									
1	Irrigated farms.....1939...number.....	426		1,886		3,217		75	18,972	
2	Area irrigated.....1939...acres.....	50,646		101,922		161,146		89,827	804,076	
3	(a) Cropland harvested.....1939...acres.....	49,829		93,734		150,784		88,876	744,677	
4	(b) Crop failure.....1939...acres.....	134		461		546		911	2,201	
5	(c) Pasture.....1939...acres.....	683		7,727		9,816		40	57,198	
6	Area irrigated.....1929...acres.....	33,620		95,237		222,363		.....	742,282	
7	1919...acres.....	.....		61,223		149,932		.....	552,601	
8	Increase or decrease (-), 1929-1939.....percent....	50.6		7.0		-27.5		.....	8.3	
9	Irrigable area in enterprises.....1940...acres.....	67,968		142,820		259,761		133,157	1,307,075	
10	1930...acres.....	35,809		118,540		322,000		.....	1,278,720	
11	1920[3]..acres.....	.....		175,777		356,703		.....	1,052,406	
12	Excess of irrigable area over the area irrigated..1940...acres.....	17,322		40,898		98,615		43,330	502,999	
13	1930...acres.....	2,189		23,303		99,637		.....	536,438	
14	1920[3]..acres.....	.....		114,554		206,771		.....	499,805	
15	Area works were capable of supplying with water...1940...acres.....	67,183		135,063		225,067		132,331	1,223,247	
16	1930...acres.....	34,046		109,698		316,135		.....	1,161,442	
17	1920...acres.....	.....		109,412		299,474		.....	895,263	
18	Increase or decrease (-), 1930-1940.....percent....	97.3		23.1		-28.8		.....	5.3	
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	16,537		33,141		63,921		42,504	419,171	
20	1930...acres.....	426		14,461		93,772		.....	419,160	
21	1920...acres.....	.....		48,189		149,542		.....	342,662	
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	75.4		75.5		71.6		67.9	65.7	
23	1929...percent....	98.7		86.8		70.3		.....	63.9	
24	1919...percent....	.....		56.0		50.1		.....	61.7	
	CAPITAL INVESTED TO JANUARY 1									
25	Total investment in irrigation enterprises.....1940...dollars....	3,126,912		6,289,529		9,534,690		2,910,008	27,490,233	
26	(a) Cost of irrigation works and equipment.....1940...dollars....	3,126,912		6,282,423		9,469,967		2,910,008	26,564,681	
27	(b) Investment in water rights (reported).....1940...dollars....	.....		7,106		64,723		.....	925,552	
28	Total investment in irrigation enterprises.....1930...dollars....	2,468,693		5,996,673		11,449,116		.....	24,300,665	
29	1920...dollars....	.....		2,842,495		6,186,840		.....	8,145,446	
30	Increase or decrease (-), 1930-1940.....percent....	.....		4.9		-16.7		.....	13.1	
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	46.54		46.57		42.36		21.99	22.47	
32	1930...dollars....	72.51		54.67		36.22		.....	20.92	
33	1920...dollars....	.....		25.98		20.66		.....	9.10	
34	Average investment per acre irrigated.....1939...dollars....	61.74		61.71		59.17		32.40	34.19	
35	Estimated final investment in existing enterprises..1940...dollars....	3,187,948		6,310,287		9,659,945		2,943,729	27,609,046	
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	46.90		44.18		37.19		22.11	21.12	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number.....	304	.....	1,034	120	1,763	387	52	2,575	6,375
38	Area irrigated in these enterprises.....1939...acres.....	50,389	.....	97,674	7,747	157,523	37,463	79,718	798,015	274,778
39	Cost of maintenance and operation.....1939...dollars....	544,557	.....	842,232	53,405	1,180,448	200,836	648,523	1,149,528	948,738
40	Average cost, per acre irrigated.....1939...dollars....	10.81	.....	8.62	6.89	7.49	5.36	8.14	1.44	3.45
41	Total annual charges (reported)[4] [5].....1939...dollars....	106,915	.....	223,690	.....	384,722	12,320	.....	753,626	1,883
42	Average annual charge per acre irrigated.....1939...dollars....	7.46	.....	8.16	.....	5.73	8.80	.....	1.16	0.08
43	Area against which charges were assessed.....1939...acres.....	14,399	.....	33,294	.....	118,265	15,400	.....	962,189	4,700
44	Average annual charge per acre assessed.....1939...dollars....	7.43	.....	6.72	.....	3.25	0.80	.....	0.78	0.40
45	Total charges collected[4].....1939...dollars....	21,222	.....	145,624	.....	99,231	667	.....	796,429	750
46	Indebtedness to December 31 (reported)[5].....1939...dollars....	42,316	.....	439,410	.....	1,270,914	.....	.....	2,532,790	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered.....1939...number.....	307	1	976	126	1,727	399	57	2,533	6,429
48	Area irrigated by these enterprises.....1939...acres.....	50,532	([6])	92,685	9,425	148,530	38,766	89,797	753,164	263,428
49	Water delivered.....1939...acre-feet..	171,641	([6])	299,813	19,411	470,274	90,282	238,088	1,275,118	482,635
50	Average water delivered per acre irrigated.....1939...acre-feet..	3.4	([6])	3.2	2.1	3.2	2.3	2.7	1.7	1.8
51	Average cost of water per acre irrigated.....1939...dollars....	10.67	.....	10.08	6.89	7.82	5.68	8.14	1.85	3.69
52	Average cost of water per acre-foot delivered..1939...dollars....	3.14	.....	3.12	3.35	2.47	2.44	3.07	1.09	2.01
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage.....1939...number.....	1	.....	6	.....	13	.....	.....	19	.....
54	Irrigable area in these enterprises.....1939...acres.....	([6])	.....	765	.....	1,395	.....	.....	271,115	.....
55	Irrigated area in these enterprises.....1939...acres.....	([6])	.....	607	.....	1,012	.....	.....	164,964	.....
56	Area for which drains have been installed.....1939...acres.....	([6])	.....	230	.....	580	.....	.....	6,611	.....
57	Additional area needing drainage.....1939...acres.....	.....	.....	40	.....	122	.....	.....	4,056	.....

[1] 1920 data for Tule River only.
[2] Includes that portion of Tulare Lake area not under flood water in Census of 1940. Tulare Lake was dry and tabulated separately, Censuses of 1920 and 1930.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	SACRAMENTO-SAN JOAQUIN DELTA— Continued															
	San Joaquin River—Continued															
	Fresno River (73)		Merced River (74)		Orestimba and Los Banos Creeks group (75)		Tuolumne River (76)		Stanislaus River (77)		Calaveras River (78)		Mokelumne River (79)		Cosumnes River (80)	
1	1,224		2,539		38		7,915		3,960		943		1,614		253	
2	85,401		125,698		8,918		230,686		97,184		28,463		82,200		6,944	
3	80,571		110,239		8,699		224,173		73,443		25,843		73,192		5,247	
4	86		5		37		4		11		69		60		27	
5	4,744		15,454		182		6,509		23,730		2,551		8,948		1,670	
6	17,640		140,131		.....		207,347		81,981		8,327		85,172		7,885	
7	12,414		65,151		.....		165,533		75,359		13,323		36,848		3,259	
8	384.1		-10.3		.....		11.3		18.5		241.8		-3.5		-11.9	
9	144,967		177,221		11,967		257,773		141,859		38,347		96,667		28,742	
10	21,209		197,436		.....		247,681		177,073		9,491		114,588		26,614	
11	30,004		222,715		.....		298,418		156,453		21,598		155,480		9,011	
12	59,566		51,523		3,049		27,067		44,675		9,884		14,467		21,798	
13	3,569		57,305		.....		40,334		95,092		1,164		29,416		18,729	
14	17,590		157,564		.....		132,885		80,094		8,275		118,632		5,752	
15	144,667		167,094		11,967		257,731		119,398		38,025		95,142		8,372	
16	20,072		195,641		.....		247,165		147,702		9,143		109,164		25,821	
17	14,016		71,709		.....		250,425		111,192		16,489		72,144		6,405	
18	620.7		-14.6		.....		4.3		-19.2		315.9		-12.8		-67.6	
19	59,266		41,396		3,049		27,045		22,214		9,562		12,942		1,428	
20	2,432		55,510		.....		39,818		65,721		816		23,992		17,936	
21	1,602		6,558		.....		84,892		35,833		3,166		35,296		3,146	
22	59.0		75.2		74.5		89.5		81.4		74.9		86.4		82.9	
23	87.9		71.6		.....		83.9		55.5		91.1		78.0		30.5	
24	88.6		90.9		.....		66.1		67.8		80.8		51.1		50.9	
25	3,010,138		19,201,929		326,452		13,354,008		10,928,016		1,547,082		2,795,696		[1]326,867	
26	2,919,296		19,181,529		324,952		13,150,308		10,627,616		1,544,791		2,748,126		317,307	
27	90,842		20,400		1,500		203,700		300,400		2,291		47,570		9,560	
28	432,791		17,249,861		.....		13,984,091		10,280,554		463,580		3,709,181		592,683	
29	415,385		3,812,235		.....		7,173,802		7,840,486		818,995		1,675,137		153,899	
30	595.5		11.3		.....		-4.5		6.3		233.7		-24.6		-44.8	
31	20.81		114.92		27.28		51.81		91.53		40.69		29.38		39.04	
32	21.56		88.17		.....		56.58		69.60		50.70		33.98		22.95	
33	29.64		53.16		.....		28.65		70.51		49.67		23.22		24.03	
34	35.25		152.76		36.61		57.89		112.45		54.35		34.01		47.07	
35	3,012,013		19,204,069		333,502		15,369,566		11,433,286		1,551,671		2,900,342		341,367	
36	20.78		108.36		27.87		59.62		80.60		40.46		30.00		11.88	
	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
37	1,001	98	299	43	35	14	134	15	123	22	900	6	1,261	13	197	
38	85,063	5,148	125,352	1,332	8,918	2,930	230,460	1,572	97,164	4,114	28,215	415	77,719	462	5,821	
39	507,389	33,340	357,515	10,910	60,719	30,930	496,876	4,734	275,882	10,670	197,302	1,952	297,428	1,410	33,868	
40	5.96	6.48	2.85	8.19	6.81	10.56	2.16	3.01	2.84	2.59	6.99	4.70	3.83	3.05	5.82	
41	34,285	.....	340,844	.....	162	.....	570,245	.....	535,589	.....	4,500	.....	27,219	.....	1,794	
42	2.84	.....	3.10	.....	0.54	.....	2.55	.....	5.77	.....	6.62	.....	2.03	.....	1.71	
43	15,517	.....	145,378	.....	300	.....	265,981	.....	132,389	.....	1,320	.....	14,759	.....	1,109	
44	2.21	.....	2.34	.....	0.54	.....	2.14	.....	4.05	.....	3.41	.....	1.84	.....	1.62	
45	23,546	.....	337,842	.....	180	.....	650,015	.....	524,197	.....	1,200	.....	24,247	.....	500	
46	127,000	.....	16,191,000	.....	105	.....	7,288,291	.....	7,856,750	.....	15,000	.....	230,000	.....	.....	
47	990	98	303	38	35	7	139	10	127	22	914	8	1,266	13	208	
48	85,170	5,148	125,680	1,347	8,918	2,930	230,389	1,249	96,934	4,114	28,398	545	81,396	462	6,120	
49	256,473	14,742	346,785	4,903	26,213	4,003	683,735	1,155	265,316	7,660	72,864	1,224	268,567	996	23,147	
50	3.0	2.9	2.8	3.6	2.9	1.4	3.0	0.9	2.7	1.9	2.6	2.2	3.3	2.2	3.8	
51	6.11	6.48	3.45	5.27	6.81	6.85	2.61	3.07	5.73	2.59	7.06	4.70	3.87	3.05	6.63	
52	2.03	2.26	1.25	1.45	2.32	5.01	0.88	3.32	2.09	1.39	2.75	2.09	1.17	1.42	1.75	
53	.....	.....	3	.....	2	.....	11	.....	3	.....	6	.....	21	.....	.....	
54	.....	.....	151,620	.....	(6)	.....	246,723	.....	125,315	.....	859	.....	15,584	.....	.....	
55	.....	.....	107,602	.....	(6)	.....	221,878	.....	87,225	.....	170	.....	14,200	.....	.....	
56	.....	.....	85,136	.....	(6)	.....	210,246	.....	72,415	.....	757	.....	13,758	.....	.....	
57	.....	.....	10,084	.....	(6)	.....	10,018	.....	500	.....	4	.....	87	.....	.....	

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	INDEPENDENT BASINS					
		Total*	Surprise Valley (82)	Madeline Plains (83)	Honey Lake (86)	Pyramid Lake Basin and Truckee River** (87)	Lahontan Lake Basin and Carson River** (88)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	3,576	170	9	227	7	27
2	Area irrigated....1939...acres	219,909	31,996	3,672	39,414	1,675	8,105
3	(a) Cropland harvested....1939...acres	146,145	25,852	2,407	25,818	106	1,715
4	(b) Crop failure....1939...acres	1,524	50	.....	505	.....	10
5	(c) Pasture....1939...acres	72,240	6,094	1,265	13,091	1,569	6,380
6	Area irrigated....1929...acres	217,828	.....	.....	24,664	.....	1,925
7	1919...acres	340,679	.....	.....	44,327	.....	4,459
8	Increase or decrease (-), 1929-1939....percent	1.0	.....	.....	59.8	.....	321.0
9	Irrigable area in enterprises....1940...acres	317,485	45,119	4,030	63,203	1,675	8,261
10	1930...acres	342,394	.....	.....	49,319	.....	2,595
11	1920[2]...acres	606,167	.....	.....	55,065	.....	7,027
12	Excess of irrigable area over the area irrigated...1940...acres	97,576	13,123	358	23,789	.....	156
13	1930...acres	124,566	.....	.....	24,655	.....	670
14	1920[2]...acres	265,488	.....	.....	10,738	.....	2,568
15	Area works were capable of supplying with water...1940...acres	281,228	44,707	4,030	55,463	1,675	8,260
16	1930...acres	283,661	.....	.....	49,069	.....	2,455
17	1920...acres	451,243	.....	.....	49,264	.....	4,819
18	Increase or decrease (-), 1930-1940....percent	-0.9	.....	.....	13.0	.....	236.5
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	61,319	12,711	358	16,049	.....	155
20	1930...acres	65,833	.....	.....	24,405	.....	530
21	1920...acres	110,564	.....	.....	4,937	.....	360
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	78.2	71.6	91.1	71.1	100.0	98.1
23	1929...percent	76.8	.....	.....	50.3	.....	78.4
24	1919...percent	75.5	.....	.....	90.0	.....	92.5
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	12,340,872	140,327	32,800	292,400	7,610	51,930
26	(a) Cost of irrigation works and equipment....1940...dollars	11,969,893	79,933	32,800	267,781	7,610	50,780
27	(b) Investment in water rights (reported)....1940...dollars	370,979	60,394	.....	24,619	.....	1,150
28	Total investment in irrigation enterprises....1930...dollars	18,130,791	.....	.....	1,511,574	.....	2,250
29	1920...dollars	18,750,413	.....	.....	414,068	.....	40,385
30	Increase or decrease (-), 1930-1940....percent	-31.9	.....	.....	-80.7	.....	[3]
31	Average investment based on area works were capable of supplying with water, per acre...1940...dollars	43.88	3.14	8.14	5.27	4.54	6.29
32	1930...dollars	63.92	.....	.....	30.81	.....	0.92
33	1920...dollars	41.55	.....	.....	8.41	.....	8.38
34	Average investment per acre irrigated....1939...dollars	56.12	4.39	8.93	7.42	4.54	6.41
35	Estimated final investment in existing enterprises...1940...dollars	13,073,905	140,347	32,800	297,915	7,610	51,930
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	41.18	3.11	8.14	4.71	4.54	6.29
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises			Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	1,546	14	160	4	130	3	2	15
38	Area irrigated in these enterprises....1939...acres	200,667	6,555	29,825	3,362	34,950	194	(4)	3,105
39	Cost of maintenance and operation....1939...dollars	992,551	32,239	9,373	300	11,457	133	(4)	1,654
40	Average cost, per acre irrigated....1939...dollars	4.95	4.92	0.31	0.09	0.33	0.69	(4)	0.20
41	Total annual charges (reported)[5] [6]....1939...dollars	220,724	24,120	1,096	.....	13,844	.....	.....	54
42	Average annual charge per acre irrigated....1939...dollars	4.38	4.29	0.51	.....	1.81	.....	.....	0.06
43	Area against which charges were assessed....1939...acres	57,926	5,618	2,130	.....	8,435	.....	.....	953
44	Average annual charge per acre assessed....1939...dollars	3.81	4.29	0.51	.....	1.64	.....	.....	0.06
45	Total charges collected[5]....1939...dollars	182,248	23,374	.....	.....	8,845	.....	.....	27
46	Indebtedness to December 31 (reported)[6]....1939...dollars	1,101,704	12,728	.....	.....	47,000	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	1,673	15	144	9	143	3	7	14
48	Area irrigated by these enterprises....1939...acres	212,187	6,356	29,625	3,672	38,581	194	1,675	7,105
49	Water delivered....1939...acre-feet	594,727	8,584	35,796	3,475	67,032	347	6,283	25,540
50	Average water delivered per acre irrigated....1939...acre-feet	2.8	1.4	1.2	0.9	1.7	1.6	3.8	3.6
51	Average cost of water per acre irrigated....1939...dollars	5.23	4.69	0.32	0.09	0.62	0.69	0.50	0.20
52	Average cost of water per acre-foot delivered...1939...dollars	1.87	3.47	0.26	0.09	0.36	0.38	0.13	0.06
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	14	.....	.....	.....	3	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres	17,309	.....	.....	.....	695	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres	1,493	.....	.....	.....	465	.....	.....	.....
56	Area for which drains have been installed....1939...acres	1,618	.....	.....	.....	660	.....	.....	.....
57	Additional area needing drainage....1939...acres	10,691	.....	.....	.....	.....	.....	.....	.....

*Data for 2 enterprises in Cowhead and Warner Lakes Drainage Basin (81), 2 enterprises in Smoke Creek Drainage Basin (85), and 1 enterprise in Adobe Meadows Drainage Basin (92) (number refers to separate map) are included with Independent Basins total.

**Data for corresponding basins in Nevada not tabulated under "Independent Basins."

[1] Joins "Amargosa River Drainage Basin" in Nevada.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[3] Percent not shown when more than 1,000.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

INDEPENDENT BASINS—Continued										COLORADO RIVER			
Walker Lake			Mono Lake	Owens River	Amargosa River and Dry Lakes[1]	Antelope Valley	Mojave River	San Jacinto River	Whitewater River	Total	Direct	Imperial Valley	
Total	West Walker River[5][6]	East Walker River[5][6]											
	(89)	(90)	(91)	(93)	(95)	(97)	(98)	(99)	(100)		(101)	(102)	
71	50	21	12	238	17	636	173	1,184	799	5,228	678	4,550	1
38,131	17,849	20,282	786	13,300	910	30,982	6,456	23,165	18,981	454,768	37,829	416,939	2
5,916	5,671	245	88	7,377	465	30,742	4,591	22,639	17,683	442,752	37,829	404,923	3
.....	.....	.....	.....	.....	20	172	69	233	445	4,000	.....	4,000	4
32,215	12,178	20,037	698	5,923	425	68	1,796	293	853	8,016	.....	8,016	5
16,012	.....	.....	11,500	29,806	.....	.....	6,118	33,953	.....	464,653	.....	.....	6
39,261	.....	.....	4,190	144,024	.....	.....	4,608	20,869	14,643	447,384	.....	.....	7
138.1	.....	.....	-93.2	-55.4	.....	.....	5.5	-31.8	.....	-2.1	.....	.....	8
38,416	17,849	20,567	965	19,607	1,436	44,908	12,853	29,804	43,472	636,857	110,040	526,817	9
16,012	.....	.....	15,500	12,046	.....	.....	35,995	54,368	.....	1,119,099	.....	.....	10
42,295	.....	.....	70,377	200,147	.....	.....	21,523	34,974	37,604	621,015	.....	.....	11
285	.....	285	179	6,307	526	13,926	6,397	6,639	24,491	182,089	72,211	109,878	12
.....	.....	.....	4,000	.....	.....	.....	29,877	20,415	.....	654,446	.....	.....	13
3,034	.....	.....	66,187	56,123	.....	.....	16,915	14,105	22,961	173,631	.....	.....	14
38,416	17,849	20,567	965	16,080	1,366	41,163	10,271	28,969	27,127	615,854	89,222	526,632	15
16,012	.....	.....	11,500	19,049	.....	.....	8,627	43,120	.....	604,600	.....	.....	16
40,355	.....	.....	45,760	182,748	.....	.....	6,510	22,263	22,282	494,975	.....	.....	17
139.9	.....	.....	-91.6	-15.6	.....	.....	19.1	-32.8	.....	1.9	.....	.....	18
285	.....	285	179	2,780	456	10,181	3,815	5,804	8,146	161,086	51,393	109,693	19
.....	.....	.....	.....	.....	.....	.....	2,509	9,167	.....	139,947	.....	.....	20
1,094	.....	.....	41,570	38,724	.....	.....	1,902	1,394	7,639	47,591	.....	.....	21
99.3	100.0	98.6	81.5	82.7	66.6	75.3	62.9	80.0	70.0	73.8	42.4	79.2	22
100.0	.....	.....	100.0	.....	.....	.....	70.9	78.7	.....	76.9	.....	.....	23
97.3	.....	.....	9.2	78.8	.....	.....	70.8	93.7	65.7	90.4	.....	.....	24
83,200	50,425	32,775	14,260	254,312	31,600	4,552,411	528,548	3,443,172	2,880,352	21,255,347	4,513,237	16,742,110	25
79,200	46,425	32,775	14,050	254,312	31,600	4,413,711	527,313	3,302,501	2,880,352	20,664,209	3,923,799	16,740,410	26
4,000	4,000	.....	210	.....	.....	138,700	1,235	140,671	.....	591,138	589,438	1,700	27
736,210	.....	.....	1,281,055	325,653	.....	.....	1,192,329	4,489,207	.....	20,410,341	.....	.....	28
37,575	.....	.....	5,363,858	5,785,132	.....	.....	616,769	2,139,257	2,242,944	14,833,041	.....	.....	29
-88.7	.....	.....	-98.9	-21.9	.....	.....	-55.7	-23.3	.....	4.1	.....	.....	30
2.17	2.83	1.59	14.78	15.82	23.13	110.59	51.46	118.86	106.18	34.51	50.58	31.79	31
45.98	.....	.....	111.40	17.10	.....	.....	138.21	104.11	.....	33.76	.....	.....	32
0.93	.....	.....	117.22	31.66	.....	.....	94.74	96.09	100.66	29.97	.....	.....	33
2.18	2.83	1.62	18.14	19.12	34.73	146.94	81.87	148.64	151.75	46.74	119.31	40.15	34
83,600	50,825	32,775	14,260	288,212	32,600	4,859,662	583,148	3,480,969	3,172,902	21,305,812	4,528,237	16,777,575	35
2.18	2.85	1.59	14.78	14.70	22.70	108.21	45.37	116.80	72.99	33.45	41.15	31.85	36
						Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises					
30	15	15	10	31	11	441 / 2	144	222 / 9	343	25	3	22	37
36,141	17,849	18,292	540	10,649	536	29,628 / (4)	6,195	22,953 / 5,900	16,562	454,282	37,829	416,453	38
5,982	5,383	599	825	10,596	3,637	453,799 / (4)	57,235	226,819 / 31,191	210,459	1,447,829	168,124	1,279,705	39
0.17	0.30	0.03	1.53	1.00	6.79	15.32 / (4)	9.24	9.88 / 5.29	12.71	3.19	4.44	3.07	40
3,661	3,661	.....	.....	4,400	.....	29,832 / 765	524	131,595 / 23,355	35,718	1,808,291	122,291	1,686,000	41
0.25	0.25	.....	.....	0.75	.....	12.49 / 2.38	11.64	10.31 / 4.41	9.04	3.98	3.24	4.05	42
14,643	14,643	.....	.....	5,903	.....	5,454 / 322	329	15,227 / 5,296	4,852	606,314	44,314	562,000	43
0.25	0.25	.....	.....	0.75	.....	5.47 / 2.38	1.59	8.64 / 4.41	7.36	2.98	2.76	3.00	44
4,466	4,466	.....	.....	.....	.....	23,789 /	524	119,102 / 23,374	25,495	1,779,588	89,588	1,690,000	45
1,253	1,253	.....	.....	.....	.....	336,018 / 357	.....	648,678 / 12,371	68,755	16,379,146	879,146	15,500,000	46
32	15	17	12	50	15	453 / 1	153	237 / 11	400	48	3	45	47
38,131	17,849	20,282	786	13,215	572	30,549 / (4)	6,166	22,952 / 6,023	18,422	454,766	37,829	416,937	48
48,668	25,887	22,781	1,806	53,257	1,943	176,433 / (4)	21,973	55,529 / 8,217	94,831	1,497,629	327,669	1,169,960	49
1.3	1.5	1.1	2.3	4.0	3.4	5.8 / (4)	3.6	2.4 / 1.4	5.1	3.3	8.7	2.8	50
0.17	0.30	0.03	1.53	0.99	17.18	15.92 / (4)	9.27	9.98 / 4.90	13.44	3.99	3.23	4.06	51
0.13	0.21	0.03	0.66	0.25	5.06	2.76 / (4)	2.60	4.13 / 3.60	2.61	1.21	0.37	1.45	52
.....	.....	.....	.....	[7] 2	.....	..... /	4	2 /	3	[7] 2	[7] 1	[7] 1	53
.....	.....	.....	.....	1,112	.....	..... /	500	(4) /	14,780	540,000	15,000	525,000	54
.....	.....	.....	.....	400	.....	..... /	55	(4) /	416	422,789	6,789	416,000	55
.....	.....	.....	.....	400	.....	..... /	208	..... /	350	208,000	8,000	200,000	56
.....	.....	.....	.....	555	.....	..... /	110	(4) /	10,000	315,000	.....	315,000	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[7] Data for less than 3 enterprises shown with permission of the enterprises involved.

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DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	PACIFIC OCEAN STREAMS (North of San Francisco Bay)						
			Total[1]	Klamath River					
				Total	Direct	Lost River	Shasta River	Scott River	Trinity River
					(3)	(4)	(5)	(6)	(7)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	[2] 39,984	1,005	742	257	11	100	174	200
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	185	135	168	78	3,309	370	130	43
3	Diversion dams	1940..total number	2,714	587	570	140	.....	89	186	155
4		1930..total number	1,654	431	405	.....	.....	.....	.....	.....
5		1920..total number	2,070	469	448	.....	.....	.....	.....	.....
6	(a) Concrete and masonry	1940..number	527	25	19	4	.....	3	5	7
7	(b) Timber	1940..number	477	109	109	51	.....	21	8	29
8	(c) Earth and rock	1940..number	1,111	274	266	40	.....	56	91	79
9	(d) Other, mixed, and not reported	1940..number	599	179	176	45	.....	9	82	40
10	Main canals and laterals	1940..total length, miles	19,799.1	1,096.9	1,081.5	269.1	126.5	200.2	263.1	222.6
11		1930..total length, miles	18,602	989	942	.....	.....	.....	.....	.....
12		1920..total length, miles	27,384	1,562	1,171	.....	.....	.....	.....	.....
13	(a) Earth	1940..length, miles	18,217	1,067	1,053	262	125	195	262	209
14	(b) Lined	1940..length, miles	1,582.1	29.9	28.5	7.1	1.5	5.2	1.1	13.6
15		1940..capacity, c.f.s.[3]	91,776	2,758	2,572	583	88	574	628	699
16		1930..capacity, c.f.s.[3]	84,944	2,910	2,851	.....	.....	.....	.....	.....
17		1920..capacity, c.f.s.[3]	115,237	5,850	5,716	.....	.....	.....	.....	.....
18	Pipe lines[4]	1940..total length, miles	22,690.2	109.3	42.3	11.9	.....	4.7	15.4	10.3
19		1930..total length, miles	14,683.0	78.1	17.6	.....	.....	.....	.....	.....
20		1920..total length, miles	6,885.9	52.4	19.1	.....	.....	.....	.....	.....
21	(a) Concrete	1940..length, miles	16,745.0	25.8	3.1	0.3	.....	0.3	.....	2.5
22	(b) Metal	1940..length, miles	5,414.1	79.5	36.0	10.8	.....	2.1	15.4	7.7
23	(c) Wood-stave	1940..length, miles	249.8	3.3	2.6	0.6	.....	1.9	.....	0.1
24	(d) Other	1940..length, miles	281.3	0.7	0.6	0.2	.....	0.4	.....	.....
25	Storage dams	1940..total number	709	30	25	6	1	10	5	3
26		1930..total number	421	26	10	.....	.....	.....	.....	.....
27		1920..total number	455	38	23	.....	.....	.....	.....	.....
28	(a) Concrete and masonry	1940..number	126	4	2	1	.....	.....	.....	1
29	(b) Earth and rock	1940..number	531	20	18	2	1	10	4	1
30	(c) Other, mixed, and not reported	1940..number	52	6	5	3	.....	.....	1	1
31	Reservoirs	1940..total number	2,652	39	29	6	[5] 1	9	7	6
32	(a) 1-99 acre-feet capacity	1940..number	2,436	37	27	6	.....	8	7	6
33	(b) 100-999 acre-feet capacity	1940..number	102	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	114	2	2	.....	1	1	.....	.....
35		1940..total capacity, ac.-ft.[6]	3,581,621	510,379	510,189	20	440,000	70,085	79	5
36		1930..total number	1,769	29	23	.....	.....	.....	.....	.....
37		1930..total capacity, ac.-ft.	3,225,675	549,463	549,256	.....	.....	.....	.....	.....
38	Wells, flowing	1940..number	436	3	3	3	.....	.....	.....	.....
39		1930..number	449	4	3	.....	.....	.....	.....	.....
40		1920..number	1,415	4	3	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	34,767	42	42	42	.....	.....	.....	.....
42		1930..yield, g.p.m.	65,768	205	200	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	287,187	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	48,568	244	48	19	2	9	14	4
45		1930..number	46,737	221	14	.....	.....	.....	.....	.....
46		1920..number	25,401	107	14	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	28,297,969	136,495	27,469	21,200	(7)	2,706	1,818	1,140
48		1930..yield, g.p.m.	24,266,167	112,534	21,442	.....	.....	.....	.....	.....
49		1920..yield, g.p.m.	10,608,476	35,194	4,375	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	52,217	404	92	30	11	25	17	9
51		1930..total number	46,729	337	42	.....	.....	.....	.....	.....
52	Prime movers	1940..capacity, hp.	968,351	5,873	2,545	537	244	1,644	63	57
53		1930..capacity, hp.	820,767	5,743	2,902	.....	.....	.....	.....	.....
54		1920..capacity, hp.	386,200	3,858	2,695	.....	.....	.....	.....	.....
55	(a) Electric	1940..number	43,952	198	47	15	10	18	3	1
56		1940..capacity, hp.	804,298	3,943	2,244	417	243	1,543	21	(7)
57	(b) Internal-combustion	1940..number	7,827	191	35	10	.....	6	12	7
58		1940..capacity, hp.	160,734	1,839	252	76	.....	100	40	36
59	(c) Other	1940..number	438	15	10	5	1	1	2	1
60		1940..capacity, hp.	3,319	91	49	44	(7)	(7)	(7)	(7)
61	Pumps	1940..total number	52,016	406	94	32	11	25	17	9
62		1930..number	47,994	364	50	.....	.....	.....	.....	.....
63		1920..number	24,134	190	47	.....	.....	.....	.....	.....
64		1940..capacity, g.p.m.	39,147,470	374,811	182,489	41,645	55,143	77,791	4,043	3,867
65		1930..capacity, g.p.m.	33,240,589	370,862	199,696	.....	.....	.....	.....	.....
66		1920..capacity, g.p.m.	16,773,692	168,163	111,709	.....	.....	.....	.....	.....
67	(a) Centrifugal	1940..number	18,728	331	62	19	6	22	10	5
68		1940..capacity, g.p.m.	17,712,210	314,345	141,951	35,815	22,850	76,766	3,773	2,747
69		1940..average capacity, g.p.m.	946	950	2,290	1,885	3,808	3,489	377	549
70	(b) Turbine	1940..number	29,997	42	7	5	.....	1	.....	1
71		1940..capacity, g.p.m.	20,537,996	27,175	7,450	5,450	.....	(7)	.....	(7)
72		1940..average capacity, g.p.m.	685	647	1,064	1,090	.....	(7)	.....	(7)
73	(c) Plunger	1940..number	2,983	25	18	6	1	2	6	3
74		1940..capacity, g.p.m.	199,245	933	740	370	(7)	(7)	220	120
75		1940..average capacity, g.p.m.	67	37	41	62	(7)	(7)	37	40
76	(d) Other	1940..number	308	8	7	2	4	.....	1	.....
77		1940..capacity, g.p.m.	698,019	32,358	32,348	(7)	32,288	.....	(7)	.....
78	Pumping lift, from all sources	1940..average, feet	55	31	34	46	26	43	19	23
79		1930..average, feet	53	27	38	.....	.....	.....	.....	.....
80		1920..average, feet	41	22	13	.....	.....	.....	.....	.....
81	from pumped wells	1940..average, feet	57	34	37	71	(7)	27	19	24
82	from surface sources	1940..average, feet	31	28	31	28	8	49	14	22

[1] Data for 1 enterprise in Illinois River Drainage Basin (2) (number refers to separate map) are included with Pacific Ocean streams total.
[2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

PACIFIC OCEAN STREAMS—Continued (North of San Francisco Bay)				SAN FRANCISCO BAY (Other than Sacramento-San Joaquin Delta and Sacramento and San Joaquin Rivers)										
									Suisun Bay					
Mad River	Eel River	Russian River	Other coastal streams	Total	Direct	Petaluma Creek	Sonoma Creek	Napa River	Total	Direct	Walnut Creek	Alameda Creek	Santa Clara Valley streams	
(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)		(16)	(17)	(18)	(19)	
9	34	214	5	2,725	111	5	12	169	224	149	75	505	1,699	1
24	42	43	13	60	16	14	34	23	118	153	49	56	60	2
1	.....	14	1	47	.....	.....	.....	3	6	3	3	.....	38	3
.....	.....	13	.....	24	.....	.....	.....	.....	.....	.....	.....	.....	15	4
.....	.....	9	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	14	5
.....	.....	5	1	25	.....	.....	.....	2	.....	.....	.....	.....	23	6
.....	.....	.....	.....	4	.....	.....	.....	.....	1	.....	1	.....	3	7
1	.....	6	.....	10	.....	.....	.....	.....	2	2	.....	.....	8	8
.....	.....	3	.....	8	.....	.....	.....	1	3	1	2	.....	4	9
6.0	3.1	4.2	1.1	80.5	1.1	.....	.....	1.1	31.7	30.0	1.7	15.4	31.2	10
.....	.....	38	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	22	11
.....	.....	372	.....	85	.....	.....	.....	.....	.....	.....	.....	.....	46	12
6	3	3	1	68	.....	.....	.....	1	30	30	.....	12	25	13
.....	0.1	1.2	0.1	12.5	1.1	.....	.....	0.1	1.7	.....	1.7	3.4	6.2	14
9	19	152	4	611	3	1	11	109	146	137	9	16	325	15
.....	.....	47	.....	317	.....	.....	.....	.....	.....	.....	.....	.....	160	16
.....	.....	23	.....	381	.....	.....	.....	.....	.....	.....	.....	.....	295	17
0.7	4.7	61.0	0.6	892.5	38.9	0.2	2.3	75.8	48.7	27.8	20.9	192.1	534.5	18
.....	.....	47.6	.....	422.5	.....	.....	.....	.....	.....	.....	.....	.....	219.9	19
.....	.....	27.2	.....	264.6	.....	.....	.....	.....	.....	.....	.....	.....	159.5	20
0.5	1.4	20.8	.....	574.6	5.9	.....	1.0	21.2	12.0	4.3	7.7	87.3	447.2	21
0.2	3.3	39.4	0.6	306.3	31.3	0.2	1.3	54.6	36.5	23.5	13.0	100.0	82.4	22
.....	.....	0.7	.....	8.4	1.7	.....	.....	.....	0.2	.....	0.2	3.4	3.1	23
.....	.....	0.1	.....	3.2	.....	.....	.....	.....	.....	.....	.....	1.4	1.8	24
2	.....	3	.....	21	1	1	1	9	4	3	1	2	3	25
.....	.....	10	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	10	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	2	.....	3	.....	.....	.....	2	1	.....	1	.....	.....	28
2	.....	.....	.....	14	1	.....	1	6	2	2	.....	2	2	29
.....	.....	1	.....	4	.....	1	.....	1	1	1	.....	.....	1	30
2	.....	7	1	63	10	1	2	9	12	4	8	20	9	31
2	.....	7	1	60	10	1	2	8	11	3	8	20	8	32
.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	.....	1	33
.....	.....	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	34
(7)	.....	136	(7)	2,446	22	(7)	(7)	376	1,457	1,438	19	30	548	35
.....	.....	6	.....	43	.....	.....	.....	.....	.....	.....	.....	.....	5	36
.....	.....	207	.....	8,217	.....	.....	.....	.....	.....	.....	.....	.....	12	37
.....	.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	5	39
.....	.....	1	.....	74	.....	.....	.....	.....	.....	.....	.....	.....	65	40
.....	.....	.....	.....	(7)	.....	.....	.....	(7)	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	1,085	.....	.....	.....	.....	.....	.....	.....	.....	966	42
.....	.....	.....	.....	13,075	.....	.....	.....	.....	.....	.....	.....	.....	11,150	43
1	19	173	3	3,103	132	5	8	128	284	178	106	649	1,897	44
.....	.....	188	.....	3,100	.....	.....	.....	.....	.....	.....	.....	.....	1,473	45
.....	.....	89	.....	2,451	.....	.....	.....	.....	.....	.....	.....	.....	1,546	46
(7)	12,740	94,953	433	1,204,661	12,863	515	2,570	41,157	62,015	42,931	19,084	236,080	849,461	47
.....	.....	79,472	.....	1,068,327	.....	.....	.....	.....	.....	.....	.....	.....	675,915	48
.....	.....	30,234	.....	705,510	.....	.....	.....	.....	.....	.....	.....	.....	489,395	49
3	27	276	6	3,325	142	5	20	192	300	188	112	664	2,002	50
.....	.....	249	.....	3,114	.....	.....	.....	.....	.....	.....	.....	.....	1,470	51
35	307	2,957	29	67,134	1,073	28	273	1,495	2,811	1,488	1,323	8,887	52,567	52
.....	.....	2,193	.....	61,205	.....	.....	.....	.....	.....	.....	.....	.....	36,296	53
.....	.....	1,058	.....	36,219	.....	.....	.....	.....	.....	.....	.....	.....	25,887	54
1	18	132	.....	2,944	133	5	16	137	264	156	108	593	1,796	55
(7)	200	1,484	.....	59,573	973	28	217	1,119	2,573	1,332	1,241	7,759	46,904	56
2	9	140	5	340	7	.....	4	49	16	12	4	64	200	57
(7)	107	1,433	27	7,394	98	.....	56	367	198	116	82	1,112	5,563	58
.....	.....	4	[5]1	41	2	.....	.....	6	20	20	.....	7	6	59
.....	.....	40	2	167	(7)	.....	.....	9	40	40	.....	16	100	60
3	27	276	6	3,311	143	5	20	191	302	169	113	665	1,985	61
.....	.....	267	.....	3,193	.....	.....	.....	.....	.....	.....	.....	.....	1,478	62
.....	.....	128	.....	2,102	.....	.....	.....	.....	.....	.....	.....	.....	1,297	63
2,600	16,035	172,154	1,533	1,359,663	13,891	515	6,465	63,749	105,245	81,741	23,504	247,771	922,027	64
.....	.....	144,027	.....	1,212,738	.....	.....	.....	.....	.....	.....	.....	.....	719,616	65
.....	.....	51,239	.....	862,987	.....	.....	.....	.....	.....	.....	.....	.....	590,541	66
3	21	240	5	443	27	.....	10	104	51	41	10	69	182	67
2,600	12,850	155,414	1,530	209,141	2,827	.....	4,330	45,241	19,905	14,405	5,500	29,442	107,396	68
867	612	648	306	472	105	.....	433	435	390	351	550	427	590	69
.....	5	30	.....	2,641	66	.....	7	38	212	121	91	554	1,764	70
.....	3,175	16,550	.....	1,131,406	9,060	.....	1,750	15,598	83,914	66,657	17,257	213,468	807,616	71
.....	635	552	.....	428	137	.....	250	410	396	551	190	385	458	72
.....	.....	6	[5]1	194	45	4	3	48	35	23	12	31	28	73
.....	.....	190	3	11,280	1,729	495	385	2,850	1,346	599	747	1,160	3,315	74
.....	.....	32	3	58	38	124	128	59	38	26	62	37	118	75
.....	1	.....	.....	33	5	1	.....	1	4	4	.....	11	11	76
.....	(7)	.....	.....	7,836	275	(7)	.....	(7)	80	80	.....	3,701	3,700	77
17	38	29	58	96	92	108	37	37	66	54	88	56	118	78
.....	.....	27	.....	102	.....	.....	.....	.....	.....	.....	.....	.....	104	79
.....	.....	23	.....	55	.....	.....	.....	.....	.....	.....	.....	.....	57	80
(7)	35	32	.....	100	94	108	37	46	69	56	91	56	121	81
16	43	25	58	46	45	.....	38	27	34	25	51	42	70	82

[4] Includes siphons and farm pipe lines reported.
[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		PACIFIC OCEAN STREAMS (South of San Francisco Bay)						
		Total	Pajaro and San Benito Rivers (20)	Salinas River (21)	Santa Maria River (22)	San Antonio River (23)	Santa Ynez River (24)	Ventura River (25)	Santa Clara River and Calleguas Creek[1] (26)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	9,038	1,169	893	200	12	148	83	583
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	121	71	125	146	63	100	56	197
3	Diversion dams....1940..total number	275	39	10	3	.....	4	7	16
4	1930..total number	165	26	8	.....	.....	11	.....	18
5	1920..total number	197	29	7	1	.....	9	.....	15
6	(a) Concrete and masonry....1940..number	82	6	3	1	.....	2	1	4
7	(b) Timber....1940..number	18	1	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	143	30	4	2	.....	.....	4	12
9	(d) Other, mixed, and not reported..1940..number	32	2	3	.....	.....	2	2	.....
10	Main canals and laterals....1940..total length, miles	562.0	59.2	35.9	2.5	0.5	3.5	1.6	46.1
11	1930..total length, miles	1,095	27	209	15	.....	9	.....	40
12	1920..total length, miles	1,347	95	215	16	.....	14	.....	79
13	(a) Earth....1940..length, miles	209	48	29	2	.....	3	1	11
14	(b) Lined....1940..length, miles	353.0	11.2	6.9	0.5	0.5	0.5	0.6	35.1
15	1940..capacity, c.f.s.[4]	3,744	131	129	13	.....	18	24	166
16	1930..capacity, c.f.s.[4]	2,994	29	771	12	.....	21	.....	101
17	1920..capacity, c.f.s.[4]	9,418	278	553	69	.....	227	.....	191
18	Pipe lines[5]....1940..total length, miles	12,512.9	332.4	775.6	178.4	7.3	92.8	102.1	1,365.1
19	1930..total length, miles	8,253.8	151.5	361.9	112.9	.....	109.8	.....	496.7
20	1920..total length, miles	4,041.4	83.2	169.6	28.9	.....	28.7	.....	154.0
21	(a) Concrete....1940..length, miles	8,211.7	194.6	678.4	168.3	5.6	60.7	40.4	1,138.4
22	(b) Metal....1940..length, miles	3,985.4	117.4	93.4	10.1	1.7	25.1	61.7	218.6
23	(c) Wood-stave....1940..length, miles	106.7	6.7	1.2	.....	.....	7.0	.....	3.9
24	(d) Other....1940..length, miles	209.1	13.7	2.6	.....	.....	.....	.....	4.2
25	Storage dams....1940..total number	234	10	5	5	.....	8	4	8
26	1930..total number	122	13	2	2	.....	13	.....	1
27	1920..total number	82	9	4	1	.....	8	.....	3
28	(a) Concrete and masonry....1940..number	65	2	.....	.....	.....	.....	2	5
29	(b) Earth and rock....1940..number	157	7	4	5	.....	7	2	3
30	(c) Other, mixed, and not reported..1940..number	12	1	1	.....	.....	1	.....	.....
31	Reservoirs....1940..total number	937	24	38	11	4	13	19	55
32	(a) 1-99 acre-feet capacity....1940..number	886	21	37	11	4	13	19	54
33	(b) 100-999 acre-feet capacity....1940..number	32	2	1	.....	.....	.....	.....	1
34	(c) 1,000 and over acre-feet capacity....1940..number	19	1	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[6]	363,427	4,338	258	42	9	19	102	359
36	1930..total number	519	23	33	3	.....	18	.....	18
37	1930..total capacity, ac.-ft.	248,685	736	128	13	.....	257	.....	86
38	Wells, flowing....1940..number	167	2	16	.....	.....	.....	.....	4
39	1930..number	145	18	20	1	.....	6	.....	1
40	1920..number	713	17	18	13	.....	7	.....	1
41	1940..yield, g.p.m.	17,405	(7)	1,760	.....	.....	.....	.....	490
42	1930..yield, g.p.m.	21,835	4,200	4,010	744	.....	1,550	.....	50
43	1920..yield, g.p.m.	164,294	2,000	3,808	2,700	.....	1,510	.....	700
44	Wells, pumped....1940..number	10,957	1,347	1,306	239	13	191	93	799
45	1930..number	9,649	1,189	1,145	210	.....	212	.....	550
46	1920..number	7,068	688	697	118	.....	60	.....	136
47	1940..yield, g.p.m.	6,030,433	693,680	1,316,770	236,151	5,412	134,677	17,122	647,062
48	1930..yield, g.p.m.	5,317,927	566,306	955,015	249,285	.....	120,725	.....	451,019
49	1920..yield, g.p.m.	3,064,724	186,255	422,195	66,393	.....	16,401	.....	92,049
50	Pumping plants....1940..total number	11,652	1,396	1,238	243	13	199	101	929
51	1930..total number	8,866	1,129	767	189	.....	158	.....	545
52	Prime movers....1940..capacity, hp	302,257	26,861	39,030	7,824	237	3,993	1,484	31,089
53	1930..capacity, hp	244,459	19,884	24,246	7,359	.....	3,511	.....	19,109
54	1920..capacity, hp	129,331	7,083	10,065	2,934	.....	1,611	.....	5,126
55	(a) Electric....1940..number	9,380	1,075	1,131	229	13	163	97	857
56	1940..capacity, hp	239,729	21,147	36,692	7,339	237	3,302	1,424	29,267
57	(b) Internal-combustion....1940..number	2,066	317	77	14	.....	33	4	66
58	1940..capacity, hp	61,031	5,682	2,285	485	.....	630	60	1,789
59	(c) Other....1940..number	206	4	30	.....	.....	3	.....	6
60	1940..capacity, hp	1,497	32	53	.....	.....	61	.....	33
61	Pumps....1940..total number	11,590	1,391	1,214	243	13	198	100	915
62	1930..number	9,357	1,157	785	194	.....	164	.....	584
63	1920..number	6,071	417	286	78	.....	84	.....	161
64	1940..capacity, g.p.m.	6,653,967	742,285	1,340,956	261,174	5,907	141,887	19,597	711,438
65	1930..capacity, g.p.m.	5,623,408	594,032	974,404	252,409	.....	137,660	.....	455,338
66	1920..capacity, g.p.m.	3,694,090	203,845	424,002	204,534	.....	199,630	.....	102,184
67	(a) Centrifugal....1940..number	2,447	206	249	21	.....	54	20	188
68	1940..capacity, g.p.m.	1,419,837	114,860	287,125	17,448	.....	34,141	4,497	139,475
69	1940..average capacity, g.p.m.	580	558	1,153	831	.....	632	225	742
70	(b) Turbine....1940..number	7,624	1,171	923	221	13	138	59	702
71	1940..capacity, g.p.m.	5,135,286	623,967	1,049,918	243,711	5,907	105,856	13,925	566,921
72	1940..average capacity, g.p.m.	674	533	1,138	1,103	454	767	236	808
73	(c) Plunger....1940..number	1,406	13	37	1	.....	5	20	20
74	1940..capacity, g.p.m.	76,345	2,958	2,659	(7)	.....	1,790	1,160	3,056
75	1940..average capacity, g.p.m.	54	228	72	(7)	.....	358	58	153
76	(d) Other....1940..number	113	1	5	.....	.....	1	1	5
77	1940..capacity, g.p.m.	22,499	(7)	1,254	.....	.....	(7)	(7)	1,986
78	Pumping lift, from all sources....1940..average, feet	77	66	60	73	93	53	121	89
79	1930..average, feet	71	64	47	75	.....	39	.....	78
80	1920..average, feet	57	35	25	47	.....	30	.....	67
81	from pumped wells....1940..average, feet	79	68	61	73	93	55	127	89
82	from surface sources...1940..average, feet	55	34	23	14	.....	32	81	85

[1] 1930 and 1920 data for Santa Clara River only.
[2] Miscellaneous coastal streams north of Santa Maria River to San Francisco.
[3] Miscellaneous coastal streams south of Santa Ynez River to Santa Margarita River.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920—Continued

PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)										SACRAMENTO-SAN JOAQUIN DELTA					
												Sacramento River			
													Upper Sacramento River		
Los Angeles and San Gabriel Rivers	Santa Ana River	Santa Margarita River	San Luis Rey River	San Dieguito River	San Diego River	Sweetwater River	Otay and Tia Juana Rivers	Other coastal streams (north)[2]	Other coastal streams (south)[2]	Total	Direct	Total	Total	Direct	
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)		(37)			(38)	
1,207	2,031	183	390	275	491	60	227	672	414	25,316	818	5,253	1,175	201	1
209	169	35	80	89	37	90	24	35	59	202	408	260	185	188	2
23	31	11	14	7	4	2	4	91	9	1,373	3	1,105	719	13	3
14	22	.....	.....	.....	3	.....	.....	.....	.....	781	.....	599	.....	.....	4
29	39	.....	.....	.....	4	.....	.....	.....	.....	1,128	.....	859	.....	.....	5
9	12	2	8	3	2	2	3	19	5	330	1	195	103	3	6
1	1	.....	.....	1	1	.....	.....	13	.....	271	.....	241	178	1	7
12	17	5	3	3	1	.....	1	45	4	450	2	360	241	7	8
1	1	4	3	.....	.....	.....	.....	14	.....	322	.....	309	197	2	9
77.5	222.9	8.4	17.3	18.1	4.2	0.7	.....	56.9	6.7	15,120.1	476.8	4,795.1	1,303.3	294.8	10
418	238	.....	.....	.....	36	.....	.....	.....	.....	13,314	.....	4,817	.....	.....	11
295	336	.....	.....	.....	4	.....	.....	.....	.....	19,428	.....	6,529	.....	.....	12
13	49	7	4	3	4	.....	.....	33	2	14,065	417	4,543	1,279	291	13
64.5	173.9	1.4	13.3	15.1	0.2	0.7	.....	23.9	4.7	1,055.1	59.8	252.1	24.3	3.8	14
1,236	1,206	70	115	134	59	7	24	350	62	71,974	6,246	24,039	4,870	579	15
792	826	.....	.....	.....	27	.....	.....	.....	.....	64,374	.....	19,097	.....	.....	16
4,206	2,096	.....	.....	.....	.....	.....	.....	.....	.....	79,142	.....	23,514	.....	.....	17
2,376.6	4,471.6	110.6	753.8	464.1	458.9	135.2	74.0	300.2	514.2	7,436.9	192.9	1,074.9	214.3	51.4	18
2,166.4	2,814.1	.....	.....	.....	312.5	.....	.....	.....	.....	4,819.4	.....	796.1	.....	.....	19
1,361.1	924.5	.....	.....	.....	145.2	.....	.....	.....	.....	1,757.8	.....	361.2	.....	.....	20
1,641.2	3,541.3	62.3	143.9	151.6	89.7	13.5	20.6	68.6	192.6	6,487.8	146.6	635.4	124.8	14.1	21
676.7	764.7	47.9	604.0	300.3	364.4	119.4	51.5	217.8	310.7	766.4	39.0	320.4	48.8	23.9	22
43.4	9.2	.....	5.7	10.1	3.5	1.5	0.3	10.7	3.5	131.0	4.9	81.6	10.2	2.5	23
15.3	156.4	0.4	0.2	2.1	1.3	0.8	1.6	3.1	7.4	51.7	2.4	37.5	30.5	10.9	24
21	56	20	9	4	4	6	3	55	16	355	1	163	90	5	25
11	17	.....	.....	.....	2	.....	.....	.....	.....	218	.....	140	.....	.....	26
4	12	.....	.....	.....	2	.....	.....	.....	.....	285	.....	200	.....	.....	27
13	13	1	1	2	2	6	.....	12	6	47	.....	30	3	1	28
8	40	19	8	2	2	.....	2	39	9	284	1	124	83	2	29
.....	3	.....	.....	.....	.....	.....	1	4	1	24	.....	9	4	2	30
220	180	27	50	17	43	10	15	146	65	1,305	2	196	98	6	31
218	161	26	48	16	39	10	15	140	54	1,186	2	103	48	6	32
.....	10	.....	1	.....	.....	.....	.....	6	11	42	.....	34	24	.....	33
2	9	1	1	1	4	.....	.....	.....	.....	77	.....	59	26	.....	34
12,098	117,046	1,328	203,304	7,367	6,560	50	24	2,618	7,905	2,611,430	(7)	1,554,168	179,187	61	35
117	132	.....	.....	.....	19	.....	.....	.....	.....	949	.....	176	.....	.....	36
110,843	79,082	.....	.....	.....	18,039	.....	.....	.....	.....	2,100,255	.....	949,274	.....	.....	37
9	127	4	4	.....	.....	.....	.....	1	.....	43	.....	29	19	1	38
1	90	.....	.....	.....	.....	.....	.....	.....	.....	72	.....	39	.....	.....	39
205	360	.....	.....	.....	1	.....	.....	.....	.....	181	.....	36	.....	.....	40
3,602	10,248	540	115	.....	.....	.....	.....	(7)	.....	3,368	.....	1,543	793	(7)	41
45	10,542	.....	.....	.....	.....	.....	.....	.....	.....	14,400	.....	3,630	.....	.....	42
53,326	62,693	.....	.....	.....	8	.....	.....	.....	.....	51,765	.....	2,957	.....	.....	43
1,522	2,445	159	479	332	625	82	255	566	504	32,415	349	5,406	620	131	44
1,260	2,379	.....	.....	.....	453	.....	.....	.....	.....	31,744	.....	5,450	.....	.....	45
1,883	1,816	.....	.....	.....	533	.....	.....	.....	.....	14,657	.....	3,508	.....	.....	46
824,775	1,650,930	30,725	84,032	40,806	61,238	13,738	47,169	125,523	100,623	20,042,058	231,857	3,606,042	244,627	60,099	47
795,993	1,526,546	.....	.....	.....	83,812	.....	.....	.....	.....	16,730,369	.....	2,932,411	.....	.....	48
1,000,970	1,002,743	.....	.....	.....	54,216	.....	.....	.....	.....	6,384,882	.....	1,473,602	.....	.....	49
1,650	2,572	170	487	346	616	84	255	795	558	34,878	1,154	6,083	742	159	50
1,245	2,290	.....	.....	.....	311	.....	.....	.....	.....	32,490	.....	6,147	.....	.....	51
56,122	106,706	1,234	4,155	2,423	4,040	687	1,581	7,808	6,983	552,187	23,056	106,360	6,717	1,590	52
46,570	89,251	.....	.....	.....	2,634	.....	.....	.....	.....	468,661	.....	104,346	.....	.....	53
41,883	45,345	.....	.....	.....	2,313	.....	.....	.....	.....	201,074	.....	64,163	.....	.....	54
1,277	2,032	80	315	276	498	55	137	639	506	30,011	898	5,050	563	110	55
36,079	81,128	830	2,668	2,100	3,486	489	1,196	6,104	6,241	473,862	19,538	91,003	4,478	1,037	56
360	529	68	148	63	93	26	66	151	51	4,779	254	1,010	166	47	57
19,271	25,240	374	1,456	315	514	190	328	1,673	739	77,576	3,497	15,152	2,188	551	58
13	11	22	24	7	25	3	52	5	1	88	2	23	13	2	59
772	338	30	31	8	40	8	57	31	(7)	749	(7)	205	51	(7)	60
1,662	2,586	169	477	340	612	82	246	797	545	34,827	1,161	6,097	748	160	61
1,301	2,467	.....	.....	.....	324	.....	.....	.....	.....	33,129	.....	6,289	.....	.....	62
1,776	1,836	.....	.....	.....	374	.....	.....	.....	.....	14,849	.....	3,898	.....	.....	63
948,717	1,866,098	37,259	87,485	53,227	82,276	14,146	47,770	183,526	109,919	29,694,351	2,604,039	8,580,013	394,389	84,775	64
830,498	1,609,257	.....	.....	.....	73,430	.....	.....	.....	.....	23,856,244	.....	8,309,204	.....	.....	65
1,038,085	1,048,090	.....	.....	.....	65,462	.....	.....	.....	.....	11,584,371	.....	4,184,240	.....	.....	66
308	428	22	118	115	164	28	109	354	63	15,186	900	3,276	432	99	67
212,591	342,174	11,511	24,518	27,529	49,346	5,889	25,512	104,141	19,080	15,552,658	2,091,141	5,724,025	217,111	43,266	68
690	799	523	208	239	301	210	234	294	303	1,024	2,323	1,747	503	437	69
1,276	2,053	25	149	90	97	34	35	270	368	18,312	233	2,703	274	54	70
720,072	1,499,516	22,930	55,497	20,187	22,754	7,720	19,448	72,870	84,087	13,494,822	464,710	2,403,618	171,969	41,265	71
564	730	917	372	224	235	227	556	270	228	737	1,994	889	628	764	72
47	97	118	191	132	336	20	101	164	104	1,187	11	69	27	7	73
10,675	16,313	2,735	6,121	5,452	9,688	537	2,805	5,894	4,487	97,687	327	5,019	746	244	74
227	168	23	32	41	29	27	28	36	43	82	30	73	28	35	75
31	8	4	19	3	15	.....	1	9	10	142	17	49	15	.....	76
5,379	8,095	83	1,349	59	488	.....	(7)	921	2,265	549,184	47,861	447,351	4,563	.....	77
86	90	59	66	54	73	65	41	66	116	42	18	36	32	33	78
77	82	.....	.....	.....	62	.....	.....	.....	.....	42	.....	30	.....	.....	79
63	61	.....	.....	.....	56	.....	.....	.....	.....	31	.....	26	.....	.....	80
86	90	59	67	53	74	67	41	79	116	43	31	38	34	36	81
104	96	67	55	73	47	52	28	43	131	20	11	23	19	20	82

[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

(For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)

			SACRAMENTO-SAN JOAQUIN DELTA—Continued						
			Sacramento River—Continued						
			Upper Sacramento River—Continued						
			Pit River			Clear Creek (41)	Cow Creek (42)	Bear Creek (43)	Cottonwood Creek (44)
			Total	Direct (39)	Goose Lake (40)				
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	387	336	51	19	96	32	28
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	295	271	449	65	72	57	204
3	Diversion dams	1940..total number	507	453	54	7	62	34	19
4		1930..total number	194	.....	.....	.....	14	.....	15
5		1920..total number	322	.....	.....	.....	40	.....	16
6	(a) Concrete and masonry	1940..number	60	59	1	3	6	4	3
7	(b) Timber	1940..number	136	113	23	.....	21	7	2
8	(c) Earth and rock	1940..number	140	126	14	2	34	23	6
9	(d) Other, mixed, and not reported	1940..number	171	155	16	2	1	.....	8
10	Main canals and laterals	1940..total length, miles	492.2	430.2	62.0	16.0	144.1	42.7	42.2
11		1930..total length, miles	372	.....	.....	.....	51	.....	88
12		1920..total length, miles	808	.....	.....	.....	141	.....	108
13	(a) Earth	1940..length, miles	485	423	62	16	142	42	42
14	(b) Lined	1940..length, miles	7.2	7.2	.....	.....	2.1	0.7	0.2
15		1940..capacity, c.f.s.[1]	2,716	2,498	218	74	263	105	162
16		1930..capacity, c.f.s.[1]	2,125	.....	.....	.....	152	.....	131
17		1920..capacity, c.f.s.[1]	5,160	.....	.....	.....	367	.....	147
18	Pipe lines[2]	1940..total length, miles	17.6	15.6	2.0	4.7	3.9	0.2	2.2
19		1930..total length, miles	1.6	.....	.....	.....	.....	.....	1.5
20		1920..total length, miles	2.9	.....	.....	.....	0.4	.....	0.6
21	(a) Concrete	1940..length, miles	1.2	1.2	.....	.....	0.8	.....	.....
22	(b) Metal	1940..length, miles	9.4	7.4	2.0	4.6	2.4	0.2	2.1
23	(c) Wood-stave	1940..length, miles	6.8	6.8	.....	0.1	0.7	.....	.....
24	(d) Other	1940..length, miles	0.2	0.2	.....	.....	.....	.....	0.1
25	Storage dams	1940..total number	72	61	11	2	7	.....	2
26		1930..total number	32	.....	.....	.....	1	.....	3
27		1920..total number	63	.....	.....	.....	.....	.....	1
28	(a) Concrete and masonry	1940..number	1	1	.....	.....	.....	.....	1
29	(b) Earth and rock	1940..number	70	59	11	2	6	.....	1
30	(c) Other, mixed, and not reported	1940..number	1	1	.....	.....	1	.....	.....
31	Reservoirs	1940..total number	78	66	12	2	7	.....	2
32	(a) 1-99 acre-feet capacity	1940..number	30	24	6	1	7	.....	1
33	(b) 100-999 acre-feet capacity	1940..number	23	23	.....	1	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	25	19	6	.....	.....	.....	1
35		1940..total capacity, ac.-ft.[3]	173,236	165,185	8,051	(4)	23	.....	(4)
36		1930..total number	40	.....	.....	.....	1	.....	3
37		1930..total capacity, ac.-ft.	132,588	.....	.....	.....	5	.....	5,544
38	Wells, flowing	1940..number	17	15	2	.....	.....	.....	.....
39		1930..number	14	.....	.....	.....	.....	.....	.....
40		1920..number	14	.....	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	188	148	(4)	.....	.....	.....	.....
42		1930..yield, g.p.m.	1,185	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	693	.....	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	26	23	3	3	1	1	4
45		1930..number	4	.....	.....	.....	2	.....	8
46		1920..number	4	.....	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	7,080	5,605	1,475	1,300	(4)	(4)	1,365
48		1930..yield, g.p.m.	252	.....	.....	.....	700	.....	1,123
49		1920..yield, g.p.m.	395	.....	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	86	83	3	7	8	3	11
51		1930..total number	45	.....	.....	.....	8	.....	14
52	Prime movers	1940..capacity, hp	881	831	50	45	37	20	72
53		1930..capacity, hp	449	.....	.....	.....	71	.....	76
54		1920..capacity, hp	440	.....	.....	.....	87	.....	100
55	(a) Electric	1940..number	55	55	.....	2	3	.....	1
56		1940..capacity, hp	550	550	.....	(4)	18	.....	(4)
57	(b) Internal-combustion	1940..number	23	20	3	5	5	3	9
58		1940..capacity, hp	298	248	50	39	19	20	61
59	(c) Other	1940..number	8	8	.....	.....	.....	.....	1
60		1940..capacity, hp	33	33	.....	.....	.....	.....	(4)
61	Pumps	1940..total number	86	83	3	7	8	3	13
62		1930..number	46	.....	.....	.....	8	.....	14
63		1920..number	36	.....	.....	.....	11	.....	10
64		1940..capacity, g.p.m.	108,756	107,256	1,500	1,890	1,572	600	5,266
65		1930..capacity, g.p.m.	46,760	.....	.....	.....	1,545	.....	3,183
66		1920..capacity, g.p.m.	32,886	.....	.....	.....	8,955	.....	7,565
67	(a) Centrifugal	1940..number	55	53	2	3	6	2	7
68		1940..capacity, g.p.m.	74,011	73,311	(4)	1,075	1,155	(4)	4,430
69		1940..average capacity, g.p.m.	1,346	1,383	(4)	358	192	(4)	633
70	(b) Turbine	1940..number	19	18	1	.....	1	.....	1
71		1940..capacity, g.p.m.	34,520	33,720	(4)	.....	(4)	.....	(4)
72		1940..average capacity, g.p.m.	1,817	1,873	(4)	.....	(4)	.....	(4)
73	(c) Plunger	1940..number	10	10	.....	3	.....	.....	1
74		1940..capacity, g.p.m.	115	115	.....	215	.....	.....	(4)
75		1940..average capacity, g.p.m.	12	12	.....	72	.....	.....	(4)
76	(d) Other	1940..number	2	2	.....	1	1	1	4
77		1940..capacity, g.p.m.	(4)	(4)	.....	(4)	(4)	(4)	121
78	Pumping lift, from all sources	1940..average, feet	18	17	27	35	28	25	45
79		1930..average, feet	13	.....	.....	.....	15	.....	31
80		1920..average, feet	18	.....	.....	.....	14	.....	33
81	from pumped wells	1940..average, feet	31	31	30	40	(4)	(4)	57
82	from surface sources	1940..average, feet	13	13	22	27	27	28	37

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued														
Sacramento River—Continued														
Upper Sacramento River—Continued						Middle Sacramento River								
Battle Creek (45)	Paynes Creek (46)	Redbank Creek group (47)	Antelope and Mill Creeks (48)	Thomas Creek (49)	Deer Creek (50)	Total	Direct (51)	Rock Creek (52)	Stony Creek (53)	Chico Creek (54)	Butte Creek (55)	West side streams (56)	Feather River Total	
45	7	18	14	320	8	2,125	385	88	66	158	92	78	1,258	1
138	104	512	923	40	1,028	425	1,306	60	355	144	183	93	258	2
41	7	2	13	9	5	357	9	7	22	8	14	.....	297	3
48	.....	.....	.....	.....	.....	.....	.....	.....	26	.....	.....	.....	161	4
26	.....	.....	.....	.....	.....	.....	.....	.....	44	.....	.....	.....	262	5
7	6	1	6	1	3	80	2	.....	8	3	4	.....	63	6
10	1	.....	.....	.....	.....	57	4	.....	.....	.....	.....	.....	53	7
19	.....	1	2	7	.....	113	3	.....	12	.....	8	.....	90	8
5	.....	.....	5	1	2	107	.....	7	2	5	2	.....	91	9
40.4	9.3	6.0	145.1	47.2	23.3	2,728.1	1,066.9	9.0	186.4	32.0	90.3	5.1	1,318.4	10
85	.....	.....	.....	.....	.....	.....	.....	.....	177	.....	.....	.....	1,696	11
118	.....	.....	.....	.....	.....	.....	.....	.....	211	.....	.....	.....	1,162	12
40	9	6	141	45	20	2,544	1,090	9	81	32	83	5	1,254	13
0.4	0.3	.....	4.1	2.2	3.3	184.1	6.9	.....	105.4	.....	7.3	0.1	64.4	14
210	9	13	248	216	275	14,953	7,572	55	389	396	230	45	6,266	15
172	.....	.....	.....	.....	.....	.....	.....	.....	607	.....	.....	.....	5,636	16
358	.....	.....	.....	.....	.....	.....	.....	.....	1,590	.....	.....	.....	5,634	17
0.9	1.0	71.9	7.2	49.8	3.5	531.9	78.1	5.9	3.9	4.5	49.0	2.4	388.1	18
1.0	.....	.....	.....	.....	.....	.....	.....	.....	4.1	.....	.....	.....	304.2	19
0.3	.....	.....	.....	.....	.....	.....	.....	.....	17.5	.....	.....	.....	123.5	20
0.9	.....	71.5	7.2	25.6	3.5	355.9	69.2	5.7	3.7	3.8	5.8	2.4	265.3	21
.....	1.0	0.4	.....	4.8	.....	128.5	6.8	0.2	0.2	0.7	6.2	.....	114.4	22
.....	.....	.....	.....	0.1	.....	46.3	1.4	.....	.....	.....	37.0	.....	7.9	23
.....	.....	.....	.....	19.3	.....	1.2	0.7	.....	.....	.....	.....	.....	0.5	24
.....	.....	2	.....	.....	.....	53	.....	.....	3	.....	1	1	48	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	67	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	85	27
.....	.....	.....	.....	.....	.....	23	.....	.....	3	.....	.....	1	19	28
.....	.....	2	.....	.....	.....	26	.....	.....	.....	.....	1	.....	25	29
.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	4	30
.....	.....	3	.....	.....	.....	66	1	.....	3	.....	1	.....	61	31
.....	.....	3	.....	.....	.....	32	1	.....	1	.....	.....	.....	30	32
.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	6	33
.....	.....	.....	.....	.....	.....	28	.....	.....	2	.....	1	.....	25	34
.....	.....	10	.....	.....	.....	1,000,112	(4)	.....	101,202	.....	(4)	.....	895,738	35
1	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	69	36
300	.....	.....	.....	.....	.....	.....	.....	.....	101,211	.....	.....	.....	269,310	37
.....	.....	.....	.....	1	.....	8	.....	.....	.....	.....	.....	1	7	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	40
.....	.....	.....	.....	(4)	.....	550	.....	.....	.....	.....	.....	(4)	250	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	368	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,314	43
1	3	40	6	397	7	2,357	401	82	44	178	111	91	1,450	44
2	.....	.....	.....	.....	.....	.....	.....	.....	48	.....	.....	.....	1,632	45
2	.....	.....	.....	.....	.....	.....	.....	.....	68	.....	.....	.....	853	46
(4)	1,270	28,490	2,155	138,268	4,025	1,884,904	474,523	53,800	27,285	104,277	124,505	73,908	1,026,606	47
1,900	.....	.....	.....	.....	.....	.....	.....	.....	25,950	.....	.....	.....	940,578	48
750	.....	.....	.....	.....	.....	.....	.....	.....	40,451	.....	.....	.....	344,308	49
1	2	43	7	409	6	2,705	606	91	46	200	110	97	1,555	50
2	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	1,636	51
(4)	(4)	1,155	90	2,696	98	62,133	30,156	1,368	432	4,023	2,585	1,730	21,839	52
35	.....	.....	.....	.....	.....	.....	.....	.....	516	.....	.....	.....	22,000	53
63	.....	.....	.....	.....	.....	.....	.....	.....	759	.....	.....	.....	9,997	54
1	.....	19	6	362	4	2,167	501	58	35	124	59	83	1,307	55
(4)	.....	484	80	2,219	80	53,124	28,002	818	364	2,654	1,422	1,488	18,376	56
.....	2	24	1	45	2	534	104	33	11	76	51	14	245	57
.....	(4)	671	(4)	471	(4)	8,899	2,139	550	68	1,369	1,163	242	3,368	58
.....	.....	.....	.....	2	.....	4	1	.....	.....	.....	.....	.....	3	59
.....	.....	.....	.....	(4)	.....	110	(4)	.....	.....	.....	.....	.....	95	60
1	3	43	7	410	7	2,718	608	95	46	198	113	98	1,560	61
2	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	1,668	62
4	.....	.....	.....	.....	.....	.....	.....	.....	66	.....	.....	.....	839	63
(4)	(4)	32,825	5,305	148,005	4,025	5,850,195	3,882,091	74,520	28,145	270,487	127,905	92,045	1,375,002	64
1,900	.....	.....	.....	.....	.....	.....	.....	.....	28,415	.....	.....	.....	1,231,596	65
3,300	.....	.....	.....	.....	.....	.....	.....	.....	45,959	.....	.....	.....	397,428	66
1	1	6	3	243	6	1,443	336	49	27	107	22	50	852	67
(4)	(4)	5,410	655	83,159	3,100	4,159,166	3,067,568	36,155	14,755	180,087	15,405	48,400	796,796	68
(4)	(4)	902	218	342	517	2,882	9,130	738	546	1,683	700	968	935	69
.....	1	36	3	158	1	1,234	258	46	18	88	89	44	691	70
.....	(4)	27,405	1,500	64,254	(4)	1,266,742	410,998	38,365	12,940	87,630	111,210	40,895	564,704	71
.....	(4)	761	500	407	(4)	1,027	1,593	834	719	996	1,250	929	817	72
.....	1	1	.....	4	.....	19	.....	.....	.....	2	1	2	14	73
.....	(4)	(4)	.....	127	.....	2,122	.....	.....	.....	(4)	(4)	(4)	1,452	74
.....	(4)	(4)	.....	32	.....	112	.....	.....	.....	(4)	(4)	(4)	104	75
.....	.....	.....	1	5	.....	22	14	.....	1	1	1	2	3	76
.....	.....	.....	(4)	465	.....	422,165	403,525	.....	(4)	(4)	(4)	(4)	12,050	77
(4)	(4)	47	27	33	52	33	32	33	27	29	37	42	33	78
43	.....	.....	.....	.....	.....	.....	.....	.....	17	.....	.....	.....	28	79
25	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	.....	.....	22	80
(4)	(4)	49	26	33	52	34	37	34	28	30	37	44	34	81
.....	.....	40	30	17	.....	21	20	18	12	17	50	15	23	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued							
		Sacramento River—Continued							
		Middle Sacramento River—Continued			Lower Sacramento River				
		Feather River—Continued							
		Direct (57)	Yuba and Upper Bear Rivers[3] (58)	Lower Bear River (59)	Total	Direct (60)	American River (61)	Cache Creek (62)	Putah Creek (63)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	1,028	135	95	1,953	304	982	390	277
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	210	742	87	127	303	52	193	106
3	Diversion dams....1940..total number	212	81	4	29	2	20	6	1
4	1930..total number	.....	20	.....	.....	.....	33	3	.....
5	1920..total number	.....	41	.....	.....	.....	51	6	.....
6	(a) Concrete and masonry....1940..number	43	20	.....	12	.....	10	1	1
7	(b) Timber....1940..number	51	1	1	6	.....	5	1	.....
8	(c) Earth and rock....1940..number	36	52	2	6	.....	2	4	.....
9	(d) Other, mixed, and not reported..1940..number	82	8	1	5	2	3	.....	.....
10	Main canals and laterals....1940..total length, miles	685.6	628.8	4.0	763.7	138.5	372.9	188.7	63.6
11	1930..total length, miles	.....	672	.....	.....	.....	304	227	.....
12	1920..total length, miles	.....	577	.....	.....	.....	1,872	202	.....
13	(a) Earth....1940..length, miles	660	590	4	720	131	349	180	60
14	(b) Lined....1940..length, miles	25.6	38.8	.....	43.7	7.5	23.9	8.7	3.6
15	1940..capacity, c.f.s.[4]	3,801	2,445	20	4,216	1,010	1,852	1,082	272
16	1930..capacity, c.f.s.[4]	.....	1,045	.....	.....	.....	356	679	.....
17	1920..capacity, c.f.s.[4]	.....	1,235	.....	.....	.....	1,264	1,197	.....
18	Pipe lines[5]....1940..total length, miles	275.2	81.8	31.1	328.7	27.2	224.2	49.4	27.9
19	1930..total length, miles	.....	17.1	.....	.....	.....	135.2	10.0	.....
20	1920..total length, miles	.....	0.2	.....	.....	.....	77.8	0.4	.....
21	(a) Concrete....1940..length, miles	230.2	4.8	30.3	154.7	21.1	81.8	29.2	22.6
22	(b) Metal....1940..length, miles	41.2	72.4	0.8	143.1	6.1	115.1	16.6	5.3
23	(c) Wood-stave....1940..length, miles	3.5	4.4	.....	25.1	.....	25.1	.....	.....
24	(d) Other....1940..length, miles	0.3	0.2	.....	5.8	.....	2.2	3.6	.....
25	Storage dams....1940..total number	9	38	1	20	1	15	2	2
26	1930..total number	.....	11	.....	.....	.....	17	2	.....
27	1920..total number	.....	33	.....	.....	.....	31	3	.....
28	(a) Concrete and masonry....1940..number	2	16	1	4	.....	3	1	.....
29	(b) Earth and rock....1940..number	5	20	.....	15	1	12	.....	2
30	(c) Other, mixed, and not reported..1940..number	2	2	.....	1	.....	.....	1	.....
31	Reservoirs....1940..total number	14	46	1	32	4	21	3	4
32	(a) 1-99 acre-feet capacity....1940..number	11	19	.....	23	3	15	2	3
33	(b) 100-999 acre-feet capacity....1940..number	.....	6	.....	4	1	3	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	3	21	1	5	.....	3	1	1
35	1940..total capacity, ac.-ft.[6]	14,767	875,971	(7)	374,869	133	53,962	319,002	1,772
36	1930..total number	.....	9	.....	.....	.....	25	1	.....
37	1930..total capacity, ac.-ft.	.....	91,530	.....	.....	.....	14,517	420,000	.....
38	Wells, flowing....1940..number	7	.....	.....	2	.....	.....	2	.....
39	1930..number	.....	.....	.....	.....	.....	4	.....	.....
40	1920..number	.....	2	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	250	.....	.....	(7)	.....	.....	(7)	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	102	.....	.....
43	1920..yield, g.p.m.	.....	30	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	1,276	41	133	2,429	337	1,245	503	344
45	1930..number	.....	11	.....	.....	.....	364	410	.....
46	1920..number	.....	8	.....	.....	.....	163	144	.....
47	1940..yield, g.p.m.	873,864	48,622	104,120	1,476,511	269,028	543,745	448,953	214,785
48	1930..yield, g.p.m.	.....	1,900	.....	.....	.....	111,215	291,733	.....
49	1920..yield, g.p.m.	.....	2,725	.....	.....	.....	93,694	91,211	.....
50	Pumping plants....1940..total number	1,356	65	134	2,636	442	1,291	513	390
51	1930..total number	.....	13	.....	.....	.....	430	277	.....
52	Prime movers....1940..capacity, hp	18,988	822	2,029	37,510	10,685	12,148	8,436	6,241
53	1930..capacity, hp	.....	54	.....	.....	.....	4,524	5,175	.....
54	1920..capacity, hp	.....	1,572	.....	.....	.....	2,358	1,524	.....
55	(a) Electric....1940..number	1,133	47	127	2,320	378	1,206	384	352
56	1940..capacity, hp	15,768	661	1,947	33,401	9,694	11,253	6,799	5,655
57	(b) Internal-combustion....1940..number	222	16	7	310	63	82	128	37
58	1940..capacity, hp	3,198	88	82	4,065	990	892	1,607	576
59	(c) Other....1940..number	1	2	.....	6	1	3	1	1
60	1940..capacity, hp	(7)	(7)	.....	44	(7)	3	(7)	(7)
61	Pumps....1940..total number	1,360	66	134	2,631	445	1,279	516	391
62	1930..number	.....	13	.....	.....	.....	440	228	.....
63	1920..number	.....	11	.....	.....	.....	190	76	.....
64	1940..capacity, g.p.m.	1,210,782	57,880	106,340	2,335,429	942,229	578,311	489,664	325,225
65	1930..capacity, g.p.m.	.....	2,205	.....	.....	.....	193,128	302,383	.....
66	1920..capacity, g.p.m.	.....	2,751	.....	.....	.....	95,838	92,391	.....
67	(a) Centrifugal....1940..number	759	46	47	1,401	275	811	233	82
68	1940..capacity, g.p.m.	717,033	47,963	31,800	1,347,748	704,832	377,297	208,725	56,894
69	1940..average capacity, g.p.m.	945	1,043	677	962	2,563	465	896	694
70	(b) Turbine....1940..number	592	12	87	1,195	161	448	279	307
71	1940..capacity, g.p.m.	480,659	9,505	74,540	964,907	218,875	198,988	278,809	268,235
72	1940..average capacity, g.p.m.	812	792	857	807	1,359	444	999	874
73	(c) Plunger....1940..number	6	8	.....	23	2	18	[8] 1	2
74	1940..capacity, g.p.m.	1,040	412	.....	2,151	(7)	2,003	30	(7)
75	1940..average capacity, g.p.m.	173	52	.....	94	(7)	111	30	(7)
76	(d) Other....1940..number	3	.....	.....	12	7	2	3	.....
77	1940..capacity, g.p.m.	12,050	.....	.....	20,623	18,500	(7)	2,100	.....
78	Pumping lift, from all sources....1940..average, feet	32	32	36	41	29	43	36	55
79	1930..average, feet	.....	16	.....	.....	.....	29	27	.....
80	1920..average, feet	.....	35	.....	.....	.....	26	24	.....
81	from pumped wells....1940..average, feet	33	30	36	42	31	42	37	55
82	from surface sources...1940..average, feet	19	35	.....	28	22	48	25	36

[1] 1920 data for Tule River only.
[2] Includes that portion of Tulare Lake area not under flood water in Census of 1940. Tulare Lake was dry and tabulated separately, Censuses of 1920 and 1930.
[3] 1930 and 1920 data for Yuba River only.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued																
San Joaquin River																
Total	Direct	Avenal and El Paso Creeks group	Caliente Creek	Kern River			Tule River and Deer Creek[1]	Kaweah River	Panoche and Los Gatos Creeks group	Kings River[2]	Fresno River	Merced River	Orestimba and Los Banos Creeks group	Tuolumne River	Stanislaus River	
				Total	Direct	Poso Creek and White River										
	(64)	(65)	(66)		(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	
16,796	98	14	151	1,325	1,009	316	1,226	2,259	79	9,700	1,144	430	52	168	150	1
194	3,481	554	151	369	406	213	110	100	1,675	126	126	389	230	1,534	796	2
222	5	3	2	9	7	2	37	43	3	54	6	17	.....	26	15	3
139	3	.....	.....	28	.....	5	10	25	.....	27	6	11	.....	20	7	4
210	23	.....	.....	17	.....	.....	44	19	.....	27	5	17	.....	17	12	5
114	1	2	.....	4	4	.....	26	28	.....	32	3	5	.....	9	4	6
29	2	.....	.....	4	3	1	1	.....	.....	8	2	3	.....	9	.....	7
09	2	1	2	1	.....	1	10	11	3	13	1	9	.....	7	9	8
10	.....	.....	.....	.....	.....	.....	.....	4	.....	1	.....	.....	.....	3	2	9
9,626.1	852.5	1.0	0.3	1,252.1	1,226.1	26.0	188.3	424.7	10.0	2,636.2	150.4	1,350.1	14.4	2,060.7	685.4	10
8,183	1,311	.....	.....	1,179	.....	6	145	566	.....	2,084	109	1,260	.....	520	908	11
11,554	3,340	.....	.....	567	.....	.....	581	836	.....	1,873	112	766	.....	1,533	1,003	12
8,902	753	1	.....	1,249	1,223	26	173	397	10	2,596	150	1,255	9	1,735	574	13
724.1	99.5	.....	0.3	3.1	3.1	.....	15.3	27.7	.....	40.2	0.4	95.1	5.4	325.7	111.4	14
40,262	5,294	7	4	4,494	4,480	14	776	2,557	1,208	16,957	553	2,011	81	5,102	1,218	15
44,723	8,210	.....	.....	4,749	.....	12	758	2,865	.....	15,757	209	5,919	.....	4,396	1,573	16
53,703	11,431	.....	.....	6,273	.....	.....	2,465	5,133	.....	17,194	314	2,171	.....	5,834	1,444	17
5,645.1	70.6	13.1	275.4	1,044.3	716.0	328.3	543.9	1,105.5	108.3	1,707.2	163.0	111.3	8.1	324.0	170.4	18
3,704.5	91.3	.....	.....	635.4	.....	126.0	358.3	621.4	.....	1,063.8	15.5	174.6	.....	419.9	50.9	19
1,279.5	184.8	.....	.....	83.1	.....	.....	162.7	269.7	.....	239.3	6.3	5.2	.....	14.4	41.0	20
5,210.0	64.0	12.5	265.7	1,011.6	684.7	326.9	428.7	921.0	106.0	1,656.5	162.8	108.5	7.0	317.1	148.6	21
383.1	5.0	0.6	9.1	32.2	30.8	1.4	110.3	149.3	2.3	41.8	0.1	2.7	1.1	6.8	21.8	22
42.5	1.6	.....	.....	0.5	0.5	.....	4.8	34.4	.....	1.1	0.1	.....	.....	.....	.....	23
9.5	.....	.....	0.6	.....	.....	.....	0.1	0.8	.....	7.8	.....	0.1	.....	0.1	.....	24
173	2	1	1	86	81	5	54	5	1	3	1	4	.....	7	8	25
53	1	.....	.....	2	.....	.....	.....	1	.....	1	1	4	.....	13	27	26
52	2	.....	.....	11	.....	.....	2	1	.....	5	.....	1	.....	15	13	27
13	.....	.....	.....	1	1	.....	.....	2	.....	2	1	1	.....	4	2	28
148	1	1	1	82	80	2	48	3	1	1	.....	1	.....	3	6	29
12	1	.....	.....	3	.....	3	6	.....	.....	.....	.....	2	.....	.....	.....	30
1,080	4	3	36	644	439	205	287	17	1	28	37	6	.....	11	6	31
1,060	2	3	36	643	438	205	287	16	1	22	37	5	.....	5	3	32
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	33
17	2	.....	.....	1	1	.....	.....	1	.....	6	.....	1	.....	4	2	34
1,045,322	4,503	8	388	234,036	233,582	454	859	2,707	(7)	8,106	81	281,036	.....	366,196	147,397	35
750	3	.....	.....	434	.....	41	142	34	.....	22	2	6	.....	7	25	36
1,142,133	90,033	.....	.....	210,532	.....	811	426	3,157	.....	109	4	289,005	.....	365,498	164,178	37
13	.....	.....	.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	38
28	2	.....	.....	19	.....	.....	.....	.....	.....	2	.....	.....	.....	2	2	39
137	49	.....	.....	17	.....	.....	2	3	.....	34	1	1	.....	1	.....	40
1,741	.....	.....	.....	600	600	.....	.....	.....	.....	.....	.....	.....	.....	1,141	.....	41
7,712	1,800	.....	.....	1,475	.....	.....	.....	.....	.....	950	.....	.....	.....	3,000	162	42
48,583	15,155	.....	.....	13,850	.....	.....	251	17	.....	10,000	200	75	.....	400	.....	43
23,542	135	21	215	2,052	1,444	608	1,924	3,634	221	12,457	1,833	543	75	306	126	44
23,584	85	.....	.....	2,143	.....	594	1,676	4,644	.....	10,887	266	448	.....	188	45	45
9,758	1,531	.....	.....	441	.....	.....	1,146	2,136	.....	2,547	145	216	.....	63	34	46
14,310,860	113,723	15,510	175,078	1,523,244	1,155,482	367,762	974,234	1,838,747	211,465	7,159,466	1,361,701	390,215	91,269	325,132	131,076	47
12,292,585	108,050	.....	.....	1,192,263	.....	298,474	754,059	1,884,312	.....	5,698,807	162,675	337,607	.....	200,712	27,528	48
4,315,073	668,420	.....	.....	219,674	.....	.....	493,272	842,085	.....	1,183,710	79,255	120,465	.....	53,880	26,490	49
24,346	271	21	218	2,092	1,468	624	1,973	3,749	225	12,700	1,865	605	106	362	159	50
23,552	289	.....	.....	2,114	.....	579	1,675	4,555	.....	10,782	267	415	.....	172	69	51
384,459	18,307	818	9,861	63,308	38,257	25,051	39,918	52,940	17,061	130,231	30,138	8,981	3,598	6,678	2,620	52
332,000	23,994	.....	.....	42,671	.....	13,061	27,754	54,656	.....	116,216	4,008	5,930	.....	3,285	1,199	53
122,456	30,086	.....	.....	6,676	.....	.....	11,329	21,932	.....	25,426	1,520	2,774	.....	1,231	1,158	54
21,183	240	6	173	1,710	1,155	555	1,829	3,484	208	10,792	1,809	403	90	331	108	55
330,340	17,723	320	7,245	48,668	28,930	20,638	35,990	47,940	16,717	109,031	29,040	6,710	3,233	5,860	1,863	56
3,128	31	14	45	379	310	69	143	258	13	1,901	53	199	15	29	48	57
53,718	584	497	2,616	14,624	10,211	4,413	3,927	4,804	327	21,165	1,013	2,254	362	815	730	58
35	.....	1	.....	3	3	.....	1	7	4	7	3	3	1	2	3	59
401	.....	(7)	.....	16	16	.....	(7)	196	17	35	85	17	(7)	(7)	27	60
24,282	272	22	217	2,087	1,467	620	1,974	3,729	224	12,669	1,857	601	106	364	160	61
23,987	415	.....	.....	2,154	.....	593	1,720	4,604	.....	10,921	267	431	.....	173	70	62
9,470	1,639	.....	.....	405	.....	.....	1,083	1,930	.....	2,397	144	235	.....	69	41	63
16,314,472	1,412,793	15,510	175,338	1,542,051	1,146,092	395,959	1,004,187	1,912,960	208,705	7,383,640	1,378,946	535,296	148,119	409,352	187,575	64
13,857,700	1,540,199	.....	.....	1,214,767	.....	293,868	766,282	1,895,946	.....	5,489,446	158,865	365,202	.....	196,421	84,184	65
6,663,620	1,295,475	.....	.....	223,606	.....	.....	995,319	876,254	.....	1,225,607	82,738	157,865	.....	59,360	73,140	66
9,193	169	.....	10	125	112	13	246	645	15	7,280	128	367	20	82	106	67
6,453,887	1,291,980	.....	3,800	97,609	67,509	30,100	90,061	372,423	13,692	4,023,827	84,349	244,351	34,800	77,160	119,835	68
702	7,645	.....	380	781	603	2,315	366	577	913	553	659	666	1,740	941	1,131	69
13,938	100	21	201	1,933	1,342	591	1,512	2,632	197	4,987	1,727	231	81	276	40	70
9,715,607	120,468	15,500	171,183	1,436,281	1,075,412	360,869	888,606	1,494,319	194,804	3,323,186	1,293,697	289,340	104,319	330,884	53,020	71
697	1,205	738	852	743	801	611	588	568	989	666	749	1,253	1,288	1,199	1,326	72
1,079	3	1	6	20	9	11	212	438	12	375	2	2	.....	6	2	73
91,496	345	(7)	355	3,443	2,103	1,340	22,170	43,794	209	18,837	(7)	(7)	.....	1,308	(7)	74
85	115	(7)	59	172	234	122	105	100	17	50	(7)	(7)	.....	218	(7)	75
72	.....	.....	.....	9	4	5	4	14	.....	27	.....	1	5	.....	12	76
53,482	.....	.....	.....	4,718	1,068	3,650	3,350	2,424	.....	17,790	.....	(7)	9,000	.....	14,700	77
45	50	116	116	94	70	165	94	60	137	28	54	26	59	29	28	78
46	28	.....	.....	73	.....	108	75	68	.....	32	41	23	.....	23	22	79
34	25	.....	.....	47	.....	.....	45	41	.....	23	33	21	.....	33	26	80
46	61	116	116	94	70	166	94	61	138	28	54	27	72	36	29	81
27	28	.....	.....	58	44	110	71	46	15	22	18	14	21	15	23	82

[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[8] Data for less than 3 enterprises shown with permission of the enterprise involved.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		SACRAMENTO-SAN JOAQUIN DELTA—Con.			INDEPENDENT BASINS			
			Calaveras River (78)	Mokelumne River (79)	Cosumnes River (80)	Total*	Surprise Valley (82)	Madeline Plains (83)	Honey Lake (86)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	931	1,306	212	1,848	163	9	165
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	41	73	39	152	274	448	336
3	Diversion dams	1940..total number	13	18	12	427	84	2	179
4		1930..total number	16	21	6	253	.....	.....	55
5		1920..total number	22	31	6	247	.....	.....	152
6	(a) Concrete and masonry	1940..number	8	3	9	60	.....	.....	17
7	(b) Timber	1940..number	.....	1	.....	75	12	.....	55
8	(c) Earth and rock	1940..number	4	14	1	234	72	1	87
9	(d) Other, mixed, and not reported	1940..number	1	.....	2	58	.....	1	20
10	Main canals and laterals	1940..total length, miles	38.3	149.3	34.5	746.8	61.0	11.0	198.0
11		1930..total length, miles	43	195	76	903	.....	.....	84
12		1920..total length, miles	98	1,177	70	2,474	.....	.....	435
13	(a) Earth	1940..length, miles	34	137	32	623	61	11	196
14	(b) Lined	1940..length, miles	4.3	12.3	2.5	123.8	.....	.....	2.0
15		1940..capacity, c.f.s.[2]	129	1,036	262	4,148	656	92	736
16		1930..capacity, c.f.s.[2]	23	454	77	4,149	.....	.....	784
17		1920..capacity, c.f.s.[2]	224	1,598	103	13,869	.....	.....	2,446
18	Pipe lines[3]	1940..total length, miles	132.0	366.8	25.2	1,676.8	0.4	.....	2.5
19		1930..total length, miles	46.5	252.1	20.2	1,109.2	.....	.....	3.8
20		1920..total length, miles	29.4	82.2	5.5	769.3	.....	.....	4.1
21	(a) Concrete	1940..length, miles	121.3	353.5	21.0	1,408.6	0.1	.....	.....
22	(b) Metal	1940..length, miles	10.7	9.4	3.8	256.6	0.3	.....	2.5
23	(c) Wood-stave	1940..length, miles	.....	2.0	.....	0.3	.....	.....	.....
24	(d) Other	1940..length, miles	.....	1.9	0.4	11.3	.....	.....	.....
25	Storage dams	1940..total number	5	8	5	64	.....	8	19
26		1930..total number	12	11	2	44	.....	.....	7
27		1920..total number	8	25	.....	40	.....	.....	9
28	(a) Concrete and masonry	1940..number	.....	2	2	7	.....	.....	2
29	(b) Earth and rock	1940..number	5	5	1	51	.....	8	14
30	(c) Other, mixed, and not reported	1940..number	.....	1	2	6	.....	.....	3
31	Reservoirs	1940..total number	7	15	5	301	3	8	25
32	(a) 1-99 acre-feet capacity	1940..number	6	12	3	260	3	4	8
33	(b) 100-999 acre-feet capacity	1940..number	.....	3	2	26	.....	.....	11
34	(c) 1,000 and over acre-feet capacity	1940..number	1	.....	.....	15	.....	4	6
35		1940..total capacity, ac.-ft.[4]	10,912	622	404	93,882	15	15,023	46,559
36		1930..total number	9	13	1	229	.....	.....	9
37		1930..total capacity, ac.-ft.	3,665	3,983	1,200	319,055	.....	.....	32,476
38	Wells, flowing	1940..number	.....	1	.....	221	112	.....	1
39		1930..number	1	4	.....	219	.....	.....	.....
40		1920..number	6	2	.....	443	.....	.....	.....
41		1940..yield, g.p.m.	.....	(5)	.....	13,936	3,111	.....	(5)
42		1930..yield, g.p.m.	3,000	58	.....	28,243	.....	.....	.....
43		1920..yield, g.p.m.	220	25	.....	58,033	.....	.....	.....
44	Wells, pumped	1940..number	1,149	1,728	241	1,815	1	.....	20
45		1930..number	222	2,084	404	2,022	.....	.....	2
46		1920..number	565	709	117	1,117	.....	.....	2
47		1940..yield, g.p.m.	745,671	1,023,664	123,964	869,551	(5)	.....	11,625
48		1930..yield, g.p.m.	168,311	1,117,397	219,665	1,036,310	.....	.....	4,750
49		1920..yield, g.p.m.	189,181	356,156	50,870	417,266	.....	.....	555
50	Pumping plants	1940..total number	1,196	1,817	282	1,914	2	.....	26
51		1930..total number	255	2,122	414	1,919	.....	.....	2
52	Prime movers	1940..capacity, hp	14,425	20,757	3,130	39,887	(5)	.....	426
53		1930..capacity, hp	4,606	23,324	4,385	40,284	.....	.....	145
54		1920..capacity, hp	4,358	8,309	1,788	15,645	.....	.....	43
55	(a) Electric	1940..number	1,060	1,607	213	1,403	1	.....	12
56		1940..capacity, hp	12,804	17,920	2,257	26,803	(5)	.....	291
57	(b) Internal-combustion	1940..number	121	203	63	432	1	.....	12
58		1940..capacity, hp	1,614	2,733	862	12,278	(5)	.....	124
59	(c) Other	1940..number	15	7	6	79	.....	.....	2
60		1940..capacity, hp	7	104	11	806	.....	.....	(5)
61	Pumps	1940..total number	1,184	1,820	283	1,839	2	.....	25
62		1930..number	256	2,179	418	1,947	.....	.....	2
63		1920..number	585	765	131	920	.....	.....	7
64		1940..capacity, g.p.m.	779,349	1,233,294	183,184	895,601	(5)	.....	17,805
65		1930..capacity, g.p.m.	182,821	1,272,765	233,754	2,037,137	.....	.....	5,500
66		1920..capacity, g.p.m.	200,337	451,434	84,740	462,081	.....	.....	4,640
67	(a) Centrifugal	1940..number	556	1,077	184	310	2	.....	12
68		1940..capacity, g.p.m.	360,950	802,689	119,966	136,644	(5)	.....	8,635
69		1940..average capacity, g.p.m.	649	745	652	441	(5)	.....	720
70	(b) Turbine	1940..number	613	740	85	1,365	.....	.....	11
71		1940..capacity, g.p.m.	418,021	430,318	62,548	741,433	.....	.....	9,050
72		1940..average capacity, g.p.m.	682	582	736	543	.....	.....	823
73	(c) Plunger	1940..number	14	2	12	155	.....	.....	1
74		1940..capacity, g.p.m.	353	(5)	455	12,405	.....	.....	(5)
75		1940..average capacity, g.p.m.	25	(5)	38	80	.....	.....	(5)
76	(d) Other	1940..number	1	1	2	9	.....	.....	1
77		1940..capacity, g.p.m.	(5)	(5)	(5)	5,119	.....	.....	(5)
78	Pumping lift, from all sources	1940..average, feet	37	35	33	81	(5)	.....	38
79		1930..average, feet	46	33	43	73	.....	.....	50
80		1920..average, feet	26	33	28	57	.....	.....	20
81	from pumped wells	1940..average, feet	37	35	34	83	(5)	.....	30
82	from surface sources	1940..average, feet	28	23	26	34	(5)	.....	46

*Data for 2 enterprises in Cowhead and Warner Lakes Drainage Basin (81), 2 enterprises in Smoke Creek Drainage Basin (85), and 1 enterprise in Adobe Meadows Drainage Basin (92) (number refers to separate map) are included with Independent Basins total.

**Data for corresponding basins in Nevada not tabulated under "Independent Basins."

[1] Joins "Amargosa River Drainage Basin" in Nevada.

[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

INDEPENDENT BASINS—Continued												COLORADO RIVER			
Pyramid Lake Basin and Truckee River** (87)	Lahontan Lake Basin and Carson River** (88)	Walker Lake			Mono Lake (91)	Owens River (93)	Amargosa River and Dry Lakes[4] (95)	Antelope Valley (97)	Mojave River (98)	San Jacinto River (99)	Whitewater River (100)	Total	Direct (101)	Imperial Valley (102)	
		Total	West Walker River** (89)	East Walker River** (90)											
7	16	32	15	17	12	52	17	477	183	272	438	52	3	49	1
239	516	1,200	1,190	1,210	80	309	80	86	56	107	62	11,843	29,741	10,748	2
14	38	45	28	17	1	26	.....	2	14	6	14	5	.....	5	3
.....	.....	15	.....	.....	6	18	.....	.....	7	11	.....	.....	.....	.....	4
.....	15	7	.....	.....	4	6	.....	.....	2	7	3	3	.....	.....	5
1	2	12	12	.....	.....	7	.....	1	3	3	14	5	.....	5	6
.....	.....	6	6	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	7
2	29	21	8	13	.....	14	.....	1	3	2	.....	.....	.....	.....	8
11	7	6	2	4	1	3	.....	.....	8	1	.....	.....	.....	.....	9
6.0	42.0	130.0	90.0	40.0	16.0	113.9	6.0	38.8	9.3	68.2	42.6	2,192.8	282.8	1,910.0	10
.....	10	60	.....	.....	45	180	.....	.....	33	123	.....	2,266	.....	.....	11
.....	21	166	.....	.....	34	142	.....	.....	27	64	49	2,488	.....	.....	12
6	42	130	90	40	16	104	4	19	7	9	14	2,185	280	1,905	13
.....	.....	.....	.....	.....	.....	9.9	2.0	19.8	2.3	59.2	28.6	7.8	2.8	5.0	14
51	163	916	527	389	35	411	9	875	30	96	71	8,541	1,000	7,541	15
.....	25	383	.....	.....	184	654	.....	.....	143	201	.....	10,200	.....	.....	16
.....	52	925	.....	.....	525	1,598	.....	.....	189	251	57	6,577	.....	.....	17
1.7	.....	.....	.....	.....	.....	41.6	2.8	553.8	114.3	533.1	426.6	61.8	4.1	57.7	18
.....	.....	.....	.....	.....	.....	29.0	.....	.....	106.8	445.8	.....	.....	.....	.....	19
.....	0.5	.....	.....	.....	.....	388.5	.....	.....	28.8	145.0	77.5	0.4	.....	.....	20
.....	.....	.....	.....	.....	.....	35.6	2.0	513.1	106.1	378.2	373.5	36.5	.....	36.5	21
1.7	.....	.....	.....	.....	.....	6.0	0.8	40.5	8.2	150.7	45.9	19.9	.....	19.9	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.3	.....	0.1	0.1	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	0.2	.....	3.9	7.2	5.3	4.0	1.3	24
.....	10	3	.....	3	1	1	.....	4	3	12	1	5	.....	5	25
.....	.....	.....	.....	.....	6	9	.....	.....	7	8	.....	.....	.....	.....	26
.....	1	.....	.....	.....	3	4	.....	.....	.....	11	.....	1	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	2	1	2	.....	.....	.....	.....	28
.....	10	3	.....	3	1	1	.....	2	2	7	1	5	.....	5	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	30
.....	10	3	.....	3	.....	4	2	111	51	75	7	7	.....	7	31
.....	.....	.....	.....	.....	.....	2	2	109	51	73	7	7	.....	7	32
.....	10	3	.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	33
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....	34
.....	4,000	1,000	.....	1,000	.....	803	(5)	11,293	101	13,760	22	57	.....	57	35
.....	.....	.....	.....	.....	6	20	.....	.....	75	60	.....	.....	.....	.....	36
.....	.....	.....	.....	.....	42,801	24,620	.....	.....	179	23,312	.....	.....	.....	.....	37
.....	.....	.....	.....	.....	2	.....	.....	1	1	32	72	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	9	.....	.....	17	3	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	23	.....	.....	31	9	242	.....	.....	.....	40
.....	.....	.....	.....	.....	(5)	.....	.....	(5)	(5)	1,230	9,313	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	295	.....	.....	7,664	500	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	537	.....	.....	4,874	115	36,860	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	7	10	622	216	397	542	34	.....	34	44
.....	.....	.....	.....	.....	.....	41	.....	.....	240	443	.....	1	.....	.....	45
.....	.....	.....	.....	.....	.....	9	.....	.....	88	236	325	1	.....	.....	46
.....	.....	.....	.....	.....	.....	4,560	2,115	341,957	111,676	136,448	261,020	14,771	.....	14,771	47
.....	.....	.....	.....	.....	.....	44,260	.....	.....	133,557	208,168	.....	700	.....	.....	48
.....	.....	.....	.....	.....	.....	4,088	.....	.....	45,477	66,833	121,466	900	.....	.....	49
1	.....	.....	.....	.....	.....	7	11	633	225	415	593	44	6	38	50
.....	.....	.....	.....	.....	.....	41	.....	.....	231	426	.....	3	.....	.....	51
(5)	.....	.....	.....	.....	.....	150	178	18,771	3,044	8,765	8,523	1,013	472	541	52
.....	.....	.....	.....	.....	.....	1,892	.....	.....	3,203	9,060	.....	415	.....	.....	53
.....	.....	.....	.....	.....	.....	137	.....	.....	2,145	3,546	3,212	73	.....	.....	54
.....	.....	.....	.....	.....	.....	4	2	494	109	269	512	16	1	15	55
.....	.....	.....	.....	.....	.....	85	(5)	13,877	1,181	4,700	6,636	388	(5)	288	56
.....	.....	.....	.....	.....	.....	3	7	127	90	117	74	19	5	14	57
.....	.....	.....	.....	.....	.....	65	145	4,885	1,836	3,795	1,403	616	372	244	58
1	.....	.....	.....	.....	.....	.....	2	[6] 12	26	29	7	9	.....	9	59
(5)	.....	.....	.....	.....	.....	.....	(5)	9	27	270	484	9	.....	9	60
1	.....	.....	.....	.....	.....	7	11	625	218	404	545	43	6	37	61
.....	.....	.....	.....	.....	.....	32	.....	.....	233	436	.....	4	.....	.....	62
.....	.....	.....	.....	.....	.....	12	.....	.....	86	203	247	2	.....	.....	63
(5)	.....	.....	.....	.....	.....	4,660	2,485	343,019	113,887	150,249	261,574	169,077	154,200	14,877	64
.....	.....	.....	.....	.....	.....	944,750	.....	.....	126,776	243,830	.....	140,200	.....	.....	65
.....	.....	.....	.....	.....	.....	4,558	.....	.....	45,960	76,386	126,356	2,000	.....	.....	66
.....	.....	.....	.....	.....	.....	4	1	13	100	28	149	11	4	7	67
.....	.....	.....	.....	.....	.....	2,260	(5)	3,506	54,509	12,313	53,421	79,585	73,200	6,385	68
.....	.....	.....	.....	.....	.....	565	(5)	270	545	440	359	7,235	18,300	912	69
.....	.....	.....	.....	.....	.....	3	7	589	82	294	379	13	.....	13	70
.....	.....	.....	.....	.....	.....	2,400	2,225	338,001	53,555	131,303	204,899	7,874	.....	7,874	71
.....	.....	.....	.....	.....	.....	800	318	574	653	447	541	606	.....	606	72
1	.....	.....	.....	.....	.....	.....	3	22	32	79	17	16	.....	16	73
(5)	.....	.....	.....	.....	.....	.....	160	1,508	3,958	3,403	3,254	595	.....	595	74
(5)	.....	.....	.....	.....	.....	.....	53	69	124	43	191	37	.....	37	75
.....	.....	.....	.....	.....	.....	.....	.....	1	4	3	.....	3	2	1	76
.....	.....	.....	.....	.....	.....	.....	.....	(5)	1,865	3,230	.....	81,023	(5)	(5)	77
(5)	.....	.....	.....	.....	.....	85	110	114	45	98	52	49	4	55	78
.....	.....	.....	.....	.....	.....	85	.....	.....	44	79	.....	22	.....	.....	79
.....	.....	.....	.....	.....	.....	24	.....	.....	80	73	41	42	.....	.....	80
.....	.....	.....	.....	.....	.....	65	119	114	46	100	52	54	.....	54	81
(5)	.....	.....	.....	.....	.....	.....	20	60	20	30	17	29	4	62	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Windmills with very low horsepower.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alameda	Alpine	Amador	Butte
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*					
1	All farms.....1940...number.....	132,658	2,447	13	407	2,584
2	1930...number.....	135,676	2,627	19	371	2,603
3	Irrigated farms.....1940...number.....	84,310	679	13	51	1,500
4	1930...number.....	85,784	545	15	68	1,445
5	Increase or decrease (-), 1930-1940.....percent....	-1.7	24.6	-13.3	-25.0	3.8
	Operated by—					
6	(a) Owners and managers.....1940...number.....	69,306	506	13	46	1,290
7	1930...number.....	71,911	434	13	57	1,263
8	(b) Tenants.....1940...number.....	15,004	173	.....	5	210
9	1930...number.....	13,873	111	2	11	182
10	Land in all farms.....1940...acres.....	30,524,324	248,443	11,225	307,457	582,779
11	Land in irrigated farms.....1940...acres.....	14,071,222	50,524	11,225	102,428	310,846
12	Average per farm.....1940...acres.....	167	74	863	2,008	207
13	(a) Operated by owners and managers.....1940...acres.....	12,016,422	35,887	11,225	98,178	280,156
14	Average per farm.....1940...acres.....	173	71	863	2,134	217
15	(b) Operated by tenants.....1940...acres.....	2,054,800	14,637	.....	4,250	30,690
16	Average per farm.....1940...acres.....	137	85	.....	850	146
17	Approximate land area.....1940...acres.....	100,353,920	469,120	462,720	380,160	1,065,600
	IRRIGATED AND IRRIGABLE AREAS					
18	Area irrigated.....1939...acres.....	5,069,568	20,403	8,327	1,403	79,885
19	(a) Cropland harvested.....1939...acres.....	4,621,791	20,126	1,818	1,130	68,661
20	(b) Crop failure.....1939...acres.....	22,084	124	10	.....	405
21	(c) Pasture.....1939...acres.....	425,693	153	6,499	273	10,799
22	Area irrigated.....1929...acres.....	4,746,532	8,494	1,925	678	67,038
23	1919...acres.....	4,219,040	9,346	4,459	326	93,559
24	Increase or decrease (-), 1929-1939.....percent....	6.8	140.2	332.6	106.9	19.2
25	Irrigable area in enterprises.....1940...acres.....	8,039,175	31,973	8,483	2,852	239,079
26	1930...acres.....	8,075,895	9,165	2,595	863	204,297
27	1920[1]..acres.....	7,805,207	16,543	7,027	1,093	123,524
28	Excess of irrigable area over the area irrigated..1940...acres.....	2,969,607	11,570	156	1,449	159,194
29	1930...acres.....	3,329,263	671	670	185	137,259
30	Area works were capable of supplying with water...1940...acres.....	7,398,576	31,789	8,482	2,481	145,213
31	1930...acres.....	6,815,250	9,079	2,455	824	159,017
32	1920...acres.....	5,894,466	13,357	4,819	489	114,754
33	Increase or decrease (-), 1930-1940.....percent....	8.6	250.1	245.5	201.1	-8.7
34	Excess, capability of works over area irrigated...1940...acres.....	2,329,008	11,386	155	1,078	65,328
35	1930...acres.....	2,068,618	585	530	146	91,979
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	36.0	40.4	74.2	1.4	25.7
37	1929...percent....	39.5	20.1	24.1	1.3	25.4
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	68.5	64.2	98.2	56.5	55.0
39	1929...percent....	69.6	93.6	78.4	82.3	42.2
	CAPITAL INVESTED TO JANUARY 1					
40	Total investment in all enterprises.....1940...dollars....	318,889,218	1,430,993	54,930	288,068	7,691,460
41	(a) Cost of irrigation works and equipment.....1940...dollars....	306,729,175	1,426,843	53,780	238,868	6,979,653
42	(b) Investment in water rights (reported).....1940...dollars....	12,160,043	4,150	1,150	49,200	711,807
43	Total investment in all enterprises.....1930...dollars....	[2] 310,967,979	687,678	2,250	698,108	6,111,209
44	1920...dollars....	194,886,388	530,053	40,385	91,295	3,383,646
45	Increase or decrease (-), 1930-1940.....percent....	2.5	108.1	2,341.3	-58.7	25.9
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	43.10	45.02	6.48	116.11	52.97
47	1930...dollars....	45.63	75.74	0.92	847.22	38.43
48	1920...dollars....	33.06	39.68	8.38	186.70	29.49
49	Average investment per acre irrigated.....1939...dollars....	62.90	70.14	6.60	205.32	96.28
50	Estimated final investment in existing enterprises..1940...dollars....	327,593,311	1,437,883	54,930	288,583	10,195,895
51	1930...dollars....	325,930,535	688,528	2,250	700,108	7,320,184
52	1920...dollars....	225,799,123	538,536	41,385	91,295	3,776,271
53	Increase or decrease (-), 1930-1940.....percent....	0.5	108.8	2,341.3	-58.8	39.3
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	40.75	44.97	6.48	101.19	42.65
55	1930...dollars....	40.36	75.13	0.87	811.25	35.83
56	1920[1]..dollars....	28.93	32.55	5.89	83.53	30.57
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises				Primary / Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number.....	29,243 / 7,457	508	15	20	383 / 4
58	Area irrigated in these enterprises.....1939...acres.....	4,831,550 / 439,235	19,821	8,105	1,325	76,671 / 39
59	Cost of maintenance and operation.....1939...dollars....	21,229,685 / 1,620,218	141,770	1,654	4,848	351,872 / 208
60	Average cost, per acre irrigated.....1939...dollars....	4.39 / 3.69	7.15	0.20	3.66	4.59 / 5.33
61	1929...dollars....	6.10 /	11.73	0.40	47.33	4.78 / .....
62	Total annual charges (reported)[3] [4].....1939...dollars....	12,789,209 / 252,555	18,932	54	1,226	311,278 / .....
63	Average annual charge per acre irrigated.....1939...dollars....	4.24 / 2.51	5.93	0.06	5.84	5.49 / .....
64	Area against which charges were assessed.....1939...acres.....	4,212,879 / 96,930	5,750	953	210	91,430 / .....
65	Average annual charge per acre assessed.....1939...dollars....	3.04 / 2.61	3.29	0.06	5.84	3.40 / .....
66	Total charges collected[3].....1939...dollars....	10,519,461 / 403,248	9,504	27	.....	288,312 / .....
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	94,170,982 / 1,523,911	92,577	.....	.....	1,607,823 / .....
	WATER DELIVERED TO IRRIGATORS					
68	Enterprises reporting water delivered.....1939...number.....	29,522 / 7,507	526	15	24	456 / 1
69	Area irrigated in these enterprises.....1939...acres.....	4,840,760 / 414,972	20,279	7,327	1,360	79,571 / [5]
70	Water delivered in these enterprises.....1939...acre-feet..	12,657,820 / 761,982	32,678	26,020	3,726	393,763 / [5]
71	Average water delivered per acre irrigated....1939...acre-feet..	2.6 / 1.8	1.6	3.6	2.7	4.9 / [5]
72	Average cost of water per acre irrigated.....1939...dollars....	5.06 / 4.00	7.34	0.20	3.66	5.23 / [5]
	DRAINAGE OF IRRIGATED LAND					
73	Enterprises reporting land drained or needing drainage.....1939...number.....	908 /	5	.....	.....	17 / .....
74	Irrigable area in these enterprises.....1939...acres.....	2,598,196 /	379	.....	.....	116,278 / .....
75	Irrigated area in these enterprises.....1939...acres.....	1,711,027 /	214	.....	.....	35,644 / .....
76	Area for which drains have been installed.....1939...acres.....	1,509,832 /	116	.....	.....	69,743 / .....
77	Additional area needing drainage.....1939...acres.....	394,963 /	125	.....	.....	17,125 / .....

* Census of Agriculture.
[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Revised.
[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Calaveras	Colusa	Contra Costa	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	
469	730	1,936	863	9,550	1,376	2,065	2,696	228	2,188	1
481	894	1,890	886	10,334	1,463	2,045	3,176	218	2,397	2
116	400	433	411	8,640	1,061	200	2,405	117	1,774	3
170	359	456	412	9,449	997	133	2,875	195	2,020	4
-31.8	11.4	-5.0	-0.2	-8.6	6.4	50.4	-16.3	-40.0	-12.2	5
108	299	348	373	7,397	894	170	1,475	54	1,267	6
161	275	362	401	8,131	848	97	1,718	79	1,497	7
8	101	85	38	1,243	167	30	930	63	507	8
9	84	94	11	1,318	149	36	1,157	116	523	9
378,532	437,030	304,424	256,504	1,463,868	541,555	816,680	418,029	183,564	1,673,524	10
94,886	196,771	66,024	107,140	922,572	258,807	96,725	403,610	162,854	1,027,597	11
818	492	152	261	107	244	484	168	1,392	579	12
92,526	157,840	53,610	101,397	812,279	220,380	84,149	308,434	42,413	937,755	13
657	528	154	272	110	247	495	209	785	740	14
2,360	38,931	12,414	5,743	110,293	38,427	12,576	95,176	120,441	89,842	15
295	385	146	151	89	230	419	102	1,912	177	16
657,920	737,920	469,760	1,104,000	3,830,400	842,880	2,286,720	2,741,760	6,458,240	5,228,800	17
1,832	82,890	32,386	7,535	561,068	101,557	2,205	422,834	11,889	259,038	18
1,587	80,197	31,131	6,443	533,762	97,191	1,763	410,834	6,541	220,067	19
5	321	164	.....	2,297	62	.....	4,000	.....	594	20
240	2,372	1,091	1,092	25,009	4,304	442	8,000	5,348	38,377	21
1,996	58,369	53,159	10,134	533,992	60,306	1,506	432,240	27,488	180,106	22
2,859	44,097	33,079	6,731	547,587	105,004	355	415,304	74,958	223,593	23
-8.2	42.0	-39.1	-25.6	5.1	68.4	46.4	-2.2	-56.7	43.8	24
3,294	216,271	51,029	21,877	782,453	188,300	4,130	542,545	18,402	493,268	25
6,971	190,190	72,200	44,064	726,944	143,602	2,417	1,014,559	9,214	427,979	26
42,093	88,948	67,876	16,848	1,098,755	202,399	664	530,855	97,998	475,645	27
1,462	133,381	18,643	14,342	221,385	86,743	1,925	119,711	6,513	234,230	28
4,975	131,821	19,041	33,930	192,952	83,296	911	582,319	.....	247,873	29
3,046	212,874	50,906	9,486	729,755	182,269	3,650	539,607	14,860	488,474	30
3,776	172,304	70,943	29,658	659,545	131,354	1,919	529,560	16,142	421,109	31
33,828	69,149	46,482	9,833	838,048	126,992	500	457,815	79,771	329,773	32
-19.3	23.3	-28.2	-68.0	10.6	38.8	90.2	1.9	-7.9	16.0	33
1,214	129,984	18,520	1,951	168,687	80,712	1,445	116,773	2,971	229,436	34
1,780	114,235	17,784	19,524	125,553	71,048	413	97,320	.....	241,003	35
1.9	42.1	49.1	7.0	60.8	39.2	2.3	.....	7.3	25.2	36
1.7	48.6	51.6	14.6	78.7	32.5	8.8	.....	30.9	26.3	37
60.1	38.9	63.6	79.4	76.9	55.7	60.4	78.4	80.0	53.0	38
52.9	33.8	74.9	34.2	81.0	45.9	78.5	81.6	.....	42.8	39
242,297	4,499,923	2,579,509	1,048,908	20,959,849	5,811,655	151,896	17,758,339	240,112	12,389,454	40
241,215	4,495,664	2,579,409	1,048,301	20,777,490	5,741,376	151,649	17,753,652	240,112	12,388,930	41
1,082	4,259	100	607	182,359	70,279	247	4,687	.....	524	42
343,525	4,006,824	2,838,120	939,937	18,112,479	6,451,120	106,238	16,656,841	220,754	8,673,199	43
1,315,617	2,594,164	1,380,210	499,269	8,067,930	5,586,804	37,298	14,223,585	2,487,561	18,419,752	44
-29.5	12.3	-9.1	11.6	15.7	-9.9	43.0	6.6	8.8	42.8	45
79.55	21.14	50.67	110.57	28.72	31.89	41.62	32.91	16.16	25.36	46
90.98	23.21	40.01	31.69	27.46	49.11	55.36	31.45	13.68	20.60	47
38.89	37.52	29.69	50.77	9.63	43.99	74.60	31.07	31.18	55.86	48
132.26	54.29	79.65	139.20	37.36	57.23	68.89	42.00	20.20	47.83	49
249,064	4,511,272	2,580,054	1,054,108	21,049,544	5,854,991	172,049	17,758,414	274,012	12,764,615	50
371,725	4,167,013	2,848,745	1,644,487	18,427,677	6,470,610	108,573	16,656,841	252,254	8,812,564	51
1,329,119	2,881,964	1,587,960	702,269	9,249,614	7,283,303	37,798	14,323,585	2,607,111	18,829,815	52
-33.0	8.3	-9.4	-35.9	14.2	-9.5	58.5	6.6	8.6	44.8	53
75.61	20.86	50.56	48.18	26.90	31.09	41.66	32.73	14.89	25.88	54
53.32	21.91	39.46	37.32	25.35	45.06	44.92	16.42	27.38	20.59	55
31.58	32.40	23.40	41.68	8.42	35.98	56.92	26.98	26.60	39.59	56
Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.			Primary Enterprises / Sup.	
52 / 3	107	140 / 5	31	1,981 / 4,652	244 / 4	57	5	24	1,217 / 94	57
1,760 / 26	81,572	26,975 / 95	6,605	547,197 / 196,533	101,334 / 801	2,050	422,834	8,866	254,623 / 8,530	58
4,888 / 315	239,135	146,340 / 694	65,895	1,464,746 / 647,458	262,564 / 2,237	7,403	1,297,320	6,636	1,520,048 / 40,885	59
2.78 / 12.12	2.93	5.43 / 7.31	9.98	2.68 / 3.29	2.59 / 2.79	3.61	3.07	0.75	5.97 / 4.79	60
8.37 /	2.91	4.63 /	10.53	4.14 /	5.93 /	7.61	3.37	2.66	7.21 /	61
3,950 /	105,132	139,057 /	28,809	599,425 / 1,883	159,297 /	2,500	1,715,291	4,400	509,627 /	62
4.65 /	1.57	6.69 /	4.80	1.48 / 0.08	1.87 /	2.48	4.06	0.75	3.97 /	63
850 /	77,892	32,023 /	32,005	573,479 / 4,700	98,684 /	1,008	575,314	5,903	141,170 /	64
4.65 /	1.35	4.34 /	0.90	1.05 / 0.40	1.61 /	2.48	2.98	0.75	3.61 /	65
1,500 /	101,332	135,525 /	15,216	609,051 / 750	141,915 /	.....	1,696,203	.....	153,808 /	66
15,000 /	2,280,374	1,294,481 /	728,816	2,069,780 /	3,286,629 /	.....	15,548,321	.....	2,319,547 /	67
63 / 3	109	141 / 2	42	1,948 / 4,712	239 / 4	38	5	49	1,234 / 95	68
1,567 / 26	81,486	27,953 / [5]	7,193	544,211 / 184,149	101,527 / 801	1,845	422,834	11,844	257,611 / 8,778	69
3,357 / 54	359,048	46,759 / [5]	21,530	1,057,437 / 331,538	464,412 / 1,549	11,060	1,192,848	48,492	788,232 / 22,862	70
2.1 / 2.1	4.4	1.7 / [5]	3.0	1.9 / 1.8	4.6 / 1.9	6.0	2.8	4.1	3.1 / 2.6	71
3.24 / 12.12	2.03	6.97 / [5]	4.77	3.09 / 3.62	2.21 / 2.79	3.60	4.06	0.74	6.32 / 4.89	72
1 /	15	21 /	4	7 /	14 /	3	[6] 2	[6] 2	8 /	73
[5] /	189,707	42,074 /	54	185,213 /	148,153 /	120	540,000	1,112	50,868 /	74
[5] /	69,621	26,527 /	54	122,689 /	73,413 /	68	422,789	400	37,896 /	75
[5] /	182,042	16,778 /	23	6,561 /	105,695 /	2	208,000	400	49,491 /	76
..... /	570	2,500 /	1	6,006 /	3,603 /	9	315,000	555	200 /	77

[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Data for less than 3 enterprises shown with permission of the enterprises involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Kings	Lake	Lassen	Los Angeles
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*				
1	All farms....1940...number	2,132	876	486	12,475
2	1930...number	2,156	1,057	472	12,653
3	Irrigated farms....1940...number	1,788	141	301	8,259
4	1930...number	1,799	110	241	8,537
5	Increase or decrease (-), 1930-1940....percent	-0.6	28.2	24.9	-3.3
	Operated by—				
6	(a) Owners and managers....1940...number	1,403	127	250	6,398
7	1930...number	1,420	100	199	7,247
8	(b) Tenants....1940...number	385	14	51	1,861
9	1930...number	379	10	42	1,290
10	Land in all farms....1940...acres	507,165	229,854	606,335	596,552
11	Land in irrigated farms....1940...acres	397,471	56,802	511,973	297,358
12	Average per farm....1940...acres	222	403	1,701	36
13	(a) Operated by owners and managers....1940...acres	331,626	55,298	488,262	236,896
14	Average per farm....1940...acres	236	435	1,953	37
15	(b) Operated by tenants....1940...acres	65,845	1,504	23,711	60,462
16	Average per farm....1940...acres	171	107	465	32
17	Approximate land area....1940...acres	892,800	803,840	2,910,720	2,605,440
	IRRIGATED AND IRRIGABLE AREAS				
18	Area irrigated....1939...acres	315,618	3,281	62,243	185,380
19	(a) Cropland harvested....1939...acres	299,654	3,127	40,883	184,276
20	(b) Crop failure....1939...acres	724	7	521	383
21	(c) Pasture....1939...acres	15,240	147	20,839	721
22	Area irrigated....1929...acres	269,994	1,916	39,893	205,837
23	1919...acres	187,868	1,107	53,884	248,412
24	Increase or decrease (-), 1929-1939....percent	16.9	71.2	56.0	-9.9
25	Irrigable area in enterprises....1940...acres	588,426	4,758	87,640	294,567
26	1930...acres	639,135	4,272	76,375	291,970
27	1920[1]...acres	490,835	1,831	85,873	364,574
28	Excess of irrigable area over the area irrigated...1940...acres	272,808	1,477	25,397	109,187
29	1930...acres	369,141	2,356	36,482	86,133
30	Area works were capable of supplying with water...1940...acres	556,462	4,672	80,286	288,550
31	1930...acres	586,332	3,345	67,735	274,206
32	1920...acres	376,906	1,517	71,582	319,368
33	Increase or decrease (-), 1930-1940....percent	-5.1	39.7	18.5	5.2
34	Excess, capability of works over area irrigated...1940...acres	240,844	1,391	18,043	103,170
35	1930...acres	316,338	1,429	27,842	68,369
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	79.4	5.8	12.2	62.3
37	1929...percent	75.3	3.7	13.2	65.4
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	56.7	70.2	77.5	64.2
39	1929...percent	46.0	57.3	58.9	75.1
	CAPITAL INVESTED TO JANUARY 1				
40	Total investment in all enterprises....1940...dollars	7,890,358	254,825	499,965	22,316,928
41	(a) Cost of irrigation works and equipment....1940...dollars	7,002,248	254,532	471,012	21,267,631
42	(b) Investment in water rights (reported)....1940...dollars	888,110	293	28,953	1,049,297
43	Total investment in all enterprises....1930...dollars	8,373,919	227,899	1,693,616	32,205,278
44	1920...dollars	3,989,358	116,286	519,656	21,038,616
45	Increase or decrease (-), 1930-1940....percent	-5.8	11.8	-70.5	-30.7
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	14.18	54.54	6.23	77.34
47	1930...dollars	14.28	68.13	25.00	117.45
48	1920...dollars	10.58	76.66	7.26	65.88
49	Average investment per acre irrigated....1939...dollars	25.00	77.67	8.03	120.38
50	Estimated final investment in existing enterprises...1940...dollars	7,959,903	258,965	504,905	22,827,690
51	1930...dollars	8,533,394	238,040	1,814,716	32,690,243
52	1920...dollars	4,362,178	216,346	583,456	23,271,909
53	Increase or decrease (-), 1930-1940....percent	-6.7	8.8	-72.2	-30.2
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	13.53	54.43	5.76	77.50
55	1930...dollars	13.35	55.72	23.76	111.96
56	1920[1]...dollars	8.89	118.16	6.79	63.83
	MAINTENANCE AND OPERATION CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises		Primary / Supplemental Enterprises	Primary / Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	515 / 717	109	168 / 4	1,547 / 15
58	Area irrigated in these enterprises....1939...acres	312,946 / 36,782	3,074	53,423 / 394	140,663 / 5,705
59	Cost of maintenance and operation....1939...dollars	369,000 / 137,451	18,253	20,210 / 733	1,649,517 / 57,222
60	Average cost, per acre irrigated....1939...dollars	1.18 / 3.74	5.94	0.38 / 1.86	11.73 / 10.03
61	1929...dollars	3.20 /	8.42	0.67 /	11.84 / .....
62	Total annual charges (reported)[4 5]....1939...dollars	265,519 /	578	18,646 /	1,372,996 / 52,760
63	Average annual charge per acre irrigated....1939...dollars	1.08 /	5.56	1.56 /	11.54 / 11.12
64	Area against which charges were assessed....1939...acres	352,509 /	104	12,706 /	125,739 / 4,744
65	Average annual charge per acre assessed....1939...dollars	0.75 /	5.56	1.47 /	10.92 / 11.12
66	Total charges collected[4]....1939...dollars	293,482 /	.....	10,060 /	939,089 / 51,116
67	Indebtedness to December 31 (reported)[6]....1939...dollars	598,548 /	.....	51,000 /	1,543,160 / 118,293
	WATER DELIVERED TO IRRIGATORS				
68	Enterprises reporting water delivered....1939...number	508 / 698	110	189 / 4	1,575 / 14
69	Area irrigated in these enterprises....1939...acres	281,102 / 37,205	3,016	59,282 / 494	182,940 / 2,959
70	Water delivered in these enterprises....1939...acre-feet	523,927 / 72,785	5,612	97,955 / 367	425,846 / 3,421
71	Average water delivered per acre irrigated....1939...acre-feet	1.9 / 2.0	1.9	1.7 / 0.7	2.3 / 1.2
72	Average cost of water per acre irrigated....1939...dollars	1.58 / 3.73	6.11	0.60 / 0.69	11.61 / 20.85
	DRAINAGE OF IRRIGATED LAND				
73	Enterprises reporting land drained or needing drainage....1939...number	17 /	6	4 /	40 / .....
74	Irrigable area in these enterprises....1939...acres	17,437 /	126	990 /	4,609 / .....
75	Irrigated area in these enterprises....1939...acres	9,753 /	55	769 /	3,087 / .....
76	Area for which drains have been installed....1939...acres	6,075 /	20	621 /	1,343 / .....
77	Additional area needing drainage....1939...acres	170 /	39	200 /	85 / .....

*Census of Agriculture.
[1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2]Revised.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Madera	Mendocino	Merced	Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	
1,538	1,843	3,777	686	92	1,999	1,764	492	6,109	1,451	1
1,529	1,672	3,830	621	76	1,891	1,686	539	4,960	1,628	2
1,136	162	3,422	532	79	1,054	207	304	5,442	912	3
1,118	174	3,389	418	60	803	92	368	4,503	1,005	4
1.6	-6.9	1.0	27.3	31.7	31.3	125.0	-17.4	20.9	-9.3	5
948	135	2,568	451	63	575	177	271	5,015	769	6
851	153	2,493	360	55	463	74	314	4,230	829	7
188	27	854	81	16	479	30	33	427	143	8
267	21	896	58	5	340	18	54	273	176	9
510,234	966,410	873,949	583,189	56,671	1,329,341	359,491	114,108	215,923	214,784	10
197,773	86,210	575,441	471,868	51,354	368,659	47,412	83,066	162,094	104,364	11
174	532	168	887	650	348	229	273	30	114	12
178,652	73,682	483,735	417,054	44,647	245,755	40,121	75,491	123,316	93,440	13
188	546	188	925	709	427	227	279	25	122	14
19,121	12,528	91,706	54,814	6,707	120,904	7,291	7,575	38,778	10,924	15
102	464	107	677	419	252	243	230	91	76	16
1,374,720	2,246,400	1,269,120	2,620,160	1,948,800	2,127,360	505,600	626,560	500,480	915,840	17
104,522	5,904	273,886	92,419	42,676	105,344	2,630	7,557	119,274	30,071	18
92,002	5,099	248,554	71,642	7,313	103,944	2,348	3,367	118,199	26,812	19
86	23	12	51	.....	298	3	200	473	1,501	20
12,434	782	25,320	20,726	35,363	1,102	279	3,990	602	1,758	21
140,637	3,663	318,244	70,025	29,542	80,981	1,886	6,255	112,025	30,041	22
100,220	1,255	212,851	82,845	46,012	47,336	660	3,441	87,330	27,520	23
-25.7	61.2	-13.9	32.0	44.5	30.1	39.4	20.8	6.5	0.1	24
176,996	8,497	391,305	149,428	44,767	114,074	4,373	128,276	153,508	65,974	25
210,151	7,586	420,614	95,140	34,191	91,780	3,384	133,684	140,414	46,471	26
161,032	11,686	457,494	112,200	121,878	59,659	1,405	5,601	113,026	40,000	27
72,474	2,593	117,419	57,009	2,091	8,730	1,743	120,719	34,234	35,903	28
69,514	3,923	102,370	25,115	4,649	10,799	1,498	127,429	28,389	16,430	29
176,696	7,950	361,095	133,921	43,712	113,782	4,344	41,260	150,523	35,252	30
194,886	5,532	411,089	88,081	30,166	88,903	2,991	10,442	129,496	35,845	31
118,672	11,566	288,157	89,801	89,335	56,159	1,284	5,002	102,076	27,520	32
-9.3	43.7	-12.2	52.0	44.9	28.0	45.2	295.1	16.2	-1.7	33
72,174	2,046	87,209	41,502	1,036	8,438	1,714	33,703	31,249	5,181	34
54,249	1,869	92,845	18,056	624	7,922	1,105	4,187	17,471	5,804	35
52.8	6.8	47.6	19.6	83.1	28.7	5.5	9.1	73.6	28.8	36
81.1	4.2	70.0	22.6	55.9	19.4	7.5	6.6	49.9	38.0	37
59.2	74.3	75.8	69.0	97.6	92.6	60.5	18.3	79.2	85.3	38
72.2	66.2	77.4	79.5	97.9	91.1	63.1	59.9	86.5	83.8	39
3,518,584	304,212	23,223,738	2,321,396	140,520	6,048,728	280,629	1,342,427	12,193,642	2,746,515	40
3,243,897	304,170	23,068,047	2,210,992	136,310	6,047,303	280,019	1,338,703	11,762,589	2,745,238	41
274,687	42	155,691	110,404	4,210	1,425	610	3,724	431,053	1,277	42
2,479,625	331,469	22,519,291	1,107,372	2,083,515	4,582,435	217,875	2,376,379	7,987,096	4,246,132	43
1,351,854	582,640	6,614,674	663,660	5,679,375	2,450,643	70,168	[2] 1,190,790	6,501,903	1,162,774	44
41.9	-8.2	3.1	109.6	-93.3	32.0	28.8	-43.5	52.7	-35.3	45
19.91	38.27	64.31	17.33	3.21	53.16	64.60	32.54	81.01	77.91	46
12.72	59.92	54.78	12.57	69.07	51.54	72.84	227.58	61.68	118.46	47
11.39	50.38	22.96	7.39	63.57	43.64	54.65	238.06	63.70	42.25	48
33.66	51.53	84.79	25.12	3.29	57.42	106.70	177.64	102.23	91.33	49
3,520,459	315,977	23,702,821	2,530,588	141,920	6,065,592	285,789	1,432,322	12,207,623	2,770,904	50
2,483,496	352,319	23,583,521	1,123,872	2,083,515	4,826,590	233,375	[2] 2,388,921	8,364,813	4,249,807	51
1,366,599	588,040	13,106,429	760,435	7,045,875	2,460,643	72,668	1,190,790	6,758,018	1,163,209	52
41.8	-10.3	0.5	125.2	-93.2	25.7	22.5	-40.0	45.9	-34.8	53
19.89	37.19	60.57	16.94	3.17	53.17	65.35	11.17	79.52	42.00	54
11.82	46.44	56.07	11.81	60.94	52.59	68.96	17.87	59.57	91.45	55
8.49	50.32	28.65	6.78	57.81	41.25	51.72	212.60	59.79	29.08	56
Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises				Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		
1,005	100	82	386	58	326	2	48	903	21	120	34	997	10	66	7	57
104,184	5,504	5,772	273,553	5,062	85,975	(3)	38,840	104,151	2,003	2,303	7,335	113,497	694	29,978	341	58
536,689	34,541	30,449	653,766	42,640	37,649	(3)	10,067	671,865	14,535	15,987	27,746	802,346	4,014	128,075	2,898	59
5.15	6.28	5.28	2.39	8.42	0.44	(3)	0.26	6.45	7.26	6.94	3.78	7.07	5.78	4.27	8.50	60
3.73	.....	9.78	6.71	.....	0.26	.....	0.50	7.94	.....	9.03	11.25	10.62	.....	4.89	.....	61
33,098	.....	13,250	670,956	.....	21,596	15,540	3,661	17,170	.....	.....	26,646	539,585	882	116,523	.....	62
1.79	.....	4.66	2.75	.....	0.83	1.22	0.25	3.78	.....	.....	4.01	7.53	7.60	4.05	.....	63
22,068	.....	5,344	304,383	.....	32,365	12,687	14,643	4,611	.....	.....	191,989	74,093	116	82,855	.....	64
1.50	.....	2.48	2.20	.....	0.67	1.22	0.25	3.72	.....	.....	0.14	7.28	7.60	1.41	.....	65
27,261	.....	12,000	651,319	.....	7,112	15,400	4,466	13,241	.....	.....	33,162	370,900	882	48,321	.....	66
4,139	.....	62,000	17,477,608	.....	1,197,535	145,767	1,253	3,150	.....	.....	1,191,804	742,870	.....	521,906	.....	67
991	100	80	384	46	288	2	50	920	23	168	48	1,045	11	71	8	68
92,102	5,504	5,678	273,708	5,077	85,953	(3)	40,700	105,327	2,010	2,545	7,557	117,396	703	30,042	381	69
301,760	15,423	10,875	772,685	9,746	162,617	(3)	56,533	255,501	5,153	4,604	13,611	159,196	590	56,943	1,536	70
3.3	2.8	1.9	2.8	1.9	1.9	(3)	1.4	2.4	2.6	1.8	1.8	1.4	0.8	1.9	4.0	71
5.53	6.28	5.27	3.13	5.51	0.49	(3)	0.26	6.41	7.26	6.85	3.78	7.29	5.78	4.13	8.50	72
.....	.....	3	5	.....	6	.....	.....	89	.....	13	.....	50	.....	.....	.....	73
.....	.....	98	236,405	.....	27,618	.....	.....	9,811	.....	574	.....	23,711	.....	.....	.....	74
.....	.....	67	175,357	.....	15,195	.....	.....	9,115	.....	343	.....	21,698	.....	.....	.....	75
.....	.....	36	169,921	.....	21,791	.....	.....	5,870	.....	215	.....	5,882	.....	.....	.....	76
.....	.....	3	10,084	.....	230	.....	.....	1,185	.....	83	.....	714	.....	.....	.....	77

[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Plumas	Riverside		Sacramento	San Benito		San Bernardino	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[*]								
1	All farms....1940...number	167	4,672		3,456	1,001		6,110	
2	1930...number	178	4,746		3,882	1,077		7,062	
3	Irrigated farms....1940...number	130	3,112		2,176	589		4,678	
4	1930...number	119	3,779		2,613	572		6,148	
5	Increase or decrease (-), 1930-1940....percent	9.2	-17.7		-16.7	3.0		-23.9	
	Operated by—								
6	(a) Owners and managers....1940...number	117	2,746		1,760	482		4,406	
7	1930...number	97	3,399		2,214	509		5,910	
8	(b) Tenants....1940...number	13	366		416	107		272	
9	1930...number	22	380		399	63		238	
10	Land in all farms....1940...acres	160,513	634,742		431,379	698,056		714,584	
11	Land in irrigated farms....1940...acres	145,510	358,198		240,908	122,582		171,610	
12	Average per farm....1940...acres	1,119	115		111	208		37	
13	(a) Operated by owners and managers....1940...acres	138,654	332,256		196,635	108,857		155,671	
14	Average per farm....1940...acres	1,185	121		112	226		35	
15	(b) Operated by tenants....1940...acres	6,856	25,942		44,253	13,725		15,939	
16	Average per farm....1940...acres	527	71		106	128		59	
17	Approximate land area....1940...acres	1,644,800	4,594,560		630,400	893,440		12,883,840	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	29,481	122,040		81,655	21,937		111,041	
19	(a) Cropland harvested....1939...acres	14,887	119,164		75,391	21,748		107,140	
20	(b) Crop failure....1939...acres	53	767		410	14		476	
21	(c) Pasture....1939...acres	14,541	2,109		5,854	175		3,425	
22	Area irrigated....1929...acres	16,774	135,617		98,667	20,237		108,482	
23	1919...acres	22,852	106,212		72,960	12,468		105,306	
24	Increase or decrease (-), 1929-1939....percent	75.8	-10.0		-17.2	8.4		2.4	
25	Irrigable area in enterprises....1940...acres	35,939	244,580		156,118	46,707		153,105	
26	1930...acres	24,776	255,215		141,045	25,749		159,020	
27	1920[1]...acres	28,265	226,927		141,275	23,017		184,024	
28	Excess of irrigable area over the area irrigated...1940...acres	6,458	122,540		74,463	24,770		42,064	
29	1930...acres	8,002	119,598		42,378	5,512		50,538	
30	Area works were capable of supplying with water...1940...acres	35,641	206,684		127,059	40,367		145,180	
31	1930...acres	20,637	206,720		126,001	24,440		127,564	
32	1920...acres	25,478	128,788		103,271	17,186		120,798	
33	Increase or decrease (-), 1930-1940....percent	72.7	[2]		0.8	65.2		13.8	
34	Excess, capability of works over area irrigated...1940...acres	6,160	84,644		45,404	18,430		34,139	
35	1930...acres	3,863	71,103		27,334	4,203		19,082	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	20.3	34.1		33.9	17.9		64.7	
37	1929...percent	17.0	32.7		28.0	13.4		45.3	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	82.7	59.0		64.3	54.3		76.5	
39	1929...percent	81.3	65.6		78.3	82.8		85.0	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	66,937	17,648,837		3,452,182	1,413,207		18,887,694	
41	(a) Cost of irrigation works and equipment....1940...dollars	66,180	16,122,602		3,446,322	1,409,762		13,980,645	
42	(b) Investment in water rights (reported)....1940...dollars	757	1,526,235		5,860	3,445		4,907,049	
43	Total investment in all enterprises....1930...dollars	94,720	17,454,534		5,440,853	1,406,248		15,592,270	
44	1920...dollars	226,717	12,473,520		3,810,695	754,861		8,738,603	
45	Increase or decrease (-), 1930-1940....percent	-29.3	1.1		-36.6	0.5		21.1	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	1.88	85.39		27.17	35.01		130.10	
47	1930...dollars	4.59	84.44		43.18	57.54		122.23	
48	1920...dollars	8.90	96.85		36.90	43.92		72.34	
49	Average investment per acre irrigated....1939...dollars	2.27	144.62		42.28	64.42		170.10	
50	Estimated final investment in existing enterprises...1940...dollars	67,142	18,027,038		3,462,614	1,775,357		19,034,816	
51	1930...dollars	94,720	18,460,584		5,602,672	1,423,808		16,373,415	
52	1920...dollars	226,717	14,796,051		4,291,620	767,701		8,938,516	
53	Increase or decrease (-), 1930-1940....percent	-29.1	-2.3		-38.2	24.7		16.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	1.87	73.71		22.18	38.01		124.33	
55	1930...dollars	3.82	72.33		39.72	55.30		102.96	
56	1920[1]...dollars	8.02	65.20		30.38	33.35		48.57	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
57	Enterprises reporting maintenance and operation...1939...number	81	773	16	1,472	405	7	857	14
58	Area irrigated in these enterprises....1939...acres	22,021	117,770	6,059	75,244	21,078	317	108,805	15,947
59	Cost of maintenance and operation....1939...dollars	5,091	1,164,882	32,695	368,749	139,004	1,910	937,783	33,553
60	Average cost, per acre irrigated....1939...dollars	0.23	9.89	5.40	4.90	6.59	6.03	8.62	2.10
61	1929...dollars	0.50	15.75	.....	6.41	8.07	.....	15.45	.....
62	Total annual charges (reported)[3] [4]....1939...dollars	502	739,971	23,355	74,135	20,636	.....	1,284,502	78,446
63	Average annual charge per acre irrigated....1939...dollars	0.16	8.67	4.41	4.78	7.30	.....	16.34	5.15
64	Area against which charges were assessed....1939...acres	3,166	92,304	5,296	33,595	20,749	.....	93,429	15,551
65	Average annual charge per acre assessed....1939...dollars	0.16	8.02	4.41	2.21	0.99	.....	13.75	5.04
66	Total charges collected[3]....1939...dollars	115	704,686	23,374	115,070	15,764	.....	771,671	77,465
67	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	2,648,102	12,371	377,248	.....	.....	2,565,785	312,322
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	75	856	16	1,535	411	7	904	14
69	Area irrigated in these enterprises....1939...acres	19,370	121,120	6,182	78,916	21,843	317	107,461	16,009
70	Water delivered in these enterprises....1939...acre-feet	31,659	575,071	8,444	210,958	36,718	301	240,715	39,021
71	Average water delivered per acre irrigated....1939...acre-feet	1.6	4.7	1.4	2.7	1.7	0.9	2.2	2.4
72	Average cost of water per acre irrigated....1939...dollars	0.22	9.46	5.00	4.61	6.85	6.03	14.14	5.16
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	3	15	.....	68	14	.....	17	.....
74	Irrigable area in these enterprises....1939...acres	640	16,932	.....	40,982	1,129	.....	2,349	.....
75	Irrigated area in these enterprises....1939...acres	640	1,814	.....	16,091	685	.....	1,281	.....
76	Area for which drains have been installed....1939...acres	.....	1,297	.....	40,371	702	.....	1,181	.....
77	Additional area needing drainage....1939...acres	45	10,026	.....	5	60	.....	124	.....

[*] Census of Agriculture.
[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Less than one-tenth of 1 percent.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

San Diego	San Francisco	San Joaquin	San Luis Obispo	San Mateo	Santa Barbara	Santa Clara	Santa Cruz	Shasta	Sierra	
5,814	91	5,575	1,916	829	1,339	5,608	1,712	1,229	86	1
3,902	112	5,730	1,923	841	1,408	6,237	1,855	1,213	92	2
3,920	83	4,444	373	386	682	3,432	464	885	65	3
2,415	59	4,368	373	403	551	3,708	317	809	54	4
62.3	40.7	1.7	.....	-4.2	23.8	-7.4	46.4	9.4	20.4	5
3,507	59	3,532	201	177	518	2,879	312	727	39	6
2,209	31	3,505	237	244	416	3,294	223	701	50	7
413	24	912	172	209	164	553	152	158	6	8
206	28	863	136	159	135	414	94	108	4	9
949,465	390	752,712	1,449,352	125,066	821,150	606,800	105,059	534,691	60,105	10
467,004	338	518,641	160,026	21,934	205,740	251,527	35,560	395,201	46,872	11
119	4	117	429	57	302	73	77	447	721	12
435,942	211	389,134	105,172	8,570	155,547	227,628	23,475	347,149	45,099	13
124	4	110	523	48	300	79	75	478	764	14
31,062	127	129,507	54,854	13,364	50,193	23,899	12,085	48,052	1,773	15
75	5	142	319	64	306	43	80	304	296	16
2,725,120	28,800	902,400	2,128,640	290,560	1,756,800	835,200	280,960	2,461,440	613,120	17
51,664	294	317,790	13,453	9,635	42,200	95,959	10,868	37,273	7,307	18
50,672	294	300,136	12,646	9,175	40,345	95,371	10,763	25,088	6,517	19
184	.....	164	120	443	489	182	54	112	5	20
808	.....	17,490	687	17	1,366	406	51	12,073	785	21
42,510	585	281,629	12,013	8,362	36,418	96,130	5,136	41,173	9,104	22
24,996	372	183,923	5,302	7,142	16,335	70,312	1,294	50,215	15,292	23
21.5	-49.7	12.8	12.0	15.2	15.9	-0.2	111.6	-9.5	-19.7	24
90,693	370	415,044	15,897	12,593	59,320	136,352	12,927	69,543	16,240	25
90,585	606	357,408	14,329	9,287	53,793	104,434	6,512	70,150	10,070	26
68,401	412	324,404	11,229	9,449	37,795	86,761	2,700	110,382	18,547	27
39,029	76	97,254	2,444	2,958	17,120	40,393	2,059	32,270	8,933	28
48,075	21	75,779	2,316	925	17,375	8,304	1,375	28,977	966	29
87,644	370	408,038	15,734	11,447	57,438	133,968	12,840	63,635	15,740	30
76,223	603	346,221	13,476	8,599	50,078	102,243	5,832	60,253	9,110	31
32,148	412	231,125	10,872	8,164	34,408	75,348	2,069	58,903	15,873	32
15.0	-38.6	17.9	16.8	33.1	14.7	31.0	120.2	5.6	72.8	33
35,980	76	90,248	2,281	1,812	15,238	38,009	1,972	26,362	8,433	34
33,713	18	64,592	1,463	237	13,660	6,113	696	19,080	6	35
11.1	87.0	61.3	8.4	43.9	20.5	38.2	30.6	9.4	15.6	36
10.0	84.8	65.2	5.4	25.5	21.3	47.6	29.4	10.6	17.1	37
58.9	79.5	77.9	85.5	84.2	73.5	71.6	84.6	58.6	46.4	38
55.8	97.0	81.3	89.1	97.2	72.7	94.0	88.1	68.3	99.9	39
20,289,949	56,177	14,771,795	789,432	892,727	4,129,250	8,347,290	669,730	2,491,232	50,444	40
20,167,886	56,153	14,723,444	785,947	889,844	4,093,831	8,336,818	668,780	2,477,281	50,295	41
122,063	24	48,351	3,485	2,883	35,419	10,472	950	13,951	149	42
12,451,607	112,075	12,927,594	1,027,917	975,360	6,943,723	8,379,870	405,568	2,462,686	25,000	43
4,948,939	70,831	7,432,763	304,119	488,856	1,418,022	4,364,803	388,145	3,020,700	100,810	44
63.0	-49.9	14.3	-23.2	-8.5	-40.5	-0.4	65.1	1.2	101.8	45
231.50	151.83	36.20	50.17	77.99	71.89	62.31	52.16	39.15	3.20	46
163.36	185.86	37.34	76.28	113.43	138.66	81.95	69.54	40.87	2.74	47
153.94	171.92	32.16	27.97	59.88	41.21	57.93	187.60	51.28	6.35	48
392.73	191.08	46.48	58.68	92.65	97.65	86.99	61.62	66.84	6.90	49
20,609,905	56,177	14,988,118	819,633	894,692	4,164,231	8,374,626	672,479	2,505,428	52,444	50
12,838,986	113,200	13,050,129	1,053,867	976,727	7,199,523	8,390,475	411,168	2,672,036	25,000	51
5,592,954	70,831	7,516,649	317,729	491,356	1,498,233	4,551,153	388,645	3,344,079	101,940	52
60.5	-50.4	14.9	-22.2	-8.4	-42.2	-0.2	63.6	-6.2	109.8	53
227.25	151.83	36.11	51.56	71.05	70.20	61.42	52.02	36.03	3.23	54
141.73	186.80	36.51	73.55	105.17	133.84	80.34	63.14	38.09	2.48	55
81.77	171.92	23.17	28.30	52.00	39.64	52.46	143.94	30.30	5.50	56

Primary Enterprises	Sup.		Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		
1,394	70	67	2,436	25	295	241	557	6	2,119	3	286	345	7	28	57
50,279	16,320	271	254,039	1,550	12,822	8,846	41,298	286	94,476	569	10,683	35,602	46	7,161	58
478,362	53,419	6,133	1,005,049	5,952	91,967	93,740	324,081	1,862	788,638	3,794	77,218	70,053	140	2,275	59
9.51	3.27	22.63	3.96	3.84	7.17	10.60	7.85	6.51	8.35	6.67	7.23	1.97	3.04	0.32	60
15.15	.....	21.32	3.82	.....	11.44	12.72	11.71	.....	10.84	.....	20.37	1.95	.....	0.31	61
506,962	33,472	.....	748,027	.....	1,121	16,771	39,063	.....	153,489	.....	991	63,926	.....	2,400	62
15.32	2.61	.....	5.98	.....	5.84	7.51	17.72	.....	9.63	.....	1.77	5.48	.....	0.40	63
57,609	12,814	.....	154,575	.....	221	2,280	2,265	.....	16,242	.....	561	27,854	.....	12,000	64
8.80	2.61	.....	4.84	.....	5.07	7.36	17.25	.....	9.45	.....	1.77	2.30	.....	0.20	65
519,295	209,636	.....	705,960	.....	1,137	3,060	67,820	.....	1,692	.....	.....	39,688	.....	600	66
8,476,532	904,500	.....	7,948,643	.....	.....	.....	622,579	.....	19,795	.....	.....	934,200	.....	.....	67
1,425	72	71	2,499	27	289	262	572	6	2,125	2	304	247	5	29	68
50,341	3,328	287	286,022	1,680	12,855	9,521	41,747	291	95,459	[5]	10,788	27,564	32	1,227	69
70,741	2,356	339	784,019	3,295	33,186	17,077	89,600	512	128,800	[5]	16,434	92,322	20	3,255	70
1.4	0.7	1.2	2.7	2.0	2.6	1.8	2.1	1.8	1.3	[5]	1.5	3.3	0.6	2.7	71
13.40	4.32	21.75	5.09	3.84	7.13	11.39	8.21	5.25	8.78	[5]	7.19	2.96	4.06	1.37	72
20	.....	3	82	.....	8	12	16	.....	9	.....	28	38	.....	3	73
5,232	.....	14	224,351	.....	862	360	1,944	.....	792	.....	1,523	10,787	.....	474	74
3,627	.....	12	171,733	.....	740	280	1,807	.....	583	.....	1,335	9,364	.....	73	75
1,111	.....	12	189,315	.....	389	119	457	.....	137	.....	1,072	8,251	.....	283	76
265	.....	.....	7,063	.....	185	10	26	.....	14	.....	.....	117	.....	.....	77

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Siskiyou	Solano	Sonoma	Stanislaus
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*				
1	All farms....1940...number	1,208	1,466	6,209	5,734
2	1930...number	1,155	1,479	6,562	5,743
3	Irrigated farms....1940...number	915	453	181	5,315
4	1930...number	744	339	247	5,172
5	Increase or decrease (-), 1930-1940....percent	23.0	33.6	-26.7	2.8
	Operated by—				
6	(a) Owners and managers....1940...number	732	344	155	4,319
7	1930...number	658	273	208	4,211
8	(b) Tenants....1940...number	183	109	26	996
9	1930...number	86	66	39	961
10	Land in all farms....1940...acres	699,496	520,263	700,077	689,461
11	Land in irrigated farms....1940...acres	589,742	250,065	51,768	470,158
12	Average per farm....1940...acres	645	552	286	88
13	(a) Operated by owners and managers....1940...acres	535,041	205,705	48,788	392,756
14	Average per farm....1940...acres	731	598	315	91
15	(b) Operated by tenants....1940...acres	54,701	44,360	2,980	77,402
16	Average per farm....1940...acres	299	407	115	78
17	Approximate land area....1940...acres	4,040,320	529,280	1,010,560	963,840
	IRRIGATED AND IRRIGABLE AREAS				
18	Area irrigated....1939...acres	91,783	53,694	4,267	286,151
19	(a) Cropland harvested....1939...acres	61,640	45,583	3,961	257,814
20	(b) Crop failure....1939...acres	40	2,028	34	10
21	(c) Pasture....1939...acres	30,103	6,083	272	28,327
22	Area irrigated....1929...acres	58,655	30,370	2,530	241,712
23	1919...acres	65,602	23,650	2,126	197,249
24	Increase or decrease (-), 1929-1939....percent	56.5	76.8	68.7	18.4
25	Irrigable area in enterprises....1940...acres	119,922	83,467	5,026	335,745
26	1930...acres	123,016	36,642	3,595	355,721
27	1920[2]...acres	130,654	36,078	11,256	375,270
28	Excess of irrigable area over the area irrigated...1940...acres	28,139	29,773	759	49,594
29	1930...acres	64,361	6,272	1,065	114,009
30	Area works were capable of supplying with water...1940...acres	102,516	81,586	4,992	316,101
31	1930...acres	99,183	32,513	3,379	340,827
32	1920...acres	70,987	28,702	3,091	309,362
33	Increase or decrease (-), 1930-1940....percent	3.4	150.9	47.7	-7.3
34	Excess, capability of works over area irrigated...1940...acres	10,733	27,892	725	29,950
35	1930...acres	40,528	2,143	849	99,115
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	15.6	21.5	8.2	60.9
37	1929...percent	14.1	24.7	3.5	56.4
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	89.5	65.8	85.5	90.5
39	1929...percent	59.1	93.4	74.9	70.9
	CAPITAL INVESTED TO JANUARY 1				
40	Total investment in all enterprises....1940...dollars	3,814,940	1,094,222	201,129	17,735,912
41	(a) Cost of irrigation works and equipment....1940...dollars	3,769,249	1,094,007	200,689	17,270,880
42	(b) Investment in water rights (reported)....1940...dollars	45,691	215	440	465,032
43	Total investment in all enterprises....1930...dollars	4,029,713	616,992	282,856	17,206,732
44	1920...dollars	1,589,073	535,348	107,314	9,639,519
45	Increase or decrease (-), 1930-1940....percent	-5.3	77.3	-2.89	3.1
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	37.21	13.41	40.29	56.11
47	1930...dollars	40.63	18.98	83.71	50.49
48	1920...dollars	22.39	18.65	34.72	31.16
49	Average investment per acre irrigated....1939...dollars	41.56	20.38	47.14	61.98
50	Estimated final investment in existing enterprises...1940...dollars	3,959,061	1,143,532	211,053	19,717,590
51	1930...dollars	4,793,538	618,992	290,306	22,405,085
52	1920...dollars	1,814,803	560,348	125,064	17,006,504
53	Increase or decrease (-), 1930-1940....percent	-17.4	84.7	-27.3	-12.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	33.01	13.70	41.99	58.73
55	1930...dollars	38.97	16.89	80.75	62.98
56	1920[2]...dollars	13.89	15.53	11.11	45.32
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises		Primary / Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	454 / 6	417 / [3]1	138	85 / 30
58	Area irrigated in these enterprises....1939...acres	79,970 / 1,912	50,026 / 2,217	4,004	286,007 / 5,022
59	Cost of maintenance and operation....1939...dollars	86,752 / 1,351	141,267 / 509	27,826	810,985 / 12,769
60	Average cost, per acre irrigated....1939...dollars	1.08 / 0.71	2.82 / 0.23	6.95	2.84 / 2.54
61	1929...dollars	2.24 /	4.00 /	12.20	2.23 / .....
62	Total annual charges (reported)[4] [5]....1939...dollars	85,390 / 816	3,779 / 509	.....	848,006 / .....
63	Average annual charge per acre irrigated....1939...dollars	2.33 / 0.60	10.00 / 0.23	.....	3.08 / .....
64	Area against which charges were assessed....1939...acres	45,265 / 1,360	378 / 2,217	.....	330,359 / .....
65	Average annual charge per acre assessed....1939...dollars	1.89 / 0.60	10.00 / 0.23	.....	2.57 / .....
66	Total charges collected[4]....1939...dollars	53,391 /	1,540 / 509	.....	1,013,779 / .....
67	Indebtedness to December 31 (reported)[5]....1939...dollars	4,354,323 / 30,658	22,048 /	.....	9,425,634 / .....
	WATER DELIVERED TO IRRIGATORS				
68	Enterprises reporting water delivered....1939...number	279 / 4	435 / [3]1	144	85 / 25
69	Area irrigated in these enterprises....1939...acres	69,399 / 1,672	53,518 / 2,217	4,168	286,025 / 4,699
70	Water delivered in these enterprises....1939...acre-feet	136,226 / 3,410	160,012 / 2,217	7,368	813,837 / 7,893
71	Average water delivered per acre irrigated....1939...acre-feet	2.0 / 2.0	3.0 / 1.0	1.8	2.8 / 1.7
72	Average cost of water per acre irrigated....1939...dollars	1.70 / 0.54	2.85 / 0.23	6.90	3.12 / 2.52
	DRAINAGE OF IRRIGATED LAND				
73	Enterprises reporting land drained or needing drainage....1939...number	27 /	52 /	5	16 / .....
74	Irrigable area in these enterprises....1939...acres	22,962 /	55,806 /	320	308,875 / .....
75	Irrigated area in these enterprises....1939...acres	20,493 /	31,825 /	184	262,336 / .....
76	Area for which drains have been installed....1939...acres	18,085 /	48,880 /	21	178,346 / .....
77	Additional area needing drainage....1939...acres	362 /	5,000 /	16	11,210 / .....

*Census of Agriculture.
[1]Del Norte, Marin, and Mariposa Counties.
[2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3]Data for less than 3 enterprises shown with permission of the enterprise involved.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba	All other counties[1]	
1,425	1,744	329	6,372	403	1,745	1,339	562	1,245	1
1,758	1,805	325	7,154	293	1,656	1,641	548	1,125	2
1,084	981	199	5,474	172	1,302	668	370	38	3
1,267	953	193	5,239	198	1,199	820	335	44	4
-13.8	2.9	3.1	-12.3	-13.1	8.6	5.9	10.4	-13.6	5
956	829	166	4,625	156	1,189	635	297	31	6
1,137	861	168	5,016	192	1,052	647	285	37	7
128	152	33	849	16	113	233	73	7	8
120	92	25	1,223	6	147	173	47	7	9
317,113	1,227,205	186,445	1,470,782	231,582	457,560	477,258	213,032	502,366	10
230,610	447,830	57,688	841,685	48,381	337,988	268,521	98,207	15,074	11
213	457	290	154	281	260	309	255	397	12
191,598	415,439	45,377	704,260	46,760	321,723	214,034	86,338	14,349	13
200	501	273	152	300	271	337	291	463	14
39,012	32,361	12,311	137,425	1,621	16,265	54,467	11,669	725	15
305	213	373	162	101	144	234	163	104	16
368,480	1,903,360	2,042,240	3,100,800	1,456,000	1,188,480	661,750	408,320	1,906,560	17
102,119	34,453	4,753	366,542	3,008	86,134	115,301	24,538	171	18
99,099	25,030	2,990	329,645	2,851	85,562	111,620	18,618	150	19
1,011	338	1	1,150	4	261	929	538	3	20
2,009	9,085	1,762	35,747	153	311	3,352	5,382	16	21
98,771	32,110	5,263	410,083	1,596	88,519	84,856	30,248	112	22
47,305	23,153	5,810	398,662	2,892	31,716	42,493	20,773	630	23
3.4	7.3	-9.7	-10.7	88.5	-2.7	35.9	-18.9	52.7	24
159,897	58,578	6,938	567,364	4,384	116,181	256,001	43,337	362	25
168,207	50,313	8,351	548,859	25,535	110,440	192,104	79,473	133	26
102,945	44,670	15,010	764,733	25,371	50,737	104,716	71,995	822	27
57,778	24,125	2,185	200,822	1,376	30,047	140,700	18,799	191	28
89,436	18,203	3,088	138,176	24,239	21,921	107,248	49,225	21	29
145,496	58,475	6,493	524,713	4,346	115,048	215,780	39,503	345	30
122,526	48,685	7,460	531,730	7,630	100,965	153,811	51,196	111	31
96,984	39,415	9,041	658,386	2,943	35,875	65,440	24,049	793	32
18.7	20.1	-13.0	-1.3	-44.5	13.9	40.3	-22.8	210.8	33
43,377	24,022	1,740	158,171	1,338	28,914	100,479	14,965	174	34
23,755	16,575	2,197	121,047	6,234	12,446	68,955	20,948	.....	35
44.3	7.7	8.2	43.5	6.2	25.5	42.9	25.0	1.1	36
53.3	8.1	11.3	64.7	1.2	34.1	39.6	20.6	1.6	37
70.2	58.9	73.2	69.9	69.2	74.9	53.4	62.1	49.6	38
80.6	66.0	70.5	77.2	20.4	87.7	55.2	59.1	.....	39
5,438,759	1,670,599	101,019	20,186,082	217,480	8,963,658	5,734,424	1,535,916	8,335	40
5,330,957	1,670,004	100,740	20,089,853	216,075	8,633,170	5,287,482	1,532,316	8,330	41
107,802	595	279	96,229	1,405	330,488	446,942	3,600	5	42
6,308,195	1,849,577	217,513	20,330,935	665,901	9,162,945	6,682,734	1,625,633	8,045	43
2,931,118	1,048,959	206,875	12,529,432	965,667	2,691,027	2,003,591	1,486,598	19,517	44
-13.8	-9.7	-53.6	-0.7	-67.3	-2.2	-14.2	-5.5	3.6	45
37.38	28.57	15.56	38.47	50.04	77.91	26.58	38.88	24.16	46
51.48	37.99	29.16	38.24	85.04	90.75	43.45	31.75	.....	47
30.22	26.61	22.88	19.03	328.12	75.01	30.62	61.82	.....	48
53.26	48.49	21.25	55.07	72.30	104.07	49.73	62.59	48.74	49
5,553,107	1,710,424	114,071	20,331,615	221,710	9,037,358	5,743,605	1,565,778	8,835	50
6,399,095	1,677,992	226,413	20,372,856	667,401	9,468,354	6,804,434	1,853,133	8,445	51
3,239,043	1,081,145	215,025	12,973,985	965,667	3,066,027	3,629,826	1,981,373	19,517	52
-13.2	-8.9	-49.6	-0.2	-66.8	-4.8	-15.6	-15.5	4.6	53
34.73	29.20	16.44	35.84	50.57	77.79	22.44	36.13	24.41	54
38.04	37.33	27.11	37.12	25.83	85.91	35.42	23.32	.....	55
31.46	24.20	14.33	16.97	38.06	60.43	34.66	27.52	.....	56
	Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises			
737	447	10	140	3,057	1,514	42	582	21	535	26	145	5	18	57
97,541	33,689	366	4,423	358,299	86,374	2,926	84,738	4,432	109,782	22,369	24,194	253	124	58
514,371	134,901	1,138	11,081	2,327,985	416,964	15,043	641,163	57,730	403,144	8,926	74,874	595	530	59
5.27	4.00	3.11	2.51	6.50	4.83	5.14	7.57	13.03	3.67	0.40	3.09	2.35	4.27	60
4.76	4.39	.....	2.24	8.47	.....	20.69	10.12	.....	2.80	.....	4.64	.....	.....	61
230,439	67,134	.....	.....	769,712	12,320	14,000	274,641	27,752	76,498	4,820	67,912	.....	.....	62
3.81	3.29	.....	.....	4.68	8.80	5.60	9.44	18.27	2.83	0.23	4.05	.....	.....	63
77,740	33,323	.....	.....	261,319	15,400	2,500	30,317	1,519	32,207	20,526	22,531	.....	.....	64
2.96	2.01	.....	.....	2.95	0.80	5.60	9.06	18.27	2.38	0.23	3.01	.....	.....	65
211,752	60,814	.....	.....	339,841	667	.....	197,407	18,635	83,009	4,814	48,564	.....	.....	66
54,000	943,700	.....	.....	1,758,038	.....	.....	168,406	.....	852,065	.....	361,563	.....	.....	67
775	446	10	102	2,963	1,546	48	593	18	560	25	148	6	24	68
96,150	19,390	366	2,442	344,419	91,166	2,959	85,348	2,947	113,993	22,333	24,313	263	159	69
411,255	43,068	313	7,754	923,855	187,994	2,545	145,645	3,973	305,723	22,769	72,449	325	162	70
4.3	2.2	0.9	3.2	2.7	2.1	0.9	1.7	1.3	2.7	1.0	3.0	1.2	1.0	71
5.22	4.96	3.11	3.12	7.06	4.96	5.15	7.92	15.04	3.98	0.40	4.49	2.35	4.39	72
20	.....	.....	3	16	.....	1	63	.....	36	.....	1	.....	.....	73
97,611	.....	.....	96	93,300	.....	(6)	27,660	.....	87,588	.....	(6)	.....	.....	74
56,510	.....	.....	79	55,361	.....	(6)	15,764	.....	33,409	.....	(6)	.....	.....	75
85,453	.....	.....	9	785	.....	.....	20,457	.....	62,244	.....	(6)	.....	.....	76
4	.....	.....	21	42	.....	(6)	1,015	.....	868	.....	.....	.....	.....	77

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alameda	Alpine	Amador	Butte	Calaveras	Colusa
	FARM VALUES, 1940[6]							
1	Land and buildings, all farms....dollars..	2,166,452,648	42,482,171	497,500	4,789,934	29,531,486	5,359,159	20,675,982
2	Land and buildings, irrigated farms....dollars..	1,591,824,377	17,287,348	497,500	1,401,725	20,941,122	1,269,742	12,850,404
	Operated by—							
3	(a) Owners and managers....dollars..	1,336,867,338	13,121,403	497,500	1,330,845	18,329,450	1,211,742	10,290,544
4	(b) Tenants....dollars..	254,957,039	4,165,945	.....	70,880	2,611,672	49,000	2,559,860
5	Average, land and buildings, per farm....dollars..	18,880.61	25,460.01	38,269.23	27,484.80	13,960.75	10,868.47	32,128.01
6	per acre in farms....dollars..	113.13	342.16	44.32	13.68	67.37	13.29	65.31
7	Buildings, irrigated farms reporting value....number...	78,626	636	13	49	1,421	113	356
8	Total reported....dollars..	250,220,347	2,820,148	72,750	193,490	4,012,588	365,086	1,712,028
9	Average, per irrigated farm reporting....dollars..	3,182.41	4,434.19	5,596.15	3,948.78	2,823.78	3,230.85	4,809.07
10	per acre on all irrigated farms....dollars..	17.78	55.82	6.48	1.89	12.91	3.85	8.70
11	Buildings, nonirrigated farms reporting value....number...	46,019	1,706	.....	347	1,000	346	303
12	Total reported....dollars..	129,487,709	5,531,346	.....	635,310	1,660,592	616,040	1,086,070
13	Average, per nonirrigated farm reporting....dollars..	2,813.79	3,244.05	.....	1,830.86	1,660.59	1,780.46	3,584.37
14	per acre on all nonirrigated farms....dollars..	7.87	27.96	.....	3.10	6.11	2.17	4.52
15	Implements and machinery, irrigated farms reporting value..number...	66,427	568	13	51	1,130	112	339
16	Total reported....dollars..	99,181,718	1,138,971	26,500	79,689	1,677,641	67,931	1,188,277
17	Average, per irrigated farm reporting....dollars..	1,493.09	2,005.23	2,038.46	1,562.53	1,484.64	606.53	3,505.24
18	per acre, on all irrigated farms....dollars..	7.05	22.54	2.36	0.78	5.40	0.72	6.04
19	Implements and machinery, nonirrigated farms reporting value....number...	35,025	1,305	.....	301	604	305	254
20	Total reported....dollars..	33,155,391	1,195,742	.....	152,325	457,876	161,227	644,332
21	Average, per acre, on all nonirrigated farms....dollars..	2.02	6.04	.....	0.74	1.68	0.57	2.68
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	[1]40,038	534	17	31	514	70	119
23	1930...number....	[1]38,148	327	8	33	464	139	88
24	1920...number....	24,115	264	15	35	197	140	99
25	Average size of enterprise based on irrigable area....1940...acres....	201	60	499	92	465	47	1,817
26	1930...acres....	212	28	324	26	440	50	2,161
27	1920[2]..acres....	324	63	468	31	627	301	398
28	Diversion dams....1940...number....	2,714	.....	39	11	40	35	7
29	Main canals and laterals....1940...length, miles....	19,799.1	25.4	46.0	39.3	630.9	104.1	397.4
30	1930...length, miles....	18,602	1	10	74	460	166	396
31	1920...length, miles....	27,384	31	21	94	252	378	378
32	1940...capacity, c.f.s.[3]....	91,776	17	164	90	3,614	695	1,481
33	1930...capacity, c.f.s.[3]....	84,944	30	25	84	3,289	310	1,799
34	1920...capacity, c.f.s.[3]....	115,237	23	52	53	2,751	466	2,695
35	Pipe lines[4]....1940...length, miles....	22,690.2	204.0	1.5	6.1	127.6	10.2	4.0
36	Storage dams....1940...number....	709	2	10	9	9	13	1
37	Reservoirs....1940...number....	2,652	25	10	14	12	13	[5]1
38	1930...number....	1,769	7	.....	4	5	18	1
39	1920...number....	3,030	10	2	18	8	47	2
40	1940...capacity, acre-feet..	3,581,621	33	4,000	634	17,834	122,929	51,000
41	1930...capacity, acre-feet..	3,225,675	8,005	.....	3,010	17,622	32,514	51,000
42	1920...capacity, acre-feet..	1,091,394	1	4	196	30	10,935	51,000
43	Wells, flowing....1940...number....	436	.....	.....	.....	3	.....	.....
44	1930...number....	449	3	.....	.....	.....	4	.....
45	1920...number....	1,415	.....	.....	.....	.....	5	.....
46	1940...yield, g.p.m....	34,767	.....	.....	.....	100	.....	.....
47	1930...yield, g.p.m....	65,763	74	.....	.....	.....	58	.....
48	1920...yield, g.p.m....	287,187	.....	.....	.....	.....	65	.....
49	Wells, pumped....1940...number....	48,568	689	.....	18	548	18	84
50	1930...number....	46,737	451	.....	13	462	25	43
51	1920...number....	25,401	382	.....	4	153	20	66
52	1940...yield, g.p.m....	28,297,969	238,835	.....	14,250	446,641	1,480	112,043
53	1930...yield, g.p.m....	24,266,167	105,362	.....	2,810	299,157	1,502	45,360
54	1920...yield, g.p.m....	10,608,476	95,329	.....	150	53,890	1,205	43,735
55	Pumping plants....1940...number....	52,217	711	.....	23	618	23	148
56	1930...number....	46,729	428	.....	16	490	55	93
57	1920...number....	21,561	290	.....	9	157	32	103
58	Prime movers....1940...capacity, hp....	968,351	9,881	.....	359	11,364	136	7,492
59	1930...capacity, hp....	820,767	4,374	.....	152	8,761	492	9,843
60	1920...capacity, hp....	386,200	3,797	.....	34	2,863	234	6,931
61	Pumps....1940...capacity, g.p.m....	39,147,470	278,414	.....	18,360	752,272	3,530	905,530
62	1930...capacity, g.p.m....	33,240,589	115,677	.....	6,214	362,497	7,572	947,395
63	1920...capacity, g.p.m....	16,773,692	112,508	.....	1,890	113,036	7,986	528,610
64	Pumping lift, from all sources....1940...average, feet....	55	57	.....	22	31	51	42
65	1930...average, feet....	53	86	.....	25	28	45	29
66	1920...average, feet....	41	40	.....	32	24	41	25
67	from pumped wells....1940...average, feet....	57	57	.....	26	32	58	59
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll....number...	892	1	1	2	13	2	12
69	Irrigated area in these enterprises....acres....	2,949,047	([8])	([8])	([8])	53,293	([8])	68,006
70	Wages and salaries paid and payable....dollars..	4,901,580	([8])	([8])	([8])	128,791	([8])	65,987
71	Persons employed during week ending April 29....number...	4,425	([8])	.....	([8])	96	([8])	66

[6] Census of Agriculture.
[1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Contra Costa	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	Kings	Lake	Lassen	Los Angeles	
35,967,198	7,624,443	108,196,176	22,393,963	24,794,775	32,566,637	6,872,340	67,508,884	31,781,929	8,834,919	6,673,291	221,442,231	1
11,440,278	4,841,901	100,899,012	15,534,527	2,204,614	31,533,645	5,909,510	60,615,974	28,320,822	2,613,789	5,777,300	172,996,795	2
9,612,535	4,535,601	89,590,581	13,607,675	1,755,935	24,756,390	1,642,060	49,606,635	22,799,192	2,510,989	5,305,800	143,456,726	3
1,827,743	306,300	11,308,431	1,926,852	448,679	6,777,255	4,267,450	11,009,339	5,522,640	102,800	471,500	29,540,069	4
28,420.97	11,780.78	11,678.13	14,641.40	11,023.07	13,111.70	50,503.63	34,169.09	15,839.39	18,537.51	19,193.69	20,916.46	5
173.27	45.19	109.37	60.02	22.79	78.13	36.29	58.99	71.25	46.02	11.28	581.78	6
419	403	8,441	1,025	198	2,163	99	1,731	1,757	134	293	7,335	7
1,742,962	1,251,520	18,946,464	3,175,061	462,335	2,897,216	445,010	5,227,103	3,796,752	526,932	1,127,140	28,625,433	8
4,159.81	3,105.51	2,244.58	3,097.62	2,335.03	1,339.44	4,495.05	3,019.70	2,160.93	3,932.33	3,846.89	3,902.58	9
26.40	11.68	20.54	12.27	4.78	7.18	2.73	5.09	9.55	9.28	2.20	96.27	10
1,465	440	837	286	1,828	237	98	378	329	671	175	4,063	11
6,289,389	840,436	1,185,178	800,580	5,033,932	186,080	150,165	613,242	413,049	1,384,800	249,855	13,124,234	12
4,293.10	1,910.08	1,415.98	2,799.23	2,753.79	785.15	1,532.30	1,622.33	1,255.47	2,063.79	1,427.74	3,230.18	13
26.38	5.63	2.19	2.83	6.99	12.91	7.25	0.95	3.77	8.00	2.65	43.87	14
370	358	7,417	908	178	1,789	101	1,620	1,665	123	283	5,833	15
905,224	400,000	7,964,995	1,551,066	175,002	3,107,574	208,546	3,810,237	2,575,227	172,701	490,980	6,440,364	16
2,446.55	1,117.32	1,073.88	1,708.22	983.16	1,737.05	2,064.81	2,352.00	1,546.68	1,404.07	1,734.91	1,104.13	17
13.71	3.73	8.63	5.99	1.81	7.70	1.28	3.71	6.48	3.04	0.96	21.66	18
1,059	337	537	258	1,571	142	76	279	243	511	148	3,254	19
1,144,745	163,915	345,526	469,987	1,319,009	103,370	48,945	288,350	217,108	391,318	143,735	2,765,988	20
4.80	1.10	0.64	1.66	1.83	7.17	2.36	0.45	1.98	2.26	1.52	9.24	21
163	45	7,190	256	72	5	50	1,433	1,341	121	216	1,655	22
157	82	6,813	274	81	3	48	1,439	992	104	121	1,380	23
56	91	2,968	213	33	17	87	975	345	70	175	1,863	24
313	486	109	736	57	108,509	368	344	439	39	406	178	25
460	537	107	524	30	338,186	192	297	644	41	631	212	26
1,212	185	370	950	20	31,227	1,126	544	1,423	26	491	196	27
3	24	41	16	13	1	23	12	13	5	229	29	28
149.7	321.7	1,838.2	517.9	63.0	1,979.8	105.9	1,242.4	715.3	5.3	265.3	136.4	29
286	284	1,423	367	27	2,050	229	1,257	684	7	173	306	30
361	1,378	3,342	510	40	3,227	136	594	783	19	518	553	31
384	272	12,599	4,042	152	7,500	387	4,547	7,984	65	1,194	2,141	32
280	156	9,206	2,723	73	9,200	604	4,749	8,911	10	1,038	1,392	33
339	390	10,765	2,515	200	10,575	1,368	6,314	13,586	242	2,732	5,059	34
96.2	26.7	1,508.2	70.2	10.6	18.6	38.8	1,206.5	110.6	23.7	2.1	2,775.7	35
2	14	2	3	1	.....	1	83	3	3	36	22	36
9	13	8	[5]1	2	.....	4	644	9	4	42	338	37
2	11	46	6	6	.....	20	415	6	2	18	147	38
1	35	72	9	3	.....	18	536	20	9	31	411	39
20	11,826	2,514	50,200	([6])	.....	803	234,363	8,061	320,702	94,581	23,483	40
101	11,110	148	50,215	22	.....	44,619	209,794	27	422,000	49,331	101,000	41
5	19,966	141	8	6	.....	1,006	61,183	6,063	181	194,422	37,591	42
.....	.....	.....	1	.....	.....	.....	3	.....	2	9	10	43
.....	4	2	.....	.....	.....	9	19	.....	4	2	6	44
2	.....	59	.....	.....	.....	23	27	13	7	10	123	45
.....	.....	.....	([6])	.....	.....	.....	600	.....	([6])	120	3,629	46
.....	102	950	.....	.....	.....	295	1,475	.....	550	200	2,215	47
.....	.....	18,400	.....	.....	.....	537	17,643	2,180	950	213	41,336	48
181	10	9,058	279	21	1	3	2,172	1,792	133	29	2,118	49
162	9	8,658	295	14	.....	23	1,844	1,345	70	3	1,919	50
49	6	2,281	263	.....	1	9	983	498	17	4	2,223	51
38,231	985	5,346,337	255,558	13,650	([6])	3,160	1,645,637	1,220,107	49,635	12,157	1,180,953	52
46,800	740	4,782,984	200,228	7,060	.....	27,945	1,026,277	769,051	26,920	6,215	1,183,056	53
5,897	780	1,280,347	176,251	.....	900	4,088	415,412	202,967	5,545	1,305	1,131,797	54
227	14	9,255	325	33	4	4	2,203	1,839	147	39	2,262	55
196	24	8,557	315	31	.....	23	1,818	1,360	83	9	1,381	56
56	6	2,130	215	3	1	13	869	346	33	11	1,854	57
5,511	97	107,774	12,130	352	157	68	67,638	25,913	1,037	531	72,246	58
6,215	151	98,813	11,643	458	.....	1,261	36,893	19,603	713	247	64,622	59
3,236	15	32,361	9,214	36	38	137	12,504	5,225	241	93	45,752	60
466,450	2,787	5,758,112	1,875,398	19,025	28,300	3,260	1,637,796	1,303,681	59,955	31,842	1,297,372	61
362,421	3,230	4,866,219	1,751,668	14,904	.....	927,895	1,054,207	779,826	36,935	7,415	1,223,321	62
74,004	830	1,442,383	1,065,729	2,000	900	4,558	1,219,402	283,339	13,111	6,990	1,166,131	63
79	100	29	30	36	19	32	91	28	33	30	93	64
55	56	31	26	24	.....	53	67	37	23	27	86	65
44	37	22	23	11	70	24	53	23	18	22	60	66
92	137	29	31	35	([6])	36	91	28	33	33	93	67
3	4	23	7	[5]1	3	[5]	18	30	[5]1	6	147	68
20,792	6,005	402,380	85,337	1,008	422,789	3,903	119,384	256,903	.....	11,515	115,146	69
50,149	15,202	263,458	98,211	9,208	899,621	23,547	149,283	121,933	424	5,643	525,531	70
26	22	274	80	16	523	21	42	91	.....	11	473	71

[4] Includes siphons and farm pipe lines reported.
[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Madera	Mendocino	Merced	Modoc	Mono	Monterey	Napa
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	23,312,999	21,369,769	51,442,798	11,449,054	1,790,079	66,426,711	25,120,711
2	Land and buildings, irrigated farms.....dollars..	18,048,067	4,091,557	45,396,790	10,222,964	1,660,142	47,651,826	4,185,023
	Operated by—							
3	(a) Owners and managers.....dollars..	15,851,767	3,406,087	35,284,074	8,423,554	1,328,942	23,770,136	3,617,591
4	(b) Tenants.....dollars..	2,196,300	685,470	10,112,716	1,799,410	331,200	23,881,690	567,432
5	Average, land and buildings, per farm.....dollars..	15,887.38	25,256.52	13,266.16	19,216.10	21,014.46	45,210.46	20,217.50
6	per acre in farms.....dollars..	91.26	47.46	78.89	21.66	32.33	129.96	88.27
7	Buildings, irrigated farms reporting value.....number...	1,119	156	3,316	514	73	1,001	206
8	Total reported.....dollars..	2,823,048	1,006,474	8,115,460	1,594,181	252,242	4,810,358	1,396,293
9	Average, per irrigated farm reporting.....dollars..	2,522.83	6,451.76	2,447.36	3,101.52	3,455.37	4,805.55	6,778.12
10	per acre on all irrigated farms.....dollars..	14.27	11.67	14.10	3.38	4.91	13.12	29.45
11	Buildings, nonirrigated farms reporting value.....number...	389	1,633	333	144	10	912	1,520
12	Total reported.....dollars..	712,828	3,967,401	651,970	202,410	30,400	3,529,592	6,391,581
13	Average, per nonirrigated farm reporting.....dollars..	1,832.46	2,429.52	1,957.87	1,405.62	3,040.00	3,870.17	4,204.99
14	per acre on all nonirrigated farms.....dollars..	2.28	4.51	2.18	1.82	5.72	3.67	20.48
15	Implements and machinery, irrigated farms reporting value..number...	1,091	156	3,178	500	62	963	186
16	Total reported.....dollars..	1,636,543	307,695	3,826,825	880,372	102,415	3,549,963	365,434
17	Average, per irrigated farm reporting.....dollars..	1,500.04	1,972.40	1,204.16	1,760.74	1,651.85	3,686.36	1,964.70
18	per acre, on all irrigated farms.....dollars..	8.27	3.57	6.65	1.87	1.99	9.68	7.71
19	Implements and machinery, nonirrigated farms reporting value.....number...	318	1,238	285	123	6	781	1,294
20	Total reported.....dollars..	532,919	876,946	345,894	134,816	3,850	1,191,739	1,256,280
21	Average, per acre, on all nonirrigated farms.....dollars..	1.71	1.00	1.16	1.21	0.72	1.24	4.03
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	1,150	85	530	347	54	952	175
23	1930...number.....	1,108	99	616	334	42	632	97
24	1920...number.....	689	64	479	376	73	189	32
25	Average size of enterprise based on irrigable area.....1940...acres.....	154	100	738	431	829	120	25
26	1930...acres.....	190	77	683	285	814	145	35
27	1920[1]..acres.....	234	183	955	298	1,670	316	44
28	Diversion dams.....1940...number.....	4	5	13	416	49	15	5
29	Main canals and laterals.....1940...length, miles.....	182.0	13.0	2,150.0	442.8	163.0	37.3	2.6
30	1930...length, miles.....	221	38	1,634	404	131	212	6
31	1920...length, miles.....	189	378	1,236	756	237	206	1
32	1940...capacity, c.f.s.[2]....	1,226	87	2,703	2,121	2,484	146	122
33	1930...capacity, c.f.s.[2]....	2,731	47	8,026	1,607	619	776	40
34	1920...capacity, c.f.s.[2]....	2,066	86	3,972	3,078	1,526	528	20
35	Pipe lines[3].....1940...length, miles.....	153.4	34.2	240.9	8.9	2.8	791.0	79.7
36	Storage dams.....1940...number.....	1	2	4	60	6	1	9
37	Reservoirs.....1940...number.....	37	4	8	66	5	10	10
38	1930...number.....	13	2	36	40	6	14	8
39	1920...number.....	107	10	64	71	12	9	3
40	1940...capacity, acre-feet..	81	93	283,035	579,781	44,300	117	378
41	1930...capacity, acre-feet..	32	128	379,045	591,080	42,801	34	77
42	1920...capacity, acre-feet..	418	296	20,651	80,285	44,740	54	1
43	Wells, flowing.....1940...number.....	.....	.....	.....	114	2	.....	2
44	1930...number.....	.....	1	1	70	.....	.....	1
45	1920...number.....	8	.....	13	71	.....	1	1
46	1940...yield, g.p.m.....	.....	.....	.....	3,151	(4)	.....	(4)
47	1930...yield, g.p.m.....	.....	5	1,500	1,532	.....	.....	45
48	1920...yield, g.p.m.....	2,100	.....	3,212	5,607	.....	400	1,000
49	Wells, pumped.....1940...number.....	1,859	50	785	6	3	1,351	129
50	1930...number.....	1,459	44	813	3	12	1,176	70
51	1920...number.....	753	14	543	7	10	606	11
52	1940...yield, g.p.m.....	1,384,073	29,367	642,284	2,081	900	1,348,392	41,173
53	1930...yield, g.p.m.....	941,356	21,850	607,767	2,007	5,620	1,012,242	16,682
54	1920...yield, g.p.m.....	189,455	1,859	299,395	675	5,919	407,310	9,005
55	Pumping plants.....1940...number.....	1,891	110	880	14	3	1,320	197
56	1930...number.....	1,476	93	799	5	12	855	102
57	1920...number.....	701	39	539	11	9	203	31
58	Prime movers.....1940...capacity, hp.....	30,627	1,215	15,970	270	25	39,749	1,004
59	1930...capacity, hp.....	29,088	863	12,948	59	316	25,331	1,020
60	1920...capacity, hp.....	8,307	481	6,094	146	214	9,631	314
61	Pumps.....1940...capacity, g.p.m.....	1,398,168	74,199	851,245	39,044	900	1,379,356	68,915
62	1930...capacity, g.p.m.....	1,141,943	61,710	689,547	3,055	6,160	1,023,793	43,586
63	1920...capacity, g.p.m.....	396,483	18,424	349,580	3,250	5,919	406,617	21,126
64	Pumping lift, from all sources.....1940...average, feet.....	54	27	31	26	15	59	37
65	1930...average, feet.....	49	22	34	33	96	47	35
66	1920...average, feet.....	33	33	22	30	34	33	24
67	from pumped wells.....1940...average, feet.....	54	34	32	38	15	60	48
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]							
68	Enterprises reporting pay roll.....number...	3	2	8	14	1	6	.....
69	Irrigated area in these enterprises.....acres....	18,472	(4)	242,294	25,546	(4)	4,544	.....
70	Wages and salaries paid and payable.....dollars..	11,446	(4)	290,881	21,993	(4)	5,064	.....
71	Persons employed during week ending April 29.....number...	12	(4)	241	43	(4)	12	.....

*Census of Agriculture.

[1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[2]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Nevada	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	San Francisco	San Joaquin	San Luis Obispo	
3,250,032	131,224,245	12,224,957	2,756,019	63,385,967	43,549,790	20,078,389	86,507,485	64,763,677	1,752,099	104,917,721	34,559,738	1
2,338,719	122,805,100	8,117,042	2,441,340	53,059,052	31,925,483	11,825,555	75,280,520	48,265,894	1,641,885	91,813,796	8,967,002	2
2,060,919	109,757,859	7,272,442	2,295,240	49,652,399	25,151,568	9,992,975	72,270,188	44,308,929	1,397,850	71,726,104	5,129,872	3
277,800	13,047,241	844,600	146,100	3,406,653	6,773,915	1,832,580	3,010,332	3,956,965	244,035	20,087,692	3,837,130	4
7,693.15	22,566.17	8,900.27	18,779.54	17,049.82	14,671.64	20,077.34	16,092.46	12,312.73	19,781.75	20,660.17	24,040.22	5
28.15	757.62	77.78	16.78	148.13	132.52	96.47	438.67	103.35	4,857.65	177.03	56.03	6
289	4,212	901	125	2,831	2,137	573	3,935	3,702	79	4,287	357	7
751,005	12,728,992	2,345,219	619,090	8,438,263	6,989,605	1,975,820	13,493,607	10,792,349	609,086	13,433,068	1,123,288	8
2,598.63	3,022.08	2,602.91	4,952.72	2,980.67	3,270.76	3,448.20	3,429.13	2,915.28	7,709.95	3,133.44	3,146.46	9
9.04	78.53	22.47	4.25	23.56	29.01	16.12	78.63	23.11	1,802.03	25.90	7.02	10
180	567	523	33	1,469	1,240	401	1,267	1,824	7	1,063	1,459	11
309,200	1,307,510	979,565	98,200	2,516,872	3,309,951	1,173,103	3,618,086	3,686,410	22,064	2,332,019	3,891,935	12
1,717.78	2,306.01	1,872.97	2,975.76	1,713.32	2,669.32	2,925.44	2,855.63	2,021.06	3,152.00	2,193.81	2,667.54	13
9.96	24.29	8.87	6.55	9.10	17.38	2.04	6.66	7.64	424.31	9.96	3.02	14
278	2,581	785	119	2,186	1,831	545	2,393	2,522	70	3,848	333	15
204,870	3,160,313	574,447	172,053	2,654,081	2,628,705	962,160	2,412,543	2,204,096	80,745	6,685,852	753,011	16
736.94	1,224.45	731.78	1,445.82	1,214.13	1,435.67	1,765.43	1,008.17	873.95	1,153.50	1,737.49	2,261.29	17
2.47	19.50	5.50	1.18	7.41	10.91	7.85	14.06	4.72	238.89	12.89	4.71	18
155	292	377	28	959	929	375	695	1,101	7	885	1,175	19
64,142	304,177	260,549	20,234	811,573	755,496	506,893	594,489	844,563	7,500	852,153	1,908,652	20
2.07	5.65	2.36	1.35	2.93	3.97	0.88	1.09	1.75	144.23	3.64	1.48	21
49	1,117	81	122	982	1,575	428	996	1,638	78	2,565	316	22
94	1,035	53	116	1,034	2,083	383	936	776	50	2,572	328	23
96	1,012	64	102	807	1,159	217	622	637	33	1,233	128	24
2,618	137	814	295	249	99	109	154	55	5	162	50	25
1,422	136	877	214	247	68	67	170	117	12	139	44	26
58	112	625	277	281	122	106	296	107	12	263	88	27
42	6	21	190	36	2	37	34	40	.....	5	37	28
306.7	67.9	167.9	59.0	402.3	123.9	46.0	90.3	48.3	.....	759.7	8.1	29
401	64	342	91	510	242	25	118	72	.....	740	11	30
345	155	347	201	431	417	93	171	155	.....	1,977	20	31
338	260	1,755	545	1,322	1,702	97	864	434	.....	3,853	111	32
406	375	511	614	1,720	1,556	29	334	187	.....	2,413	8	33
454	780	657	1,369	2,649	1,937	264	1,291	1,653	.....	2,609	53	34
53.0	1,838.6	31.1	2.2	1,783.0	243.7	116.7	2,308.1	1,984.1	24.4	579.1	131.6	35
23	18	16	1	54	2	6	30	34	.....	.....	12	36
30	58	21	3	158	7	16	140	146	1	2	42	37
15	45	44	2	125	19	7	130	77	.....	8	26	38
25	27	17	1	201	7	19	99	134	.....	25	15	39
134,065	28,512	741,216	33	29,257	214	4,228	73,404	218,565	(4)	(4)	190	40
90,286	3,958	277,215	5,640	25,782	4,620	538	72,957	56,959	.....	92,546	111	41
50,021	1,044	10,112	240	113,996	698	5,996	1,399	22,142	.....	36,037	21	42
.....	1	.....	4	129	.....	2	106	4	.....	1	17	43
2	21	.....	.....	163	4	17	52	1	.....	2	20	44
3	365	.....	6	306	.....	4	124	5	1	3	19	45
.....	(4)	.....	150	12,108	.....	(4)	9,315	115	.....	(4)	2,060	46
270	1,240	.....	.....	21,397	1,400	4,000	13,186	10	.....	3,300	4,010	47
38	34,199	.....	476	69,110	.....	600	20,310	231	.....	180	3,808	48
1	1,368	41	5	1,288	1,793	479	1,156	1,912	62	3,072	303	49
8	1,377	21	2	1,471	2,344	444	1,107	1,319	58	3,037	363	50
5	1,151	31	.....	837	1,433	365	675	1,122	48	1,376	161	51
(4)	864,333	18,438	1,803	642,786	860,425	231,761	753,382	254,027	1,687	1,959,689	146,930	52
1,965	804,155	4,225	25	736,830	954,129	202,077	709,801	213,697	2,376	1,751,843	141,177	53
146	549,010	4,532	.....	378,010	480,229	104,860	400,293	147,860	1,725	630,697	35,862	54
7	1,411	73	8	1,418	2,111	488	1,196	1,939	65	3,408	363	55
16	1,321	40	3	1,361	2,701	410	1,100	996	60	3,212	367	56
8	1,002	44	2	628	1,465	183	583	651	48	1,371	119	57
85	49,997	599	112	30,513	22,655	9,767	53,781	13,635	182	49,494	4,943	58
69	40,961	249	11	30,492	26,202	7,892	43,075	9,013	286	44,440	4,992	59
38	24,495	276	170	15,473	17,283	4,009	20,120	5,190	154	18,987	1,692	60
3,334	918,533	29,079	4,225	846,097	1,468,598	253,596	860,053	297,563	1,637	3,427,855	175,030	61
3,160	837,770	6,875	175	932,097	1,651,959	226,727	731,627	223,812	3,306	2,528,498	199,611	62
464	604,759	8,131	9,000	404,046	788,172	114,360	423,835	161,517	1,807	997,850	62,519	63
54	83	35	30	71	36	76	94	62	92	33	45	64
44	70	44	25	60	34	71	90	58	98	32	37	65
31	51	29	10	58	28	34	82	52	83	28	25	66
(4)	84	35	36	72	38	78	94	62	92	35	52	67
1	78	5	1	68	7	13	145	24	.....	17	2	68
(4)	64,642	28,772	(4)	84,777	9,783	2,481	76,256	30,834	.....	120,024	(4)	69
(4)	167,557	111,395	(4)	280,879	27,451	11,017	220,509	208,451	.....	229,658	(4)	70
(4)	180	73	(4)	400	27	29	309	188	.....	218	(4)	71

[3] Includes siphons and farm pipe lines reported.
[4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	San Mateo	Santa Barbara	Santa Clara	Santa Cruz	Shasta	Sierra	Siskiyou
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	19,635,055	55,108,479	91,979,956	18,952,530	11,116,599	1,196,985	14,320,652
2	Land and buildings, irrigated farms....dollars..	7,306,530	36,279,045	64,255,837	8,574,425	8,923,424	1,016,495	12,566,680
	Operated by—							
3	(a) Owners and managers....dollars..	4,175,975	29,755,245	56,770,514	6,369,735	7,679,330	983,685	10,733,780
4	(b) Tenants....dollars..	3,130,555	6,523,800	7,485,323	2,204,690	1,244,094	32,800	1,832,900
5	Average, land and buildings, per farm....dollars..	18,928.83	53,195.08	18,722.56	18,479.36	10,082.96	15,638.23	13,734.08
6	per acre in farms....dollars..	333.11	176.33	255.46	241.13	22.58	21.69	21.31
7	Buildings, irrigated farms reporting value....number...	367	622	3,276	444	846	62	903
8	Total reported....dollars..	1,863,705	5,321,692	11,488,661	1,403,610	1,941,750	264,600	2,662,020
9	Average, per irrigated farm reporting....dollars..	5,078.22	8,555.77	3,506.92	3,161.28	2,295.21	4,267.74	2,947.97
10	per acre on all irrigated farms....dollars..	84.97	25.87	45.68	39.47	4.91	5.65	4.51
11	Buildings, nonirrigated farms reporting value....number...	421	612	2,077	1,215	326	20	286
12	Total reported....dollars..	3,051,190	2,152,841	7,572,941	2,947,610	468,020	56,350	474,510
13	Average, per nonirrigated farm reporting....dollars..	7,247.48	3,517.71	3,646.10	2,426.02	1,435.64	2,817.50	1,659.13
14	per acre on all nonirrigated farms....dollars..	29.59	3.50	21.32	42.41	3.36	4.26	4.32
15	Implements and machinery, irrigated farms reporting value..number...	352	580	2,974	422	730	56	796
16	Total reported....dollars..	540,114	1,697,041	4,605,776	739,973	570,590	87,126	1,207,004
17	Average, per irrigated farm reporting....dollars..	1,534.41	2,925.93	1,548.68	1,753.49	781.63	1,555.82	1,516.34
18	per acre, on all irrigated farms....dollars..	24.62	8.25	18.31	20.81	1.44	1.86	2.05
19	Implements and machinery, nonirrigated farms reporting value....number...	406	528	1,657	995	262	16	209
20	Total reported....dollars..	597,546	860,658	1,162,165	528,911	148,327	18,380	156,608
21	Average, per acre, on all nonirrigated farms....dollars..	5.79	1.40	3.27	7.61	1.06	1.39	1.43
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	265	598	2,215	310	428	34	558
23	1930...number....	353	516	2,207	182	402	16	383
24	1920...number....	206	275	1,561	67	336	70	455
25	Average size of enterprise based on irrigable area....1940...acres....	48	99	62	42	162	478	215
26	1930...acres....	26	104	47	36	175	629	321
27	1920[2]...acres....	46	137	56	40	329	265	287
28	Diversion dams....1940...number....	23	13	40	28	259	37	442
29	Main canals and laterals....1940...length, miles....	38.1	9.0	31.6	23.2	648.3	21.2	785.1
30	1930...length, miles....	6	36	27	3	432	14	832
31	1920...length, miles....	7	38	51	2	701	95	959
32	1940...capacity, c.f.s.[3]....	170	59	338	80	2,161	140	1,878
33	1930...capacity, c.f.s.[3]....	149	96	242	1	1,910	103	2,630
34	1920...capacity, c.f.s.[3]....	13	312	328	7	3,970	282	4,255
35	Pipe lines[4]....1940...length, miles....	144.4	654.3	657.7	124.9	32.5	5.2	42.1
36	Storage dams....1940...number....	36	21	7	13	18	1	22
37	Reservoirs....1940...number....	90	69	12	56	22	1	23
38	1930...number....	44	43	18	5	10	3	8
39	1920...number....	157	83	8	10	12	1	20
40	1940...capacity, acre-feet..	2,513	7,772	659	74	6,095	(5)	70,204
41	1930...capacity, acre-feet..	223	308	18	189	12,477	14	133,199
42	1920...capacity, acre-feet..	1,244	14,052	21	38	6,312	.....	4,591
43	Wells, flowing....1940...number....	.....	.....	.....	.....	7	.....	4
44	1930...number....	2	7	6	.....	5	10	3
45	1920...number....	17	33	80	1	3	.....	8
46	1940...yield, g.p.m....	.....	.....	.....	.....	68	.....	47
47	1930...yield, g.p.m....	9	2,294	1,166	.....	490	98	200
48	1920...yield, g.p.m....	25,723	4,341	13,075	125	150	.....	1,350
49	Wells, pumped....1940...number....	256	736	2,503	295	38	1	51
50	1930...number....	385	697	2,562	189	39	.....	14
51	1920...number....	229	296	2,159	44	4	1	26
52	1940...yield, g.p.m....	19,850	381,899	1,176,537	111,149	12,297	(5)	31,608
53	1930...yield, g.p.m....	38,678	378,410	1,134,255	60,056	6,029	.....	22,802
54	1920...yield, g.p.m....	27,009	101,925	649,247	11,076	1,340	500	9,995
55	Pumping plants....1940...number....	365	793	2,626	352	122	1	86
56	1930...number....	463	630	2,516	213	108	.....	42
57	1920...number....	251	235	1,572	59	51	1	45
58	Prime movers....1940...capacity, hp....	3,650	15,152	64,277	5,755	1,008	(5)	2,432
59	1930...capacity, hp....	4,552	13,917	59,059	2,365	984	.....	3,281
60	1920...capacity, hp....	2,219	5,657	33,721	685	594	.....	2,903
61	Pumps....1940...capacity, g.p.m....	42,267	419,502	1,258,183	131,569	116,470	(5)	151,613
62	1930...capacity, g.p.m....	81,731	403,885	1,202,581	69,064	72,522	.....	250,081
63	1920...capacity, g.p.m....	26,400	543,273	780,874	19,378	47,896	500	125,674
64	Pumping lift, from all sources....1940...average, feet....	106	91	104	77	18	(5)	37
65	1930...average, feet....	100	80	100	72	18	.....	39
66	1920...average, feet....	78	51	56	42	17	6	40
67	from pumped wells....1940...average, feet....	122	92	106	82	23	(5)	42
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll....number...	6	8	32	2	8	1	15
69	Irrigated area in these enterprises....acres....	926	1,909	5,487	(5)	9,999	(5)	36,256
70	Wages and salaries paid and payable....dollars..	3,108	6,960	10,323	(5)	17,048	(5)	36,805
71	Persons employed during week ending April 29....number...	7	16	45	(5)	26	.....	62

*Census of Agriculture.
[1]Del Norte, Marin, and Mariposa Counties.
[2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba	All other counties[1]	
34,807,542	60,848,296	75,119,376	34,315,852	17,855,708	2,123,765	105,957,416	3,858,081	96,843,976	47,096,429	10,436,780	17,003,913	1
19,862,367	5,477,013	69,109,716	29,721,029	10,572,332	1,202,920	97,090,608	1,152,070	87,060,167	36,654,094	7,920,703	414,167	2
14,618,884	5,124,551	55,841,712	26,902,084	9,483,549	1,012,220	83,530,475	1,068,300	79,926,568	28,788,818	7,144,927	397,897	3
5,243,483	352,462	13,268,004	2,918,945	1,088,783	190,700	13,560,133	83,770	7,133,599	7,865,276	775,776	16,270	4
43,846.28	30,259.74	13,002.77	27,417.92	10,777.10	6,044.82	17,736.68	6,698.08	66,866.49	42,228.22	21,407.31	10,899.13	5
79.43	105.80	146.99	128.88	23.61	20.85	115.35	23.81	257.58	136.50	80.65	27.48	6
443	179	5,190	1,022	906	197	5,174	168	1,218	815	360	35	7
2,620,677	1,225,867	15,172,770	4,140,497	2,217,334	340,355	14,238,796	372,840	8,570,354	4,171,419	1,428,357	77,757	8
5,915.75	6,847.41	2,923.46	4,051.37	2,447.39	1,727.69	2,751.99	2,219.29	7,036.42	5,118.31	3,967.66	2,221.63	9
10.48	23.68	32.27	17.95	4.95	5.90	16.92	7.71	25.36	15.53	14.54	5.16	10
973	5,900	404	298	682	126	789	222	409	433	170	1,175	11
2,729,545	19,238,296	908,665	725,520	1,202,130	190,485	1,718,340	433,290	1,878,105	1,392,716	354,345	3,458,415	12
2,805.29	3,260.73	2,249.17	2,451.08	1,762.65	1,511.79	2,177.87	1,951.76	4,591.94	3,216.43	2,084.38	2,943.33	13
10.10	29.67	4.14	8.39	1.54	1.48	2.73	2.37	15.71	6.67	3.09	7.10	14
406	171	4,753	956	627	169	4,519	154	1,125	792	328	32	15
1,348,795	380,060	5,217,141	2,552,248	742,498	89,795	6,883,211	101,562	3,648,460	3,018,981	573,586	34,706	16
3,322.16	2,222.57	1,097.65	2,669.72	1,184.21	531.33	1,523.17	659.49	3,243.08	3,811.84	1,748.74	1,084.56	17
5.39	7.34	11.10	11.07	1.66	1.56	8.18	2.10	10.79	11.24	5.84	2.30	18
696	4,495	317	275	474	89	551	185	279	379	137	867	19
930,332	3,382,510	376,714	366,193	376,459	45,726	586,709	109,167	405,198	738,745	151,438	927,242	20
3.44	5.22	1.72	4.23	0.48	0.36	0.93	0.60	3.39	3.54	1.32	1.90	21
446	152	127	799	495	189	4,874	50	636	601	163	26	22
314	234	81	1,008	482	185	5,545	85	607	411	175	21	23
251	93	106	487	333	222	3,570	53	130	254	78	13	24
187	33	2,644	200	118	37	116	88	183	426	266	14	25
117	15	4,392	167	104	45	99	304	182	467	454	6	26
144	121	3,540	211	134	68	214	479	390	412	923	63	27
1	9	5	4	56	144	85	24	20	2	14	10	28
203.1	4.2	1,972.9	401.1	300.6	179.9	945.1	51.5	28.7	274.4	218.3	8.0	29
8	.....	935	468	264	172	933	134	65	437	374	.....	30
80	2	1,681	282	419	260	2,022	193	72	294	293	3	31
1,448	82	5,743	1,967	1,004	598	3,800	779	164	3,316	519	32	32
27	.....	5,341	1,116	689	772	3,003	79	116	1,726	1,066	.....	33
111	6	6,150	1,168	1,111	1,536	8,018	251	169	1,641	786	6	34
44.1	30.1	403.9	213.3	158.9	6.8	2,011.0	6.2	1,383.9	80.3	39.5	3.3	35
4	3	6	.....	2	2	63	3	11	1	1	2	36
6	6	8	1	4	5	358	5	68	1	2	2	37
4	6	15	.....	3	6	198	20	44	3	7	1	38
4	4	4	4	14	41	527	15	23	3	9	4	39
1,508	56	112,557	(5)	82	4	3,669	289,019	443	(5)	(5)	(5)	40
8	80	421,763	.....	123	35	4,318	6,583	323	116	1,570	1	41
.....	.....	75,156	2	185	90,458	112,806	6,086	2,749	151	6,651	3	42
.....	.....	5	.....	1	.....	.....	5	4	.....	.....	.....	43
.....	.....	4	.....	1	.....	.....	1	2	.....	.....	.....	44
4	1	1	2	.....	.....	23	.....	42	.....	.....	1	45
.....	.....	1,125	.....	(5)	.....	.....	16	490	.....	.....	.....	46
.....	.....	3,375	.....	25	.....	.....	112	185	.....	.....	.....	47
.....	.....	400	600	.....	.....	7,173	.....	11,435	.....	.....	.....	48
494	138	224	1,162	558	2	7,603	3	838	648	198	3	49
356	210	176	1,425	521	2	8,066	10	824	540	239	13	50
322	78	100	742	281	5	4,515	2	149	285	49	7	51
235,233	68,684	253,546	747,431	223,128	(5)	3,750,828	190	602,832	736,357	182,065	315	52
154,261	73,166	216,418	857,617	255,961	150	3,277,594	693	564,417	405,118	153,488	763	53
145,982	28,381	84,205	319,535	96,585	605	1,776,335	25	86,734	166,698	30,551	308	54
642	197	376	1,279	586	7	7,797	6	970	1,018	208	4	55
411	237	185	1,478	541	8	7,964	19	823	536	232	15	56
281	98	114	628	261	12	3,758	4	105	276	41	4	57
8,722	2,054	14,720	22,568	5,303	43	116,717	35	30,848	23,718	3,373	12	58
5,381	1,885	11,181	24,329	4,995	150	98,590	84	28,589	15,992	3,800	85	59
4,547	614	4,803	10,541	2,190	69	45,032	12	5,592	8,852	2,365	19	60
769,529	105,264	845,316	1,711,239	251,621	3,477	3,932,777	2,090	676,789	1,965,963	222,425	815	61
335,762	99,804	400,616	1,730,400	263,013	8,425	3,310,741	3,148	587,253	1,423,790	212,908	1,558	62
199,892	33,524	232,785	826,630	106,285	3,990	2,331,179	25	94,130	549,814	29,852	325	63
50	34	40	33	34	14	62	40	95	30	31	49	64
46	41	33	26	31	25	65	20	97	30	30	.....	65
34	19	31	21	27	15	43	36	82	26	24	.....	66
56	36	57	34	34	(5)	62	57	96	39	31	30	67
3	.....	8	8	10	.....	64	2	36	8	7	.....	68
378	.....	275,163	58,871	19,966	.....	155,804	(5)	28,869	26,985	16,788	.....	69
322	.....	425,921	91,241	25,709	.....	168,301	(5)	67,646	29,848	17,424	.....	70
2	.....	301	74	37	.....	191	(5)	90	24	19	.....	71

[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	*66,538,880	66,341,120	66,341,120	66,341,120	66,341,120	66,341,120	66,341,120
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	51,436	63,644	59,956	59,934	46,170	24,700	16,389
Land in all farms.....acres....	31,527,240	29,978,472	28,876,171	24,462,014	13,532,113	9,474,588	4,598,941
Farms irrigated:[1]							
Farms.....number...	29,766	30,321	31,288	28,756	25,857	17,613	9,659
Increase or decrease (-) over preceding census....percent..	[2] -4.9	.....	8.8	11.2	46.8	82.3	.....
Proportion of all farms.....percent..	57.9	47.6	52.2	48.0	56.0	71.3	58.9
Land in farms.....acres....	12,522,458	(3)	10,390,299	(3)	(3)	(3)	(3)
Proportion of all farm land.....percent..	39.7	(3)	36.0	(3)	(3)	(3)	(3)
Area irrigated.....acres....	[4] 2,467,548	[5] 1,882,888	[6] 2,291,927	(7)	(7)	1,611,271	890,735
Increase or decrease (-) over preceding census....percent..	[2] 7.7	.....	.....	.....	.....	80.9	.....
Proportion of total land area of State.....percent..	3.7	2.8	3.5	.....	.....	2.4	1.3
Proportion of all farm land.....percent..	7.8	6.3	7.9	.....	.....	17.0	19.4
Value of irrigated farms (land and buildings).....dollars..	268,377,191	(3)	386,053,889	(3)	(3)	(3)	(3)
Average per farm.....dollars..	9,016.23	(3)	12,338.72	(3)	(3)	(3)	(3)
Average per acre.....dollars..	21.43	(3)	37.16	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8].....dollars..	25,650,123	(3)	28,127,021	(3)	(3)	(3)	(3)
Average per farm[8].....dollars..	861.73	(3)	898.97	(3)	(3)	(3)	(3)
Average per acre[8].....dollars..	2.05	(3)	2.71	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	8,713	(3)	6,509	6,634	9,065	(3)	(3)
Farms irrigated.....number...	41,228	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated.....acres....	3,220,685	(3)	3,393,619	3,348,385	2,792,032	(3)	(3)
Area existing works were capable of supplying with water.....acres....	3,913,542	(3)	4,078,712	3,855,348	3,990,166	(3)	(3)
Area irrigable.....acres....	4,283,250	(3)	4,528,251	[9] 5,220,588	[9] 5,917,457	(3)	(3)
Additional area existing works were capable of supplying with water.....acres....	692,857	(3)	685,093	506,963	1,198,134	(3)	(3)
Additional irrigable area in enterprises not supplied with water.....acres....	1,062,565	(3)	1,134,632	[9] 1,872,203	[9] 3,125,425	(3)	(3)
Investment in irrigation enterprises.....dollars..	106,849,343	(3)	87,603,240	88,302,442	56,636,443	11,758,703	6,368,755
Increase or decrease (-) over preceding census.....percent..	[2] 22.0	(3)	-0.8	55.9	381.7	84.6	.....
Average per acre based on area works were capable of supplying with water.....dollars..	27.30	(3)	21.48	22.90	14.19	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] 27.1	(3)	-6.2	61.4	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	109,808,466	(3)	91,845,804	95,198,423	76,443,239	(3)	(3)
Average per acre based on irrigable area in enterprises.....dollars..	25.64	(3)	20.28	[9] 18.24	[9] 12.92	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	0.81	(3)	0.85	0.87	0.75	(3)	(3)

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 330,794 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. *The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	51,436	31,527,240	4,769,671	2,136,754	330,794	388,343,847	12.32	84,847,413	2.69	39,021,614	1.24
Owners and managers.....	32,298	24,205,864	2,966,333	1,293,367	273,908	258,977,728	10.70	60,034,721	2.48	25,308,464	1.05
Tenants.....	19,138	7,321,376	1,803,338	843,387	56,886	129,366,119	17.67	24,812,692	3.39	13,713,150	1.87
Irrigated farms, total.....	29,766	12,522,458	2,378,532	2,136,754	330,794	268,377,191	21.43	59,423,593	4.75	25,650,123	2.05
Owners and managers.....	18,865	10,181,139	1,462,811	1,293,367	273,908	173,643,424	17.06	41,409,603	4.07	16,152,793	1.59
Tenants.....	10,901	2,341,319	915,721	843,387	56,886	94,733,767	40.46	18,013,990	7.69	9,497,330	4.06
Wholly irrigated farms.....	24,618	8,577,333	1,831,105	1,831,105	278,178	212,757,083	24.80	48,309,579	5.63	20,645,863	2.41
Owners and managers.....	15,528	6,915,864	1,113,138	1,113,138	230,757	135,581,418	19.60	33,404,980	4.83	12,860,859	1.86
Tenants.....	9,090	1,661,469	717,967	717,967	47,421	77,175,665	46.45	14,904,599	8.97	7,785,004	4.69
Partly irrigated farms.....	5,148	3,945,125	547,427	305,649	52,616	55,620,108	14.10	11,114,014	2.82	5,004,260	1.27
Owners and managers.....	3,337	3,265,275	349,673	180,229	43,151	38,062,006	11.66	8,004,623	2.45	3,291,934	1.01
Tenants.....	1,811	679,850	197,754	125,420	9,465	17,558,102	25.83	3,109,391	4.57	1,712,326	2.52
Nonirrigated farms, total.....	21,670	19,004,782	2,391,139	.....	.....	119,966,656	6.31	25,423,820	1.34	13,371,491	0.70

[1] Does not include irrigated fallow land and land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	8,713	4,283,250	3,913,542	3,220,685	3,393,619	3,348,385	-5.1	3,039,354	3,119,691	2,968,361	2.6	1.10	0.43
Primary sources:													
Streams, gravity	5,185	3,995,460	3,649,834	3,010,172	3,138,966	3,028,787	-4.1	2,858,389	2,939,261	2,796,338	2.4	0.85	0.36
Streams, pumped	68	10,649	8,351	4,691	27,765	12,747	-83.1	2,906	4,386	2,668	1.7	2.13	1.23
Streams, gravity and pumped	23	46,834	36,246	24,334	2,828	9,430	760.5	24,232	24,296	24,194	3.7	2.49	0.66
Wells, pumped	911	80,090	76,587	58,771	12,143	10,114	367.5	56,252	55,993	55,946	2.4	3.86	1.64
Wells, flowing	124	6,506	6,506	6,256	3,786	4,191	65.2	6,052	2,035	2,005	1.7	0.73	0.44
Wells, pumped and flowing	4	902	902	482	.....	85	.....	482	370	370	1.6	0.33	0.21
Lakes, gravity	24	5,886	5,823	5,025	9,857	2,867	-49.0	4,461	4,975	4,411	2.9	0.68	0.23
Lakes, pumped	4	148	138	134	405	871	-66.9	134	134	134	2.6	4.37	1.68
Springs	293	16,258	14,748	12,826	10,606	10,856	20.9	12,046	11,295	10,710	2.8	0.61	0.22
Springs and streams	61	20,574	19,141	16,856	.....	.....	.....	16,131	16,269	15,807	2.8	0.28	0.10
Stored storm water	69	7,226	6,765	4,299	5,675	16,909	-24.2	3,396	3,875	3,011	1.5	0.60	0.41
City water	5	69	53	53	85	11	-37.6	52	48	48	0.9	2.40	2.67
Sewage	1	[2]	[2]	[2]	220	195	[2]	[2]	[2]	[2]	[2]	[2]	[2]
Streams, gravity; wells, pumped	44	18,948	16,486	15,046	8,956	16,258	68.0	11,926	14,895	11,805	3.1	1.82	0.58
Streams, gravity; wells, flowing	21	42,780	42,780	39,094	8,700	67,880	349.4	19,414	19,301	19,301	0.7	0.58	0.90
Streams, pumped; wells, pumped	1	[3]	[3]	[3]	.....	.....	.....	[3]	[3]	[3]	[3]	[3]	[3]
Waste water, seepage or drainage	152	[2] 9,443	[2] 9,021	[2] 7,124	.....	.....	.....	[2] 6,219	[2] 5,830	[2] 5,059	[2] 2.8	[2] 0.56	[2] 0.20
Other mixed	94	[3] 21,477	[3] 20,161	[3] 17,522	158,539	165,825	[3] -88.9	[3] 17,262	[3] 16,726	[3] 16,554	[3] 2.1	[3] 1.03	[3] 0.49
Other and not reported	.....	.....	.....	.....	5,088	1,359	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]													
Streams, gravity and/or storage	271	606,585	594,754	510,133	.....	.....	.....	472,111	470,922	455,714	0.6	0.41	0.72
Streams, pumped	23	11,624	11,603	8,892	527	.....	[5]	8,844	8,755	8,755	4.1	3.72	0.92
Wells, pumped	1,291	128,503	126,120	104,309	1,343	.....	[5]	104,140	103,738	103,669	1.9	3.05	1.62
Wells, flowing	44	5,875	5,755	4,681	.....	.....	.....	3,205	3,587	2,161	0.4	0.07	0.19

[1]Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2]Data for 1 enterprise with "Sewage" source of supply are included with enterprises reporting "Waste water, seepage or drainage" source of supply in the 1940 Census. [3]Data for 1 enterprise with "Streams, pumped; wells, pumped" source of supply are included with enterprises reporting "Other mixed" source of supply in the 1940 Census. [4]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [5]Percent not shown when more than 1,000.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	106,849,343	100.0	27.30	87,603,240	100.0	21.48	5.82	3,128,787	0.81	3,235,629	0.85	-0.04	3,030,771	0.87
Primary sources:														
Streams, gravity	85,543,712	80.1	23.44	78,971,382	90.1	20.90	2.54	2,948,272	0.56	2,989,051	0.82	-0.26	2,729,530	0.82
Streams, pumped	142,190	0.1	17.03	5,451,389	6.2	112.79	-95.76	4,406	1.79	27,348	3.89	-2.10	11,617	9.49
Streams, gravity and pumped	3,270,498	3.1	90.23	90,360	0.1	29.80	60.43	24,296	3.29	2,828	2.72	0.57	9,430	2.34
Wells, pumped	1,300,983	1.2	16.99	474,053	0.5	30.66	-13.67	56,002	3.87	11,403	5.36	-1.49	9,350	4.54
Wells, flowing	85,501	0.1	13.14	55,900	0.1	12.20	0.94	2,035	0.72	3,781	0.26	0.46	3,847	0.52
Wells, pumped and flowing	11,630	[3]	12.89	.....	.....	.....	.....	370	0.33	.....	.....	.....	85	4.78
Lakes, gravity	259,453	0.2	44.56	184,943	0.2	17.45	27.11	4,975	0.74	8,506	0.89	-0.15	1,751	1.14
Lakes, pumped	1,575	[3]	11.41	13,100	[3]	31.95	-20.54	134	4.37	401	3.21	1.16	801	3.21
Springs	121,388	0.1	8.23	153,808	0.2	11.67	-3.44	11,295	0.62	8,939	1.06	-0.44	7,695	1.20
Springs and streams	240,685	0.2	12.57	.....	.....	.....	.....	16,289	0.22	.....	.....	.....	.....	.....
Stored storm water	128,817	0.1	19.04	274,852	0.3	25.32	-6.28	3,875	0.59	5,517	0.79	-0.20	14,948	1.25
City water	1,465	[3]	27.64	5,200	[3]	61.18	-33.54	48	2.40	83	12.08	-9.68	11	1.82
Sewage	[4]	[4]	[4]	2,050	[3]	7.32	[4]	[4]	[4]	220	0.55	[4]	95	0.71
Streams, gravity; wells, pumped	209,737	0.2	12.72	212,058	0.2	22.53	-9.81	14,895	1.80	8,956	1.74	0.06	15,913	0.75
Streams, gravity; wells, flowing	967,674	0.9	22.62	241,271	0.3	14.83	7.79	19,301	0.58	8,700	4.80	-4.22	67,880	0.59
Streams, pumped; wells, pumped	[5]	[6]	[5]	.....	.....	.....	.....	[5]	[5]	.....	.....	.....	.....	.....
Waste water, seepage or drainage	[4] 113,223	[4] 0.1	[4] 12.65	.....	.....	.....	.....	[4] 5,868	[4] 0.57	.....	.....	.....	.....	.....
Other mixed	[5] 472,591	[5] 0.4	[5] 23.44	1,257,588	1.4	7.70	[5] 15.74	[5] 16,726	[5] 1.03	155,729	0.26	[5] 0.77	156,697	1.07
Other and not reported	.....	.....	.....	92,936	0.1	18.41	.....	.....	.....	4,167	0.89	.....	1,121	1.69
Supplemental sources:[6]														
Streams, gravity and/or storage	11,046,432	10.3	18.57	.....	.....	.....	.....	492,418	0.28	.....	.....	.....	.....	.....
Streams, pumped	956,433	0.9	82.43	67,000	0.1	123.62	-41.19	8,755	4.84	527	6.15	-1.31	.....	.....
Wells, pumped	1,947,019	1.8	15.44	55,350	0.1	24.83	-9.39	103,738	3.06	1,160	5.17	-2.11	.....	.....
Wells, flowing	28,337	[3]	4.92	.....	.....	.....	.....	3,587	0.10	.....	.....	.....	.....	.....

[1]Based on irrigated area in enterprises reporting cost of maintenance and operation. [2]Based on area works were capable of supplying with water. [3]Less than one-tenth of 1 percent. [4]Data for 1 enterprise with "Sewage" source of supply are included with enterprises reporting "Waste water, seepage or drainage" source of supply in the 1940 Census. [5]Data for 1 enterprise with "Streams, pumped; wells, pumped" source of supply are included with enterprises reporting "Other mixed" source of supply in the 1940 Census. [6]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	3,220,685	628,015	3,393,619	3,348,385	-5.1
Individual and partnership	907,754	133,143	969,708	1,014,412	-6.4
Cooperative, incorporated	1,795,814	[2] 427,098	1,789,909	1,789,385	8.8
Cooperative, unincorporated	151,956	6,119			
Irrigation district	186,925	.....	230,400	248,409	-18.9
Commercial	66,699	48,581	286,846	212,138	-76.7
Bureau of Reclamation[3] [*]	83,137	13,074	81,883	[4] 71,145	1.5
Office of Indian Affairs[3]	6,875	.....	4,813	4,266	42.8
State	.....	(2)	.....	80	.....
City and/or sewage	21,068	.....	26,700	5,825	-21.1
Other	457	.....	3,360	2,725	-86.4
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	3,913,542	738,232	4,078,712	3,855,348	-4.0
Individual and partnership	1,110,597	166,538	1,194,132	1,194,422	-7.0
Cooperative, incorporated	2,112,655	[2] 459,265	2,065,779	1,993,361	11.7
Cooperative, unincorporated	194,625	7,522			
Irrigation district	233,841	35,000	344,153	269,504	-32.1

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	97,801	53,581	311,873	226,641	-68.6
Bureau of Reclamation[3] [*]	121,746	16,336	116,034	[4] 135,265	4.9
Office of Indian Affairs[3]	7,200	.....	15,681	14,900	-54.1
State	.....	(2)	.....	80	.....
City and/or sewage	34,467	.....	26,700	5,825	29.1
Other	610	.....	4,360	15,350	-86.0
IRRIGABLE AREA[5]					
Total	4,283,250	752,587	4,528,251	5,220,588	-5.4
Individual and partnership	1,170,148	174,383	1,334,545	1,730,635	-12.3
Cooperative, incorporated	2,302,380	[2] 461,765	2,314,837	2,419,267	8.0
Cooperative, unincorporated	198,721	7,522			
Irrigation district	305,486	35,000	383,051	504,973	-20.2
Commercial	103,576	57,581	319,473	358,243	-67.6
Bureau of Reclamation[3] [*]	150,871	16,336	126,154	[4] 150,515	19.6
Office of Indian Affairs[3]	16,966	.....	15,681	16,100	8.2
State	.....	(2)	.....	80	.....
City and/or sewage	34,492	.....	30,150	6,425	14.4
Other	610	.....	4,360	34,350	-86.0

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises." See text, p. 4, for explanation. [2] Data for 1 "State" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] Does not include about 8,500 acres to which water was supplied under the Warren Act. [5] For 1920 relates to total area. Irrigable area for that year was not reported. [*] For explanation of areas, see text, p. 188.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	8,713	944	4,283,250	3,913,542	22.57	0.65	18.32	0.82
Individual and partnership	7,865	194	1,170,148	1,110,597	7.48	0.68	14.89	2.54
Cooperative, incorporated	500	475	2,302,380	2,112,655	22.36	0.53	[4] 17.78	0.23
Cooperative, unincorporated	251	204	198,721	194,625	5.62	0.27	11.51	0.22
Irrigation district	21	21	305,486	233,841	58.59	1.00	8.27	.....
Commercial	53	34	103,576	97,801	44.84	1.28	24.07	0.54
U. S. Bureau of Reclamation[*]	5	5	150,871	121,746	96.22	1.89	74.27	4.45
U. S. Office of Indian Affairs	[5] 1	1	16,966	7,200	98.75	2.09	.....	.....
State	1	1	.....	.....	.....	.....	(4)	.....
City and/or sewage	12	9	34,492	34,467	33.99	1.93	.....	.....
Other	4	.....	610	610	5.74	2.96	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1]: Farms served	Total area ✓	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Acres*	*Acres*	*Acres*	*Acres*
Total	41,228	3,220,685	2,796,075	73,844	350,766
Individual and partnership	8,592	907,754	713,585	18,941	175,228
Cooperative, incorporated	22,936	1,795,814	1,637,376	38,084	120,354
Cooperative, unincorporated	2,153	151,956	115,135	1,917	34,904
Irrigation district	2,564	186,925	172,167	10,485	4,273
Commercial	1,579	66,699	61,786	1,086	3,827
U. S. Bureau of Reclamation[*]	2,240	83,137	74,385	200	8,552
U. S. Office of Indian Affairs	149	6,875	3,744	87	3,044
State	.....	.....	.....	.....	.....
City and/or sewage	1,011	21,068	17,475	3,014	579
Other	4	457	422	30	5

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "State" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprise involved. [*] For explanation of areas and investment, see text, p. 188.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*
Total	106,849,343	92,871,122	13,978,221	101,848,751	5,000,592	87,603,240	88,302,442	22.0
Individual and partnership	11,348,304	8,829,100	2,519,204	10,782,796	565,508	10,815,909	11,599,883	4.9
Cooperative, incorporated	[2] 57,614,846	49,041,375	[2] 8,573,471	[2] 55,405,708	2,209,138	45,651,717	42,911,035	26.8
Cooperative, unincorporated	1,214,947	1,126,874	88,073	1,181,013	33,934			
Irrigation district	15,621,957	15,332,373	289,584	13,989,959	1,631,998	12,657,718	16,269,026	23.4
Commercial	6,228,398	4,933,743	1,294,655	5,674,819	553,579	5,624,989	5,711,887	10.7
U. S. Bureau of Reclamation[*]	12,928,239	11,715,005	1,213,234	12,928,239	.....	11,551,307	10,253,231	11.9
U. S. Office of Indian Affairs	711,032	711,032	.....	711,032	.....	225,025	220,979	216.0
State	(2)	.....	(2)	(2)	.....	.....	3,994	.....
City and/or sewage	1,177,965	1,177,965	.....	1,171,685	6,280	498,575	117,665	136.3
Other	3,655	3,655	.....	3,500	155	578,000	1,214,742	-99.4

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*
Total	23.73	18.93	928,667	2,959,123
Individual and partnership	7.95	15.13	4,046	517,557
Cooperative, incorporated	23.21	[2] 18.67	235,298	869,750
Cooperative, unincorporated	5.79	11.71	9,498	20,880
Irrigation district	65.57	8.27	390,446	225,000
Commercial	50.45	24.16	12,303	10,250
U. S. Bureau of Reclamation[*]	96.22	74.27	220,021	595,536
U. S. Office of Indian Affairs	98.75	.....	46,889	720,000
State	.....	.....	.....	.....
City and/or sewage	34.18	.....	10,166	.....
Other	5.99	.....	.....	150

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "State" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [*] For explanation of investment, see text, p. 188.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	207	2,182,747	1,967,944	22,810,607	13.12	12.88	20	1,699,096	1,837,538	5.61	3,098,782	2,491,161	2,283,876
Partnership	2	(6)	(6)	(6)	(6)	(6)	.....	.....	.....	.....	100,335	30,328	9,997
Cooperative, incorporated	165	1,600,985	1,505,448	8,947,155	7.21	6.73	6	326,700	341,873	15.49	2,312,518	1,760,713	1,685,867
Cooperative, unincorporated	8	[6] 23,608	[6] 23,608	[6] 11,615	[6] 0.42	[6] 0.49	1	2,000	1,925	.....	142,893	52,985	24,360
Irrigation district	14	289,945	218,500	2,358,201	6.97	11.95	7	876,273	891,669	6.61	273,071	251,133	261,773
Commercial	13	87,805	78,870	397,581	5.15	4.83	3	242,296	238,296	6.78	123,649	137,154	85,139
Bureau of Reclamation[7] *	4	163,438	134,318	[8] 11,093,457	104.51	83.06	3	[8] 251,827	[8] 163,775	2.56	107,845	193,598	169,862
Office of Indian Affairs[7]	[9] 1	16,966	7,200	[10] 2,598	0.35	0.36	.....	.....	.....	.....	7,439	2,635	2,680
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31,032	62,615	44,198
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $6.31. [4] Based on primary enterprises only; State average for supplemental enterprises is $5.60. [5] Based on primary enterprises only; State average for supplemental enterprises is $3.73. [6] Data for 2 "Partnership" enterprises are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] Data for less than 3 enterprises shown with permission of the enterprise involved. [10] Represents construction costs of irrigation works less cancellations and repayments. * For explanation of areas and investment, see text, p. 188.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	3,128,787	2,035,680	608,498	498,440	0.65	0.82	700	1,167,624	3,068
Individual and partnership	829,716	562,911	130,063	330,844	0.68	2.54	67	8,232	149
Cooperative, incorporated	1,789,029	948,454	414,035	96,018	0.53	0.23	436	640,945	1,886
Cooperative, unincorporated	144,977	39,147	5,934	1,291	0.27	0.22	136	19,354	370
Irrigation district	186,925	186,553	.....	.....	1.00	.....	18	122,149	119
Commercial	66,607	85,426	48,581	26,281	1.28	0.54	30	67,670	169
U. S. Bureau of Reclamation *	83,137	156,855	9,885	44,006	1.89	4.45	4	241,637	223
U. S. Office of Indian Affairs	6,875	14,351	.....	.....	2.09	.....	[2] 1	32,938	121
State	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	21,064	40,630	.....	.....	1.93	.....	8	34,699	31
Other	457	1,353	.....	.....	2.96	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for less than 3 enterprises shown with permission of the enterprise involved. * For explanation of areas and investment, see text, p. 188.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	4,792	1,015	139,780	19,707	157.0	1,071	2,071,522	245.1	886	54,859	2,878	1,929,798	2,806	19,157	2,918	2,263,375
Individual and partnership	4,107	607	39,574	9,572	94.1	646	62,219	97.8	983	53,959	2,841	1,905,573	2,752	44,804	2,784	2,116,410
Cooperative, incorporated	389	[3] 342	79,866	6,858	24.7	[3] 352	[3] 1,300,028	40.9	....	.....	16	5,455	25	1,508	25	18,529
Cooperative, unincorporated	213	14	5,010	890	4.2	17	7,470	6.9	....	.....	17	14,520	17	355	17	15,620
Irrigation district	17	17	6,620	914	5.8	18	345,047	0.8	....	.....	.....	.....	3	30	3	3,000
Commercial	41	29	3,958	484	6.1	30	243,874	69.1	3	900	1	1,700	1	25	1	1,700
Bureau of Reclamation[4]	10	2	3,620	742	18.9	2	110,814	19.0	....	.....	.....	.....	5	2,375	5	75,566
Office of Indian Affairs[4]	4	.....	350	85	1.5	.....	.....	0.6	....	.....	.....	.....	.....	.....	.....	.....
State	.....	(3)	.....	.....	.....	(3)	(3)	.....	....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	11	1	868	156	1.3	3	1,979	10.0	....	.....	.....	.....	.....	.....	.....	.....
Other	.....	3	14	6	0.1	3	91	.....	....	.....	3	2,550	3	60	3	2,550

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] Data for 1 "State" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [4] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	4,792	1,015	3,672	706	Earth and rock	2,838	951	.....	523
					Other and mixed	[1] 1,112	33	[1] 2,506	136
Concrete or masonry	367	19	273	16	Not reported	48	10	151	31
Timber	427	2	742	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	2,818	100.0	2,263,375	100.0	32
Electric motor	**1,041**	**36.9**	**803,404**	**35.5**	**35**
Centrifugal	443	15.7	322,110	14.2	28
Turbine	580	20.6	478,106	21.2	40
Plunger	9	0.3	203	(1)	129
Other	9	0.3	2,985	0.1	23
Internal-combustion engine	**1,577**	**56.0**	**1,285,954**	**56.8**	**30**
Centrifugal	1,062	37.8	780,185	34.5	23
Turbine	480	17.0	491,365	21.7	47
Plunger	14	0.5	564	(1)	31
Other	21	0.7	13,840	0.6	28
Other kinds of motive power	**94**	**3.3**	**91,879**	**4.1**	**44**
Centrifugal	11	0.4	12,855	0.6	19
Turbine	8	0.3	78,078	3.5	52
Plunger	72	2.5	913	(1)	49
Other	3	0.1	33	(1)	50
Mixed kinds of motive power	**106**	**3.8**	**82,138**	**3.6**	**33**
Centrifugal	48	1.7	36,776	1.6	27
Turbine	50	1.9	44,242	2.0	39
Plunger	7	0.2	120	(1)	30
Other	1	(1)	1,000	(1)	30
Total, 1930	540	.....	437,250	.....	25
Increase or decrease (-) 1930-1940	2,278	.....	1,826,125	.....	7

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	2,806	100.0	49,157	100.0
Centrifugal pump	**1,475**	**52.6**	**22,329**	**45.4**
Electric	421	15.0	5,329	10.8
Internal-combustion	1,040	37.1	16,774	34.1
Other	14	0.5	226	0.5
Turbine pump	**1,039**	**37.0**	**23,946**	**48.7**
Electric	557	19.8	7,733	15.7
Internal-combustion	474	16.9	13,743	28.0
Other	[2] 8	0.3	2,470	5.0
Plunger pump	**99**	**3.5**	**189**	**0.4**
Electric	10	0.4	30	0.1
Internal-combustion	14	0.5	57	0.1
Other	75	2.6	102	0.2
Other and mixed types of pumps	**193**	**6.9**	**2,693**	**5.5**
Electric	100	3.6	1,104	2.2
Internal-combustion	84	3.0	1,575	3.3
Other	9	0.3	14	(1)
Total, 1930	[2] 516	.....	11,204	.....
Increase or decrease (-) 1930-1940	2,290	.....	37,953	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940 [1]	1930 [2]	
	Miles	*Miles*	*Percent*
Total	245.1	131.9	85.8
Concrete:			
1 to 12 inches	57.6	55.7	3.4
13 to 24 inches	7.4	12.3	136.6
Over 24 inches	21.7		
Metal:			
1 to 12 inches	51.9	21.0	147.1
13 to 24 inches	14.4	15.3	171.9
Over 24 inches	27.2		
Wood-stave:			
1 to 12 inches	9.1	5.4	68.5
13 to 24 inches	2.2	12.1	20.7
Over 24 inches	12.4		
Clay and other:			
1 to 12 inches	14.6	8.9	64.0
13 to 24 inches	17.5	1.2	(3)
Over 24 inches	9.1		

[1] Includes siphons and farm pipe lines reported when more than 1,000.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

[3] Percent not shown

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 83,137 acres within the Grand Valley and Uncompahgre Projects which were irrigated with a primary supply of water in 1939. This acreage is not reported under any other classification. Classified as receiving supplemental water from the Bureau of Reclamation is 21,474 acres which is shown under other classifications as receiving a primary supply. Included in this latter area are acreages under the Orchard Mesa Irrigation District of the Grand Valley Project and the Fruitgrowers Dam, which are served under special contracts. (See text for explanation of supplemental enterprises.)

The investment attributed to the Bureau of Reclamation in State table 7 includes the construction costs incurred by the United States in providing both primary and supplemental supplies. Drainage costs and the non-Federal funds advanced for the construction of a power plant on the Grand Valley Project are not included.

Data relating to Bureau of Reclamation irrigation in Colorado do not include figures on the Colorado-Big Thompson Project under construction in the northern part of the State, the San Luis Valley and the Pine River Projects under construction in southern Colorado, or the Paonia Project authorized for construction in western Colorado. These projects when completed will provide supplemental water for 1,054,074 acres. The Pine River Project will also bring 36,400 acres of new land under irrigation.

Data relating to the Mancos Project being constructed on the West Mancos River under the Water Conservation and Utilization Program are not included in the 1940 Census of Irrigation.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	238	301	420	Ratio of area drained to area irrigated in—			
Area irrigable in these enterprises.....acres...	687,246	1,018,260	[1] 1,526,311	(a) Enterprises reporting lands drained and/or needing drainage..percent..	25.6	[3] 21.2	[1] 7.5
Area irrigated in these enterprises.....acres...	466,804	([2])	([2])	(b) All irrigation enterprises.....percent..	3.7	6.4	3.4
Area for which drains have been installed..acres...	119,286	215,600	113,869	Ratio of area drained plus area needing drainage to—			
Additional area needing drainage.....acres...	35,792	148,693	220,711	(a) Irrigable area reporting.....percent..	22.6	35.8	[1] 21.9
				(b) Irrigated area reporting.....percent..	33.2	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	5,508,935	5,863,140	13,877,292	4,618,024	3,786,028	4,848,103	890,911	2,077,112	9,029,189
Area irrigated by these enterprises.....acres.....	2,237,327	2,103,937	2,446,702	1,929,547	1,562,291	1,752,587	307,780	541,646	694,115
Average water per acre irrigated.....acre-feet..	2.5	2.8	5.7	2.4	2.4	2.8	2.9	3.8	13.0
Total water delivered to irrigators.....acre-feet..	7,083,593	1,840,805	3,233,531	3,113,469	1,699,100	1,832,530	3,970,124	141,705	1,401,001
Area irrigated by these enterprises.....acres.....	2,961,117	1,001,425	1,504,593	2,006,987	933,468	1,089,659	954,130	67,957	414,934
Average water per acre irrigated.....acre-feet..	2.4	1.8	2.1	1.6	1.8	1.7	4.2	2.1	3.4
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	174,598	.....	.....	584	.....	.....	174,014	.....	.....
Area irrigated by these enterprises.....acres.....	78,237	.....	.....	449	.....	.....	77,788	.....	.....
Average water per acre irrigated.....acre-feet..	2.2	.....	.....	1.3	.....	.....	2.2	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	275,502	.....	.....	186,958	.....	.....	88,544	.....	.....
Area irrigated by these enterprises.....acres.....	352,958	.....	.....	252,600	.....	.....	100,358	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	0.7	.....	.....	0.9	.....	.....
Total water delivered to irrigators.....acre-feet..	302,118	.....	.....	167,841	.....	.....	134,277	.....	.....
Area irrigated by these enterprises.....acres.....	480,955	.....	.....	248,407	.....	.....	232,548	.....	.....
Average water per acre irrigated.....acre-feet..	0.6	.....	.....	0.7	.....	.....	0.6	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	198,149	.....	.....	.....	.....	.....	198,149	.....	.....
Area irrigated by these enterprises.....acres.....	107,345	.....	.....	.....	.....	.....	107,345	.....	.....
Average water per acre irrigated.....acre-feet..	1.8	.....	.....	.....	.....	.....	1.8	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	3,220,685	100.0	628,015	3,393,619	100.0	3,348,385	100.0
Appropriation[2].....	1,309,467	40.7	227,402	352,171	10.4	323,878	9.7
Underground.....	63,432	2.0	104,992	15,597	0.5	14,558	0.4
Appropriation and underground.....	7,756	0.2	697	.....	.....	.....	.....
Adjudicated by court.....	1,797,841	55.8	293,470	3,003,119	88.4	2,918,383	87.2
Other mixed and not reported.....	42,189	1.3	1,454	22,732	0.7	91,566	2.7

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use" and "Notice filed and posted."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 farms and more
1	Enterprises, 1940.....number...	7,084	252	5,000	985	609	165	73
2	Irrigated farms, 1939.....number...	41,228	.....	5,000	2,419	5,971	7,869	19,969
3	Area irrigated, 1939.....acres....	3,220,685	.....	595,627	233,858	522,860	664,814	1,203,526
4	(a) From which crops were harvested.....acres....	2,796,075	.....	454,566	188,103	425,241	597,135	1,131,030
5	(b) On which crops failed.....acres....	73,844	.....	13,485	4,074	15,255	17,396	23,634
6	(c) Irrigated pasture.....acres....	350,766	.....	127,576	41,681	82,364	50,283	48,862
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	92,871,122	3,597,667	6,347,413	2,308,061	8,420,524	12,156,666	60,040,791
8	(a) Cost of irrigation works and equipment.....dollars..	88,326,799	2,316,917	5,988,422	2,172,738	8,006,416	11,778,633	58,063,673
9	(b) Investment in water rights.....dollars..	4,544,323	1,280,750	358,991	135,323	414,108	378,033	1,977,118
10	Area works were capable of supplying with water.....acres....	3,913,542	45,148	709,510	287,136	652,752	756,235	1,462,761
11	Average investment per acre irrigated.....dollars..	28.84	.....	10.66	9.87	16.10	18.29	49.89
12	Average investment per acre which the works could supply with water....dollars..	23.73	79.69	8.95	8.04	12.90	16.08	41.05
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	6,345	167	4,452	913	578	162	73
14	(a) Area irrigated in these enterprises.....acres....	3,128,787	.....	536,502	221,905	503,800	663,054	1,203,526
15	(b) Cost of maintenance and operation.....dollars..	2,035,680	33,192	433,554	115,831	199,316	281,627	972,160
16	(c) Average cost per irrigated acre reporting.....dollars..	0.65	.....	0.81	0.52	0.40	0.42	0.81
17	Total annual charges[2].....dollars..	2,278,099	8,771	60	1,043	265,606	517,216	1,485,403
18	Average charge per irrigated acre reporting.....dollars..	0.96	.....	0.09	0.45	0.53	0.78	1.23
19	Area against which charges were assessed.....acres....	2,637,673	13,700	670	2,310	539,816	802,866	1,278,311
20	Average annual charge per acre assessed.....dollars..	0.86	0.64	0.09	0.45	0.49	0.64	1.16
21	Total charges collected[2].....dollars..	2,077,506	8,215	68,734	752	153,539	341,256	1,504,980
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3].....number...	182	6	.....	.....	57	68	51
23	(a) Area irrigated in these enterprises.....acres....	1,341,131	.....	.....	.....	85,574	260,859	994,698
24	(b) Indebtedness.....dollars..	20,851,011	765,759	.....	.....	1,214,921	1,508,357	17,361,974
25	(c) Average indebtedness per acre irrigated.....dollars..	15.55	.....	.....	.....	14.20	5.78	17.45
26	(d) Cost of irrigation works and equipment.....dollars..	64,074,943	1,204,410	.....	.....	3,168,868	6,641,165	53,060,500
27	(e) Investment in water rights.....dollars..	3,128,628	1,251,098	.....	.....	152,637	294,758	1,430,135
28	(f) Total investment.....dollars..	67,203,571	2,455,508	.....	.....	3,321,505	6,935,923	54,490,635
29	(g) Maintenance and operation.....dollars..	1,104,716	22,321	.....	.....	66,640	171,163	844,592
30	(h) Total annual charges[2].....dollars..	1,691,808	2,587	.....	.....	76,439	328,684	1,284,098
31	(i) Total charges collected[2].....dollars..	1,719,926	70,660	.....	.....	66,720	226,562	1,355,984
32	(j) Area against which annual charges were assessed.....acres....	1,533,252	5,320	.....	.....	92,270	322,462	1,113,200
33	(k) Average indebtedness per acre assessed.....dollars..	13.12	6.50	.....	.....	13.17	4.67	15.60
34	(l) Average charges per acre assessed.....dollars..	1.10	0.49	.....	.....	0.83	1.02	1.15
35	(m) Average charges per acre irrigated.....dollars..	1.26	.....	.....	.....	0.89	1.26	1.29
36	Enterprises reporting arrearage[3].....number...	17	2	.....	.....	5	5	5
37	(a) Area assessed in these enterprises.....acres....	258,899	.....	.....	.....	4,367	81,770	172,762
38	(b) Total arrearage.....dollars..	1,636,240	(4)	.....	.....	370,021	665,224	420,267
39	(c) Average arrearage per acre assessed.....dollars..	5.61	.....	.....	.....	84.73	8.11	2.43
40	(d) Indebtedness.....dollars..	13,012,967	(4)	.....	.....	989,280	733,116	10,639,369
	TYPE, 1940							
41	Individual and partnership.....number...	6,308	231	4,958	937	180	2	.....
42	Cooperative (incorporated and unincorporated).....number...	693	15	26	40	412	145	55
43	Irrigation district.....number...	20	4	.....	.....	4	3	9
44	Commercial.....number...	44	2	10	7	9	13	3
45	U. S. Bureau of Reclamation.....number...	[5]2	.....	.....	.....	.....	.....	2
46	U. S. Office of Indian Affairs.....number...	[5]1	.....	.....	.....	.....	.....	1
47	All other.....number...	16	.....	6	1	4	2	3
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
48	Enterprises reporting pay roll.....number...	645	3	3	4	407	160	68
49	Wages and salaries paid and payable for 1939.....dollars..	1,061,194	4,030	10,976	141	110,253	178,721	757,073
50	Persons employed during week ending April 29, 1939.....number...	2,922	2	29	9	1,009	644	1,229
	SOURCE OF WATER SUPPLY, 1939							
51	Streams, gravity.....number...	5,185	169	3,349	846	593	160	68
52	Streams, pumped.....number...	68	7	57	1	2	1	.....
53	Wells, pumped.....number...	911	33	820	58	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	128	1	126	1	.....	.....	.....
55	Lakes, gravity or pumped.....number...	28	2	20	4	2	.....	.....
56	Streams and springs; or springs.....number...	354	15	309	24	4	2	.....
57	Mixed, streams and wells.....number...	89	10	65	7	3	.....	4
58	Other mixed or stored storm water.....number...	321	15	254	44	5	2	1

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 farms and more
1	Enterprises, 1940.....number...	1,629	91	1,313	160	28	25	12
2	Irrigated farms, 1939.....number...	6,015	.....	1,313	377	304	1,332	2,689
3	Area irrigated, 1939.....acres....	628,015	.....	105,201	27,091	34,765	120,073	340,885
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..	13,978,221	582,844	1,972,725	442,632	996,595	2,110,670	7,872,755
5	(a) Cost of irrigation works and equipment.....dollars..	13,521,952	581,894	1,941,606	434,983	975,891	2,097,370	7,490,208
6	(b) Investment in water rights.....dollars..	456,269	950	31,119	7,649	20,704	13,300	382,547
7	Area works were capable of supplying with water.....acres....	738,232	42,025	123,346	31,352	45,433	127,764	368,312
8	Average investment per acre irrigated.....dollars..	22.26	.....	18.75	16.34	28.67	17.58	23.10
9	Average investment per acre which the works could supply with water....dollars..	18.93	13.87	15.99	14.12	21.94	16.52	21.38
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
10	Enterprises reporting maintenance and operation.....number...	1,504	47	1,239	157	26	24	11
11	(a) Area irrigated in these enterprises.....acres....	608,498	.....	102,259	26,768	32,667	116,884	329,920
12	(b) Cost of maintenance and operation.....dollars..	498,440	814	280,161	49,818	8,565	44,813	114,269
13	(c) Average cost per irrigated acre reporting.....dollars..	0.82	.....	2.74	1.86	0.26	0.38	0.35
14	Total annual charges[2].....dollars..	213,062	.....	.....	.....	13,085	63,598	136,379
15	Average charge per irrigated acre reporting.....dollars..	0.46	.....	.....	.....	0.42	0.66	0.41
16	Area against which charges were assessed.....acres....	461,109	.....	.....	.....	32,467	96,567	332,075
17	Average annual charge per acre assessed.....dollars..	0.46	.....	.....	.....	0.40	0.66	0.41
18	Total charges collected[2].....dollars..	206,370	11,087	.....	.....	12,710	37,708	144,865

[1]Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2]Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
252	3,996	1,568	995	210	63	6,264	484	239	84	13	1
.....	4,853	3,166	8,720	8,658	15,831	10,569	3,735	7,807	12,921	6,196	2
.....	145,769	258,114	683,415	726,815	1,406,572	838,007	405,594	557,218	828,288	591,578	3
.....	122,251	215,570	552,846	599,953	1,305,455	674,156	323,190	475,622	762,996	560,111	4
.....	5,274	7,303	15,551	18,850	26,866	18,840	10,764	15,167	20,798	8,275	5
.....	18,244	35,241	115,018	108,012	74,251	145,011	71,840	66,429	44,494	23,192	6
3,597,667	2,968,134	3,293,000	10,174,105	13,187,806	59,650,410	5,904,319	3,819,033	8,556,545	31,333,703	43,257,522	7
2,316,917	2,770,406	3,087,219	9,800,960	12,024,964	58,326,313	5,464,353	3,593,653	8,296,884	27,917,979	43,053,930	8
1,280,750	197,728	205,781	373,145	1,162,822	1,324,097	439,966	225,380	259,661	3,415,724	203,592	9
45,148	222,347	326,082	815,416	820,280	1,684,259	1,047,039	465,155	673,940	968,416	758,992	10
.....	20.36	12.76	14.89	18.14	42.41	7.05	9.42	15.36	37.83	73.12	11
79.69	13.35	10.10	12.48	16.08	35.42	5.64	8.21	12.70	32.36	56.99	12
167	3,513	1,459	938	205	63	5,548	469	231	84	13	13
.....	131,210	240,230	646,320	704,455	1,406,572	754,325	401,472	553,124	828,288	591,578	14
33,192	216,346	202,656	313,388	383,579	886,519	467,520	185,244	317,169	578,413	487,334	15
.....	1.65	0.84	0.48	0.54	0.63	0.62	0.46	0.57	0.70	0.82	16
8,771	2,057	18,178	261,776	500,865	1,486,452	66,334	152,568	388,106	840,444	830,647	17
.....	1.36	0.74	0.74	0.83	1.08	0.34	0.62	0.77	1.02	1.40	18
13,700	2,529	28,223	390,974	626,586	1,575,661	206,830	268,859	560,694	934,662	666,628	19
0.64	0.81	0.64	0.67	0.80	0.94	0.32	0.57	0.69	0.90	1.25	20
8,215	70,004	12,275	185,594	379,867	1,421,551	34,487	75,735	310,595	787,814	868,875	21
6	.....	4	59	68	45	11	28	72	59	12	22
.....	.....	660	57,859	278,836	1,003,776	13,234	42,111	242,363	576,974	466,449	23
765,759	.....	37,850	1,197,432	1,257,175	17,592,795	5,271	49,370	754,700	5,069,522	14,972,148	24
.....	.....	57.35	20.70	4.51	17.53	0.40	1.17	3.11	8.79	32.10	25
1,204,410	.....	166,000	3,019,503	7,501,748	52,183,282	26,935	256,441	3,140,596	19,810,606	40,840,165	26
1,251,098	.....	43,000	131,270	646,163	1,057,097	7,100	5,833	119,512	2,792,591	203,592	27
2,455,508	.....	209,000	3,150,773	8,147,911	53,240,379	34,035	262,274	3,260,108	22,603,397	41,043,757	28
22,321	.....	2,215	65,356	241,446	773,378	3,827	27,198	160,751	443,184	469,756	29
2,587	.....	653	87,844	316,623	1,284,101	5,756	40,977	219,930	611,915	813,230	30
70,660	.....	2,600	76,476	283,127	1,287,063	4,732	27,682	196,696	638,427	852,389	31
5,320	.....	526	67,223	290,720	1,169,463	14,696	50,430	275,636	650,991	541,499	32
6.50	.....	68.16	16.82	4.26	15.04	0.36	0.98	2.08	6.94	27.65	33
0.49	.....	1.24	1.31	1.09	1.10	0.39	0.81	0.80	0.94	1.50	34
.....	.....	1.42	1.44	1.14	1.28	0.43	0.97	0.91	1.06	1.74	35
2	.....	1	5	1	8	.....	1	4	8	4	36
.....	.....	.....	4,367	(4)	248,742	.....	13,943		87,694	157,262	37
(4)	.....	(4)	370,021	(4)	1,083,191	.....	100,921		1,116,052	419,267	38
.....	.....	.....	84.73	(4)	4.35	.....	0.07		11.78	2.67	39
(4)	.....	(4)	989,280	(4)	11,370,185	.....	105,380		2,491,218	10,416,369	40
231	3,927	1,475	627	46	2	5,949	311	48	.....	.....	41
15	49	88	343	150	48	286	160	180	59	8	42
4	.....	.....	5	2	9	3	2	2	11	2	43
2	16	1	13	11	1	18	9	5	11	1	44
.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2	45
.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	46
.....	4	4	7	.....	1	8	2	4	2	.....	47
3	15	74	334	159	60	225	155	173	79	13	48
4,030	11,819	9,932	125,064	228,867	681,482	28,443	50,394	169,581	377,801	434,975	49
2	30	144	1,042	770	934	517	487	536	761	621	50
169	2,531	1,300	930	194	61	4,450	422	221	80	12	51
7	53	7	1	.....	.....	62	3	3	.....	.....	52
33	699	161	18	.....	.....	878	32	1	.....	.....	53
1	113	7	7	.....	.....	126	2	.....	.....	.....	54
2	16	6	4	.....	.....	23	3	1	1	.....	55
15	296	29	11	3	.....	344	4	6	.....	.....	56
10	36	21	10	10	2	76	7	3	2	1	57
15	252	37	14	3	.....	806	11	4	1	.....	58

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
91	985	450	64	22	17	1,513	64	30	22	1
.....	1,083	570	503	797	3,062	2,172	232	875	2,736	2
.....	40,591	71,901	35,564	77,074	402,885	152,226	26,067	75,121	374,601	3
582,844	997,929	1,128,325	1,125,608	1,685,730	8,457,785	1,891,160	467,666	1,303,610	10,315,785	4
581,894	978,855	1,113,368	1,107,077	1,666,520	8,074,238	1,861,277	461,380	1,271,107	9,928,188	5
950	19,074	14,957	18,531	19,210	383,547	29,883	6,286	32,503	387,597	6
42,025	53,390	80,812	44,744	82,949	434,312	180,859	32,714	85,063	439,596	7
.....	24.58	15.69	31.65	21.87	20.99	12.42	17.94	17.35	27.54	8
13.87	18.69	13.96	25.16	20.32	19.47	10.46	14.30	15.33	23.47	9
47	914	443	64	20	16	1,393	63	28	20	10
.....	38,383	70,746	35,564	71,885	391,920	149,048	26,067	72,936	360,447	11
814	142,062	163,711	32,703	30,353	128,797	294,884	35,860	32,463	135,233	12
.....	3.61	2.31	0.92	0.42	0.33	1.98	1.38	0.45	0.38	13
.....	619	300	12,573	52,362	147,208	7,629	3,633	33,293	168,507	14
.....	3.75	0.86	0.79	0.79	0.39	0.77	0.28	0.64	0.43	15
.....	165	350	16,449	67,070	377,075	9,921	14,875	63,801	372,512	16
.....	3.75	0.86	0.76	0.78	0.39	0.77	0.24	0.52	0.45	17
11,087	400	262	11,889	27,152	155,580	1,150	3,844	31,448	169,928	18

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[5] Data for less than 3 enterprises shown with permission of the enterprises involved.

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STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 farms and more
	INDEBTEDNESS AND ARREARAGE, 1939							
19	Enterprises reporting indebtedness[2]....number...	25	[3]1	.....	.....	8	9	7
20	(a) Area irrigated in these enterprises....acres....	282,182	.....	.....	.....	8,692	58,923	214,567
21	(b) Indebtedness....dollars..	1,959,596	166,000	.....	.....	60,812	388,419	1,344,365
22	(c) Average indebtedness per acre irrigated....dollars..	6.94	.....	.....	.....	7.00	6.59	6.27
23	(d) Cost of irrigation works and equipment....dollars..	6,017,004	289,334	.....	.....	269,670	1,150,006	4,307,994
24	(e) Investment in water rights....dollars..	270,650	250	.....	.....	1,400	1,000	268,000
25	(f) Total investment....dollars..	6,287,654	289,584	.....	.....	271,070	1,151,006	4,575,994
26	(g) Maintenance and operation....dollars..	124,688	1	.....	.....	2,594	27,768	94,325
27	(h) Total annual charges[5]....dollars..	156,223	.....	.....	.....	6,028	37,079	113,116
28	(i) Total charges collected[5]....dollars..	168,322	9,985	.....	.....	8,468	28,148	121,721
29	(j) Area against which annual charges were assessed....acres....	282,972	.....	.....	.....	8,292	58,923	215,757
30	(k) Average indebtedness per acre assessed....dollars..	6.31	.....	.....	.....	6.42	6.59	6.23
31	(l) Average charges per acre assessed....dollars..	0.55	.....	.....	.....	0.73	0.63	0.52
32	(m) Average charges per acre irrigated....dollars..	0.56	.....	.....	.....	0.83	0.63	0.53
33	Enterprises reporting arrearage[2]....number...	3	.....	.....	.....	1	1	1
34	(a) Area assessed in these enterprises....acres....	16,855	.....	.....	.....	(4)	(4)	.....
35	(b) Total arrearage....dollars..	62,856	.....	.....	.....	(4)	(4)	(4)
36	(c) Average arrearage per acre assessed....dollars..	3.73	.....	.....	.....	(4)	(4)	.....
37	(d) Indebtedness....dollars..	941,384	.....	.....	.....	(4)	(4)	(4)
	TYPE, 1940							
38	Individual and partnership....number...	1,557	84	1,313	155	5	.....	.....
39	Cooperative (incorporated and unincorporated)....number...	58	5	.....	5	18	19	11
40	Irrigation district....number...	[3]1	1	.....	.....	.....	.....	.....
41	Commercial....number...	9	1	.....	.....	4	4	.....
42	U. S. Bureau of Reclamation....number...	3	.....	.....	.....	.....	2	1
43	All other....number...	1	.....	.....	.....	1	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
44	Enterprises reporting pay roll....number...	55	4	.....	.....	20	21	10
45	Wages and salaries paid and payable for 1939....dollars..	106,430	22,330	.....	.....	3,609	21,791	58,700
46	Persons employed during week ending April 29, 1939....number...	146	4	.....	.....	28	59	55
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
47	Streams, pumped....number...	23	2	20	.....	.....	.....	1
48	Wells, pumped or flowing....number...	1,335	65	1,170	98	2	.....	.....
49	Streams, gravity or storage....number...	271	24	123	62	26	25	11

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[3] Data for less than 3 enterprises shown with permission of the enterprise involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND WEATHER STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
North Platte River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Walden	Jackson	8,100	7.09	(2)	1.52	(2)	1.78	(2)	1.81	(2)	1.98	(2)	(2)	(2)
South Platte River														
Longs Peak	Larimer	8,956	16.46	-5.33	3.51	+0.06	3.97	-0.03	4.79	-2.03	4.19	-3.33	38.4	+1.1
Kassler	Jefferson	5,492	15.35	-1.94	4.51	+1.45	4.56	+2.04	4.12	-2.44	2.16	-2.99	53.0	+2.4
Denver	Denver	5,221	8.43	-5.62	2.01	-0.32	3.03	+1.06	2.40	-3.25	0.99	-3.11	52.9	+2.9
Fort Collins	Larimer	4,985	9.20	-6.09	2.02	-0.31	2.61	+0.59	3.41	-3.12	1.16	-3.25	49.7	+3.3
Fort Morgan	Morgan	4,319	5.14	-8.72	0.53	-1.08	1.91	+0.77	1.93	-3.99	0.77	-4.42	50.4	+3.0
Julesburg	Sedgwick	3,583	13.90	-4.24	0.64	-1.51	2.38	+0.83	8.21	+0.59	2.67	-4.15	50.8	+2.3
Averages*	.....	.....	11.41	-5.32	2.20	-0.28	3.08	+0.88	4.14	-2.37	1.99	-3.54	49.2	+2.5
Republican River														
Wray	Yuma	3,512	13.02	-5.36	0.28	-1.87	3.18	+1.59	5.81	-2.20	3.75	-2.87	50.9	+0.2
Cheyenne Wells	Cheyenne	4,279	12.38	-6.93	0.21	-1.82	2.86	-1.29	6.28	-0.49	3.03	-3.33	53.3	+3.3
Averages*	.....	.....	12.70	-6.14	0.24	-1.84	3.02	+0.15	6.04	-1.34	3.39	-3.10	52.1	+1.8
Arkansas River														
Leadville	Lake	10,152	16.69	-1.94	4.92	+1.65	5.15	+0.85	2.78	-1.46	3.84	-2.98	37.4	+2.1
Salida	Chaffee	7,035	8.08	-4.25	3.37	+0.92	2.11	+0.13	0.79	-2.29	1.81	-3.01	(2)	(2)
Canon City	Fremont	5,343	6.79	-6.19	1.42	-0.63	2.00	+0.27	2.00	-2.22	1.37	-3.61	53.8	+0.9
Trinidad	Las Animas	6,300	14.36	-2.94	3.02	+0.11	3.05	+0.53	3.21	-2.65	5.08	-0.93	51.8	+0.4
Rocky Ford	Otero	4,177	8.83	-3.30	0.92	-0.78	3.22	+2.25	2.70	-2.39	1.99	-2.38	53.5	+1.3
Springfield	Baca	4,375	12.98	-5.57	2.39	-0.44	3.53	+1.20	4.39	-2.96	2.67	-3.37	(2)	(2)
Holly	Prowers	3,386	9.53	-5.84	0.94	-0.95	3.51	+2.11	4.22	-1.74	0.86	-5.26	54.8	+1.2
Averages*	.....	.....	11.04	-4.29	2.43	-0.02	3.22	+1.05	2.87	-2.24	2.52	-3.08	50.3	+1.2
Rio Grande														
Saguache	Saguache	7,745	6.20	-2.94	2.37	+0.99	1.39	+0.40	0.55	-1.80	1.89	-2.53	41.9	-2.0
Garnett	Alamosa	7,576	6.47	-0.46	1.89	+0.82	1.31	+0.60	1.18	-0.71	2.09	-1.17	(2)	(2)
Manassa	Conejos	7,700	3.49	-3.09	1.41	+0.23	1.01	+0.28	0.14	-1.53	0.93	-2.07	41.7	0.0
Averages*	.....	.....	5.39	-2.16	1.89	+0.68	1.24	+0.43	0.62	-1.35	1.64	-1.92	41.8	-1.0
Colorado River (direct)														
Fraser	Grand	8,560	13.12	-6.95	3.21	-0.73	4.87	-0.18	2.59	-2.74	2.45	-3.30	31.9	-0.1
Gunnison	Gunnison	7,670	9.66	-0.46	2.86	+1.00	2.39	+0.32	1.13	-1.07	3.28	-0.71	39.6	+2.8
Trout Lake	San Miguel	9,800	22.73	-5.07	5.38	+0.04	6.71	-1.11	2.57	-3.05	8.07	-0.95	(2)	(2)
Montrose	Montrose	5,811	7.71	-1.91	2.34	+0.14	1.73	-0.08	0.34	-2.03	3.30	+0.06	[3]49.5	+1.3
Glenwood Springs	Garfield	5,823	19.51	+4.50	3.98	+0.70	7.21	+3.31	3.42	+0.05	4.90	+0.44	48.5	+2.9
Grand Junction	Mesa	4,587	8.20	-0.63	1.49	-0.66	2.82	+0.88	0.50	-1.54	3.39	+0.69	53.7	+1.7
Averages*	.....	.....	13.49	-1.75	3.21	+0.08	4.29	+0.52	1.76	-1.73	4.23	-0.63	44.6	+1.7
Green River														
Steamboat Springs	Routt	6,750	22.18	-0.94	6.17	+0.75	8.05	+1.08	3.93	-1.45	4.03	-1.32	40.0	+2.2
Sunbeam (near)	Moffat	5,472	9.38	-1.05	3.20	+0.59	1.80	+0.03	1.72	-0.95	2.66	-0.72	[3]43.7	(2)
Meeker (near)	Rio Blanco	6,500	[3]16.75	(2)	[3]4.66	(2)	[3]4.68	(2)	[3]2.82	(2)	[3]4.59	(2)	[3]44.0	(2)
Averages*	.....	.....	15.78	-1.00	4.68	+0.67	4.92	+0.56	2.82	-1.20	3.34	-1.02	40.0	+2.2
San Juan River														
Silverton	San Juan	9,415	20.37	-4.65	5.65	+0.35	5.09	-1.24	2.37	-2.19	7.26	-1.57	35.1	+0.3
Durango	La Plata	6,554	12.96	-6.86	2.14	-2.74	4.57	-0.55	0.95	-2.62	5.30	-0.95	45.2	-1.0
Cortez	Montezuma	6,177	10.43	-3.19	2.66	-0.42	3.32	-0.26	0.65	-1.45	3.80	-1.06	48.4	+1.0
Averages*	.....	.....	14.59	-4.90	3.48	-0.94	4.33	-0.68	1.32	-2.09	5.45	-1.19	42.9	+0.1

[1] Departure from normal. [2] Data not available. [3] Not used in averages. *Average for drainage basin.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
[3] 1	.....	2	6	7	9	1	5	7	12	19
.....	.....	(4)	4,237	26,078	251,567	4,437		27,578	250,167	20
166,000	.....	(4)	7,362	391,469	1,382,615	2,912		74,200	1,882,484	21
.....	.....	(4)	1.74	15.01	5.54	0.66		2.69	7.52	22
289,334	.....	(4)	128,360	831,886	4,757,014	50,670		335,000	5,631,334	23
250	.....	.....	100	1,300	269,000	100		500	270,050	24
289,584	.....	(4)	128,460	833,286	5,026,014	50,770		335,500	5,901,384	25
1	.....	(4)	1,917	20,075	102,544	943		10,422	113,323	26
.....	.....	(4)	3,460	31,268	121,445	443		21,213	134,567	27
9,985	.....	(4)	6,617	21,547	129,936	1,958		21,255	145,109	28
.....	.....	(4)	3,037	27,078	252,757	3,437		27,668	251,867	29
.....	.....	(4)	0.58	14.46	5.51	0.09		2.50	6.82	30
.....	.....	(4)	1.14	1.15	0.48	0.13		0.77	0.53	31
.....	.....	(4)	1.14	1.20	0.48	0.13		0.78	0.54	32
.....	.....	.....	.....	2	1	.....		1	2	33
.....	.....	.....	.....	(4)	.....	.....		(4)	(4)	34
.....	.....	.....	.....	(4)	(4)	.....		(4)	(4)	35
.....	.....	.....	.....	(4)	.....	.....		(4)	(4)	36
.....	.....	.....	.....	(4)	(4)	.....		(4)	(4)	37
84	983	445	44	1	.....	1,500	49	7	1	38
5	2	4	19	14	14	12	13	19	14	39
1	.....	.....	.....	.....	.....	.....	.....	.....	1	40
1	.....	1	1	4	2	1	2	3	3	41
.....	.....	.....	.....	2	1	.....	.....	.....	3	42
.....	.....	.....	.....	1	.....	.....	.....	1	.....	43
4	.....	3	19	15	14	2	12	23	18	44
22,330	.....	110	4,163	16,547	63,280	1,460		19,099	85,871	45
4	.....	2	50	27	63	35		38	73	46
2	16	4	.....	.....	1	22	.....	.....	1	47
65	851	391	27	1	.....	1,293	40	2	.....	48
24	118	55	37	21	16	198	24	28	21	49

[4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

In 1939, a deficiency in precipitation was pronounced and State-wide, the year averaging the driest in the more than half a century of Colorado climatic history. In the calendar year precipitation averaged from 5 inches to more than 8 inches below normal in the South Platte Valley, the Culebra Mountains, and extreme southern counties east of the Continental Divide, at the upper reaches of the Arkansas and Gunnison Rivers, and in the San Juan Mountains. There was an abundance of precipitation the first month, which averaged the eighth wettest January of record. February also had slightly more precipitation than normal; however, a deficiency continued the rest of the year and the growing season, April to September, averaged the driest of record.

All areas had a good snow cover up to the early part of March, but the snow disappeared rapidly from the eastern plains upon arrival of warm weather. The supply of moisture in the surface soil was adequate and in most districts there was an unusual amount of reserve moisture in the subsoil the first 4 months, but by the close of May, most crops began to show the effects of drought and drying winds. Summer precipitation was inadequate in the agricultural districts, where many canals went dry, and pumped water was substituted for gravity water wherever it was available. The continued droughty conditions became acute in most of the eastern section. Stream flow was the lowest in many years and some wells showed signs of failure, indicating soil moisture depletion to a great depth. The consumption of irrigation water during July was unusually great.

For the State as a whole, all months except February were warmer than normal. An excess in average temperature was State-wide, only 6 scattered stations reporting cooler weather than normal for the year. After March every month was warmer than normal, with the maxima occurring at most stations from July 10 to 20. During this period the temperature equaled the highest of record at many stations. Likewise, the growing season averaged the third warmest of record.

Both precipitation and temperature conditions of 1939 contrasted sharply with those of 1929, when Weather Bureau stations representing about two-thirds of the State reported precipitation above normal for the calendar year, with August and September the third wettest of the corresponding months then of record. The total mean annual precipitation was about 1 inch in excess of normal. Mean annual temperature for 1929 was 1.3° below normal, although June, July, and August were warmer than normal.

On the eastern slope and in San Luis Valley the 1929 water supply was subnormal, especially during the early part of the growing season. This condition was due either to deficient snowfall in the mountains or to low temperatures during the spring months. Carry-over storage from 1928, together with copious rainfall beginning in July, furnished abundant water for the later part of the growing season. On the western slope the water supply was generally above normal.

Run-off from Colorado watersheds during the water year 1939 averaged about 72 percent of the normal. Proportions of the normal recorded for principal watersheds, including those of main streams and important tributaries, as indicated by discharges measured by the United States Geological Survey at appropriate stations, were approximately as follows: South Platte, 75 percent; Arkansas, 78 percent; Rio Grande, 68 percent; Colorado, 71 percent. Similar records for 1929 indicated run-off generally in excess of normal in that year.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER			
			Total	Platte River		
				Total	North Platte River	
					Total	
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	11,228	15,240	15,176	319	
2	Area irrigated....1939...acres....	3,220,685	1,274,309	1,271,419	158,377	
3	(a) Cropland harvested....1939...acres....	2,796,075	1,164,707	1,161,891	114,848	
4	(b) Crop failure....1939...acres....	73,844	34,632	34,517	.....	
5	(c) Pasture....1939...acres....	350,766	75,270	75,011	43,529	
6	Area irrigated....1929...acres....	3,393,619	1,351,743	1,348,338	121,915	
7	1919...acres....	3,348,385	1,331,453	1,322,982	143,102	
8	Increase or decrease (-), 1929-1939....percent....	-5.1	-5.7	-5.7	26.8	
9	Irrigable area in enterprises....1940...acres....	4,283,250	1,483,661	1,478,684	185,348	
10	1930...acres....	4,528,251	1,681,411	1,676,726	175,580	
11	1920[2]..acres....	5,220,588	1,858,549	1,843,012	235,628	
12	Excess of irrigable area over the area irrigated..1940...acres....	1,062,565	209,052	207,265	26,971	
13	1930...acres....	1,134,632	329,668	328,388	50,665	
14	1920[2]..acres....	1,872,203	527,096	520,030	92,526	
15	Area works were capable of supplying with water...1940...acres....	3,913,542	1,431,381	1,426,740	172,583	
16	1930...acres....	4,078,712	1,545,206	1,540,711	151,550	
17	1920...acres....	3,855,348	1,446,269	1,435,832	155,485	
18	Increase or decrease (-), 1930-1940....percent....	-4.0	-7.4	-7.4	13.9	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	692,857	156,772	155,321	14,206	
20	1930...acres....	685,093	193,463	192,373	26,635	
21	1920...acres....	506,963	114,816	112,850	12,383	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	82.3	89.0	89.1	91.8	
23	1929...percent....	83.2	87.5	87.5	82.4	
24	1919...percent....	86.9	92.1	92.1	92.0	
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	106,849,343	42,155,132	42,110,190	814,027	
26	(a) Cost of irrigation works and equipment....1940...dollars....	101,848,751	39,913,729	39,874,362	782,010	
27	(b) Investment in water rights (reported)....1940...dollars....	5,000,592	2,241,403	2,235,828	32,017	
28	Total investment in irrigation enterprises....1930...dollars....	87,603,240	36,893,486	36,848,126	714,740	
29	1920...dollars....	88,302,442	36,945,712	36,855,049	835,578	
30	Increase or decrease (-), 1930-1940....percent....	22.0	14.3	14.3	13.9	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	27.30	29.45	29.51	4.72	
32	1930...dollars....	21.48	23.88	23.92	4.72	
33	1920...dollars....	22.90	25.55	25.67	5.37	
34	Average investment per acre irrigated....1939...dollars....	33.18	33.07	33.12	5.14	
35	Estimated final investment in existing enterprises..1940...dollars....	109,808,466	42,344,548	42,298,781	828,902	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	25.64	28.54	28.61	4.47	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Enterprises	Sup. / Enterprises	Primary / Enterprises	Sup. / Enterprises	Primary / Enterprises	Sup. / Enterprises	Primary / Enterprises	Sup. / Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	6,371	1,505	1,558	1,038	1,529	1,038	219	1
38	Area irrigated in these enterprises....1939...acres....	3,128,787	608,498	1,264,095	392,471	1,260,955	392,471	156,411	(3)
39	Cost of maintenance and operation....1939...dollars....	2,035,680	498,440	868,812	343,456	864,648	343,456	51,159	(3)
40	Average cost, per acre irrigated....1939...dollars....	0.65	0.82	0.69	0.88	0.69	0.88	0.33	(3)
41	Total annual charges (reported)[4] [5]....1939...dollars....	2,278,099	213,062	969,144	137,582	968,238	137,582	1,250	.....
42	Average annual charge per acre irrigated....1939...dollars....	0.96	0.46	0.96	0.44	0.96	0.44	0.08	.....
43	Area against which charges were assessed....1939...acres....	2,637,673	461,109	1,060,643	309,287	1,059,381	309,287	18,535	.....
44	Average annual charge per acre assessed....1939...dollars....	0.86	0.46	0.91	0.44	0.91	0.44	0.07	.....
45	Total charges collected[4]....1939...dollars....	2,077,503	206,370	962,227	127,254	961,364	127,254	.....	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	20,851,011	1,959,596	3,724,928	489,619	3,721,648	489,619	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	6,260	1,505	1,534	1,032	1,506	1,032	225	1
48	Area irrigated by these enterprises....1939...acres....	3,039,354	588,300	1,212,742	391,911	1,209,602	391,911	146,358	(3)
49	Water delivered....1939...acre-feet..	7,258,191	500,267	2,099,075	329,080	2,093,297	329,080	455,324	(3)
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4	0.9	1.7	0.8	1.7	0.8	3.1	(3)
51	Average cost of water per acre irrigated....1939...dollars....	0.92	0.94	0.99	1.00	0.99	1.00	0.34	(3)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.39	1.10	0.57	1.19	0.57	1.19	0.11	(3)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	238	.....	81	.....	80	.....	1	.....
54	Irrigable area in these enterprises....1939...acres....	687,246	.....	144,395	.....	144,195	.....	(3)	.....
55	Irrigated area in these enterprises....1939...acres....	466,804	.....	123,874	.....	123,674	.....	(3)	.....
56	Area for which drains have been installed....1939...acres....	119,286	.....	25,439	.....	25,436	.....	(3)	.....
57	Additional area needing drainage....1939...acres....	35,792	.....	5,364	.....	5,364	.....	(3)	.....

[1] Data for 3 enterprises in Pawnee Creek Drainage Basin (72) (number refers to separate map) are included with South Platte River Drainage Basin total.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

MISSOURI RIVER—Continued									
Platte River—Continued									
North Platte River—Continued		South Platte River							
Direct (6)	Laramie River (5)	Total[1]	Direct (32)	Plum Creek (31)	Bear Creek (29)	Cherry Creek (19)	Clear Creek (28)		
303	16	14,857	5,925	29	144	57	2,718		1
154,279	4,098	1,113,042	535,987	1,497	12,032	1,913	78,845		2
111,190	3,658	1,047,043	503,183	1,497	11,189	1,853	76,456		3
.....	.....	34,517	18,432	.....	3	15	1,079		4
43,089	440	31,482	14,372	.....	840	45	1,310		5
7,470	11,075	1,223,423	456,917	.....	12,824	.....	85,376		6
2,520	6,160	1,179,880	345,130	.....	8,778	.....	79,172		7
(*)	-63.0	-9.0	17.3	.....	-6.2	.....	-8.0		8
181,240	4,108	1,293,336	634,361	2,724	12,407	3,729	83,306		9
9,370	12,850	1,501,146	524,025	.....	12,908	.....	148,582		10
23,520	6,425	1,607,384	500,912	.....	12,093	.....	84,450		11
26,961	10	180,294	98,374	1,227	375	1,816	4,461		12
1,900	1,775	277,723	67,108	.....	84	.....	62,906		13
21,000	265	427,504	155,782	.....	3,315	.....	5,278		14
168,475	4,108	1,254,157	624,318	2,724	12,287	3,373	83,194		15
7,870	11,075	1,389,161	488,897	.....	12,908	.....	131,778		16
2,520	6,160	1,280,347	379,720	.....	10,373	.....	79,940		17
(*)	-62.9	-9.7	27.7	.....	-4.8	.....	-36.9		18
14,196	10	141,115	88,331	1,227	255	1,460	4,349		19
400	.....	165,738	31,980	.....	84	.....	46,102		20
.....	.....	100,467	34,590	.....	1,595	.....	768		21
91.6	99.8	88.7	85.9	55.0	97.9	56.7	94.8		22
94.9	100.0	88.1	93.5	.....	99.3	.....	65.0		23
100.0	100.0	92.2	90.9	.....	84.6	.....	99.0		24
789,850	24,177	41,296,163	24,249,996	134,025	962,948	17,735	1,325,105		25
760,935	21,075	39,092,352	22,433,467	134,025	953,610	17,625	1,240,196		26
28,915	3,102	2,203,811	1,816,529	.....	9,338	110	84,909		27
31,550	69,650	36,133,386	17,537,820	.....	839,800	.....	2,771,458		28
41,200	51,800	36,019,471	9,111,900	.....	137,240	.....	862,209		29
(*)	-65.3	14.3	38.3	.....	14.7	.....	-52.2		30
4.69	5.89	32.93	38.84	49.20	78.37	5.26	15.93		31
4.01	6.29	26.01	35.87	.....	65.06	.....	21.03		32
16.35	8.41	28.13	24.00	.....	13.23	.....	10.79		33
5.12	5.90	37.10	45.24	89.53	80.03	9.27	16.81		34
804,725	24,177	41,469,879	24,281,862	134,025	963,288	17,885	1,326,205		35
4.44	5.89	32.06	38.28	49.20	77.64	4.80	15.92		36
Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
204	1	15	1,310	1,037	537	600	29	1	25	1	33	69	54	37
152,343	(3)	4,068	1,104,544	392,371	534,677	179,113	1,337	(3)	11,965	(3)	1,778	77,992	543	38
48,589	(3)	2,570	813,489	343,406	430,004	160,823	2,055	(3)	10,604	(3)	1,962	56,650	3,904	39
0.32	(3)	0.63	0.74	0.88	0.80	0.90	1.54	(3)	0.89	(3)	1.10	0.73	7.19	40
1,250	.....	.....	966,988	137,582	507,226	24,627	.....	.....	9,142	201	.....	56,421	.....	41
0.08	.....	.....	0.97	0.44	1.07	0.20	.....	.....	0.82	0.08	.....	0.74	.....	42
18,535	.....	.....	1,040,846	309,287	509,124	126,064	.....	.....	11,160	2,510	.....	79,238	.....	43
0.07	.....	.....	0.93	0.44	1.00	0.20	.....	.....	0.82	0.08	.....	0.71	.....	44
.....	.....	.....	961,364	127,254	538,702	23,011	.....	.....	6,467	300	.....	71,516	.....	45
.....	.....	.....	3,721,648	489,619	1,908,098	1,250	.....	.....	19,000	.....	.....	110,886	.....	46
209	1	16	1,281	1,031	519	594	27	1	27	1	32	53	53	47
142,260	(3)	4,098	1,063,244	391,811	501,607	179,252	1,497	(3)	10,331	(3)	1,828	71,849	543	48
430,990	(3)	24,334	1,637,973	328,604	920,327	166,471	580	(3)	10,463	(3)	1,957	110,388	805	49
3.0	(3)	5.9	1.5	0.8	1.8	0.9	0.4	(3)	1.0	(3)	1.1	1.5	1.5	50
0.33	(3)	0.63	1.08	1.00	1.12	0.90	1.24	(3)	1.03	(3)	1.09	0.79	7.19	51
0.11	(3)	0.11	0.70	1.20	0.61	0.97	3.19	(3)	1.01	(3)	1.02	0.52	4.85	52
1	.....	.....	79	.....	16	.....	.....	.....	2	.....	1	1	.....	53
(3)	.....	.....	136,195	.....	93,717	.....	.....	.....	(3)	.....	(3)	(3)	.....	54
(3)	.....	.....	117,674	.....	80,422	.....	.....	.....	(3)	.....	(3)	(3)	.....	55
(3)	.....	.....	25,036	.....	8,446	.....	.....	.....	.....	.....	.....	(3)	.....	56
(3)	.....	.....	4,964	.....	3,350	.....	.....	.....	(3)	.....	(3)	(3)	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
* Percent not shown when more than 1,000.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		Platte River—Continued							
		South Platte River—Continued							
		St. Vrain Creek						Thompson River (14)	
		Total		Direct (15)		Boulder Creek (20)			
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	2,308		980		1,328		1,097	
2	Area irrigated....1939...acres	159,855		78,725		81,130		77,893	
3	(a) Cropland harvested....1939...acres	144,266		74,176		70,090		77,294	
4	(b) Crop failure....1939...acres	2,872		1,795		1,077		260	
5	(c) Pasture....1939...acres	12,717		2,754		9,963		339	
6	Area irrigated....1929...acres	179,569		.....		.....		92,704	
7	1919...acres	244,831		.....		.....		96,678	
8	Increase or decrease (-), 1929-1939....percent	-11.0		.....		.....		-16.0	
9	Irrigable area in enterprises....1940...acres	186,013		83,415		102,598		84,251	
10	1930...acres	208,295		.....		.....		100,818	
11	1920[4]...acres	281,467		.....		.....		105,673	
12	Excess of irrigable area over the area irrigated...1940...acres	26,158		4,690		21,468		6,358	
13	1930...acres	28,726		.....		.....		8,114	
14	1920[4]...acres	36,636		.....		.....		8,995	
15	Area works were capable of supplying with water...1940...acres	180,603		82,915		97,688		80,221	
16	1930...acres	205,401		.....		.....		100,753	
17	1920...acres	265,731		.....		.....		98,711	
18	Increase or decrease (-), 1930-1940....percent	-12.1		.....		.....		-20.4	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	20,748		4,190		16,558		2,328	
20	1930...acres	25,832		.....		.....		8,049	
21	1920...acres	20,900		.....		.....		2,033	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	88.5		94.9		83.1		97.1	
23	1929...percent	87.4		.....		.....		92.0	
24	1919...percent	92.1		.....		.....		97.9	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	2,149,009		887,983		1,261,026		1,662,449	
26	(a) Cost of irrigation works and equipment....1940...dollars	2,123,808		867,397		1,256,411		1,423,305	
27	(b) Investment in water rights (reported)....1940...dollars	25,201		20,586		4,615		239,144	
28	Total investment in irrigation enterprises....1930...dollars	1,964,750		.....		.....		2,317,830	
29	1920...dollars	9,298,122		.....		.....		1,102,316	
30	Increase or decrease (-), 1930-1940....percent	9.4		.....		.....		-28.3	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	11.90		10.71		12.91		20.72	
32	1930...dollars	9.57		.....		.....		23.01	
33	1920...dollars	34.99		.....		.....		11.17	
34	Average investment per acre irrigated....1939...dollars	13.44		11.28		15.54		21.34	
35	Estimated final investment in existing enterprises...1940...dollars	2,162,824		891,283		1,271,541		1,722,954	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	11.63		10.68		12.39		20.45	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number	128	35	67	17	61	18	52	11
38	Area irrigated in these enterprises....1939...acres	156,401	23,875	77,552	15,771	78,849	8,104	77,770	16,295
39	Cost of maintenance and operation....1939...dollars	57,232	8,820	23,427	6,675	33,805	2,145	45,897	3,280
40	Average cost, per acre irrigated....1939...dollars	0.37	0.37	0.30	0.42	0.43	0.26	0.59	0.20
41	Total annual charges (reported)[5 6]....1939...dollars	93,631	18,371	40,750	6,094	52,881	12,277	48,910	3,734
42	Average annual charge per acre irrigated....1939...dollars	0.62	0.60	0.55	0.39	0.68	0.82	0.65	0.23
43	Area against which charges were assessed....1939...acres	157,000	30,478	76,264	15,560	80,736	14,918	76,960	16,035
44	Average annual charge per acre assessed....1939...dollars	0.60	1.66	0.53	0.39	0.65	0.82	0.64	0.23
45	Total charges collected[5]....1939...dollars	97,459	20,114	34,446	15,551	63,013	4,563	59,907	3,700
46	Indebtedness to December 31 (reported)[6]....1939...dollars	346,792	78,650	148,780	53,980	198,012	24,670	288,145	1,350
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	137	42	62	20	75	22	56	12
48	Area irrigated by these enterprises....1939...acres	158,535	22,766	77,557	6,034	80,978	16,732	76,993	16,506
49	Water delivered....1939...acre-feet	174,611	15,219	86,091	5,586	88,520	9,633	94,254	9,116
50	Average water delivered per acre irrigated....1939...acre-feet	1.1	0.7	1.1	0.9	1.1	0.6	1.2	0.6
51	Average cost of water per acre irrigated....1939...dollars	0.63	0.73	0.57	0.43	0.68	0.82	0.67	0.32
52	Average cost of water per acre-foot delivered...1939...dollars	0.57	1.10	0.51	0.47	0.63	1.42	0.55	0.57
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	13	.....	7	.....	6	.....	6	.....
54	Irrigable area in these enterprises....1939...acres	19,960	.....	4,600	.....	15,360	.....	1,756	.....
55	Irrigated area in these enterprises....1939...acres	16,030	.....	4,320	.....	11,710	.....	1,641	.....
56	Area for which drains have been installed....1939...acres	1,726	.....	125	.....	1,601	.....	263	.....
57	Additional area needing drainage....1939...acres	1,190	.....	360	.....	830	.....	95	.....

[1] Data for 2 enterprises in Timpas Creek Drainage Basin (51) (number refers to separate map) are included with Arkansas River "Direct" Drainage Basin (33).
[2] Data for 1 enterprise in Smoky Hill River Drainage Basin (71) and 1 enterprise in White Woman Creek Drainage Basin (73) (number refers to separate map) are included with Republican River Drainage Basin total.
[3] Data for 3 enterprises in Frenchman Creek Drainage Basin (82) (number refers to separate map) are included with Arikaree River Drainage Basin (17).

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSOURI RIVER—Continued							MISSISSIPPI RIVER (Exclusive of Missouri River)			
Platte River—Continued				Kansas River			Arkansas River			
South Platte River—Continued				Republican River						
Cache la Poudre River (4)	Crow Creek (2)	Bijou Creek group (16)	Horsetail Creek (1)	Total[2]	Direct (18)	Arikaree River[3] (17)	Total	Direct[1] (33)	Texas Creek (77)	
2,340	20	206	11	64	8	54	7,837	5,890	43	1
221,924	1,996	20,597	383	3,190	371	2,784	469,535	359,578	3,827	2
211,516	1,908	17,386	380	2,816	301	2,480	416,854	329,780	3,661	3
8,617	88	3,146	.....	115	60	55	17,092	9,191	15	4
1,791	.....	65	3	259	10	249	35,589	20,607	151	5
286,607	996	8,470	.....	3,405	.....	.....	558,072	356,186	.....	6
266,676	1,945	6,429	.....	8,471	.....	.....	641,476	431,452	.....	7
-22.6	100.4	143.2	.....	-6.3	.....	.....	-15.9	1.0	.....	8
252,040	2,603	30,957	765	4,977	784	4,158	672,627	472,543	5,438	9
378,984	1,649	10,520	.....	4,685	.....	.....	762,208	407,657	.....	10
410,429	7,450	11,825	.....	15,537	.....	.....	938,533	502,954	.....	11
30,116	607	10,360	382	1,787	413	1,374	203,092	112,965	1,611	12
92,377	653	2,059	.....	1,280	.....	.....	204,136	51,471	.....	13
143,753	5,505	5,396	.....	7,066	.....	.....	297,057	71,502	.....	14
236,303	2,279	27,910	765	4,641	784	3,822	622,846	439,791	5,272	15
325,980	1,226	10,470	.....	4,495	.....	.....	690,955	384,928	.....	16
283,975	2,250	10,699	.....	10,437	.....	.....	709,068	448,808	.....	17
-27.5	85.9	166.6	.....	3.2	.....	.....	-9.9	14.3	.....	18
14,379	283	7,313	382	1,451	413	1,038	153,311	80,213	1,445	19
39,373	230	2,000	.....	1,090	.....	.....	132,883	28,742	.....	20
17,299	305	4,270	.....	1,966	.....	.....	67,592	17,356	.....	21
93.9	87.6	73.8	50.1	68.7	47.3	72.8	75.4	81.8	72.6	22
87.9	81.2	80.9	.....	75.8	.....	.....	80.8	92.5	.....	23
93.9	86.4	60.1	.....	81.2	.....	.....	90.5	96.1	.....	24
10,057,990	108,313	624,293	3,000	44,942	6,750	36,817	20,370,917	16,317,477	9,623	25
10,030,280	108,313	623,423	3,000	39,367	4,825	33,167	19,615,167	15,812,690	9,005	26
27,710	.....	870	.....	5,575	1,925	3,650	755,750	504,787	618	27
9,529,172	30,475	68,500	.....	45,360	.....	.....	15,756,524	8,727,700	.....	28
10,638,693	51,700	52,600	.....	90,663	.....	.....	19,710,289	11,058,245	.....	29
5.5	255.4	811.4	.....	-0.9	.....	.....	29.3	87.0	.....	30
42.56	47.53	22.37	3.92	9.68	8.61	9.63	32.71	37.10	1.83	31
29.23	24.86	6.54	.....	10.09	.....	.....	22.80	22.67	.....	32
37.46	22.98	4.92	.....	8.69	.....	.....	27.80	24.64	.....	33
45.32	54.27	30.31	7.83	14.09	18.19	13.22	43.39	45.38	2.51	34
10,109,420	109,413	635,253	3,450	45,767	6,750	37,642	20,487,170	16,349,333	9,623	35
40.11	42.03	20.52	4.51	9.20	8.61	9.05	30.46	34.60	1.77	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.		
273	258	15	12	144	65	3	29	4	24	1,251	137	551	122	42	37
219,757	159,095	1,888	1,265	20,476	9,075	383	3,140	371	2,764	462,063	18,556	356,627	18,346	3,820	38
142,751	126,719	4,734	5,326	61,210	33,893	290	4,164	580	3,564	359,323	21,858	285,796	20,828	629	39
0.65	0.80	2.51	4.21	2.99	3.73	0.76	1.33	1.56	1.29	0.78	1.12	0.80	1.14	0.16	40
250,043	90,649	.....	.....	1,503	.....	112	906	200	706	557,595	10,980	484,522	10,980	.....	41
1.23	0.68	.....	.....	0.89	.....	0.31	0.73	0.92	0.69	1.50	1.79	1.51	1.79	.....	42
205,324	134,180	.....	.....	1,660	.....	360	1,262	217	1,045	416,223	6,142	357,841	6,142	.....	43
1.22	0.68	.....	.....	0.89	.....	0.31	0.72	0.92	0.68	1.34	1.79	1.35	1.79	.....	44
185,695	80,129	.....	.....	1,408	.....	210	863	.....	863	557,803	1,275	501,148	1,275	.....	45
1,048,227	408,369	.....	.....	500	.....	.....	3,280	.....	3,280	3,863,724	.....	3,261,804	.....	.....	46
270	251	17	12	138	65	3	28	4	23	1,204	132	527	116	44	47
217,558	159,294	1,996	1,265	20,547	9,075	383	3,140	371	2,764	447,738	21,563	347,526	18,353	3,827	48
277,833	112,327	5,130	3,239	42,136	19,065	235	5,778	1,184	4,584	900,286	19,552	773,433	17,704	4,990	49
1.3	0.7	2.6	2.6	2.1	2.1	0.6	1.8	3.2	1.7	2.0	0.9	2.2	1.0	1.3	50
1.37	1.03	2.51	4.21	2.99	3.73	0.46	1.36	1.56	1.32	1.36	1.93	1.46	2.06	0.16	51
1.07	1.47	0.98	1.64	1.46	1.78	0.75	0.74	0.49	0.80	0.68	2.14	0.66	2.14	0.13	52
39	.....	.....	.....	1	.....	.....	1	.....	1	60	.....	36	.....	.....	53
16,845	.....	.....	.....	(7)	.....	.....	(7)	.....	(7)	107,698	.....	102,147	.....	.....	54
15,719	.....	.....	.....	(7)	.....	.....	(7)	.....	(7)	88,299	.....	84,439	.....	.....	55
14,557	.....	.....	.....	(7)	.....	.....	(7)	.....	(7)	18,985	.....	18,876	.....	.....	56
159	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,753	.....	2,523	.....	.....	57

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued (Exclusive of Missouri River)							
		Arkansas River—Continued						Huerfano River	
		Grape Creek (46)	Turkey Creek (47)	Fountain Creek (48)		St. Charles River (49)		Total	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	417	25	245		102		406	
2	Area irrigated....1939...acres....	18,198	1,498	14,460		6,802		26,776	
3	(a) Cropland harvested....1939...acres....	13,998	1,468	12,866		4,378		22,261	
4	(b) Crop failure....1939...acres....	234	7	811		1,743		2,707	
5	(c) Pasture....1939...acres....	3,966	23	783		681		1,808	
6	Area irrigated....1929...acres....	.....	.....	22,664		10,177		54,193	
7	1919...acres....	.....	.....	20,465		11,855		55,528	
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	-36.2		-33.2		-50.6	
9	Irrigable area in enterprises....1940...acres....	27,811	18,319	23,690		12,429		52,496	
10	1930...acres....	.....	.....	35,736		11,734		97,692	
11	1920[1]...acres....	.....	.....	39,224		22,310		103,554	
12	Excess of irrigable area over the area irrigated..1940...acres....	9,613	16,821	9,230		5,627		25,720	
13	1930...acres....	.....	.....	13,072		1,557		43,499	
14	1920[1]...acres....	.....	.....	18,759		10,455		48,026	
15	Area works were capable of supplying with water...1940...acres....	26,449	17,570	22,949		11,429		40,209	
16	1930...acres....	.....	.....	35,356		11,330		76,051	
17	1920...acres....	.....	.....	24,964		13,791		64,474	
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	-35.1		0.9		-47.1	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	8,251	16,072	8,489		4,627		13,433	
20	1930...acres....	.....	.....	12,692		1,153		21,858	
21	1920...acres....	.....	.....	4,499		1,936		8,946	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	68.8	8.5	63.0		59.5		66.6	
23	1929...percent....	.....	.....	64.1		89.8		71.3	
24	1919...percent....	.....	.....	82.0		86.0		86.1	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	181,981	326,310	571,361		72,630		853,592	
26	(a) Cost of irrigation works and equipment....1940...dollars....	134,911	322,800	558,905		71,205		819,042	
27	(b) Investment in water rights (reported)....1940...dollars....	47,070	3,510	12,456		1,425		34,550	
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	419,889		133,306		1,590,384	
29	1920...dollars....	.....	.....	965,287		241,884		3,204,519	
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	35.1		-45.5		-46.3	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	6.88	18.57	24.90		6.35		21.23	
32	1930...dollars....	.....	.....	11.88		11.77		20.91	
33	1920...dollars....	.....	.....	38.67		17.54		49.70	
34	Average investment per acre irrigated....1939...dollars....	10.00	217.83	39.51		10.68		31.88	
35	Estimated final investment in existing enterprises..1940...dollars....	183,201	329,310	576,866		84,630		899,192	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	6.59	17.98	24.35		6.81		17.13	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number....	93	13	73	7	69	1	208	2
38	Area irrigated in these enterprises....1939...acres....	16,435	1,476	13,250	727	6,624	(2)	26,236	(2)
39	Cost of maintenance and operation....1939...dollars....	2,994	1,683	10,725	423	2,539	(2)	18,215	(2)
40	Average cost, per acre irrigated....1939...dollars....	0.18	1.14	0.81	0.58	0.38	(2)	0.69	(2)
41	Total annual charges (reported)[3] [4]....1939...dollars....	6,250	400	15,203	.....	10	.....	20,451	.....
42	Average annual charge per acre irrigated....1939...dollars....	3.40	0.50	2.17	.....	0.10	.....	1.53	.....
43	Area against which charges were assessed....1939...acres....	1,840	800	7,464	.....	100	.....	16,873	.....
44	Average annual charge per acre assessed....1939...dollars....	3.40	0.50	2.04	.....	0.10	.....	1.21	.....
45	Total charges collected[3]....1939...dollars....	6,264	400	12,412	.....	.....	.....	12,164	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	38,500	.....	266,050	.....	.....	.....	162,250	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	94	11	68	8	71	1	190	2
48	Area irrigated by these enterprises....1939...acres....	17,929	1,441	11,321	2,727	6,702	(2)	24,026	(2)
49	Water delivered....1939...acre-feet..	17,984	1,296	16,999	1,549	7,236	(2)	28,325	(2)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.0	0.9	1.5	0.6	1.1	(2)	1.2	(2)
51	Average cost of water per acre irrigated....1939...dollars....	0.53	1.13	1.73	0.58	0.39	(2)	1.09	(2)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.52	1.26	1.16	1.03	0.36	(2)	0.93	(2)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	12	1	1	.....	.....	.....	3	.....
54	Irrigable area in these enterprises....1939...acres....	2,642	(2)	(2)	.....	.....	.....	159	.....
55	Irrigated area in these enterprises....1939...acres....	1,507	.....	(2)	.....	.....	.....	159	.....
56	Area for which drains have been installed....1939...acres....	99	.....	(2)	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres....	158	(2)	.....	.....	.....	.....	14	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSISSIPPI RIVER—Continued (Exclusive of Missouri River).							RIO GRANDE		
Arkansas River—Continued									
Huerfano River—Continued									
Direct (54)	Cucharas River (53)	Apishapa River (52)	Purgatoire River (69)	Big Sandy Creek (30)	Two Butte and Bear Creeks (50)	Cimarron River (70)	Total	Direct (57)	
318	148	90	465	12	61	21	3,825	1,691	1
18,005	8,771	3,981	30,487	253	3,308	367	560,476	366,823	2
14,663	7,598	3,519	21,080	217	3,288	338	458,761	306,953	3
2,296	411	55	2,285	36	.....	8	11,571	3,082	4
1,046	762	407	7,122	.....	20	21	90,144	56,788	5
.....	.....	5,199	32,799	.....	.....	139	551,142	356,069	6
.....	.....	8,292	43,533	.....	.....	.....	519,563	326,688	7
.....	.....	-23.4	-7.0	.....	.....	164.0	1.7	3.0	8
39,552	12,944	9,781	45,482	438	3,413	787	797,667	502,922	9
.....	.....	28,559	52,509	.....	.....	293	736,197	413,175	10
.....	.....	65,615	51,172	.....	.....	.....	846,338	508,127	11
21,547	4,173	5,800	14,995	185	105	420	237,191	136,099	12
.....	.....	23,360	19,710	.....	.....	154	185,055	57,106	13
.....	.....	57,323	7,639	.....	.....	.....	326,775	181,439	14
28,901	11,308	9,461	45,412	414	3,413	477	726,474	484,118	15
.....	.....	25,509	48,089	.....	.....	140	674,196	379,874	16
.....	.....	11,430	47,402	.....	.....	.....	638,938	420,140	17
.....	.....	-62.9	-5.6	.....	.....	240.7	7.8	27.4	18
10,896	2,537	5,480	14,925	161	105	110	165,998	117,295	19
.....	.....	20,310	15,290	.....	.....	1	123,054	23,805	20
.....	.....	3,138	3,869	.....	.....	.....	119,375	93,452	21
62.3	77.6	42.1	67.1	61.1	96.9	76.9	77.2	75.8	22
.....	.....	20.4	68.2	.....	.....	99.3	81.7	93.7	23
.....	.....	72.5	91.8	.....	.....	.....	81.3	77.8	24
692,640	160,952	223,143	1,178,674	11,842	605,720	18,564	12,650,070	7,771,971	25
688,890	130,152	206,528	1,044,482	11,832	605,720	18,047	11,775,572	7,229,631	26
3,750	30,800	16,615	134,192	10	.....	517	874,498	542,340	27
.....	.....	794,372	1,546,150	.....	.....	9,705	6,778,334	2,364,919	28
.....	.....	1,190,695	491,450	.....	.....	.....	4,538,300	1,526,753	29
.....	.....	-71.9	-23.8	.....	.....	91.3	86.6	228.6	30
23.97	14.23	23.59	25.96	28.60	177.47	38.92	17.41	16.05	31
.....	.....	31.14	32.15	.....	.....	69.32	10.05	6.23	32
.....	.....	104.17	10.37	.....	.....	.....	7.10	3.63	33
38.47	18.35	56.05	38.66	46.81	183.11	50.58	22.57	21.19	34
719,090	180,102	229,243	1,180,774	13,422	606,020	25,556	12,694,478	7,809,504	35
18.18	13.91	23.44	25.96	30.64	177.56	32.47	15.91	15.53	36
Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.	
118	2	90	48	113	4	14	1	7	20	499	191	328	182	37
17,763	(2)	8,473	3,973	29,729	147	253	(2)	3,274	366	547,465	148,836	358,963	118,744	38
12,882	(2)	5,333	2,684	27,528	290	1,063	(2)	3,392	2,075	172,444	78,109	111,513	76,932	39
0.73	(2)	0.63	0.68	0.93	1.97	4.20	(2)	1.04	5.67	0.31	0.52	0.31	0.65	40
18,966	.....	1,485	1,240	25,546	.....	.....	.....	3,973	.....	237,085	20,305	103,801	15,160	41
1.90	.....	0.43	0.82	1.06	.....	.....	.....	1.25	.....	0.50	0.18	0.33	0.14	42
13,458	.....	3,415	1,656	26,471	.....	.....	.....	3,178	.....	595,017	115,715	376,745	105,100	43
1.41	.....	0.43	0.75	0.97	.....	.....	.....	1.25	.....	0.40	5.70	0.28	0.14	44
12,164	.....	.....	.....	20,989	.....	.....	.....	4,426	.....	143,135	17,225	80,701	11,875	45
102,250	.....	.....	16,000	114,770	.....	.....	.....	1,350	.....	2,524,189	318,250	1,611,946	268,150	46
110	2	60	41	116	4	11	1	10	21	561	208	381	202	47
16,626	(2)	7,400	3,731	27,319	147	253	(2)	3,296	367	549,557	128,998	363,767	117,906	48
18,381	(2)	9,944	3,976	35,935	82	245	(2)	9,428	439	827,631	58,467	532,409	51,889	49
1.1	(2)	1.3	1.1	1.3	0.6	1.0	(2)	2.9	1.2	1.5	0.5	1.5	0.4	50
1.28	(2)	0.65	0.65	1.04	1.97	4.19	(2)	1.28	5.67	0.53	0.58	0.41	0.59	51
1.16	(2)	0.48	0.61	0.79	3.54	4.33	(2)	0.45	4.74	0.35	1.27	0.28	1.33	52
.....	.....	3	.....	7	.....	.....	.....	.....	.....	12	.....	6	.....	53
.....	.....	159	.....	2,565	.....	.....	.....	.....	.....	167,599	.....	101,229	.....	54
.....	.....	159	.....	2,184	.....	.....	.....	.....	.....	92,065	.....	73,878	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42,364	.....	38,084	.....	56
.....	.....	14	.....	43	.....	.....	.....	.....	.....	15,570	.....	15,500	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	RIO GRANDE—Continued				INDEPENDENT BASINS IN RIO GRANDE BASIN	
		Alamosa and La Jara Creeks (65)	Trinchera Creek (66)	Conejos River (67)	Costilla Creek (68)	Total	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	391	115	988	640	184	
2	Area irrigated....1939...acres	56,723	14,444	89,382	33,104	71,571	
3	(a) Cropland harvested....1939...acres	41,101	12,342	68,483	29,882	53,474	
4	(b) Crop failure....1939...acres	4,281	.....	4,007	201	257	
5	(c) Pasture....1939...acres	11,341	2,102	16,892	3,021	17,840	
6	Area irrigated....1929...acres	39,396	14,838	80,918	.....	76,249	
7	1919...acres	46,228	12,485	88,676	.....	89,361	
8	Increase or decrease (-), 1929-1939....percent	44.0	-2.7	10.5	.....	-6.1	
9	Irrigable area in enterprises....1940...acres	69,407	62,310	115,486	47,542	86,179	
10	1930...acres	54,715	63,536	112,313	.....	87,255	
11	1920[1]...acres	87,952	59,699	115,887	.....	217,318	
12	Excess of irrigable area over the area irrigated...1940...acres	12,684	47,866	26,104	14,438	14,608	
13	1930...acres	15,319	48,698	31,395	.....	11,006	
14	1920[1]...acres	41,724	47,214	27,211	.....	127,957	
15	Area works were capable of supplying with water...1940...acres	67,491	16,140	111,833	46,892	83,089	
16	1930...acres	54,215	63,228	99,808	.....	86,006	
17	1920...acres	52,556	19,319	95,690	.....	107,672	
18	Increase or decrease (-), 1930-1940....percent	24.5	-74.5	12.0	.....	-3.4	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	10,768	1,696	22,451	13,788	11,518	
20	1930...acres	14,819	48,390	18,890	.....	9,757	
21	1920...acres	6,328	6,834	7,004	.....	18,311	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	84.0	89.5	79.9	70.6	86.1	
23	1929...percent	72.7	23.5	81.1	.....	88.7	
24	1919...percent	88.0	64.6	92.7	.....	83.0	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	1,132,885	628,730	1,338,053	1,778,431	178,709	
26	(a) Cost of irrigation works and equipment....1940...dollars	1,067,415	628,680	1,128,898	1,720,948	118,802	
27	(b) Investment in water rights (reported)....1940...dollars	65,470	50	209,155	57,483	59,907	
28	Total investment in irrigation enterprises....1930...dollars	819,150	677,000	839,676	.....	132,090	
29	1920...dollars	587,184	659,890	564,739	.....	287,360	
30	Increase or decrease (-), 1930-1940....percent	38.3	-7.1	59.4	.....	35.3	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	16.79	38.95	11.96	37.93	2.15	
32	1930...dollars	15.11	10.71	8.41	.....	1.54	
33	1920...dollars	11.17	34.16	5.90	.....	2.67	
34	Average investment per acre irrigated....1939...dollars	19.97	43.53	14.97	53.72	2.50	
35	Estimated final investment in existing enterprises...1940...dollars	1,135,160	628,730	1,341,403	1,779,681	180,054	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	16.36	10.09	11.62	37.43	2.09	
		Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
37	Enterprises reporting maintenance and operation...1939...number	67	2	7	69	7	28	94	4
38	Area irrigated in these enterprises....1939...acres	54,074	(2)	14,202	87,373	22,477	32,853	39,518	3,735
39	Cost of maintenance and operation....1939...dollars	8,198	(2)	11,666	16,633	233	24,434	6,549	265
40	Average cost, per acre irrigated....1939...dollars	0.15	(2)	0.82	0.19	0.01	0.74	0.17	0.07
41	Total annual charges (reported)[3] [4]....1939...dollars	14,368	4,970	56,000	22,357	175	40,559	600	.....
42	Average annual charge per acre irrigated....1939...dollars	0.36	0.65	5.60	0.30	0.07	1.33	1.00	.....
43	Area against which charges were assessed....1939...acres	45,850	8,115	56,000	75,528	2,500	40,894	600	.....
44	Average annual charge per acre assessed....1939...dollars	0.31	0.61	1.00	0.30	0.07	0.99	1.00	.....
45	Total charges collected[3]....1939...dollars	7,393	4,798	10,476	16,048	552	28,517	600	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	69,992	50,000	659,124	16,700	100	166,427	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	72	2	11	64	4	33	153	8
48	Area irrigated by these enterprises....1939...acres	55,335	(2)	14,414	82,937	3,477	33,104	50,807	3,809
49	Water delivered....1939...acre-feet	75,775	(2)	16,530	142,424	3,678	60,493	46,142	1,270
50	Average water delivered per acre irrigated....1939...acre-feet	1.4	(2)	1.1	1.7	1.1	1.8	0.9	0.3
51	Average cost of water per acre irrigated....1939...dollars	0.32	(2)	4.04	0.29	0.07	1.24	0.16	0.07
52	Average cost of water per acre-foot delivered...1939...dollars	0.23	(2)	3.52	0.17	0.06	0.68	0.18	0.21
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	3	.....	1	2	.....	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres	4,250	.....	(2)	(2)	.....	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres	3,632	.....	(2)	(2)	.....	.....	.....	.....
56	Area for which drains have been installed....1939...acres	3,200	.....	(2)	(2)	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres	70	.....	.....	.....	.....	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

INDEPENDENT BASINS IN RIO GRANDE BASIN—Continued							COLORADO RIVER										
San Luis Creek						San Luis Lake											
Total		Direct		Saguache Creek			Total		Direct		Fraser River	Williams River	Muddy Creek	Blue River	Eagle River		
		(45)		(44)		(66)			(13)		(21)	(22)	(12)	(27)	(26)		
179		108		71		5	14,142		3,059		83	36	27	67	184		1
67,561		37,124		30,437		4,010	844,494		132,986		8,929	4,370	6,030	10,855	20,642		2
50,274		28,991		21,283		3,200	702,279		118,948		7,523	3,397	5,610	10,034	16,245		3
257		227		30		.....	10,292		1,024		54	30	40	60	1,332		4
17,030		7,906		9,124		810	131,923		13,014		1,352	943	380	761	3,065		5
57,812		37,591		20,221		.....	856,413		64,855		4,164	.....	6,448	10,725	12,590		6
89,361		51,329		38,032		.....	766,532		71,958		9,331	.....	5,050	10,541	15,118		7
16.9		-1.2		50.5		.....	-1.4		105.1		114.4	.....	-6.5	1.2	64.0		8
79,989		43,164		36,825		6,190	1,243,116		197,242		12,930	7,228	7,005	11,863	22,157		9
68,818		43,157		25,661		.....	1,261,180		124,876		5,882	.....	9,919	15,869	13,677		10
217,318		175,871		41,447		.....	1,359,850		125,422		27,010	.....	7,255	16,297	28,435		11
12,428		6,040		6,388		2,180	398,622		64,256		4,001	2,858	975	1,003	1,515		12
11,006		5,566		5,440		.....	404,767		60,021		1,718	.....	3,471	5,144	1,087		13
127,857		124,542		3,415		.....	593,318		53,464		17,679	.....	2,205	5,756	13,317		14
77,899		43,104		34,795		5,190	1,049,752		175,816		11,296	6,568	7,005	11,653	22,117		15
67,569		42,068		25,501		.....	1,082,349		96,629		4,652	.....	8,509	15,675	13,523		16
107,672		68,309		39,363		.....	953,401		101,249		10,795	.....	5,075	11,771	15,586		17
15.3		2.5		36.4		.....	-3.0		81.9		142.8	.....	-17.7	-25.7	63.6		18
10,338		5,980		4,358		1,180	205,258		42,830		2,367	2,198	975	798	1,475		19
9,767		4,477		5,280		.....	225,936		31,774		488	.....	2,061	4,950	933		20
18,311		16,980		1,331		.....	186,869		29,291		1,464	.....	25	1,290	468		21
86.7		86.1		87.5		77.3	80.4		75.6		79.0	66.5	86.1	93.2	93.3		22
85.6		89.4		79.3		.....	79.1		67.1		89.5	.....	75.8	68.4	93.1		23
83.0		75.1		96.6		.....	80.4		71.1		86.4	.....	99.5	89.6	97.0		24
169,009		60,117		108,892		9,700	31,494,515		6,562,787		117,945	111,503	49,347	133,499	289,593		25
109,102		53,671		55,431		9,700	30,425,481		6,079,318		110,650	105,648	44,900	116,140	266,780		26
59,907		6,446		53,461		.....	1,069,034		483,469		7,295	5,855	4,447	17,359	22,813		27
112,240		56,775		55,465		.....	28,042,806		5,698,045		12,155	.....	110,650	115,210	322,084		28
287,360		184,312		103,048		.....	26,820,781		5,923,462		55,860	.....	33,122	116,608	109,012		29
50.6		5.9		96.3		.....	12.0		15.2		870.3	.....	-55.4	15.9	-10.1		30
2.17		1.39		3.13		1.87	30.00		37.33		10.44	16.98	7.04	11.46	13.09		31
1.66		1.35		2.18		.....	25.91		58.97		2.61	.....	13.00	7.35	23.82		32
2.67		2.70		2.62		.....	28.13		58.50		5.17	.....	6.53	9.91	6.99		33
2.50		1.62		3.58		2.42	37.29		49.35		13.21	25.52	8.18	12.30	14.03		34
169,354		60,412		108,942		10,700	34,102,216		6,881,327		149,120	121,878	57,597	136,759	291,393		35
2.12		1.40		2.96		1.73	27.43		34.89		11.53	16.86	8.22	11.53	13.15		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.							
89	4	41	3	48	1	5	2,969	135	358	13	41	24	26	65	140		37
35,668	3,735	10,504	1,580	25,164	(3)	3,850	815,646	43,900	128,199	10,071	8,924	4,133	6,030	10,655	20,346		38
5,414	265	1,819	125	3,595	(3)	1,135	628,552	54,752	154,306	40,067	4,353	2,312	5,360	9,789	11,633		39
0.15	0.07	0.17	0.08	0.14	(3)	0.29	0.77	1.25	1.20	3.98	0.49	0.56	0.89	0.92	0.57		40
600	.....	600	.....	.....	.....	.....	513,675	44,195	128,286	29,950	1,168	.....	.....	.....	2,090		41
1.00	.....	1.00	.....	.....	.....	.....	1.00	1.58	1.44	3.22	0.55	.....	.....	.....	0.39		42
600	.....	600	.....	.....	.....	.....	565,190	29,965	97,695	10,500	4,605	.....	.....	.....	5,301		43
1.00	.....	1.00	.....	.....	.....	.....	0.91	1.47	1.31	2.85	0.25	.....	.....	.....	0.39		44
600	.....	600	.....	.....	.....	.....	413,741	60,616	98,069	43,349	600	.....	.....	.....	.....		45
.....	.....	.....	.....	.....	.....	.....	10,738,170	1,151,727	2,789,107	818,515	159	.....	.....	.....	.....		46
148	8	83	3	65	5	5	2,808	125	362	12	42	30	26	66	122		47
46,957	3,809	16,520	1,580	30,437	2,229	3,850	778,510	42,019	122,406	10,179	8,929	4,370	6,030	10,855	15,395		48
42,321	1,270	21,622	885	20,699	385	3,821	3,385,057	91,898	591,599	37,616	43,188	15,876	46,522	76,531	169,655		49
0.9	0.3	1.3	0.6	0.7	0.2	1.0	4.3	2.2	4.8	3.7	4.8	3.6	7.7	7.1	11.0		50
0.15	0.07	0.17	0.08	0.14	0.06	0.29	0.86	1.26	1.19	3.03	0.54	0.56	0.89	0.92	0.63		51
0.17	0.21	0.13	0.14	0.21	0.38	0.30	0.20	0.57	0.25	0.82	0.11	0.15	0.12	0.13	0.06		52
.....	.....	.....	.....	.....	.....	.....	85	.....	6	.....	5	1	1	.....	1		53
.....	.....	.....	.....	.....	.....	.....	267,554	.....	42,006	.....	825	(3)	(3)	.....	(3)		54
.....	.....	.....	.....	.....	.....	.....	162,566	.....	20,692	.....	820	(3)	(3)	.....	(3)		55
.....	.....	.....	.....	.....	.....	.....	32,498	.....	12,850	.....	.....	.....	.....	.....	.....		56
.....	.....	.....	.....	.....	.....	.....	12,105	.....	333	.....	70	(3)	(3)	.....	(3)		57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Roaring Fork (34)		Elk Creek (78)	Roan Creek (25)	Plateau River (35)		Gunnison River Total	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	494		83	79	373		5,848	
2	Area irrigated....1939...acres	40,610		3,918	4,915	24,699		296,112	
3	(a) Cropland harvested....1939...acres	33,390		3,261	4,687	16,074		237,633	
4	(b) Crop failure....1939...acres	245		24	111	288		2,503	
5	(c) Pasture....1939...acres	6,975		633	117	8,337		55,976	
6	Area irrigated....1929...acres	36,283		.....	.....	64,833		258,872	
7	1919...acres	30,738		.....	.....	26,260		250,913	
8	Increase or decrease (-), 1929-1939....percent	11.9		.....	.....	-61.9		14.4	
9	Irrigable area in enterprises....1940...acres	45,966		4,040	7,755	31,256		409,120	
10	1930...acres	49,971		.....	.....	78,034		347,959	
11	1920[1]..acres	47,305		.....	.....	40,757		409,934	
12	Excess of irrigable area over the area irrigated..1940...acres	5,356		122	2,840	6,557		113,008	
13	1930...acres	13,688		.....	.....	13,201		89,087	
14	1920[1]..acres	16,567		.....	.....	14,497		159,021	
15	Area works were capable of supplying with water...1940...acres	45,273		4,169	6,952	30,464		366,864	
16	1930...acres	47,055		.....	.....	68,486		322,837	
17	1920...acres	34,104		.....	.....	25,616		329,756	
18	Increase or decrease (-), 1930-1940....percent	-3.8		.....	.....	-55.5		13.6	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	4,663		251	2,037	5,765		70,752	
20	1930...acres	10,772		.....	.....	3,653		63,965	
21	1920...acres	3,366		.....	.....	.....		78,843	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	89.7		94.0	70.7	81.1		80.7	
23	1929...percent	77.1		.....	.....	94.7		80.2	
24	1919...percent	90.1		.....	.....	.....		76.1	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	826,499		71,461	87,025	472,910		13,225,366	
26	(a) Cost of irrigation works and equipment....1940...dollars	782,640		69,574	76,265	457,090		13,094,265	
27	(b) Investment in water rights (reported)....1940...dollars	43,859		1,887	10,760	15,820		131,101	
28	Total investment in irrigation enterprises....1930...dollars	559,953		.....	.....	315,135		10,538,635	
29	1920...dollars	407,266		.....	.....	341,755		10,745,767	
30	Increase or decrease (-), 1930-1940....percent	47.6		.....	.....	50.1		25.5	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	18.26		17.14	12.52	15.52		36.05	
32	1930...dollars	11.90		.....	.....	4.60		32.64	
33	1920...dollars	11.94		.....	.....	13.34		32.59	
34	Average investment per acre irrigated....1939...dollars	20.35		18.24	17.71	19.15		44.66	
35	Estimated final investment in existing enterprises..1940...dollars	878,549		71,661	87,025	479,995		13,929,282	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	19.11		17.74	11.22	15.36		34.05	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number	210	6	24	38	135	19	792	66
38	Area irrigated in these enterprises....1939...acres	37,503	983	3,918	4,915	22,653	7,266	289,507	20,024
39	Cost of maintenance and operation....1939...dollars	20,939	2,340	2,397	1,823	4,213	1,034	228,400	9,269
40	Average cost, per acre irrigated....1939...dollars	0.56	2.38	0.61	0.37	0.19	0.14	0.79	0.46
41	Total annual charges (reported)[2] [3]....1939...dollars	9,418	.....	1,839	575	3,219	3,889	233,526	9,003
42	Average annual charge per acre irrigated....1939...dollars	0.65	.....	1.08	0.24	0.32	0.77	1.16	0.86
43	Area against which charges were assessed....1939...acres	14,587	.....	1,745	2,413	11,524	5,070	222,090	10,925
44	Average annual charge per acre assessed....1939...dollars	0.65	.....	1.05	0.24	0.28	0.77	1.05	0.82
45	Total charges collected[2]....1939...dollars	2,177	.....	1,787	.....	2,687	1,940	198,113	4,693
46	Indebtedness to December 31 (reported)[3]....1939...dollars	22,548	.....	.....	.....	65	.....	7,677,027	167,212
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	220	3	21	34	136	18	771	67
48	Area irrigated by these enterprises....1939...acres	39,649	428	3,918	4,915	23,163	7,036	279,128	19,716
49	Water delivered....1939...acre-feet	256,702	4,798	19,624	25,565	65,798	13,506	1,317,262	29,289
50	Average water delivered per acre irrigated....1939...acre-feet	6.5	11.2	5.0	5.2	2.8	1.9	4.7	1.5
51	Average cost of water per acre irrigated....1939...dollars	0.60	0.44	0.69	0.36	0.23	0.60	0.96	0.72
52	Average cost of water per acre-foot delivered..1939...dollars	0.09	0.04	0.14	0.07	0.08	0.31	0.20	0.49
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	1	.....	1	.....	1	.....	41	.....
54	Irrigable area in these enterprises....1939...acres	(4)	.....	(4)	.....	(4)	.....	136,099	.....
55	Irrigated area in these enterprises....1939...acres	(4)	.....	(4)	.....	(4)	.....	87,047	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	.....	19,565	.....
57	Additional area needing drainage....1939...acres	(4)	.....	(4)	.....	(4)	.....	7,696	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued														
Gunnison River—Continued							Salt Creek group	Dolores River						
Direct	Taylor River	Slate River	Tomichi Creek	Smith Fork	North Fork	Uncompahgre River		Total		Direct				
(40)	(42)	(41)	(43)	(38)	(39)	(37)	(24)			(36)				
1,862	3	44	141	234	1,355	2,189	13	713		232				1
87,931	741	6,506	33,104	20,407	52,779	94,644	984	49,356		11,788				2
65,845	470	5,694	23,889	17,170	43,699	80,866	814	40,099		8,864				3
288	.....	155	53	1,004	287	716	90	333		238				4
21,798	271	657	9,162	2,233	8,793	13,062	80	8,924		2,686				5
20,302	380	.....	17,336	19,329	38,725	88,679	.....	80,436		.....				6
16,813	560	.....	21,752	15,314	31,006	86,119	.....	74,916		.....				7
333.1	95.0	.....	91.0	5.6	36.3	5.5	.....	-38.6		.....				8
104,814	741	8,822	48,069	22,490	70,078	154,106	1,107	133,933		33,245				9
24,451	580	.....	22,839	26,161	53,395	118,174	.....	159,796		.....				10
21,649	620	.....	30,298	31,340	57,189	139,756	.....	180,611		.....				11
16,883	.....	2,316	14,965	2,083	17,299	59,462	123	84,577		21,457				12
4,149	200	.....	5,503	6,832	14,670	28,495	.....	79,360		.....				13
4,836	60	.....	8,546	16,026	26,183	53,637	.....	105,695		.....				14
97,434	741	8,382	47,901	21,104	62,020	129,282	1,107	66,254		16,848				15
22,256	580	.....	22,407	23,876	51,977	109,767	.....	106,457		.....				16
19,909	620	.....	23,068	25,600	33,891	137,756	.....	84,973		.....				17
337.8	27.8	.....	113.8	-11.6	19.3	17.8	.....	-37.8		.....				18
9,503	.....	1,876	14,797	697	9,241	34,638	123	16,898		5,060				19
1,954	200	.....	5,071	4,547	13,252	20,088	.....	26,021		.....				20
3,096	60	.....	1,316	10,286	2,885	51,637	.....	10,057		.....				21
90.2	100.0	77.6	69.1	96.7	85.1	73.2	88.9	74.5		70.0				22
91.2	65.5	.....	77.4	81.0	74.5	81.7	.....	75.6		.....				23
84.4	90.3	.....	94.3	59.8	91.5	62.5	.....	88.2		.....				24
2,052,695	7,200	76,238	118,939	573,039	1,271,099	9,126,156	21,756	1,635,041		843,761				25
1,991,069	7,175	70,793	110,995	563,509	1,244,797	9,105,927	20,598	1,548,747		763,462				26
61,626	25	5,445	7,944	9,530	26,302	20,229	1,158	86,294		80,299				27
784,520	7,700	.....	112,835	484,950	764,243	6,993,474	.....	6,482,945		.....				28
1,001,819	6,900	.....	129,243	396,075	622,647	6,945,702	.....	4,847,569		.....				29
161.6	-6.5	.....	5.4	18.2	66.3	30.5	.....	-74.8		.....				30
21.07	9.72	9.10	2.48	27.15	20.49	70.59	19.65	24.68		50.08				31
35.25	13.28	.....	5.04	20.31	14.70	63.71	.....	60.90		.....				32
50.32	11.13	.....	5.60	15.47	18.37	50.42	.....	57.05		.....				33
23.34	9.72	11.72	3.59	28.08	24.08	96.43	22.11	33.13		71.58				34
2,349,100	7,200	83,038	118,959	573,039	1,423,299	9,374,647	21,806	1,792,831		858,991				35
22.41	9.72	9.41	2.47	25.48	20.31	60.83	19.70	13.39		25.84				36
Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	
350	34	3	35	80	32	3	151	23	141	6	9	152	5	95	4	37
83,456	13,076	741	6,506	31,929	20,407	879	52,379	5,385	94,089	684	876	48,703	526	11,235	449	38
48,063	8,027	106	2,610	7,428	4,734	105	36,420	874	129,039	263	1,205	25,745	241	10,813	191	39
0.58	0.61	0.14	0.40	0.23	0.23	0.12	0.70	0.16	1.37	0.38	1.38	0.53	0.46	0.96	0.43	40
41,901	8,318	.....	148	1,870	10,350	.....	43,412	685	135,845	.....	.....	35,385	.....	16,414	.....	41
0.98	0.84	.....	0.30	0.16	0.56	.....	0.98	1.25	1.61	.....	.....	0.91	.....	2.92	.....	42
45,216	10,375	.....	500	11,392	18,872	.....	47,514	550	98,596	.....	.....	42,159	.....	7,790	.....	43
0.93	0.80	.....	0.30	0.16	0.55	.....	0.91	1.25	1.38	.....	.....	0.84	.....	2.11	.....	44
34,171	4,231	.....	.....	720	10,101	.....	41,752	462	111,369	.....	.....	31,625	.....	13,378	.....	45
17,607	167,212	.....	.....	.....	68,000	.....	108,315	.....	7,483,105	.....	.....	106,434	.....	75,500	.....	46
342	34	2	33	82	30	3	150	23	132	7	12	130	4	80	4	47
75,378	13,123	(4)	6,492	32,854	19,860	879	52,501	1,841	91,302	3,873	984	45,304	532	10,424	532	48
404,225	14,609	(4)	41,782	148,293	58,894	1,224	176,284	3,629	481,176	9,827	2,143	126,341	1,145	43,303	1,145	49
5.4	1.1	(4)	6.4	4.5	3.0	1.4	3.4	2.0	5.3	2.5	2.2	2.8	2.2	4.2	2.2	50
0.79	0.79	(4)	0.40	0.22	0.54	0.12	0.92	0.65	1.53	0.38	1.38	0.89	0.42	1.97	0.42	51
0.15	0.71	(4)	0.06	0.05	0.18	0.09	0.27	0.33	0.29	0.15	0.63	0.32	0.20	0.47	0.20	52
20	.....	.....	.....	2	1	.....	7	.....	11	.....	.....	9	.....	1	.....	53
17,589	.....	.....	.....	(4)	(4)	.....	2,931	.....	114,239	.....	.....	8,957	.....	(4)	.....	54
15,778	.....	.....	.....	(4)	(4)	.....	2,621	.....	67,308	.....	.....	7,622	.....	(4)	.....	55
1,748	.....	.....	.....	.....	(4)	.....	5	.....	17,800	.....	.....	80	.....	.....	.....	56
1,582	.....	.....	.....	(4)	(4)	.....	259	.....	5,585	.....	.....	511	.....	(4)	.....	57

[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued					
		Dolores River—Con.			Green River		
		San Miguel River (58)	Garfield Creek (76)	Little Dolores River (81)	Total	Direct (9)	Yampa River Total
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	481	25	24	947	13	683
2	Area irrigated....1939...acres	37,568	2,004	2,319	99,817	1,272	63,014
3	(a) Cropland harvested....1939...acres	31,235	1,841	1,701	86,350	408	54,419
4	(b) Crop failure....1939...acres	95	.....	138	1,066	31	653
5	(c) Pasture....1939...acres	6,238	163	480	12,401	833	7,942
6	Area irrigated....1929...acres	.....	.....	.....	103,888	.....	74,753
7	1919...acres	.....	.....	.....	94,003	.....	68,198
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	-3.9	.....	-15.7
9	Irrigable area in enterprises....1940...acres	100,688	3,304	4,471	138,168	1,732	93,819
10	1930...acres	.....	.....	.....	155,944	.....	117,951
11	1920[1]...acres	.....	.....	.....	165,279	.....	124,598
12	Excess of irrigable area over the area irrigated..1940...acres	63,120	1,300	2,152	38,351	460	30,805
13	1930...acres	.....	.....	.....	52,056	.....	43,198
14	1920[1]...acres	.....	.....	.....	71,276	.....	56,400
15	Area works were capable of supplying with water...1940...acres	49,406	3,304	4,471	122,226	1,639	79,940
16	1930...acres	.....	.....	.....	137,120	.....	103,940
17	1920...acres	.....	.....	.....	115,921	.....	86,503
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	-10.9	.....	-23.1
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	11,838	1,300	2,152	22,409	367	16,926
20	1930...acres	.....	.....	.....	33,232	.....	29,187
21	1920...acres	.....	.....	.....	21,918	.....	18,305
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	76.0	60.7	51.9	81.7	77.6	78.8
23	1929...percent	.....	.....	.....	75.8	.....	71.9
24	1919...percent	.....	.....	.....	81.1	.....	78.8
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	791,280	22,700	41,725	1,356,339	5,031	830,883
26	(a) Cost of irrigation works and equipment....1940...dollars	785,285	22,500	33,575	1,300,844	4,671	792,553
27	(b) Investment in water rights (reported)....1940...dollars	5,995	200	8,150	55,495	360	38,330
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	1,337,707	.....	862,657
29	1920...dollars	.....	.....	.....	1,372,889	.....	923,673
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	1.4	.....	-3.7
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	16.02	6.87	9.33	11.10	3.07	10.39
32	1930...dollars	.....	.....	.....	9.76	.....	8.30
33	1920...dollars	.....	.....	.....	11.84	.....	10.68
34	Average investment per acre irrigated....1939...dollars	21.06	11.33	17.99	13.59	3.96	13.19
35	Estimated final investment in existing enterprises..1940...dollars	933,840	22,700	42,725	1,623,119	5,311	1,091,038
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	9.27	6.87	9.56	11.75	3.07	11.63
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	57	1	17	26	485	7	11	342	4
38	Area irrigated in these enterprises....1939...acres	37,468	(2)	2,004	2,319	90,242	2,947	1,029	54,644	2,371
39	Cost of maintenance and operation....1939...dollars	14,932	(2)	336	1,226	56,023	346	571	36,387	236
40	Average cost, per acre irrigated....1939...dollars	0.40	(2)	0.17	0.53	0.62	0.12	0.55	0.67	0.10
41	Total annual charges (reported)[3] [4]....1939...dollars	18,971	.....	25	.....	14,182	150	.....	9,682	150
42	Average annual charge per acre irrigated....1939...dollars	0.57	.....	0.06	.....	0.45	0.08	.....	0.56	0.08
43	Area against which charges were assessed....1939...acres	34,369	.....	412	.....	35,096	2,000	.....	18,707	2,000
44	Average annual charge per acre assessed....1939...dollars	0.55	.....	0.06	.....	0.40	0.08	.....	0.52	0.08
45	Total charges collected[3]....1939...dollars	18,247	.....	.....	.....	3,980	150	.....	3,202	150
46	Indebtedness to December 31 (reported)[4]....1939...dollars	30,934	.....	.....	.....	88,901	.....	.....	88,151	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered....1939...number	50	.....	15	21	545	11	13	397	8
48	Area irrigated by these enterprises....1939...acres	34,880	.....	1,721	2,281	94,091	3,057	1,272	57,447	2,481
49	Water delivered....1939...acre-feet	83,038	.....	6,110	4,907	323,736	3,478	1,956	186,628	2,486
50	Average water delivered per acre irrigated....1939...acre-feet	2.4	.....	3.6	2.2	3.4	1.1	1.5	3.2	1.0
51	Average cost of water per acre irrigated....1939...dollars	0.58	.....	0.18	0.48	0.62	0.12	0.55	0.68	0.10
52	Average cost of water per acre-foot delivered..1939...dollars	0.24	.....	0.05	0.22	0.18	0.10	0.36	0.21	0.10
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage....1939...number	8	.....	.....	.....	8	.....	.....	4	.....
54	Irrigable area in these enterprises....1939...acres	8,897	.....	.....	.....	6,850	.....	.....	4,375	.....
55	Irrigated area in these enterprises....1939...acres	7,562	.....	.....	.....	5,480	.....	.....	3,520	.....
56	Area for which drains have been installed....1939...acres	80	.....	.....	.....	2	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres	491	.....	.....	.....	1,210	.....	.....	745	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued													
Green River—Continued						San Juan River							
Yampa River—Continued													
Direct (10)	Trout Creek (11)	Elk River (7)	Little Snake River (8)	White River (23)	Total	Direct (64)		Los Pinos River (63)		Animas River (62)			
487	36	100	60	251	2,087	207		580		342			1
42,926	2,748	10,597	6,743	35,531	135,948	14,301		40,822		24,515			2
37,513	2,369	9,043	5,494	31,523	114,672	12,066		32,917		22,096			3
518	4	100	31	382	2,954	164		87		220			4
4,895	375	1,454	1,218	3,626	18,322	2,071		7,818		2,199			5
22,138	.....	.....	7,884	27,773	129,811	2,282		42,881		27,283			6
18,029	.....	.....	9,617	25,625	87,228	1,451		28,762		17,819			7
93.9	.....	.....	-14.5	27.9	4.7	526.7		-4.8		-10.1			8
65,902	4,019	14,051	9,847	42,617	205,571	17,358		55,947		34,765			9
34,996	.....	.....	11,423	36,263	179,781	2,917		63,177		35,214			10
28,221	.....	.....	16,242	40,441	152,934	2,989		52,946		38,043			11
22,976	1,271	3,454	3,104	7,086	69,623	3,057		15,125		10,250			12
12,858	.....	.....	3,539	8,490	49,970	635		20,296		7,931			13
10,192	.....	.....	6,625	14,816	65,706	1,538		24,184		20,224			14
53,848	3,900	12,563	9,629	40,647	164,213	17,229		45,384		29,500			15
28,187	.....	.....	11,003	31,648	159,187	2,876		57,832		29,374			16
18,832	.....	.....	12,449	29,238	103,675	1,634		40,773		19,519			17
91.0	.....	.....	-12.5	28.4	3.2	499.1		-21.5		0.4			18
10,922	1,152	1,966	2,886	5,116	28,265	2,928		4,562		4,965			19
6,049	.....	.....	3,119	3,875	29,376	594		14,951		2,091			20
803	.....	.....	2,832	3,613	16,447	183		12,011		1,700			21
79.7	70.5	84.4	70.0	87.4	82.8	83.0		89.9		83.1			22
78.5	.....	.....	71.7	87.8	81.5	79.3		74.1		92.9			23
95.7	.....	.....	77.3	87.6	84.1	88.8		70.5		91.3			24
656,773	34,730	76,810	62,570	520,425	6,469,019	102,812		1,142,220		589,843			25
633,913	31,850	67,260	59,530	503,620	6,295,947	90,362		1,098,179		509,372			26
22,860	2,880	9,550	3,040	16,805	173,072	12,450		44,041		80,471			27
298,435	.....	.....	108,877	460,500	1,346,440	19,859		559,550		360,177			28
162,768	.....	.....	237,254	447,141	1,166,170	25,200		521,590		323,638			29
120.1	.....	.....	-42.5	13.0	380.5	417.7		104.1		63.8			30
12.20	8.91	6.11	6.50	12.80	39.39	5.97		25.17		19.99			31
10.59	.....	.....	9.90	14.55	8.46	6.91		9.68		12.26			32
8.64	.....	.....	19.06	15.29	11.25	15.42		12.79		16.58			33
15.30	12.64	7.25	9.28	14.65	47.58	7.19		27.98		24.06			34
903,093	36,730	87,385	63,830	526,770	7,514,449	103,797		1,864,315		592,133			35
13.70	9.14	6.22	6.48	12.36	36.55	5.98		33.32		17.03			36
Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises		Primary Enterprises	Sup.	Primary Enterprises	Sup.	
207	4	21	67	47	132	3	427	19	131	2	57	5	72	5	37
35,016	2,371	2,668	10,342	6,618	34,569	576	134,719	2,083	14,159	(2)	40,791	61	23,865	312	38
27,321	236	769	3,913	4,384	19,065	110	98,492	1,455	7,645	(2)	29,561	24	12,183	112	39
0.78	0.10	0.29	0.38	0.66	0.55	0.19	0.73	0.70	0.54	(2)	0.72	0.39	0.51	0.36	40
7,981	150	100	75	1,526	4,500	.....	83,962	1,203	2,276	.....	16,451	.....	12,073	.....	41
0.57	0.08	0.11	0.09	1.05	0.32	.....	0.74	1.07	0.40	.....	0.42	.....	0.57	.....	42
14,379	2,000	937	796	2,595	16,389	.....	127,563	1,470	6,060	.....	41,718	.....	22,425	.....	43
0.56	0.08	0.11	0.09	0.59	0.27	.....	0.66	0.82	0.38	.....	0.39	.....	0.54	.....	44
1,674	150	.....	.....	1,528	778	.....	74,703	10,484	1,990	.....	15,917	.....	13,659	.....	45
87,950	.....	.....	.....	201	750	.....	53,929	166,000	49	.....	6,598	.....	37,650	.....	46
260	8	22	67	48	135	3	255	10	41	1	35	3	51	3	47
38,564	2,481	2,748	9,392	6,743	35,372	576	115,371	1,071	7,453	(2)	34,878	45	20,370	312	48
137,008	2,486	8,954	26,340	14,326	135,152	992	293,498	2,066	14,347	(2)	99,259	35	58,828	1,300	49
3.6	1.0	3.3	2.8	2.1	3.8	1.7	2.5	1.9	1.9	(2)	2.8	0.8	2.9	4.2	50
0.78	0.10	0.29	0.32	0.85	0.54	0.19	0.73	0.85	0.38	(2)	0.43	0.31	0.56	0.35	51
0.22	0.10	0.09	0.11	0.40	0.14	0.11	0.29	0.44	0.20	(2)	0.15	0.40	0.19	0.08	52
3	.....	.....	1	.....	4	.....	10	.....	5	.....	1	.....	1	.....	53
3,635	.....	.....	(2)	.....	2,475	.....	71,247	.....	2,200	.....	(2)	.....	(2)	.....	54
2,840	.....	.....	(2)	.....	1,960	.....	40,315	.....	2,039	.....	(2)	.....	(2)	.....	55
.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	(2)	.....	56
705	.....	.....	(2)	.....	465	.....	2,136	.....	26	.....	(3)	.....	.....	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		San Juan River—Continued							
		La Plata River (61)		Mancos River (60)		McElmo Creek (59)		Piedra River (79)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	206		165		514		73	
2	Area irrigated....1939...acres	9,908		10,410		32,358		3,634	
3	(a) Cropland harvested....1939...acres	7,126		7,526		29,957		2,984	
4	(b) Crop failure....1939...acres	1,536		775		42		130	
5	(c) Pasture....1939...acres	1,246		2,109		2,359		520	
6	Area irrigated....1929...acres	24,308		13,167		.....		.....	
7	1919...acres	17,174		9,040		.....		.....	
8	Increase or decrease (-), 1929-1939....percent	-59.2		-20.9		.....		.....	
9	Irrigable area in enterprises....1940...acres	26,790		12,540		53,492		4,679	
10	1930...acres	33,255		17,945		.....		.....	
11	1920[1]...acres	20,473		18,149		.....		.....	
12	Excess of irrigable area over the area irrigated..1940...acres	16,882		2,130		21,134		1,045	
13	1930...acres	8,947		4,778		.....		.....	
14	1920[1]...acres	3,299		9,109		.....		.....	
15	Area works were capable of supplying with water...1940...acres	18,212		12,511		36,718		4,659	
16	1930...acres	29,920		16,200		.....		.....	
17	1920...acres	17,935		9,494		.....		.....	
18	Increase or decrease (-), 1930-1940....percent	-39.1		-22.8		.....		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	8,304		2,101		4,360		1,025	
20	1930...acres	5,612		3,033		.....		.....	
21	1920...acres	761		454		.....		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	54.4		83.2		88.1		78.0	
23	1929...percent	81.2		81.3		.....		.....	
24	1919...percent	95.8		95.2		.....		.....	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	143,217		146,285		4,313,972		30,670	
26	(a) Cost of irrigation works and equipment....1940...dollars	136,302		125,645		4,307,762		28,325	
27	(b) Investment in water rights (reported)....1940...dollars	6,915		20,640		6,210		2,345	
28	Total investment in irrigation enterprises....1930...dollars	120,119		113,355		.....		.....	
29	1920...dollars	94,613		35,477		.....		.....	
30	Increase or decrease (-), 1930-1940....percent	19.2		29.1		.....		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	7.86		11.69		117.49		6.58	
32	1930...dollars	4.01		7.00		.....		.....	
33	1920...dollars	5.28		3.74		.....		.....	
34	Average investment per acre irrigated....1939...dollars	14.45		14.06		133.32		8.44	
35	Estimated final investment in existing enterprises..1940...dollars	246,827		161,685		4,514,622		31,070	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	9.21		12.89		84.40		6.64	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises		
37	Enterprises reporting maintenance and operation...1939...number	42	4	45	1	40	2	40	
38	Area irrigated in these enterprises....1939...acres	9,868	1,002	10,319	(2)	32,220	(2)	3,497	
39	Cost of maintenance and operation....1939...dollars	3,416	559	3,980	(2)	39,949	(2)	1,758	
40	Average cost, per acre irrigated....1939...dollars	0.35	0.56	0.39	(2)	1.24	(2)	0.50	
41	Total annual charges (reported)[3] [4]....1939...dollars	4,159	503	1,754	700	46,849	.....	400	
42	Average annual charge per acre irrigated....1939...dollars	0.47	0.69	0.24	1.75	1.54	.....	0.78	
43	Area against which charges were assessed....1939...acres	15,180	1,070	7,885	400	33,785	.....	510	
44	Average annual charge per acre assessed....1939...dollars	0.27	0.47	0.22	1.75	1.39	.....	0.78	
45	Total charges collected[3]....1939...dollars	4,133	.....	1,327	499	37,427	9,985	250	
46	Indebtedness to December 31 (reported)[4]....1939...dollars	57	.....	700	.....	8,875	166,000	.....	
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	32	2	25	1	31	.....	40	
48	Area irrigated by these enterprises....1939...acres	9,693	(2)	8,859	(2)	31,134	.....	2,984	
49	Water delivered....1939...acre-feet	12,544	(2)	13,000	(2)	91,896	.....	3,624	
50	Average water delivered per acre irrigated....1939...acre-feet	1.3	(2)	1.5	(2)	3.0	.....	1.2	
51	Average cost of water per acre irrigated....1939...dollars	0.46	(2)	0.24	(2)	1.53	.....	0.40	
52	Average cost of water per acre-foot delivered..1939...dollars	0.36	(2)	0.16	(2)	0.52	.....	0.33	
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	1	.....	1	.....	1	.....	.....	
54	Irrigable area in these enterprises....1939...acres	(2)	.....	(2)	.....	(2)	.....	.....	
55	Irrigated area in these enterprises....1939...acres	.....	.....	(2)	.....	(2)	.....	.....	
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	.....	.....	
57	Additional area needing drainage....1939...acres	(2)	.....	(2)	.....	(2)	.....	.....	

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL	MISSOURI RIVER						
				Total	Platte River					
					Total	North Platte River			South Platte River	
						Total	Direct (6)	Laramie River (5)	Total[1]	Direct (32)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
1	Enterprises	1940..number	[2]8,741	2,781	2,750	231	215	16	2,519	1,190
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	448	515	519	747	784	257	498	525
3	Diversion dams	1940..total number	4,792	1,282	1,258	331	325	6	927	380
4		1930..total number	3,672	889	885	208	1	58	677	96
5		1920..total number	3,647	1,124	1,099	268	3	32	831	103
6	(a) Concrete and masonry	1940..number	367	147	144	.....	.....	.....	144	30
7	(b) Timber	1940..number	427	62	61	10	10	.....	51	16
8	(c) Earth and rock	1940..number	2,838	851	841	301	296	5	540	222
9	(d) Other, mixed, and not reported	1940..number	1,160	222	212	20	19	1	192	112
10	Main canals and laterals	1940..total length, miles	19,864.0	5,991.1	5,936.8	1,198.0	1,193.0	5.0	4,738.8	2,419.7
11		1930..total length, miles	21,381	5,934	5,925	673	40	109	5,252	2,078
12		1920..total length, miles	27,593	8,093	7,986	896	16	74	7,090	1,725
13	(a) Earth	1940..length, miles	19,707	5,923	5,869	1,198	1,193	5	4,671	2,415
14	(b) Lined	1940..length, miles	157.0	68.1	67.8	.....	.....	.....	67.8	4.7
15		1940..capacity, c.f.s.[3]	139,780	43,390	43,140	5,943	5,708	235	37,197	18,534
16		1930..capacity, c.f.s.[3]	123,652	42,439	42,430	4,305	213	693	38,125	16,435
17		1920..capacity, c.f.s.[3]	119,558	43,121	42,444	5,607	310	478	36,837	12,674
18	Pipe lines[4]	1940..total length, miles	245.1	83.5	83.3	0.5	0.5	.....	82.8	20.0
19		1930..total length, miles	131.9	23.1	23.0	.....	.....	.....	23.0	3.4
20		1920..total length, miles	217.3	46.9	46.8	.....	.....	.....	46.8	9.7
21	(a) Concrete	1940..length, miles	86.7	20.9	20.9	.....	.....	.....	20.9	10.0
22	(b) Metal	1940..length, miles	93.5	42.2	42.0	0.5	0.5	.....	41.5	6.1
23	(c) Wood-stave	1940..length, miles	23.7	1.5	1.5	.....	.....	.....	1.5	0.4
24	(d) Other	1940..length, miles	41.2	18.9	18.9	.....	.....	.....	18.9	3.5
25	Storage dams	1940..total number	1,015	377	372	11	11	.....	361	90
26		1930..total number	706	237	235	14	.....	.....	221	20
27		1920..total number	803	313	305	11	2	1	294	14
28	(a) Concrete and masonry	1940..number	19	7	7	.....	.....	.....	7	2
29	(b) Earth and rock	1940..number	951	354	349	10	10	.....	339	78
30	(c) Other, mixed, and not reported	1940..number	45	16	16	1	1	.....	15	10
31	Reservoirs	1940..total number	[5]1,071	386	380	12	12	.....	368	98
32	(a) 1-99 acre-feet capacity	1940..number	491	133	128	7	7	.....	121	32
33	(b) 100-999 acre-feet capacity	1940..number	348	127	126	4	4	.....	122	16
34	(c) 1,000 and over acre-feet capacity	1940..number	229	126	126	1	1	.....	125	50
35		1940..total capacity, ac.-ft.[6]	2,071,522	763,972	763,497	7,118	7,118	.....	756,379	401,562
36		1930..total number	765	279	276	15	.....	.....	261	23
37		1930..total capacity, ac.-ft.	1,924,982	800,263	800,257	16,714	.....	.....	783,543	386,654
38	Wells, flowing	1940..number	886	4	4	.....	.....	.....	4	4
39		1930..number	621	.....	.....	.....	.....	.....	.....	.....
40		1920..number	476	4	4	.....	.....	.....	4	3
41		1940..yield, g.p.m.	54,859	165	165	.....	.....	.....	165	165
42		1930..yield, g.p.m.	39,644	.....	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	20,139	230	230	.....	.....	.....	230	170
44	Wells, pumped	1940..number	2,878	1,989	1,982	2	2	.....	1,980	1,022
45		1930..number	654	457	457	.....	.....	.....	457	4
46		1920..number	527	283	283	.....	.....	.....	283	90
47		1940..yield, g.p.m.	1,929,798	1,387,043	1,381,325	(7)	(7)	.....	1,381,165	797,199
48		1930..yield, g.p.m.	237,903	155,912	155,912	.....	.....	.....	155,912	3,415
49		1920..yield, g.p.m.	210,094	124,338	124,338	.....	.....	.....	124,338	42,452
50	Pumping plants	1940..total number	2,806	1,909	1,899	2	2	.....	1,897	990
51		1930..total number	516	334	334	.....	.....	.....	334	11
52	Prime movers	1940..capacity, hp.	49,157	32,582	32,269	(7)	(7)	.....	32,239	16,786
53		1930..capacity, hp.	11,204	4,441	4,441	.....	.....	.....	4,441	220
54		1920..capacity, hp.	8,635	3,103	3,103	.....	.....	.....	3,103	1,096
55	(a) Electric	1940..number	1,088	902	902	.....	.....	.....	902	386
56		1940..capacity, hp.	14,196	10,985	10,985	.....	.....	.....	10,985	5,740
57	(b) Internal-combustion	1940..number	1,612	998	989	2	2	.....	987	598
58		1940..capacity, hp.	32,149	21,525	21,213	(7)	(7)	.....	21,183	10,987
59	(c) Other	1940..number	106	9	8	.....	.....	.....	8	6
60		1940..capacity, hp.	2,812	72	71	.....	.....	.....	71	59
61	Pumps	1940..total number	2,818	1,919	1,909	2	2	.....	1,907	1,000
62		1930..number	540	348	348	.....	.....	.....	348	12
63		1920..number	435	241	241	.....	.....	.....	241	78
64		1940..capacity, g.p.m.	2,263,375	1,473,605	1,463,837	(7)	(7)	.....	1,463,602	833,261
65		1930..capacity, g.p.m.	437,250	192,615	192,615	.....	.....	.....	192,615	9,364
66		1920..capacity, g.p.m.	299,726	166,263	166,263	.....	.....	.....	166,263	50,812
67	(a) Centrifugal	1940..number	1,564	968	964	2	2	.....	962	602
68		1940..capacity, g.p.m.	1,151,926	656,057	652,057	(7)	(7)	.....	651,822	442,786
69		1940..average capacity, g.p.m.	737	678	676	(7)	(7)	.....	678	736
70	(b) Turbine	1940..number	1,118	912	907	.....	.....	.....	907	382
71		1940..capacity, g.p.m.	1,091,791	808,852	803,102	.....	.....	.....	803,102	386,972
72		1940..average capacity, g.p.m.	977	887	885	.....	.....	.....	885	1,013
73	(c) Plunger	1940..number	102	19	18	.....	.....	.....	18	11
74		1940..capacity, g.p.m.	1,800	521	503	.....	.....	.....	503	323
75		1940..average capacity, g.p.m.	18	27	28	.....	.....	.....	28	29
76	(d) Other	1940..number	34	20	20	.....	.....	.....	20	5
77		1940..capacity, g.p.m.	17,858	8,175	8,175	.....	.....	.....	8,175	3,180
78	Pumping lift, from all sources	1940..average, feet	32	36	36	(7)	(7)	.....	36	33
79		1930..average, feet	25	24	24	.....	.....	.....	24	20
80		1920..average, feet	23	22	22	.....	.....	.....	22	22
81	from pumped wells	1940..average, feet	33	36	36	(7)	(7)	.....	36	34
82	from surface sources	1940..average, feet	24	23	22	(7)	(7)	.....	23	15

[1] Data for 3 enterprises in Pawnee Creek Drainage Basin (72) (number refers to separate map) are included with South Platte River Drainage Basin total. [2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1. [3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4] Includes siphons and farm pipe lines reported. [5] Includes 3 reservoirs for which capacity was not reported. [6] Total capacity of all reservoirs regardless of size. [7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		Platte River—Continued							
		South Platte River—Continued							
		Plum Creek (31)	Bear Creek (29)	Cherry Creek (19)	Clear Creek (28)	St. Vrain Creek			Thompson River (14)
						Total	Direct (15)	Boulder Creek (20)	
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	41	33	37	138	201	95	106	76
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	66	372	91	603	899	873	922	1,056
3	Diversion dams....1940..total number	34	39	21	42	119	59	60	56
4	1930..total number	.....	8	.....	17	87	.....	.....	38
5	1920..total number	.....	29	.....	81	171	.....	.....	33
6	(a) Concrete and masonry....1940..number	.....	9	.....	14	47	22	25	13
7	(b) Timber....1940..number	.....	4	.....	7	13	9	4	7
8	(c) Earth and rock....1940..number	33	18	21	16	42	22	20	28
9	(d) Other, mixed, and not reported..1940..number	1	8	.....	5	17	6	11	8
10	Main canals and laterals....1940..total length, miles	55.0	87.9	47.0	313.4	712.5	307.7	404.8	308.6
11	1930..total length, miles	.....	71	.....	324	690	.....	.....	269
12	1920..total length, miles	.....	62	.....	271	2,005	.....	.....	387
13	(a) Earth....1940..length, miles	55	82	47	308	708	306	402	306
14	(b) Lined....1940..length, miles	.....	5.9	.....	5.4	4.5	1.7	2.8	2.6
15	1940..capacity, c.f.s.[4]	175	611	113	3,186	4,758	1,708	3,050	3,515
16	1930..capacity, c.f.s.[4]	.....	409	.....	2,274	4,113	.....	.....	2,939
17	1920..capacity, c.f.s.[4]	.....	359	.....	1,806	5,600	.....	.....	2,810
18	Pipe lines[5]....1940..total length, miles	0.1	1.9	.....	6.4	4.6	3.1	1.5	11.7
19	1930..total length, miles	.....	0.5	.....	6.2	2.3	.....	.....	6.0
20	1920..total length, miles	.....	1.0	.....	0.1	12.7	.....	.....	1.9
21	(a) Concrete....1940..length, miles	.....	1.2	.....	0.3	.....	.....	.....	0.7
22	(b) Metal....1940..length, miles	0.1	0.7	.....	5.7	2.4	1.2	1.2	7.2
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	0.1	.....	.....	.....	0.1
24	(d) Other....1940..length, miles	.....	.....	.....	0.3	2.2	1.9	0.3	3.7
25	Storage dams....1940..total number	2	22	3	45	59	35	24	32
26	1930..total number	.....	8	.....	30	28	.....	.....	22
27	1920..total number	.....	7	.....	5	83	.....	.....	23
28	(a) Concrete and masonry....1940..number	.....	.....	.....	2	2	.....	2	.....
29	(b) Earth and rock....1940..number	2	22	3	43	56	35	21	31
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	1	.....	1	1
31	Reservoirs....1940..total number	3	20	2	48	63	38	25	24
32	(a) 1-99 acre-feet capacity....1940..number	3	2	2	22	15	9	6	8
33	(b) 100-999 acre-feet capacity....1940..number	.....	18	.....	26	33	19	14	6
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	.....	.....	15	10	5	10
35	1940..total capacity, ac.-ft.[6]	24	5,986	(7)	30,179	64,676	34,567	30,109	79,326
36	1930..total number	.....	28	.....	21	37	.....	.....	28
37	1930..total capacity, ac.-ft.	.....	8,670	.....	27,068	45,853	.....	.....	90,758
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	1	7	75	12	5	7	20
45	1930..number	.....	.....	.....	7	5	.....	.....	.....
46	1920..number	.....	.....	.....	.....	1	.....	.....	1
47	1940..yield, g.p.m.	.....	(7)	7,200	14,659	7,360	3,800	3,560	10,040
48	1930..yield, g.p.m.	.....	.....	.....	354	1,050	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	1,200
50	Pumping plants....1940..total number	.....	1	9	75	16	7	9	19
51	1930..total number	.....	.....	.....	12	7	.....	.....	3
52	Prime movers....1940..capacity, hp.	.....	(7)	233	670	303	187	116	351
53	1930..capacity, hp.	.....	.....	.....	54	152	.....	.....	85
54	1920..capacity, hp.	.....	7	.....	.....	100	.....	.....	106
55	(a) Electric....1940..number	.....	1	1	19	5	3	2	3
56	1940..capacity, hp.	.....	(7)	(7)	117	51	35	(7)	40
57	(b) Internal-combustion....1940..number	.....	.....	8	55	11	4	7	15
58	1940..capacity, hp.	.....	.....	225	547	252	152	100	305
59	(c) Other....1940..number	.....	.....	.....	1	.....	.....	.....	1
60	1940..capacity, hp.	.....	.....	.....	(7)	.....	.....	.....	(7)
61	Pumps....1940..total number	.....	1	8	75	16	7	9	20
62	1930..number	.....	.....	.....	12	7	.....	.....	3
63	1920..number	.....	5	.....	.....	4	.....	.....	6
64	1940..capacity, g.p.m.	.....	(7)	8,750	17,039	10,940	6,650	4,290	14,190
65	1930..capacity, g.p.m.	.....	.....	.....	865	7,450	.....	.....	4,290
66	1920..capacity, g.p.m.	.....	.....	.....	.....	1,000	.....	.....	5,831
67	(a) Centrifugal....1940..number	.....	.....	1	59	12	5	7	14
68	1940..capacity, g.p.m.	.....	.....	(7)	13,700	8,500	5,250	3,250	10,370
69	1940..average capacity, g.p.m.	.....	.....	(7)	232	708	1,050	464	741
70	(b) Turbine....1940..number	.....	.....	6	11	4	2	2	5
71	1940..capacity, g.p.m.	.....	.....	6,000	3,075	2,440	(7)	(7)	3,800
72	1940..average capacity, g.p.m.	.....	.....	1,000	280	610	(7)	(7)	760
73	(c) Plunger....1940..number	.....	1	.....	3	.....	.....	.....	1
74	1940..capacity, g.p.m.	.....	(7)	.....	54	.....	.....	.....	(7)
75	1940..average capacity, g.p.m.	.....	(7)	.....	18	.....	.....	.....	(7)
76	(d) Other....1940..number	.....	.....	1	2	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	(7)	(7)	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	.....	(7)	34	27	25	23	26	28
79	1930..average, feet	.....	.....	.....	29	23	.....	.....	31
80	1920..average, feet	.....	40	.....	.....	22	.....	.....	17
81	from pumped wells....1940..average, feet	.....	(7)	26	28	25	22	27	35
82	from surface sources...1940..average, feet	.....	.....	54	19	25	28	22	18

[1] Data for 2 enterprises in Timpas Creek Drainage Basin (51) (number refers to separate map) are included with Arkansas River "Direct" Drainage Basin (33).
[2] Data for 1 enterprise in Smoky Hill River Drainage Basin (71) and 1 enterprise in White Woman Creek Drainage Basin (73) (number refers to separate map) are included with Republican River Drainage Basin total.
[3] Data for 3 enterprises in Frenchman Creek Drainage Basin (82) (number refers to separate map) are included with Arikaree River Drainage Basin (17).

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued							MISSISSIPPI RIVER (Exclusive of Missouri River)							
Platte River—Continued				Kansas River			Arkansas River							
South Platte River—Continued				Republican River										
Cache la Poudre River (4)	Crow Creek (2)	Bijou Creek group (16)	Horsetail Creek (1)	Total[2]	Direct (18)	Arikaree River[3] (17)	Total	Direct[1] (33)	Texas Creek (77)	Grape Creek (46)	Turkey Creek (47)	Fountain Creek (48)	St. Charles River (49)	
555	30	212	3	31	4	25	1,550	754	44	111	15	93	77	1
426	76	132	255	155	196	153	402	583	120	238	1,171	247	148	2
225	2	9	.....	24	2	22	706	259	12	25	6	51	39	3
126	3	10	.....	4	.....	.....	689	65	.....	.....	.....	4	68	4
98	6	4	.....	25	.....	.....	919	88	.....	.....	.....	6	87	5
30	.....	1	.....	3	.....	3	55	21	.....	1	4	2	6	6
4	.....	.....	.....	1	1	.....	40	26	4	.....	.....	1	1	7
151	1	8	.....	10	1	9	325	119	6	23	2	22	16	8
40	1	.....	.....	10	.....	10	286	93	2	1	.....	26	16	9
726.7	9.0	58.0	1.0	54.3	9.0	44.3	3,589.4	2,285.1	56.0	93.6	4.1	148.0	151.0	10
1,225	6	40	.....	9	.....	.....	4,362	2,318	.....	.....	.....	196	92	11
1,587	17	27	.....	107	.....	.....	6,058	2,957	.....	.....	.....	240	186	12
682	9	58	1	54	9	44	3,565	2,273	56	93	4	148	151	13
44.7	.....	.....	.....	0.3	.....	0.3	24.4	12.1	.....	0.6	0.1	.....	.....	14
5,885	11	404	3	250	59	190	41,217	24,874	134	468	29	684	346	15
5,779	32	819	.....	9	.....	.....	38,431	21,963	.....	.....	.....	619	178	16
8,386	105	226	.....	677	.....	.....	28,647	10,766	.....	.....	.....	1,046	757	17
36.0	0.2	1.9	.....	0.2	.....	0.2	100.1	80.0	0.4	0.2	2.6	10.7	0.9	18
0.6	.....	0.1	.....	0.1	.....	.....	83.3	6.3	.....	.....	.....	0.5	.....	19
18.0	.....	.....	.....	0.1	.....	.....	118.6	13.8	.....	.....	.....	11.7	0.4	20
8.0	.....	0.7	.....	.....	.....	.....	59.5	58.7	0.2	.....	.....	0.5	.....	21
18.7	0.2	0.4	.....	0.2	.....	0.2	18.9	7.9	0.2	0.2	0.1	8.6	0.9	22
0.8	.....	0.1	.....	.....	.....	.....	13.3	9.2	.....	.....	.....	.....	.....	23
8.5	.....	0.7	.....	.....	.....	.....	8.4	4.2	.....	.....	2.5	1.6	.....	24
94	5	9	.....	5	.....	5	210	114	2	4	1	23	1	25
85	2	.....	.....	2	.....	.....	124	11	.....	.....	.....	.....	1	26
90	9	.....	.....	8	.....	.....	154	29	.....	.....	.....	9	12	27
1	.....	.....	.....	.....	.....	.....	6	4	.....	.....	.....	.....	.....	28
91	4	9	.....	5	.....	5	190	100	1	4	1	20	1	29
2	1	.....	.....	.....	.....	.....	14	10	1	.....	.....	3	.....	30
95	5	9	1	6	.....	5	218	123	1	4	1	25	3	31
29	.....	7	1	5	.....	4	148	86	1	.....	.....	18	1	32
16	5	2	.....	1	.....	1	34	14	.....	4	.....	6	2	33
50	.....	.....	.....	.....	.....	.....	36	23	.....	.....	1	1	.....	34
171,337	1,600	1,681	(7)	475	.....	460	736,443	652,245	(7)	2,763	(7)	2,470	953	35
86	4	.....	.....	3	.....	.....	135	17	.....	.....	.....	12	1	36
180,630	1,130	.....	.....	6	.....	.....	701,802	524,801	.....	.....	.....	8,704	900	37
.....	.....	.....	.....	.....	.....	.....	22	18	.....	.....	1	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	39
1	.....	.....	.....	.....	.....	.....	18	2	.....	.....	.....	3	.....	40
.....	.....	.....	.....	.....	.....	.....	2,276	2,175	.....	.....	(7)	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	870	.....	.....	.....	.....	.....	.....	42
60	.....	.....	.....	.....	.....	.....	3,140	315	.....	.....	.....	30	.....	43
536	59	245	2	7	.....	6	449	372	1	2	3	29	2	44
137	9	.....	.....	.....	.....	.....	194	67	.....	.....	.....	1	3	45
143	.....	.....	.....	.....	.....	.....	243	167	.....	.....	.....	19	3	46
291,837	23,375	227,245	(7)	5,718	.....	5,700	173,254	133,763	(7)	(7)	2,100	18,088	(7)	47
37,660	4,200	.....	.....	.....	.....	.....	81,226	25,354	.....	.....	.....	200	250	48
60,611	.....	.....	.....	.....	.....	.....	85,756	66,235	.....	.....	.....	7,700	515	49
502	39	241	2	10	2	7	429	344	1	2	2	33	7	50
63	5	2	.....	.....	.....	.....	145	49	.....	.....	.....	2	4	51
5,428	431	7,960	(7)	313	(7)	225	4,988	3,695	(7)	(7)	(7)	687	177	52
895	104	48	.....	.....	.....	.....	1,854	633	.....	.....	.....	50	73	53
1,558	.....	65	.....	.....	.....	.....	1,936	1,564	.....	.....	.....	126	16	54
392	32	63	.....	.....	.....	.....	114	100	.....	.....	.....	8	1	55
3,601	266	1,159	.....	.....	.....	.....	955	845	.....	.....	.....	67	(7)	56
110	7	178	2	9	2	7	232	182	.....	2	2	20	6	57
1,827	165	6,801	(7)	312	(7)	225	3,731	2,698	.....	(7)	(7)	499	169	58
.....	.....	.....	.....	1	.....	.....	83	62	1	.....	.....	5	.....	59
.....	.....	.....	.....	(7)	.....	.....	302	152	(7)	.....	.....	121	.....	60
500	40	242	2	10	2	7	434	351	1	2	3	32	7	61
63	5	2	.....	.....	.....	.....	149	51	.....	.....	.....	2	4	62
127	.....	6	.....	.....	.....	.....	150	104	.....	.....	.....	8	2	63
312,432	22,675	240,165	(7)	9,768	(7)	7,250	229,179	179,277	(7)	(7)	(7)	22,655	7,730	64
49,240	5,900	2,750	.....	.....	.....	.....	110,336	34,829	.....	.....	.....	10,200	3,150	65
88,103	.....	15,250	.....	.....	.....	.....	105,287	83,836	.....	.....	.....	8,200	475	66
217	11	43	2	4	2	2	269	229	.....	1	2	17	7	67
133,206	5,850	33,210	(7)	4,000	(7)	(7)	168,509	132,785	.....	(7)	(7)	13,180	7,730	68
614	532	772	(7)	1,000	(7)	(7)	626	580	.....	(7)	(7)	775	1,104	69
272	28	197	.....	5	.....	5	74	53	.....	1	1	13	.....	70
176,835	16,225	205,855	.....	5,750	.....	5,750	54,261	40,949	.....	(7)	(7)	9,262	.....	71
650	579	1,045	.....	1,150	.....	1,150	733	773	.....	(7)	(7)	712	.....	72
2	.....	.....	.....	1	.....	.....	79	60	1	.....	.....	1	.....	73
(7)	.....	.....	.....	(7)	.....	.....	1,076	910	(7)	.....	.....	(7)	.....	74
(7)	.....	.....	.....	(7)	.....	.....	14	15	(7)	.....	.....	(7)	.....	75
9	1	2	.....	.....	.....	.....	12	9	.....	.....	.....	1	.....	76
2,335	(7)	(7)	.....	.....	.....	.....	5,333	4,633	.....	.....	.....	(7)	.....	77
33	35	58	(7)	59	(7)	66	27	25	(7)	(7)	(7)	33	18	78
21	25	26	.....	.....	.....	.....	23	26	.....	.....	.....	29	23	79
21	.....	26	.....	.....	.....	.....	24	23	.....	.....	.....	21	32	80
33	35	58	(7)	74	.....	74	27	25	(7)	(7)	(7)	36	(7)	81
30	.....	23	.....	37	11	15	25	26	.....	.....	.....	20	18	82

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued (Exclusive of Missouri River)							
		Arkansas River—Continued							
		Huerfano River			Apishapa River	Purgatoire River	Big Sandy Creek	Two Butte and Bear Creeks	Cimarron River
		Total	Direct (54)	Cucharas River (53)	(52)	(69)	(30)	(50)	(70)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	221	126	95	56	129	15	14	21
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	182	229	119	169	352	28	244	23
3	Diversion dams....1940..total number	132	74	58	57	105	2	4	14
4	1930..total number	133	.....	.....	29	77	.....	.....	3
5	1920..total number	285	.....	.....	39	101	.....	.....	.....
6	(a) Concrete and masonry....1940..number	7	1	6	4	6	.....	.....	4
7	(b) Timber....1940..number	2	2	.....	2	4	.....	.....	.....
8	(c) Earth and rock....1940..number	36	5	31	37	48	2	4	10
9	(d) Other, mixed, and not reported..1940..number	87	66	21	14	47	.....	.....	.....
10	Main canals and laterals....1940..total length, miles	373.6	245.5	128.1	82.0	344.9	2.1	28.0	21.0
11	1930..total length, miles	481	.....	.....	102	268	.....	.....	9
12	1920..total length, miles	931	.....	.....	135	386	.....	.....	.....
13	(a) Earth....1940..length, miles	373	245	128	82	344	2	28	11
14	(b) Lined....1940..length, miles	0.6	0.5	0.1	.....	0.9	0.1	.....	10.0
15	1940..capacity, c.f.s.[1]	2,806	2,049	757	10,473	1,216	15	127	45
16	1930..capacity, c.f.s.[1]	3,434	.....	.....	5,637	1,547	.....	.....	7
17	1920..capacity, c.f.s.[1]	4,336	.....	.....	1,806	2,606	.....	.....	.....
18	Pipe lines[2]....1940..total length, miles	0.2	0.1	0.1	0.2	4.2	0.1	0.5	0.1
19	1930..total length, miles	6.4	.....	.....	0.2	.....	.....	.....	.....
20	1920..total length, miles	4.5	.....	.....	0.3	0.1	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	0.1
22	(b) Metal....1940..length, miles	0.1	.....	0.1	0.2	0.7	.....	.....	.....
23	(c) Wood-stave....1940..length, miles	0.1	0.1	.....	.....	3.5	.....	0.5	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	0.1	.....	.....
25	Storage dams....1940..total number	30	11	19	4	10	9	6	6
26	1930..total number	17	.....	.....	6	4	.....	.....	2
27	1920..total number	22	.....	.....	15	9	.....	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	1	1	.....	.....	.....
29	(b) Earth and rock....1940..number	30	11	19	3	9	9	6	6
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	29	11	18	6	6	10	6	4
32	(a) 1-99 acre-feet capacity....1940..number	17	4	13	3	4	9	5	4
33	(b) 100-999 acre-feet capacity....1940..number	6	2	4	.....	1	1	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	6	5	1	3	1	.....	1	.....
35	1940..total capacity, ac.-ft.[3]	13,606	10,769	2,837	5,806	15,367	125	30,061	44
36	1930..total number	15	.....	.....	5	1	.....	.....	2
37	1930..total capacity, ac.-ft.	49,471	.....	.....	28,052	20,000	.....	.....	2,339
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	3	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	93	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	8	4	4	2	9	12	6	3
45	1930..number	7	.....	.....	3	.....	.....	.....	.....
46	1920..number	11	.....	.....	1	.....	.....	.....	.....
47	1940..yield, g.p.m.	4,063	2,250	1,813	(4)	228	4,164	1,034	8,002
48	1930..yield, g.p.m.	5,875	.....	.....	4,220	.....	.....	.....	.....
49	1920..yield, g.p.m.	2,070	.....	.....	144	.....	.....	.....	.....
50	Pumping plants....1940..total number	9	4	5	3	9	11	5	3
51	1930..total number	7	.....	.....	3	2	.....	.....	.....
52	Prime movers....1940..capacity, hp	72	50	22	22	104	91	33	71
53	1930..capacity, hp	81	.....	.....	43	50	.....	.....	.....
54	1920..capacity, hp	36	.....	.....	20	7	.....	.....	.....
55	(a) Electric....1940..number	3	3	.....	.....	.....	2	.....	.....
56	1940..capacity, hp	25	25	.....	.....	.....	(4)	.....	.....
57	(b) Internal-combustion....1940..number	4	1	3	1	5	7	1	2
58	1940..capacity, hp	43	(4)	18	(4)	98	79	(4)	(4)
59	(c) Other....1940..number	2	.....	2	2	4	2	4	1
60	1940..capacity, hp	(4)	.....	(4)	(4)	6	(4)	13	(4)
61	Pumps....1940..total number	9	4	5	2	9	10	5	3
62	1930..number	7	.....	.....	3	2	.....	.....	.....
63	1920..number	6	.....	.....	1	1	.....	.....	.....
64	1940..capacity, g.p.m.	4,173	2,330	1,843	(4)	278	3,264	1,034	8,002
65	1930..capacity, g.p.m.	5,875	.....	.....	4,270	3,000	.....	.....	.....
66	1920..capacity, g.p.m.	2,045	.....	.....	144	500	.....	.....	.....
67	(a) Centrifugal....1940..number	3	2	1	.....	3	4	1	2
68	1940..capacity, g.p.m.	2,030	(4)	(4)	.....	184	1,450	(4)	(4)
69	1940..average capacity, g.p.m.	677	(4)	(4)	.....	61	362	(4)	(4)
70	(b) Turbine....1940..number	3	2	1	.....	.....	3	.....	.....
71	1940..capacity, g.p.m.	2,100	(4)	(4)	.....	.....	1,350	.....	.....
72	1940..average capacity, g.p.m.	700	(4)	(4)	.....	.....	450	.....	.....
73	(c) Plunger....1940..number	3	.....	3	2	5	2	4	1
74	1940..capacity, g.p.m.	43	.....	43	(4)	54	(4)	34	(4)
75	1940..average capacity, g.p.m.	14	.....	14	(4)	11	(4)	8	(4)
76	(d) Other....1940..number	.....	.....	.....	.....	1	1	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	(4)	(4)	.....	.....
78	Pumping lift, from all sources....1940..average, feet	29	34	25	20	59	25	81	31
79	1930..average, feet	23	.....	.....	22	14	.....	.....	.....
80	1920..average, feet	40	.....	.....	14	7	.....	.....	.....
81	from pumped wells....1940..average, feet	29	34	20	(4)	59	27	81	16
82	from surface sources...1940..average, feet	28	.....	28	.....	.....	10	.....	60

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

RIO GRANDE						INDEPENDENT BASINS IN RIO GRANDE BASIN					COLORADO RIVER			
							San Luis Creek							
Total	Direct (57)	Alamosa and La Jara Creeks (65)	Trinchera Creek (55)	Conejos River (67)	Costilla Creek (68)	Total	Total	Direct (45)	Saguache Creek (44)	San Luis Lake (66)	Total	Direct (13)	Fraser River (21)	
814	608	77	12	84	33	175	169	97	72	6	3,421	416	42	1
892	796	877	1,345	1,331	1,421	472	461	462	520	865	307	423	269	2
361	161	72	5	83	40	195	183	21	162	12	2,248	193	19	3
325	32	41	21	70	.....	86	83	13	70	.....	1,683	17	17	4
374	47	60	27	103	.....	192	192	40	152	.....	1,038	9	14	5
68	21	24	3	12	8	.....	.....	.....	.....	.....	97	10	.....	6
31	13	3	.....	4	11	33	21	9	12	12	261	17	.....	7
199	99	27	2	54	17	71	71	12	59	.....	1,392	154	19	8
63	28	18	.....	13	4	91	91	.....	91	.....	498	12	.....	9
1,799.6	963.3	227.2	89.0	287.0	233.1	188.5	166.5	86.5	80.0	22.0	8,295.4	1,152.1	85.0	10
2,529	1,141	244	137	414	.....	427	363	197	166	.....	8,129	442	44	11
2,469	995	279	186	389	.....	668	668	419	249	.....	10,305	594	113	12
1,794	963	227	84	287	233	185	163	83	80	22	8,240	1,137	84	13
5.6	0.3	0.2	5.0	.....	0.1	3.5	3.5	3.5	.....	.....	55.4	15.1	1.0	14
16,582	6,976	1,506	1,736	4,960	1,404	1,416	1,221	664	557	195	37,175	6,484	473	15
13,885	5,826	1,435	193	4,312	.....	2,005	1,716	1,159	557	.....	26,892	2,538	142	16
12,332	5,599	1,711	159	3,188	.....	2,422	2,422	1,670	752	.....	33,036	2,541	352	17
2.4	2.4	.....	.....	.....	.....	0.2	0.2	0.2	.....	.....	58.9	22.5	.....	18
2.0	.....	.....	.....	.....	.....	0.4	0.4	0.2	0.2	.....	23.1	4.0	.....	19
5.7	.....	0.1	4.0	0.1	.....	0.2	0.2	0.2	.....	.....	45.9	11.9	.....	20
0.5	0.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.8	1.1	.....	21
1.9	1.9	.....	.....	.....	.....	0.2	0.2	0.2	.....	.....	30.3	9.8	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.9	4.0	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.9	7.6	.....	24
25	15	3	2	2	3	2	2	.....	2	.....	401	32	3	25
17	1	1	2	1	.....	9	9	2	7	.....	319	.....	.....	26
21	8	2	2	2	.....	2	2	2	.....	.....	313	5	2	27
2	.....	.....	2	.....	.....	1	1	.....	1	.....	3	.....	.....	28
20	15	2	.....	.....	3	1	1	.....	1	.....	386	31	3	29
3	.....	1	.....	2	.....	.....	.....	.....	.....	.....	12	1	.....	30
29	18	2	2	2	5	4	4	2	2	.....	434	36	3	31
7	7	.....	.....	.....	.....	3	3	1	2	.....	203	20	3	32
7	7	.....	.....	.....	.....	1	1	1	.....	.....	179	15	.....	33
15	4	2	2	2	5	.....	.....	.....	.....	.....	52	1	.....	34
304,386	128,494	(4)	(4)	(4)	114,125	300	300	(4)	(4)	.....	266,421	7,616	151	35
16	1	1	2	1	.....	9	9	2	7	.....	326	.....	1	36
281,557	51,113	17,500	24,000	6,500	.....	437	437	176	261	.....	140,923	.....	8	37
533	519	10	.....	4	.....	320	313	199	114	7	7	.....	.....	38
542	300	.....	.....	.....	.....	72	72	17	55	.....	2	.....	.....	39
344	329	8	.....	1	.....	105	105	105	.....	.....	5	.....	.....	40
40,577	39,567	450	.....	560	.....	11,168	11,033	6,107	4,926	135	673	.....	.....	41
36,042	15,000	.....	.....	.....	.....	2,372	2,372	360	2,012	.....	360	.....	.....	42
13,822	13,595	207	.....	20	.....	2,847	2,847	2,847	.....	.....	100	.....	.....	43
429	417	10	.....	2	.....	4	4	3	1	.....	7	.....	.....	44
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	45
.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	46
366,613	361,913	3,000	.....	(4)	.....	1,300	1,300	700	(4)	.....	1,588	.....	.....	47
450	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	315	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
380	373	5	.....	2	.....	4	4	1	3	.....	84	31	1	50
3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	34	6	.....	51
7,003	6,888	78	.....	(4)	.....	26	26	(4)	19	.....	4,558	3,894	(4)	52
41	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,868	3,307	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,596	2,660	.....	54
55	54	1	.....	.....	.....	.....	.....	.....	.....	.....	17	9	.....	55
980	976	(4)	.....	.....	.....	.....	.....	.....	.....	.....	1,276	1,220	.....	56
324	318	4	.....	2	.....	4	4	1	3	.....	54	15	1	57
5,993	5,882	74	.....	(4)	.....	26	26	(4)	19	.....	874	294	(4)	58
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	7	.....	59
(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,408	2,380	.....	60
381	374	5	.....	2	.....	4	4	1	3	.....	80	30	1	61
3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	9	.....	62
.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	43	14	.....	63
400,102	394,472	3,930	.....	(4)	.....	1,500	1,500	(4)	700	.....	158,989	112,839	(4)	64
900	100	.....	.....	.....	.....	.....	.....	.....	.....	.....	133,399	80,500	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28,176	15,070	.....	66
256	250	4	.....	2	.....	4	4	1	3	.....	67	24	1	67
249,990	245,360	2,930	.....	(4)	.....	1,500	1,500	(4)	700	.....	75,870	37,098	(4)	68
977	981	732	.....	(4)	.....	375	375	(4)	233	.....	1,132	1,546	(4)	69
125	124	1	.....	.....	.....	.....	.....	.....	.....	.....	7	5	.....	70
150,112	149,112	(4)	.....	.....	.....	.....	.....	.....	.....	.....	78,566	75,566	.....	71
1,206	1,203	(4)	.....	.....	.....	.....	.....	.....	.....	.....	11,224	15,113	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	1	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	203	(4)	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51	(4)	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	.....	77
23	23	25	.....	(4)	.....	18	18	(4)	18	.....	25	32	(4)	78
10	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	46	49	.....	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	42	.....	80
23	23	30	.....	(4)	.....	19	19	(4)	(4)	.....	20	.....	.....	81
9	10	6	.....	.....	.....	15	15	.....	15	.....	26	32	(4)	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Williams River (22)	Muddy Creek (12)	Blue River (27)	Eagle River (26)	Roaring Fork (34)	Elk Creek (78)	Roan Creek (25)	Plateau River (35)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	30	26	68	144	244	24	36	171
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	219	269	171	154	186	174	183	178
3	Diversion dams....1940..total number	1	41	55	19	118	5	38	154
4	1930..total number	.....	29	7	3	33	.....	.....	34
5	1920..total number	.....	49	40	12	17	.....	.....	2
6	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	1	.....	.....	3
7	(b) Timber....1940..number	1	.....	1	.....	6	1	35	8
8	(c) Earth and rock....1940..number	.....	41	12	16	97	1	.....	121
9	(d) Other, mixed, and not reported..1940..number	.....	.....	42	3	14	3	3	22
10	Main canals and laterals....1940..total length, miles	58.3	37.0	161.0	281.1	460.7	52.9	63.1	316.2
11	1930..total length, miles	.....	94	115	153	483	.....	.....	197
12	1920..total length, miles	.....	64	179	212	471	.....	.....	294
13	(a) Earth....1940..length, miles	58	37	161	277	455	52	63	315
14	(b) Lined....1940..length, miles	0.3	.....	.....	4.1	5.7	0.9	0.1	1.2
15	1940..capacity, c.f.s.[1]	202	318	942	1,096	3,129	138	295	859
16	1930..capacity, c.f.s.[1]	.....	437	300	342	1,220	.....	.....	386
17	1920..capacity, c.f.s.[1]	.....	254	467	449	1,314	.....	.....	790
18	Pipe lines[2]....1940..total length, miles	0.5	.....	0.2	2.1	10.4	0.2	.....	0.2
19	1930..total length, miles	.....	.....	0.8	.....	2.6	.....	.....	1.0
20	1920..total length, miles	.....	0.1	1.2	5.2	0.3	.....	.....	0.1
21	(a) Concrete....1940..length, miles	.....	.....	.....	0.5	0.1	.....	.....	.....
22	(b) Metal....1940..length, miles	0.5	.....	0.2	1.6	4.0	.....	.....	.....
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	0.2	0.2	.....	0.2
24	(d) Other....1940..length, miles	.....	.....	.....	.....	6.1	.....	.....	.....
25	Storage dams....1940..total number	7	[3] 3	[3] 1	4	12	2	.....	48
26	1930..total number	.....	6	1	.....	1	.....	.....	41
27	1920..total number	.....	10	3	4	4	.....	.....	41
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	1	.....	.....	.....
29	(b) Earth and rock....1940..number	7	3	1	4	11	2	.....	45
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....	.....	3
31	Reservoirs....1940..total number	9	.....	.....	5	13	[4] 2	.....	51
32	(a) 1-99 acre-feet capacity....1940..number	8	.....	.....	2	8	.....	.....	21
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	3	4	.....	.....	24
34	(c) 1,000 and over acre-feet capacity....1940..number	1	.....	.....	.....	1	.....	.....	6
35	1940..total capacity, ac.-ft.[5]	1,356	.....	.....	318	4,774	.....	.....	14,984
36	1930..total number	.....	7	3	.....	5	.....	.....	38
37	1930..total capacity, ac.-ft.	.....	2,628	14	.....	1,330	.....	.....	11,969
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	1	.....	.....	.....	.....	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	.....	[7]	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	.....	.....	1	.....	1	.....	.....	.....
51	1930..total number	.....	.....	.....	.....	1	.....	.....	.....
52	Prime movers....1940..capacity, hp.	.....	.....	[7]	.....	[7]	.....	.....	.....
53	1930..capacity, hp.	.....	.....	.....	.....	40	.....	.....	.....
54	1920..capacity, hp.	.....	.....	.....	33	.....	.....	.....	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	.....	.....	1	.....	1	.....	.....	.....
58	1940..capacity, hp.	.....	.....	[7]	.....	[7]	.....	.....	.....
59	(c) Other....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....	.....
61	Pumps....1940..total number	.....	.....	1	.....	1	.....	.....	.....
62	1930..number	.....	.....	.....	.....	1	.....	.....	.....
63	1920..number	.....	.....	.....	2	.....	.....	.....	.....
64	1940..capacity, g.p.m.	.....	.....	[7]	.....	[7]	.....	.....	.....
65	1930..capacity, g.p.m.	.....	.....	.....	.....	1,000	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	.....	1,000	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	.....	.....	1	.....	1	.....	.....	.....
68	1940..capacity, g.p.m.	.....	.....	[7]	.....	[7]	.....	.....	.....
69	1940..average capacity, g.p.m.	.....	.....	[7]	.....	[7]	.....	.....	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	.....	.....	[7]	.....	[7]	.....	.....	.....
79	1930..average, feet	.....	.....	.....	.....	60	.....	.....	.....
80	1920..average, feet	.....	.....	.....	58	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	.....	[7]	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	.....	.....	.....	.....	[7]	.....	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] No reservoirs or capacities reported for these storage dams.
[4] Capacities not reported.

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued													
Gunnison River								Dolores River					
Total	Direct (40)	Taylor River (42)	Slate River (41)	Tomichi Creek (43)	Smith Fork (38)	North Fork (39)	Uncompahgre River (37)	Salt Creek group (24)	Total	Direct (36)	San Miguel River (58)	Garfield Creek (76)	Little Dolores River (81)	
916	409	3	35	85	35	197	152	12	171	111	60	17	27	1
401	238	247	239	564	603	315	851	92	387	152	823	194	166	2
780	316	1	26	192	9	117	119	7	219	178	41	17	30	3
404	7	4	.....	131	4	21	80	.....	107	.....	.....	.....	.....	4
388	14	.....	.....	157	5	19	26	.....	87	.....	.....	.....	.....	5
21	6	.....	.....	2	.....	3	10	.....	7	4	3	.....	3	6
95	22	.....	.....	56	2	7	8	.....	10	7	3	.....	1	7
548	246	1	25	101	4	78	93	3	67	50	17	17	3	8
116	42	.....	1	33	3	29	8	4	135	117	18	.....	23	9
2,840.3	930.2	7.0	84.4	305.1	156.0	430.0	927.6	10.0	433.1	197.3	235.8	28.0	52.0	10
2,348	111	6	.....	163	97	359	858	.....	753	.....	.....	.....	.....	11
2,858	170	6	.....	284	157	382	805	.....	1,039	.....	.....	.....	.....	12
2,827	928	7	84	305	156	428	918	10	432	197	235	28	52	13
13.3	2.2	.....	0.4	0.1	.....	1.0	9.6	.....	1.1	0.3	0.8	.....	.....	14
12,319	3,911	84	537	2,268	806	1,764	2,949	36	2,588	1,504	1,084	73	87	15
10,176	1,405	12	.....	668	472	1,132	3,706	.....	1,990	.....	.....	.....	.....	16
12,419	1,168	15	.....	1,731	562	1,154	2,402	.....	2,622	.....	.....	.....	.....	17
14.0	5.9	.....	0.2	.....	1.0	1.9	5.0	0.2	2.4	0.4	2.0	.....	.....	18
8.3	0.2	.....	.....	0.2	.....	3.8	4.0	.....	1.3	.....	.....	.....	.....	19
18.1	1.0	.....	.....	0.4	5.1	2.8	4.5	.....	1.2	.....	.....	.....	.....	20
3.9	3.0	.....	.....	.....	.....	.....	0.9	.....	0.1	.....	0.1	.....	.....	21
7.6	2.6	.....	0.2	.....	1.0	1.9	1.9	0.1	1.5	0.4	1.1	.....	.....	22
2.3	0.1	.....	.....	.....	.....	.....	2.2	0.1	0.8	.....	0.8	.....	.....	23
0.2	0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
204	142	1	1	.....	4	53	3	.....	15	7	8	.....	4	25
155	.....	.....	.....	.....	6	29	3	.....	15	.....	.....	.....	.....	26
118	1	.....	.....	1	9	17	4	.....	19	.....	.....	.....	.....	27
2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
197	140	1	1	.....	4	48	3	.....	15	7	8	.....	4	29
5	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	30
208	142	[5]1	1	.....	3	55	6	1	18	10	8	.....	3	31
92	54	.....	1	.....	1	34	2	1	4	2	2	.....	3	32
89	66	.....	.....	.....	1	19	3	.....	4	3	1	.....	.....	33
27	22	1	.....	.....	1	2	1	.....	10	5	5	.....	.....	34
164,091	34,437	106,230	(7)	.....	9,172	13,032	1,180	(7)	41,516	32,102	9,414	.....	135	35
161	.....	.....	.....	.....	8	28	4	.....	13	.....	.....	.....	.....	36
48,019	.....	.....	.....	.....	825	9,189	226	.....	26,146	.....	.....	.....	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	265	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
11	10	.....	.....	.....	.....	1	.....	3	6	5	1	.....	.....	50
15	12	.....	.....	1	.....	2	.....	.....	4	.....	.....	.....	.....	51
136	126	.....	.....	.....	.....	(7)	.....	20	128	108	(7)	.....	.....	52
1,421	1,295	.....	.....	6	.....	120	.....	.....	37	.....	.....	.....	.....	53
822	759	.....	.....	.....	.....	8	40	.....	1	.....	.....	.....	.....	54
3	3	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	55
30	30	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	56
5	4	.....	.....	.....	.....	1	.....	.....	5	5	.....	.....	.....	57
100	90	.....	.....	.....	.....	(7)	.....	.....	108	108	.....	.....	.....	58
3	3	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	59
6	6	.....	.....	.....	.....	.....	.....	.....	(7)	.....	(7)	.....	.....	60
8	7	.....	.....	.....	.....	1	.....	3	5	4	1	.....	.....	61
18	15	.....	.....	1	.....	2	.....	.....	4	.....	.....	.....	.....	62
19	15	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	63
6,830	6,450	.....	.....	.....	.....	(7)	.....	1,690	5,900	4,550	(7)	.....	.....	64
47,237	44,337	.....	.....	400	.....	2,500	.....	.....	1,845	.....	.....	.....	.....	65
6,806	5,706	.....	.....	.....	.....	300	.....	.....	.....	.....	.....	.....	.....	66
7	6	.....	.....	.....	.....	1	.....	2	5	4	1	.....	.....	67
4,630	4,450	.....	.....	.....	.....	(7)	.....	(7)	5,900	4,550	(7)	.....	.....	68
661	742	.....	.....	.....	.....	(7)	.....	(7)	1,180	1,138	(7)	.....	.....	69
1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	70
(7)	(7)	.....	.....	.....	.....	.....	.....	(7)	.....	.....	.....	.....	.....	71
(7)	(7)	.....	.....	.....	.....	.....	.....	(7)	.....	.....	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
52	45	.....	.....	.....	.....	(7)	.....	17	17	13	(7)	.....	.....	78
65	24	.....	.....	25	.....	388	.....	.....	24	.....	.....	.....	.....	79
22	20	.....	.....	.....	.....	14	58	.....	15	.....	.....	.....	.....	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
52	45	.....	.....	.....	.....	(7)	.....	17	17	13	(7)	.....	.....	82

[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER—Continued						
			Green River						
					Yampa River				
		Total	Direct (9)	Total	Direct (10)	Elk River (7)	Trout Creek (11)	Little Snake River (8)	White River (23)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	588	13	426	285	70	22	49	149
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	208	126	188	189	179	177	197	277
3	Diversion dams....1940..total number	235	.....	114	53	36	16	9	121
4	1930..total number	478	.....	291	25	.....	.....	26	183
5	1920..total number	144	.....	101	16	.....	.....	2	43
6	(a) Concrete and masonry....1940..number	16	.....	10	9	.....	1	.....	6
7	(b) Timber....1940..number	53	.....	6	3	2	1	.....	47
8	(c) Earth and rock....1940..number	117	.....	89	36	32	12	9	28
9	(d) Other, mixed, and not reported..1940..number	49	.....	9	5	2	2	.....	40
10	Main canals and laterals....1940..total length, miles	1,159.0	3.1	747.9	528.4	107.5	43.0	69.0	408.0
11	1930..total length, miles	1,314	.....	941	160	.....	.....	102	359
12	1920..total length, miles	1,841	.....	1,388	154	.....	.....	144	451
13	(a) Earth....1940..length, miles	1,155	3	746	527	107	43	69	406
14	(b) Lined....1940..length, miles	4.0	0.1	1.9	1.4	0.5	.....	.....	2.0
15	1940..capacity, c.f.s.[1]	3,683	35	2,326	1,745	341	86	154	1,322
16	1930..capacity, c.f.s.[1]	3,229	.....	2,260	639	.....	.....	320	930
17	1920..capacity, c.f.s.[1]	5,333	.....	2,447	498	.....	.....	584	2,883
18	Pipe lines[2]....1940..total length, miles	3.9	.....	2.0	1.1	0.5	.....	0.4	1.9
19	1930..total length, miles	0.9	.....	0.4	.....	.....	.....	.....	0.5
20	1920..total length, miles	0.4	.....	0.2	.....	.....	.....	.....	0.2
21	(a) Concrete....1940..length, miles	0.1	.....	0.1	0.1	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	3.8	.....	1.9	1.0	0.5	.....	0.4	1.9
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	48	6	29	23	[3]1	3	2	13
26	1930..total number	56	.....	40	2	.....	.....	1	14
27	1920..total number	73	.....	57	4	.....	.....	6	16
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	45	6	27	22	1	3	1	12
30	(c) Other, mixed, and not reported..1940..number	3	.....	2	1	.....	.....	1	1
31	Reservoirs....1940..total number	65	5	47	34	.....	10	3	13
32	(a) 1-99 acre-feet capacity....1940..number	31	4	21	11	.....	9	1	6
33	(b) 100-999 acre-feet capacity....1940..number	29	.....	22	19	.....	1	2	7
34	(c) 1,000 and over acre-feet capacity....1940..number	5	1	4	4	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]	17,691	1,021	15,373	14,441	.....	648	284	1,297
36	1930..total number	43	.....	32	5	.....	.....	.....	9
37	1930..total capacity, ac.-ft	15,589	.....	9,826	2,180	.....	.....	.....	5,741
38	Wells, flowing....1940..number	7	.....	1	1	.....	.....	.....	6
39	1930..number	2	.....	.....	.....	.....	.....	.....	2
40	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	673	.....	(5)	(5)	.....	.....	.....	648
42	1930..yield, g.p.m.	360	.....	.....	.....	.....	.....	.....	360
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	6	.....	6	4	.....	.....	2	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	838	.....	838	818	.....	.....	(5)	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	28	.....	20	15	.....	.....	5	8
51	1930..total number	4	.....	3	1	.....	.....	2	1
52	Prime movers....1940..capacity, hp.	278	.....	200	153	.....	.....	47	78
53	1930..capacity, hp.	46	.....	42	2	.....	.....	40	4
54	1920..capacity, hp.	58	.....	48	48	.....	.....	.....	10
55	(a) Electric....1940..number	2	.....	2	2	.....	.....	.....	.....
56	1940..capacity, hp.	(5)	.....	(5)	(5)	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	24	.....	16	13	.....	.....	3	8
58	1940..capacity, hp.	270	.....	192	147	.....	.....	45	78
59	(c) Other....1940..number	2	.....	2	.....	.....	.....	2	.....
60	1940..capacity, hp.	(5)	.....	(5)	.....	.....	.....	(5)	.....
61	Pumps....1940..total number	29	.....	20	14	.....	.....	6	9
62	1930..number	4	.....	3	1	.....	.....	2	1
63	1920..number	5	.....	4	4	.....	.....	.....	1
64	1940..capacity, g.p.m.	28,878	.....	21,528	16,648	.....	.....	4,880	7,350
65	1930..capacity, g.p.m.	1,470	.....	720	320	.....	.....	400	750
66	1920..capacity, g.p.m.	4,100	.....	3,200	3,200	.....	.....	.....	900
67	(a) Centrifugal....1940..number	24	.....	15	12	.....	.....	3	9
68	1940..capacity, g.p.m.	24,500	.....	17,150	14,540	.....	.....	2,610	7,350
69	1940..average capacity, g.p.m.	1,021	.....	1,143	1,212	.....	.....	870	817
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	3	.....	3	1	.....	.....	2	.....
74	1940..capacity, g.p.m.	28	.....	28	(5)	.....	.....	(5)	.....
75	1940..average capacity, g.p.m.	9	.....	9	(5)	.....	.....	(5)	.....
76	(d) Other....1940..number	2	.....	2	1	.....	.....	1	.....
77	1940..capacity, g.p.m.	(5)	.....	(5)	(5)	.....	.....	(5)	.....
78	Pumping lift, from all sources....1940..average, feet	14	.....	73	14	.....	.....	11	15
79	1930..average, feet	20	.....	23	10	.....	.....	30	12
80	1920..average, feet	14	.....	15	15	.....	.....	.....	10
81	from pumped wells....1940..average, feet	20	.....	20	21	.....	.....	(5)	.....
82	from surface sources...1940..average, feet	12	.....	11	12	.....	.....	8	15

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] No reservoirs or capacities reported for these storage dams. [4] Total capacity of all reservoirs regardless of size. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER—Continued						
			San Juan River						
		Total	Direct (64)	Piedra River (79)	Los Pinos River (63)	Animas River (62)	La Plata River (61)	Mancos River (60)	McElmo Creek (59)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	487	142	46	65	90	49	47	48
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	337	121	101	698	328	372	266	765
3	Diversion dams	1940..total number	317	63	48	51	43	43	35	34
4		1930..total number	315	14	.....	32	129	28	15	.....
5		1920..total number	73	.....	.....	5	31	19	11	.....
6	(a) Concrete and masonry	1940..number	36	.....	1	11	5	9	8	2
7	(b) Timber	1940..number	33	28	.....	.....	1	1	2	1
8	(c) Earth and rock	1940..number	176	21	25	37	14	28	25	26
9	(d) Other, mixed, and not reported	1940..number	72	14	22	3	23	5	.....	5
10	Main canals and laterals	1940..total length, miles	1,105.6	187.3	38.2	265.7	177.9	126.0	130.0	180.5
11		1930..total length, miles	1,181	32	.....	276	283	210	144	.....
12		1920..total length, miles	1,042	34	.....	261	259	184	99	.....
13	(a) Earth	1940..length, miles	1,097	186	38	263	174	126	130	180
14	(b) Lined	1940..length, miles	8.6	1.3	0.2	2.7	3.9	.....	.....	0.5
15		1940..capacity, c.f.s.[1]	4,453	426	130	1,243	746	518	448	942
16		1930..capacity, c.f.s.[1]	3,258	58	.....	872	721	555	398	.....
17		1920..capacity, c.f.s.[1]	2,775	97	.....	821	771	426	285	.....
18	Pipe lines[2]	1940..total length, miles	2.3	0.1	.....	0.7	0.8	0.1	.....	0.6
19		1930..total length, miles	2.5	0.1	.....	0.2	0.2	.....	2.0	.....
20		1920..total length, miles	0.2	0.1	.....	0.1	.....	.....	.....	.....
21	(a) Concrete	1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	1.2	.....	.....	0.7	0.3	0.1	.....	0.1
23	(c) Wood-stave	1940..length, miles	1.1	0.1	.....	.....	0.5	.....	.....	0.5
24	(d) Other	1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	18	6	.....	1	3	3	4	1
26		1930..total number	14	.....	.....	3	.....	3	3	.....
27		1920..total number	6	1	.....	.....	.....	2	.....	.....
28	(a) Concrete and masonry	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock	1940..number	18	6	.....	1	3	3	4	1
30	(c) Other, mixed, and not reported	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs	1940..total number	20	6	.....	[3] 1	3	3	5	2
32	(a) 1-99 acre-feet capacity	1940..number	7	2	.....	.....	1	2	1	1
33	(b) 100-999 acre-feet capacity	1940..number	11	4	.....	.....	2	1	4	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	1	.....	.....	.....	.....	.....	.....	1
35		1940..total capacity, ac.-ft.[4]	13,759	850	.....	.....	1,170	581	1,856	(5)
36		1930..total number	10	.....	.....	.....	.....	1	5	.....
37		1930..total capacity, ac.-ft.	2,585	.....	.....	.....	.....	30	1,684	.....
38	Wells, flowing	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
39		1930..number	.....	.....	.....	.....	.....	.....	.....	.....
40		1920..number	4	.....	.....	.....	4	.....	.....	.....
41		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
42		1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	100	.....	.....	.....	100	.....	.....	.....
44	Wells, pumped	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
45		1930..number	1	.....	.....	.....	.....	1	.....	.....
46		1920..number	.....	.....	.....	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
48		1930..yield, g.p.m.	50	.....	.....	.....	.....	50	.....	.....
49		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	2	1	.....	.....	.....	1	.....	.....
51		1930..total number	2	1	.....	.....	.....	1	.....	.....
52	Prime movers	1940..capacity, hp.	(5)	(5)	.....	.....	.....	(5)	.....	.....
53		1930..capacity, hp.	14	12	.....	.....	.....	2	.....	.....
54		1920..capacity, hp.	22	22	.....	.....	.....	.....	.....	.....
55	(a) Electric	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
56		1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion	1940..number	2	1	.....	.....	.....	1	.....	.....
58		1940..capacity, hp.	(5)	(5)	.....	.....	.....	(5)	.....	.....
59	(c) Other	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
60		1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....	.....
61	Pumps	1940..total number	2	1	.....	.....	.....	1	.....	.....
62		1930..number	2	1	.....	.....	.....	1	.....	.....
63		1920..number	2	2	.....	.....	.....	.....	.....	.....
64		1940..capacity, g.p.m.	(5)	(5)	.....	.....	.....	(5)	.....	.....
65		1930..capacity, g.p.m.	317	300	.....	.....	.....	17	.....	.....
66		1920..capacity, g.p.m.	1,200	1,200	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal	1940..number	2	1	.....	.....	.....	1	.....	.....
68		1940..capacity, g.p.m.	(5)	(5)	.....	.....	.....	(5)	.....	.....
69		1940..average capacity, g.p.m.	(5)	(5)	.....	.....	.....	(5)	.....	.....
70	(b) Turbine	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
71		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
72		1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
74		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
75		1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
76	(d) Other	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
77		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	(5)	(5)	.....	.....	.....	(5)	.....	.....
79		1930..average, feet	86	132	.....	.....	.....	40	.....	.....
80		1920..average, feet	85	85	.....	.....	.....	.....	.....	.....
81	from pumped wells	1940..average, feet	.....	.....	.....	.....	.....	.....	.....	.....
82	from surface sources	1940..average, feet	(5)	(5)	.....	.....	.....	(5)	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Capacity not reported. [4] Total capacity of all reservoirs regardless of size. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Adams		Alamosa	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number....	51,436		1,729		608	
2	1930...number....	59,956		1,912		531	
3	Irrigated farms....1940...number....	29,766		955		440	
4	1930...number....	31,288		1,057		484	
5	Increase or decrease (-), 1930-1940....percent....	-4.9		-9.6		-9.1	
	Operated by—						
6	(a) Owners and managers....1940...number....	18,865		627		290	
7	1930...number....	20,060		699		296	
8	(b) Tenants....1940...number....	10,901		328		150	
9	1930...number....	11,228		358		188	
10	Land in all farms....1940...acres....	31,527,240		599,535		374,326	
11	Land in irrigated farms....1940...acres....	12,522,458		124,911		343,825	
12	Average per farm....1940...acres....	421		131		781	
13	(a) Operated by owners and managers....1940...acres....	10,181,139		74,532		303,145	
14	Average per farm....1940...acres....	540		119		1,045	
15	(b) Operated by tenants....1940...acres....	2,341,319		50,379		40,680	
16	Average per farm....1940...acres....	215		154		271	
17	Approximate land area....1940...acres....	66,538,880		798,080		460,800	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres....	3,220,685		68,233		113,941	
19	(a) Cropland harvested....1939...acres....	2,796,075		65,235		74,105	
20	(b) Crop failure....1939...acres....	73,844		1,846		2,390	
21	(c) Pasture....1939...acres....	350,766		1,152		37,446	
22	Area irrigated....1929...acres....	3,393,619		66,826		141,489	
23	1919...acres....	3,348,385		66,407		89,805	
24	Increase or decrease (-), 1929-1939....percent....	-5.1		2.1		19.5	
25	Irrigable area in enterprises....1940...acres....	4,283,250		86,927		184,465	
26	1930...acres....	4,528,251		131,008		182,069	
27	1920[1]...acres....	5,220,588		114,266		166,258	
28	Excess of irrigable area over the area irrigated..1940...acres....	1,062,565		18,694		70,524	
29	1930...acres....	1,134,632		64,182		40,560	
30	Area works were capable of supplying with water...1940...acres....	3,913,542		85,724		175,947	
31	1930...acres....	4,078,712		112,471		156,249	
32	1920...acres....	3,855,348		68,065		168,625	
33	Increase or decrease (-), 1930-1940....percent....	-4.0		-23.8		12.6	
34	Excess, capability of works over area irrigated...1940...acres....	692,857		17,491		62,006	
35	1930...acres....	685,093		45,645		14,760	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	25.7		54.6		33.1	
37	1929...percent....	32.7		49.2		68.1	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	82.3		79.6		64.8	
39	1929...percent....	83.2		59.4		90.6	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars....	106,849,343		1,929,030		1,512,466	
41	(a) Cost of irrigation works and equipment....1940...dollars....	101,848,751		1,877,375		1,397,873	
42	(b) Investment in water rights (reported)....1940...dollars....	5,000,592		51,655		114,593	
43	Total investment in all enterprises....1930...dollars....	87,603,240		2,758,737		586,296	
44	1920...dollars....	88,302,442		2,436,771		416,305	
45	Increase or decrease (-), 1930-1940....percent....	22.0		-30.1		158.0	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	27.30		22.50		8.60	
47	1930...dollars....	21.48		24.53		3.75	
48	1920...dollars....	22.90		35.80		2.47	
49	Average investment per acre irrigated....1939...dollars....	33.18		28.27		13.27	
50	Estimated final investment in existing enterprises..1940...dollars....	109,808,466		1,934,497		1,513,516	
51	1930...dollars....	91,845,804		2,759,587		587,296	
52	1920...dollars....	95,198,423		2,557,121		458,952	
53	Increase or decrease (-), 1930-1940....percent....	19.6		-29.9		157.7	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	25.64		22.25		8.20	
55	1930...dollars....	20.28		21.06		3.23	
56	1920[1]...dollars....	18.24		22.38		2.46	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number....	6,454	1,532	147	153	63	19
58	Area irrigated in these enterprises....1939...acres....	3,128,787	608,498	68,024	9,571	112,877	2,653
59	Cost of maintenance and operation....1939...dollars....	2,035,680	498,440	67,967	20,478	32,125	2,189
60	Average cost, per acre irrigated....1939...dollars....	0.65	0.82	1.00	2.14	0.28	0.83
61	1929...dollars....	0.85	.....	1.63	.....	0.33	.....
62	Total annual charges (reported)[3] [4]....1939...dollars....	2,278,099	213,062	57,775	360	46,862	235
63	Average annual charge per acre irrigated....1939...dollars....	0.96	0.46	0.92	0.09	0.55	0.13
64	Area against which charges were assessed....1939...acres....	2,637,673	461,109	66,987	4,000	131,791	1,808
65	Average annual charge per acre assessed....1939...dollars....	0.86	0.46	0.86	0.09	0.36	0.13
66	Total charges collected[3]....1939...dollars....	2,077,506	206,370	74,442	238	30,855	240
67	Indebtedness to December 31 (reported)[4]....1939...dollars....	20,851,011	1,959,596	106,159	417	140,587	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number....	6,315	1,522	145	144	80	53
69	Area irrigated in these enterprises....1939...acres....	3,039,354	588,300	68,157	9,571	111,162	3,807
70	Water delivered in these enterprises....1939...acre-feet..	7,258,191	500,267	100,417	8,974	134,310	2,587
71	Average water delivered per acre irrigated....1939...acre-feet..	2.4	0.9	1.5	0.9	1.2	0.7
72	Average cost of water per acre irrigated....1939...dollars....	0.92	0.94	1.19	2.14	0.52	0.87
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number....	241	.....	2	.....	3	.....
74	Irrigable area in these enterprises....1939...acres....	687,246	.....	(2)	.....	55,647	.....
75	Irrigated area in these enterprises....1939...acres....	466,804	.....	(2)	.....	38,296	.....
76	Area for which drains have been installed....1939...acres....	119,286	.....	(2)	.....	22,004	.....
77	Additional area needing drainage....1939...acres....	35,792	.....	(2)	.....	2,000	.....

*Census of Agriculture.
[1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2]Data are included only in State total because less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Irrigation data omitted from any of the counties listed are included under "All other counties"]

	Arapahoe	Archuleta	Baca	Bent	Boulder	Chaffee	Clear Creek	Conejos	
	1,079	354	906	687	1,352	295	47	1,049	1
	1,225	389	1,750	882	1,473	307	34	1,467	2
	342	217	60	477	1,189	245	19	862	3
	516	163	34	518	1,201	291	16	1,201	4
	-33.7	33.1	76.5	-7.9	-2.7	-15.8	18.8	-28.2	5
	261	162	46	204	693	173	12	634	6
	382	117	29	244	793	204	.....	875	7
	81	55	14	273	476	72	7	228	8
	134	46	5	274	408	87	.....	326	9
	450,344	284,502	1,068,584	583,132	206,916	107,532	18,523	352,850	10
	67,250	229,402	113,686	308,312	155,387	98,041	10,980	332,733	11
	197	1,057	1,895	646	133	400	578	386	12
	53,522	206,306	98,588	250,636	83,190	79,616	2,998	281,914	13
	205	1,286	2,143	1,229	120	460	250	445	14
	13,728	21,096	15,088	57,676	72,197	18,425	7,982	50,819	15
	169	384	1,078	211	152	256	1,140	223	16
	529,280	872,960	1,641,600	981,120	481,920	664,960	252,160	813,440	17
	22,745	15,425	3,021	60,608	117,078	28,732	354	148,826	18
	20,773	13,381	3,021	60,066	103,043	22,624	241	116,991	19
	1,844	164	.....	320	2,176	506	.....	6,348	20
	128	1,880	.....	222	11,859	5,602	113	25,487	21
	29,526	16,225	2,819	64,338	159,428	26,938	.....	119,049	22
	25,674	11,933	2,287	128,712	159,781	29,623	.....	139,504	23
	-23.0	-4.9	7.2	-5.8	-26.6	6.7	.....	25.0	24
	24,999	19,134	3,469	92,470	130,562	36,583	494	188,432	25
	33,043	23,480	3,854	68,451	184,185	33,676	.....	164,223	26
	62,128	18,188	12,500	145,866	188,485	38,277	.....	207,519	27
	2,254	3,709	448	31,862	13,484	7,851	140	39,606	28
	3,517	7,255	1,035	4,113	24,757	6,738	.....	45,174	29
	24,979	19,040	3,169	72,990	128,452	34,691	359	182,593	30
	30,496	19,371	3,779	65,122	181,896	30,797	.....	151,218	31
	26,137	13,289	12,020	133,372	174,736	30,113	.....	152,346	32
	-18.1	-1.7	-16.1	12.1	-29.4	12.6	.....	20.7	33
	2,234	3,615	148	12,382	11,374	5,959	5	33,767	34
	970	3,146	960	784	22,468	3,859	.....	32,169	35
	33.8	6.7	2.7	19.7	75.3	29.3	3.2	44.7	36
	73.6	16.0	10.6	43.6	104.3	39.6	.....	59.8	37
	91.1	81.0	95.3	83.0	91.1	82.8	98.6	81.5	38
	96.8	83.8	74.6	98.8	87.6	87.5	.....	78.7	39
	845,921	126,357	537,447	1,978,190	1,327,014	222,960	6,285	2,158,130	40
	819,223	112,742	537,170	1,975,140	1,314,119	215,160	5,960	1,919,227	41
	26,698	13,615	277	3,050	12,895	7,800	325	238,903	42
	606,503	157,089	408,375	1,123,422	1,703,651	517,909	.....	1,478,246	43
	597,099	168,635	572,553	2,773,601	1,774,922	261,368	.....	1,155,162	44
	39.5	-19.6	31.6	76.1	-22.1	-56.9	.....	46.0	45
	33.87	6.64	169.60	27.10	10.33	6.43	17.51	11.82	46
	19.89	8.11	108.06	17.25	9.37	16.82	.....	9.78	47
	22.84	12.69	47.63	20.80	10.16	8.68	.....	7.58	48
	37.19	8.19	177.90	32.64	11.33	7.76	17.75	14.50	49
	846,246	127,492	543,897	1,978,666	1,338,589	222,960	6,385	2,163,755	50
	608,003	158,389	408,375	1,126,222	1,790,211	518,909	.....	1,481,096	51
	600,299	170,285	572,553	2,797,201	1,850,662	265,083	.....	1,156,632	52
	39.2	-19.5	33.2	75.7	-25.2	-57.0	.....	46.1	53
	33.85	6.66	156.79	21.40	10.25	6.09	12.93	11.48	54
	18.40	6.75	105.96	16.45	9.72	15.41	.....	9.02	55
	9.66	9.36	45.80	19.18	9.82	6.93	.....	5.57	56
Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
35	6	160	4	10	30	6	108	18	114	1	14	139	16	57
22,723	75	15,258	271	2,986	60,443	223	113,672	15,687	28,194	(2)	292	144,168	28,674	58
33,394	409	8,656	34	3,209	42,006	503	33,750	5,660	5,680	(2)	267	26,060	1,535	59
1.47	5.45	0.57	0.13	1.07	0.69	2.26	0.30	0.36	0.20	(2)	0.91	0.18	0.05	60
1.16	.....	0.51	.....	1.15	0.95	.....	0.69	.....	0.45	.....	.....	0.37	.....	61
45,303	.....	2,676	.....	3,433	69,899	.....	56,854	10,765	2,248	50	.....	35,738	4,910	62
2.06	.....	0.43	.....	1.25	1.18	.....	0.52	0.49	0.13	0.03	.....	0.28	0.59	63
26,976	.....	6,570	.....	2,746	65,979	.....	113,820	21,763	18,125	1,600	.....	139,457	8,807	64
1.68	.....	0.41	.....	1.25	1.06	.....	0.50	0.49	0.12	0.03	.....	0.26	0.56	65
28,576	.....	2,240	.....	3,830	68,870	.....	56,441	11,116	390	.....	.....	22,221	5,110	66
14,351	.....	49	.....	1,166	294,696	.....	164,061	38,677	.....	.....	.....	131,284	50,100	67
34	6	71	3	15	29	7	116	22	83	1	7	139	13	68
21,412	75	8,207	71	3,009	60,528	228	115,168	11,678	20,951	(2)	175	140,993	9,674	69
26,535	163	16,840	85	8,339	112,105	261	125,166	6,491	102,851	(2)	445	221,914	6,559	70
1.2	2.2	2.1	1.2	2.8	1.9	1.1	1.1	0.6	4.9	(2)	2.5	1.6	0.7	71
2.18	5.45	0.43	0.13	1.37	1.24	2.26	0.52	0.55	0.20	(2)	1.47	0.28	0.56	72
1	.....	5	.....	.....	3	.....	10	.....	8	.....	.....	5	.....	73
(2)	.....	2,200	.....	.....	8,868	.....	8,360	.....	2,192	.....	.....	10,370	.....	74
(2)	.....	2,039	.....	.....	8,799	.....	8,020	.....	1,652	.....	.....	8,187	.....	75
(2)	.....	.....	.....	.....	2,200	.....	866	.....	.....	.....	.....	3,680	.....	76
.....	.....	26	.....	.....	.....	.....	1,040	.....	285	.....	.....	70	.....	77

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Costilla	Crowley		Custer	Delta		Denver
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms.....1940...number.....	523	532		305	1,699		158
2	1930...number.....	648	626		406	1,744		257
3	Irrigated farms.....1940...number.....	478	405		144	1,643		110
4	1930...number.....	551	452		158	1,678		133
5	Increase or decrease (-), 1930-1940.....percent....	-13.2	-10.4		-8.9	-2.1		-17.3
	Operated by—							
6	(a) Owners and managers.....1940...number.....	326	141		107	1,120		87
7	1930...number.....	381	196		112	1,174		92
8	(b) Tenants.....1940...number.....	152	264		37	523		23
9	1930...number.....	170	256		46	504		41
10	Land in all farms.....1940...acres.....	392,522	327,163		243,334	220,765		2,280
11	Land in irrigated farms.....1940...acres.....	364,686	107,411		130,767	206,328		1,037
12	Average per farm.....1940...acres.....	763	265		908	126		9
13	(a) Operated by owners and managers.....1940...acres.....	345,259	68,041		102,504	152,673		672
14	Average per farm.....1940...acres.....	1,059	483		958	136		8
15	(b) Operated by tenants.....1940...acres.....	19,427	39,370		28,263	53,655		365
16	Average per farm.....1940...acres.....	128	149		764	103		16
17	Approximate land area.....1940...acres.....	777,600	513,920		471,680	740,480		37,120
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	47,450	44,213		20,544	113,580		921
19	(a) Cropland harvested.....1939...acres.....	42,126	40,367		16,215	95,287		921
20	(b) Crop failure.....1939...acres.....	201	828		257	1,511		.....
21	(c) Pasture.....1939...acres.....	5,123	3,018		4,072	16,782		.....
22	Area irrigated.....1929...acres.....	48,272	56,271		23,295	107,333		892
23	1919...acres.....	36,771	57,789		24,241	93,509		4,000
24	Increase or decrease (-), 1929-1939.....percent....	-1.7	-21.4		-11.8	5.8		3.3
25	Irrigable area in enterprises.....1940...acres.....	108,532	67,666		32,023	153,246		981
26	1930...acres.....	112,965	76,248		25,445	141,315		892
27	1920[3]...acres.....	102,960	71,974		39,463	156,624		4,877
28	Excess of irrigable area over the area irrigated..1940...acres.....	61,082	23,453		11,479	39,666		60
29	1930...acres.....	64,693	19,977		2,150	33,982		.....
30	Area works were capable of supplying with water...1940...acres.....	61,882	60,534		30,724	134,373		981
31	1930...acres.....	109,957	69,971		25,262	135,234		892
32	1920...acres.....	43,906	58,735		33,548	127,469		4,000
33	Increase or decrease (-), 1930-1940.....percent....	-43.7	-13.5		21.6	-0.6		10.0
34	Excess, capability of works over area irrigated...1940...acres.....	14,432	16,321		10,180	20,793		60
35	1930...acres.....	61,685	13,700		1,967	27,901		.....
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	13.0	41.2		15.7	55.0		88.8
37	1929...percent....	15.1	56.7		17.9	61.7		50.7
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	76.7	73.0		66.9	84.5		93.9
39	1929...percent....	43.9	80.4		92.2	79.4		100.0
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	2,402,611	4,829,865		55,593	4,703,890		84,701
41	(a) Cost of irrigation works and equipment.....1940...dollars....	2,345,128	4,777,685		52,253	4,652,117		83,868
42	(b) Investment in water rights (reported).....1940...dollars....	57,483	52,180		3,340	51,773		833
43	Total investment in all enterprises.....1930...dollars....	1,687,160	1,994,077		86,292	3,439,560		80,095
44	1920...dollars....	1,389,816	2,587,043		75,431	4,168,137		47,386
45	Increase or decrease (-), 1930-1940.....percent....	42.4	142.2		-35.6	36.8		5.8
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	38.83	79.79		1.81	35.01		86.34
47	1930...dollars....	15.34	28.50		3.42	25.43		89.79
48	1920...dollars....	31.65	44.05		2.25	32.70		11.85
49	Average investment per acre irrigated.....1939...dollars....	50.63	109.24		2.71	41.41		91.97
50	Estimated final investment in existing enterprises..1940...dollars....	2,403,861	4,841,170		56,813	5,055,312		84,701
51	1930...dollars....	1,692,260	2,043,894		87,142	3,719,185		80,095
52	1920...dollars....	1,403,066	2,593,508		76,596	4,320,091		47,386
53	Increase or decrease (-), 1930-1940.....percent....	42.1	136.9		-34.8	35.9		5.8
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	22.15	71.55		1.77	32.99		86.34
55	1930...dollars....	14.98	26.81		3.42	26.32		89.79
56	1920[3]...dollars....	13.63	36.03		1.94	27.58		9.72
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	35	14	3	135	293	53	4
58	Area irrigated in these enterprises.....1939...acres.....	47,055	44,202	8,000	18,775	111,204	14,953	921
59	Cost of maintenance and operation.....1939...dollars....	36,100	26,867	3,810	3,245	80,710	7,007	3,180
60	Average cost, per acre irrigated.....1939...dollars....	0.77	0.61	0.48	0.17	0.73	0.47	3.45
61	1929...dollars....	1.03	0.65	.....	0.27	0.87	.....	5.07
62	Total annual charges (reported)[4] [5].....1939...dollars....	96,559	166,000	.....	70	99,834	7,743	3,315
63	Average annual charge per acre irrigated.....1939...dollars....	2.38	4.13	.....	0.10	1.00	0.96	3.60
64	Area against which charges were assessed.....1939...acres.....	96,894	56,200	.....	836	107,969	8,070	921
65	Average annual charge per acre assessed.....1939...dollars....	1.00	2.95	.....	0.08	0.92	0.96	3.60
66	Total charges collected[4].....1939...dollars....	38,993	164,929	.....	.....	88,537	3,247	2,390
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	825,551	2,300,376	.....	.....	1,822,590	164,212	416
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	43	15	2	133	298	55	4
69	Area irrigated in these enterprises.....1939...acres.....	47,450	44,213	(2)	20,275	109,063	12,157	921
70	Water delivered in these enterprises.....1939...acre-feet..	77,003	62,773	(2)	16,922	371,049	16,321	6,743
71	Average water delivered per acre irrigated.....1939...acre-feet..	1.6	1.4	(2)	0.8	3.4	1.3	7.3
72	Average cost of water per acre irrigated.....1939...dollars....	2.09	3.83	.....	0.16	0.97	0.79	3.60
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	1	2	.....	12	19	.....	1
74	Irrigable area in these enterprises.....1939...acres.....	(2)	(2)	.....	2,642	33,780	.....	(2)
75	Irrigated area in these enterprises.....1939...acres.....	(2)	(2)	.....	1,507	22,615	.....	(2)
76	Area for which drains have been installed.....1939...acres.....	(2)	.....	.....	99	4,400	.....	(2)
77	Additional area needing drainage.....1939...acres.....	.....	(2)	.....	158	2,502	.....	.....

*Census of Agriculture.
[1]Part annexed to San Miguel in 1925.
[2]Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Dolores[1]	Douglas	Eagle	Elbert	El Paso	Fremont	Garfield	Gilpin	
236	417	329	989	1,310	987	980	51	1
194	438	374	1,241	1,463	1,270	1,015	34	2
17	73	307	9	215	815	871	8	3
16	96	290	7	156	1,015	873	2	4
6.2	-24.0	5.9	28.6	37.8	-19.7	-0.2	300.0	5
16	53	228	8	168	622	651	5	6
13	65	214	5	116	818	626	.....	7
1	20	79	1	47	193	220	3	8
3	31	76	2	40	197	247	.....	9
76,888	365,446	231,881	1,067,187	1,124,896	367,478	344,452	20,315	10
8,802	103,971	217,960	43,730	372,705	259,426	301,694	6,965	11
518	1,424	710	4,859	1,734	318	346	871	12
(2)	75,673	191,617	(2)	341,651	242,647	262,907	6,381	13
(2)	1,428	841	(2)	2,034	390	404	1,276	14
(2)	28,298	26,163	(2)	31,054	16,779	38,787	584	15
(2)	1,415	331	(2)	661	87	176	195	16
657,920	539,520	1,078,400	1,192,960	1,381,120	999,680	1,916,160	95,360	17
579	5,041	39,746	801	13,197	22,000	65,557	150	18
444	4,621	30,800	801	11,856	19,996	56,722	150	19
10	400	1,495	.....	733	784	653	.....	20
125	20	7,451	.....	608	1,220	8,182	.....	21
630	6,474	28,221	2,487	20,693	25,655	69,799	.....	22
1,023	8,696	30,025	1,175	18,143	29,884	73,473	.....	23
-8.1	-22.1	40.8	-67.8	-36.2	-14.2	-6.1	.....	24
2,050	8,922	44,419	1,402	22,675	29,043	83,619	175	25
790	9,978	34,576	6,602	34,046	36,873	99,701	.....	26
23,601	15,089	48,026	6,720	35,450	44,059	117,618	.....	27
1,471	3,881	4,673	601	9,478	7,043	18,062	25	28
160	3,504	6,355	4,115	13,353	11,218	29,902	.....	29
1,165	6,566	43,618	1,342	22,112	28,938	80,430	150	30
710	9,557	31,925	6,282	33,911	31,957	80,472	.....	31
2,361	10,391	31,073	1,790	22,047	35,697	93,814	.....	32
66.9	-10.4	36.6	-78.6	-34.8	-9.4	-0.1	.....	33
606	3,525	3,872	541	8,915	6,938	14,873	.....	34
80	3,083	3,704	3,795	13,218	6,302	10,673	.....	35
6.6	4.8	18.2	1.8	3.5	8.5	21.7	2.2	36
12.4	5.9	20.9	20.0	10.5	13.6	33.4	.....	37
48.9	58.8	91.1	59.7	59.7	76.0	81.5	100.0	38
88.7	67.7	88.4	39.6	61.0	80.3	86.7	.....	39
5,445	295,194	551,222	24,317	593,142	1,711,651	2,025,306	2,850	40
5,235	293,814	497,795	23,782	582,746	1,281,995	1,568,654	2,850	41
210	1,380	53,427	535	10,396	429,656	456,652	.....	42
4,530	392,242	566,620	130,450	411,844	945,663	983,360	.....	43
549,070	207,786	285,282	25,561	901,461	1,761,518	1,134,502	.....	44
20.2	-24.7	-2.7	-81.4	44.0	81.0	106.0	.....	45
4.59	34.46	12.64	18.12	26.82	59.15	25.18	19.00	46
6.38	41.04	17.75	20.77	12.14	29.59	12.22	.....	47
232.56	20.00	9.18	14.28	40.89	49.35	12.09	.....	48
9.40	58.56	13.87	30.36	44.95	77.80	30.89	19.00	49
5,445	295,344	553,472	25,232	602,422	1,713,051	2,078,296	3,850	50
4,530	392,642	607,170	130,450	411,844	951,418	988,835	.....	51
729,020	208,286	307,432	39,961	921,461	1,889,558	1,170,827	.....	52
20.2	-24.8	-8.8	-80.7	46.3	80.1	110.2	.....	53
2.66	33.10	12.46	18.00	26.57	58.98	24.85	22.00	54
5.73	39.35	17.56	19.76	12.10	25.80	9.92	.....	55
30.89	13.80	6.40	5.95	25.99	42.89	9.95	.....	56
Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.		Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.		
14 / 2	53 / 1	251 / 1	14	92 / 6	173 / 1	283 / 7	4	57
559 / (2)	4,666 / (2)	38,665 / (2)	751	12,001 / 527	21,845 / (2)	60,758 / 2,403	150	58
734 / (2)	8,288 / (2)	19,195 / (2)	1,434	12,277 / 373	33,439 / (2)	32,597 / 1,106	400	59
1.31 / (2)	1.78 / (2)	0.50 / (2)	1.91	1.02 / 0.71	1.53 / (2)	0.54 / 0.46	2.67	60
0.85 /	2.51 /	0.77 /	1.08	1.21 /	2.90 /	0.91 /	.....	61
..... /	8,210 /	2,963 /	.....	15,203 /	38,195 / 875	35,101 / 700	.....	62
..... /	4.00 /	0.30 /	.....	2.17 /	2.64 / 1.22	0.98 / 0.47	.....	63
..... /	3,550 /	10,019 /	.....	7,464 /	15,112 / 717	40,172 / 1,500	.....	64
..... /	2.31 /	0.30 /	.....	2.04 /	2.53 / 1.22	0.87 / 0.47	.....	65
..... /	4,515 /	120 /	.....	12,412 /	29,519 / 875	19,043 / 700	.....	66
..... /	..... /	11,000 /	.....	266,050 /	68,599 /	37,048 /	.....	67
12 / 1	53 / 1	225 / 1	8	86 / 7	177 / 1	301 / 4	4	68
454 / (2)	4,956 / (2)	34,076 / (2)	661	10,029 / 2,527	18,105 / (2)	61,497 / 1,895	150	69
1,057 / (2)	3,852 / (2)	260,180 / (2)	415	13,790 / 849	54,611 / (2)	281,357 / 5,390	75	70
2.3 / (2)	0.8 / (2)	7.6 / (2)	0.6	1.4 / 0.3	3.0 / (2)	4.6 / 2.8	0.5	71
1.52 / (2)	2.34 / (2)	0.48 / (2)	1.89	2.12 / 0.71	2.05 / (2)	0.78 / 0.42	2.67	72
..... /	..... /	4 /	1	2 /	6 /	2 /	.....	73
..... /	..... /	1,280 /	(2)	(2) /	8,954 /	(2) /	.....	74
..... /	..... /	694 /	(2)	(2) /	5,714 /	(2) /	.....	75
..... /	..... /	..... /	(2)	(2) /	84 /	..... /	.....	76
..... /	..... /	28 /	.....	(2) /	733 /	(2) /	.....	77

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Grand		Gunnison	Hinsdale	Huerfano	Jackson	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number	253		362	34	696	262	
2	1930...number	229		370	44	760	203	
3	Irrigated farms....1940...number	231		294	32	280	211	
4	1930...number	203		299	34	383	176	
5	Increase or decrease (-), 1930-1940....percent	13.8		-1.7	-5.9	-26.9	19.9	
	Operated by—							
6	(a) Owners and managers....1940...number	182		260	29	222	193	
7	1930...number	178		264	30	322	159	
8	(b) Tenants....1940...number	49		34	3	58	18	
9	1930...number	25		35	4	61	17	
10	Land in all farms....1940...acres	288,150		316,201	18,696	540,908	350,789	
11	Land in irrigated farms....1940...acres	277,893		249,510	18,456	289,579	321,898	
12	Average per farm....1940...acres	1,203		849	577	1,034	1,526	
13	(a) Operated by owners and managers....1940...acres	252,901		235,346	17,876	266,245	299,358	
14	Average per farm....1940...acres	1,390		905	616	1,199	1,551	
15	(b) Operated by tenants....1940...acres	24,992		14,164	580	23,334	22,540	
16	Average per farm....1940...acres	510		417	193	402	1,252	
17	Approximate land area....1940...acres	1,194,880		2,074,880	676,480	1,009,920	1,038,720	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	38,939		69,042	4,605	18,816	154,279	
19	(a) Cropland harvested....1939...acres	33,702		46,553	3,712	15,901	111,190	
20	(b) Crop failure....1939...acres	192		278	140	1,507	.....	
21	(c) Pasture....1939...acres	5,045		22,211	753	1,408	43,089	
22	Area irrigated....1929...acres	28,649		41,474	5,212	30,974	113,840	
23	1919...acres	39,857		48,280	3,675	29,081	136,942	
24	Increase or decrease (-), 1929-1939....percent	35.9		66.5	-11.6	-39.3	35.5	
25	Irrigable area in enterprises....1940...acres	59,410		77,377	4,966	27,456	181,240	
26	1930...acres	55,255		49,811	6,603	46,260	162,730	
27	1920[3]...acres	85,504		67,925	4,065	43,274	229,203	
28	Excess of irrigable area over the area irrigated...1940...acres	20,471		8,335	361	8,840	26,961	
29	1930...acres	26,606		8,337	1,391	15,286	48,890	
30	Area works were capable of supplying with water...1940...acres	51,685		76,150	4,825	25,169	168,475	
31	1930...acres	42,343		48,080	5,984	44,129	140,475	
32	1920...acres	43,092		52,467	3,860	32,119	149,325	
33	Increase or decrease (-), 1930-1940....percent	22.1		58.4	-19.4	-43.0	19.9	
34	Excess, capability of works over area irrigated...1940...acres	12,746		7,108	220	6,353	14,196	
35	1930...acres	13,694		6,606	772	13,155	26,635	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	14.0		27.7	25.0	6.5	47.9	
37	1929...percent	14.3		22.7	33.3	10.3	37.6	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	75.3		90.7	95.4	74.8	91.6	
39	1929...percent	67.7		86.3	87.1	70.2	81.0	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	549,749		549,996	30,925	270,442	789,860	
41	(a) Cost of irrigation works and equipment....1940...dollars	514,283		509,236	25,505	236,792	760,945	
42	(b) Investment in water rights (reported)....1940...dollars	35,466		40,760	5,420	33,650	28,915	
43	Total investment in all enterprises....1930...dollars	372,095		358,025	1,269,972	283,324	695,090	
44	1920...dollars	534,913		462,748	395,752	1,061,777	784,326	
45	Increase or decrease (-), 1930-1940....percent	47.7		53.6	-97.6	-4.5	13.6	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	10.64		7.22	6.41	10.75	4.69	
47	1930...dollars	8.79		7.45	212.23	6.42	4.95	
48	1920...dollars	12.41		8.82	102.00	33.06	5.25	
49	Average investment per acre irrigated....1939...dollars	14.12		7.97	6.72	14.37	5.12	
50	Estimated final investment in existing enterprises...1940...dollars	605,549		561,691	31,575	290,842	804,735	
51	1930...dollars	405,045		364,575	1,319,972	287,824	963,030	
52	1920...dollars	547,713		472,998	395,752	1,083,232	1,043,826	
53	Increase or decrease (-), 1930-1940....percent	49.5		54.1	-97.6	1.0	-16.4	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	10.19		7.26	6.36	10.59	4.44	
55	1930...dollars	7.33		7.32	199.90	6.22	5.92	
56	1920[3]...dollars	6.41		6.96	97.36	25.03	4.55	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises				Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	190	3	278	32	202	205	1
58	Area irrigated in these enterprises....1939...acres	38,217	655	66,526	4,465	18,276	152,343	(4)
59	Cost of maintenance and operation....1939...dollars	25,398	65	25,667	1,761	9,663	48,590	(4)
60	Average cost, per acre irrigated....1939...dollars	0.66	0.10	0.39	0.39	0.53	0.32	(4)
61	1929...dollars	0.37	.....	0.45	4.04	0.63	0.29	.....
62	Total annual charges (reported)[5 6]....1939...dollars	2,393	.....	2,732	.....	2,325	1,250	.....
63	Average annual charge per acre irrigated....1939...dollars	0.41	.....	0.18	.....	0.41	0.08	.....
64	Area against which charges were assessed....1939...acres	11,170	.....	15,307	.....	5,673	18,535	.....
65	Average annual charge per acre assessed....1939...dollars	0.21	.....	0.18	.....	0.41	0.07	.....
66	Total charges collected[5]....1939...dollars	1,020	.....	389	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	159	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	195	2	264	28	186	209	1
69	Area irrigated in these enterprises....1939...acres	38,824	(4)	62,685	4,325	16,066	142,260	(4)
70	Water delivered in these enterprises....1939...acre-feet	231,408	(4)	444,757	6,027	22,118	430,990	(4)
71	Average water delivered per acre irrigated....1939...acre-feet	6.0	(4)	7.1	1.4	1.4	3.0	(4)
72	Average cost of water per acre irrigated....1939...dollars	0.69	(4)	0.38	0.36	0.55	0.33	(4)
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	8	.....	3	.....	3	1	.....
74	Irrigable area in these enterprises....1939...acres	1,035	.....	1,278	.....	159	(4)	.....
75	Irrigated area in these enterprises....1939...acres	1,030	.....	1,278	.....	159	(4)	.....
76	Area for which drains have been installed....1939...acres	50	.....	5	.....	.....	(4)	.....
77	Additional area needing drainage....1939...acres	152	.....	235	.....	14	(4)	.....

* Census of Agriculture.
[1] Includes statistics for 2 farms reported for San Juan County in 1930 and 4 farms in 1940 to avoid disclosure of individual operations.
[2] Percent not shown when more than 1,000.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Jefferson	Kiowa	Lake	La Plata[1]	Larimer	Las Animas	Lincoln	Logan	
1,763	454	29	1,046	1,825	1,281	834	1,575	1
1,817	579	44	1,161	1,838	1,758	1,232	1,845	2
1,254	37	26	777	1,518	482	16	604	3
1,320	3	27	871	1,499	531	7	617	4
-5.0	(2)	-3.7	-10.8	1.3	-9.2	128.6	-2.1	5
933	29	21	510	865	313	13	223	6
1,052	3	20	565	916	332	5	258	7
321	8	5	267	653	169	3	381	8
268	.....	7	306	583	199	2	359	9
267,316	629,831	16,629	371,522	709,361	1,982,361	1,405,422	1,041,707	10
126,878	38,630	16,187	256,426	568,104	709,917	100,744	324,030	11
101	1,044	623	330	374	1,473	6,296	536	12
98,063	32,566	14,400	199,466	448,475	622,868	88,144	206,713	13
105	1,123	686	391	518	1,990	6,780	927	14
28,815	6,064	1,787	56,960	119,629	87,049	12,600	117,317	15
90	758	357	213	183	515	4,200	308	16
503,040	1,146,880	243,200	1,080,960	1,676,160	3,068,160	1,659,520	1,169,280	17
49,655	104	8,506	75,218	149,652	31,760	244	100,175	18
46,993	63	4,349	62,061	139,588	21,902	119	94,031	19
1,060	41	5	1,843	7,811	2,343	.....	2,327	20
1,602	.....	4,152	11,294	2,253	7,515	125	3,817	21
58,124	270	4,242	94,532	173,078	32,092	185	111,378	22
70,788	418	6,397	63,755	169,356	40,400	.....	85,079	23
-14.6	-61.5	100.5	-20.4	-13.5	-1.0	31.9	-10.1	24
53,421	5,125	9,076	117,510	160,239	50,274	569	115,563	25
60,607	1,485	4,242	131,706	183,571	54,071	930	127,318	26
77,937	17,283	10,449	111,462	196,330	50,987	.....	124,415	27
3,766	5,021	570	42,292	10,587	18,514	325	15,388	28
2,483	1,215	.....	37,174	10,493	21,979	745	15,940	29
53,299	5,125	9,076	93,069	156,820	49,704	569	114,788	30
58,700	1,005	4,242	117,186	180,879	48,153	450	123,616	31
73,635	2,083	7,088	78,227	188,047	43,857	.....	105,916	32
-9.2	410.0	114.0	-20.6	-13.3	3.2	26.4	-7.1	33
3,644	5,021	570	17,851	7,168	17,944	325	14,613	34
576	735	.....	22,654	7,801	16,061	265	12,238	35
39.1	0.3	52.5	29.3	26.3	4.5	0.2	30.9	36
52.4	2.8	28.2	38.6	32.2	5.1	0.2	42.7	37
93.2	2.0	93.7	80.8	95.4	63.9	42.9	87.3	38
99.0	26.9	100.0	80.7	95.7	66.6	41.1	90.1	39
1,585,792	90,755	16,524	1,875,095	6,713,002	1,217,954	14,975	3,528,970	40
1,534,635	90,455	15,770	1,743,643	6,618,175	1,067,857	14,975	3,504,785	41
51,157	300	754	131,452	94,827	150,097	.....	24,185	42
2,500,326	325,800	8,970	1,039,896	7,514,401	2,058,902	2,950	3,072,572	43
1,231,205	251,500	33,696	938,864	6,236,866	401,720	.....	3,593,889	44
-36.6	-72.1	84.2	80.3	-10.7	-40.8	407.6	14.9	45
29.75	17.71	1.82	20.15	42.81	24.50	26.32	30.74	46
42.59	324.18	2.11	8.87	41.54	42.76	6.56	24.86	47
16.72	120.74	4.75	12.00	33.17	9.16	.....	33.93	48
31.94	872.64	1.94	24.93	44.86	38.35	61.37	35.23	49
1,586,057	90,755	16,524	2,703,140	6,729,136	1,221,096	14,975	3,535,220	50
2,510,326	335,800	8,970	1,240,216	7,516,971	2,319,602	2,950	3,081,072	51
1,268,125	337,200	33,696	978,214	6,473,663	455,470	.....	3,596,039	52
-36.8	-73.0	84.2	118.0	-10.5	-47.4	407.6	14.7	53
29.69	17.71	1.82	23.00	41.99	24.29	26.32	30.59	54
41.42	226.13	2.11	9.42	40.95	42.90	3.17	24.20	55
16.27	19.51	3.22	8.78	32.97	8.93	.....	28.90	56

Jefferson		Kiowa	Lake	La Plata[1]		Larimer		Las Animas		Lincoln	Logan		
Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
58	10	20	22	171	12	184	68	171	4	5	58	54	57
48,729	2,573	104	6,731	74,497	1,355	148,895	29,407	30,896	147	205	99,771	30,331	58
42,755	515	763	1,647	45,147	691	92,801	33,231	26,007	290	725	89,988	14,202	59
0.88	0.20	7.34	0.24	0.61	0.51	0.62	1.13	0.84	1.97	3.54	0.90	0.47	60
1.93	.....	15.56	0.22	0.60	.....	1.09	.....	1.22	.....	2.90	0.66	.....	61
41,372	201	.....	.....	32,683	503	175,063	25,484	21,426	.....	.....	60,700	4,655	62
0.88	0.08	.....	.....	0.47	0.69	1.29	1.00	0.94	.....	.....	0.65	0.19	63
49,261	2,510	.....	.....	79,323	1,070	138,450	25,470	23,127	.....	.....	105,293	24,433	64
0.84	0.08	.....	.....	0.41	0.47	1.26	1.00	0.93	.....	.....	0.58	0.19	65
44,825	300	.....	.....	33,210	499	180,763	25,997	15,649	.....	.....	60,000	4,144	66
115,349	.....	.....	.....	44,305	.....	1,137,174	171,525	120,770	.....	.....	33,793	.....	67
49	9	16	23	118	6	186	60	170	4	7	56	53	68
41,836	2,573	104	8,390	64,914	600	148,336	29,358	30,362	147	244	99,762	30,411	69
69,383	1,420	80	31,670	170,589	1,581	193,359	26,905	39,281	82	979	185,008	17,500	70
1.7	0.6	0.8	3.8	2.6	2.6	1.3	0.9	1.3	0.6	4.0	1.9	0.6	71
1.01	0.22	6.72	0.26	0.48	0.34	1.27	1.25	0.91	1.97	3.54	0.67	0.51	72
2	.....	.....	1	3	.....	26	.....	7	.....	.....	4	.....	73
(4)	.....	.....	(4)	17,067	.....	15,574	.....	2,565	.....	.....	51,324	.....	74
(4)	.....	.....	(4)	6,876	.....	14,813	.....	2,184	.....	.....	39,082	.....	75
.....	.....	.....	.....	1	.....	13,442	.....	.....	.....	.....	5,817	.....	76
(4)	.....	.....	(4)	410	.....	148	.....	43	.....	.....	2,600	.....	77

[4] Data are included only in State total because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Mesa		Mineral	Moffat	Montezuma		Montrose	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]								
1	All farms....1940...number....	2,652		49	527	1,043		1,426	
2	1930...number....	2,665		50	797	978		1,318	
3	Irrigated farms....1940...number....	2,472		37	188	708		1,364	
4	1930...number....	2,413		32	167	626		1,238	
5	Increase or decrease (-), 1930-1940....percent....	2.4		15.6	12.6	13.1		10.2	
	Operated by—								
6	(a) Owners and managers....1940...number....	1,990		33	154	504		880	
7	1930...number....	1,909		29	131	438		770	
8	(b) Tenants....1940...number....	482		4	34	204		484	
9	1930...number....	504		3	36	188		468	
10	Land in all farms....1940...acres....	422,592		27,348	904,008	261,841		281,129	
11	Land in irrigated farms....1940...acres....	338,190		23,928	449,558	160,475		267,837	
12	Average per farm....1940...acres....	137		647	2,391	227		196	
13	(a) Operated by owners and managers....1940...acres....	295,010		22,813	421,293	119,022		214,693	
14	Average per farm....1940...acres....	148		691	2,736	236		244	
15	(b) Operated by tenants....1940...acres....	43,180		1,115	28,265	41,453		53,144	
16	Average per farm....1940...acres....	90		279	831	203		110	
17	Approximate land area....1940...acres....	2,120,320		589,440	3,042,560	1,340,800		1,432,960	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres....	106,385		6,208	19,384	48,453		86,837	
19	(a) Cropland harvested....1939...acres....	91,635		4,226	15,939	42,017		73,957	
20	(b) Crop failure....1939...acres....	552		.....	428	840		321	
21	(c) Pasture....1939...acres....	14,198		1,982	3,017	5,596		12,559	
22	Area irrigated....1929...acres....	136,488		2,563	17,938	62,146		84,058	
23	1919...acres....	102,607		6,865	17,439	44,083		94,757	
24	Increase or decrease (-), 1929-1939....percent....	-22.1		142.2	8.1	-22.0		3.3	
25	Irrigable area in enterprises....1940...acres....	155,868		7,245	27,828	83,298		138,196	
26	1930...acres....	209,308		5,015	35,631	98,078		114,648	
27	1920[3]...acres....	185,177		14,770	32,327	80,216		173,162	
28	Excess of irrigable area over the area irrigated...1940...acres....	49,483		1,037	8,444	34,845		51,359	
29	1930...acres....	72,820		2,452	17,693	35,932		30,590	
30	Area works were capable of supplying with water...1940...acres....	140,395		7,160	24,204	55,495		116,360	
31	1930...acres....	177,904		3,172	29,821	83,203		105,100	
32	1920...acres....	140,104		9,950	24,224	44,795		123,905	
33	Increase or decrease (-), 1930-1940....percent....	-21.1		125.7	-18.8	-33.3		10.7	
34	Excess, capability of works over area irrigated...1940...acres....	34,010		952	4,820	7,042		29,523	
35	1930...acres....	41,416		609	11,883	21,057		21,042	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	31.5		25.9	4.3	30.2		32.4	
37	1929...percent....	50.5		12.3	9.5	43.5		42.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	75.8		86.7	80.1	87.3		74.6	
39	1929...percent....	76.7		80.8	60.2	74.7		80.0	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars....	5,848,890		22,420	304,545	4,883,337		7,926,549	
41	(a) Cost of irrigation works and equipment....1940...dollars....	5,799,571		22,355	300,790	4,780,954		7,912,762	
42	(b) Investment in water rights (reported)....1940...dollars....	49,319		65	3,755	102,383		13,787	
43	Total investment in all enterprises....1930...dollars....	6,620,956		24,250	381,417	4,932,595		6,944,017	
44	1920...dollars....	7,319,055		81,683	366,301	1,846,679		6,788,758	
45	Increase or decrease (-), 1930-1940....percent....	-11.7		-7.5	-20.2	-1.0		14.1	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	41.66		3.13	12.58	88.00		68.12	
47	1930...dollars....	37.22		7.65	12.79	59.28		66.07	
48	1920...dollars....	52.24		8.21	15.12	41.23		54.79	
49	Average investment per acre irrigated....1939...dollars....	54.98		3.61	15.71	100.79		91.28	
50	Estimated final investment in existing enterprises...1940...dollars....	6,313,115		22,975	327,335	5,100,762		8,160,528	
51	1930...dollars....	7,273,473		32,050	388,497	5,959,445		7,139,617	
52	1920...dollars....	8,155,335		102,243	386,226	2,446,679		7,286,466	
53	Increase or decrease (-), 1930-1940....percent....	-13.2		-28.3	-15.7	-14.4		14.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	40.50		3.17	11.76	61.24		59.05	
55	1930...dollars....	34.75		6.39	10.90	60.76		62.27	
56	1920[3]...dollars....	44.04		6.92	11.95	30.50		42.08	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number....	254	35	31	119	115	3	100	2
58	Area irrigated in these enterprises....1939...acres....	103,678	19,531	3,745	18,391	47,815	457	86,275	(1)
59	Cost of maintenance and operation....1939...dollars....	138,205	42,326	1,063	18,734	49,966	730	114,194	(1)
60	Average cost, per acre irrigated....1939...dollars....	1.33	2.17	0.28	1.02	1.04	1.60	1.32	(1)
61	1929...dollars....	1.24	.....	1.83	1.70	1.07	.....	1.76	.....
62	Total annual charges (reported)[5 6]....1939...dollars....	121,685	34,399	25	2,688	63,003	700	123,502	.....
63	Average annual charge per acre irrigated....1939...dollars....	1.48	2.26	0.25	0.49	1.51	1.75	1.56	.....
64	Area against which charges were assessed....1939...acres....	85,247	16,925	100	6,764	45,670	400	91,165	.....
65	Average annual charge per acre assessed....1939...dollars....	1.43	2.03	0.25	0.40	1.38	1.75	1.35	.....
66	Total charges collected[5]....1939...dollars....	100,477	46,035	.....	3,202	50,191	.....	105,000	9,985
67	Indebtedness to December 31 (reported)[6]....1939...dollars....	2,763,172	821,515	.....	7,701	85,075	.....	5,881,546	166,000
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number....	245	32	40	129	78	1	90	3
69	Area irrigated in these enterprises....1939...acres....	98,280	19,301	6,208	18,146	44,789	(1)	82,470	2,811
70	Water delivered in these enterprises....1939...acre-feet..	439,172	51,931	10,979	35,434	115,735	(1)	412,512	5,343
71	Average water delivered per acre irrigated....1939...acre-feet..	4.5	2.7	1.8	2.0	2.6	(1)	5.0	1.9
72	Average cost of water per acre irrigated....1939...dollars....	1.29	1.90	0.29	1.07	1.44	(1)	1.53	0.11
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number....	14	.....	.....	1	2	.....	13	.....
74	Irrigable area in these enterprises....1939...acres....	53,622	.....	.....	(1)	(1)	.....	94,090	.....
75	Irrigated area in these enterprises....1939...acres....	30,788	.....	.....	(1)	(1)	.....	57,245	.....
76	Area for which drains have been installed....1939...acres....	14,523	.....	.....	.....	.....	.....	13,437	.....
77	Additional area needing drainage....1939...acres....	909	.....	.....	(1)	(1)	.....	4,726	.....

[a] Census of Agriculture.

[1] Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

	Morgan	Otero	Ouray	Park	Phillips	Pitkin	Prowers	
	1,349	1,189	153	306	626	169	1,022	1
	1,569	1,298	178	394	766	180	1,382	2
	848	1,037	136	148	2	150	713	3
	845	1,120	156	125	.....	154	729	4
	0.4	-7.4	-12.8	18.4	.....	-2.6	-2.2	5
	369	532	106	119	(1)	128	303	6
	388	596	124	104	.....	123	327	7
	479	505	30	29	(1)	22	410	8
	457	524	32	21	.....	31	402	9
	625,903	[2]976,398	133,868	563,129	417,696	70,018	499,935	10
	245,929	188,742	126,558	444,559	(1)	66,343	270,535	11
	290	182	931	3,004	(1)	442	379	12
	153,354	126,924	107,632	404,530	(1)	57,984	169,370	13
	416	239	1,015	3,399	(1)	453	559	14
	92,575	61,818	18,926	40,029	(1)	8,359	101,165	15
	193	122	631	1,380	(1)	380	247	16
	820,480	810,880	345,600	1,386,240	435,200	623,360	1,040,640	17
	110,293	81,298	16,663	41,881	350	17,761	86,831	18
	98,658	71,508	13,618	39,255	330	13,153	83,940	19
	11,037	5,013	492	254	.....	158	1,355	20
	598	4,777	2,553	2,372	20	4,450	1,536	21
	105,277	87,981	20,401	44,038	.....	17,501	111,634	22
	132,231	120,198	14,016	49,793	.....	12,994	76,322	23
	4.8	-7.6	-18.3	-4.9	.....	1.5	-22.2	24
	118,219	87,534	27,741	46,727	450	20,013	103,692	25
	126,196	119,646	31,430	46,795	.....	25,612	131,195	26
	166,670	183,077	24,017	55,449	.....	21,295	99,213	27
	7,926	6,236	11,078	4,846	100	2,252	16,861	28
	20,919	31,665	11,029	2,757	.....	8,111	19,561	29
	117,143	87,356	22,915	45,438	450	19,984	102,002	30
	115,333	106,066	23,431	45,570	.....	25,118	126,955	31
	153,796	124,879	23,092	52,029	.....	15,172	81,508	32
	1.6	-17.6	-2.2	-0.3	.....	-20.4	-19.7	33
	6,850	6,058	6,252	3,557	100	2,223	15,171	34
	10,056	18,085	3,030	1,532	.....	7,617	15,321	35
	44.8	43.1	13.2	9.4	43.8	26.8	32.1	36
	48.7	43.3	21.3	12.1	.....	34.8	66.2	37
	94.2	93.1	72.7	92.2	77.8	88.9	85.1	38
	91.3	82.9	87.1	96.6	.....	69.7	87.9	39
	7,205,136	2,700,860	213,145	199,077	10,667	248,679	3,817,541	40
	5,668,690	2,676,649	198,240	194,444	10,667	232,495	3,805,751	41
	1,536,446	24,211	14,905	4,633	.....	16,184	11,790	42
	2,784,109	2,782,085	213,491	211,435	.....	300,660	2,319,500	43
	2,600,735	4,157,535	197,689	175,670	.....	208,324	1,160,422	44
	158.8	-2.9	-0.2	-5.8	.....	-17.3	64.6	45
	61.51	30.92	9.30	4.38	23.70	12.44	37.43	46
	24.14	26.23	9.11	4.64	.....	11.97	18.27	47
	16.91	33.29	8.56	3.38	.....	13.73	14.24	48
	65.33	33.22	12.79	4.75	30.48	14.00	43.97	49
	7,213,096	2,707,360	216,100	203,008	10,667	249,179	3,822,841	50
	2,804,109	2,788,085	216,016	211,485	.....	309,060	2,319,825	51
	2,604,785	4,438,935	197,758	176,080	.....	214,324	1,163,412	52
	157.2	-2.9	(4)	-4.0	.....	-19.4	64.8	53
	61.01	30.93	7.79	4.34	23.70	12.45	36.87	54
	22.22	23.30	6.87	4.52	.....	12.07	17.68	55
	15.63	24.25	8.23	3.18	.....	10.06	11.73	56
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.		Primary	Sup.	Primary	Sup.	
Enterprises		Enterprises		Enterprises		Enterprises			Enterprises		Enterprises		
120	122	53	93	107	5	139	2	3	116	2	40	22	57
110,293	83,023	81,287	5,767	16,663	669	41,593	(1)	350	17,379	(1)	86,731	2,088	58
115,087	64,254	65,026	9,812	5,083	253	15,334	(1)	1,251	8,113	(1)	60,373	2,992	59
1.04	0.77	0.80	1.70	0.31	0.38	0.37	(1)	3.57	0.47	(1)	0.70	1.43	60
1.15	.....	0.73	.....	0.46	.....	0.30	.....	.....	0.84	.....	0.80	.....	61
149,418	13,323	77,941	4,902	2,533	.....	.....	278	.....	1,765	.....	92,851	.....	62
1.56	0.20	0.97	2.85	0.29	.....	.....	0.08	.....	0.49	.....	1.08	.....	63
96,224	66,318	84,423	1,720	10,172	.....	.....	3,700	.....	3,570	.....	90,116	.....	64
1.55	0.20	0.92	2.85	0.25	.....	.....	0.08	.....	0.49	.....	1.03	.....	65
152,851	12,711	92,957	.....	1,723	.....	.....	.....	.....	.....	.....	97,806	.....	66
672,382	.....	432,595	.....	.....	.....	.....	.....	.....	.....	.....	168,951	.....	67
114	121	47	94	98	5	147	2	2	109	.....	44	22	68
110,293	83,023	79,298	5,771	14,987	669	41,876	(1)	(1)	17,255	.....	86,791	2,088	69
222,144	79,357	205,044	4,863	63,290	3,289	158,484	(1)	(1)	119,262	.....	133,220	2,847	70
2.0	1.0	2.6	0.8	4.2	4.9	3.8	(1)	(1)	6.9	.....	1.5	1.4	71
1.72	0.78	1.02	2.17	0.39	0.38	0.37	(1)	(1)	0.47	.....	1.09	1.43	72
2	.....	3	.....	2	.....	3	.....	1	.....	.....	8	.....	73
(1)	.....	15,476	.....	(1)	.....	284	.....	(1)	.....	.....	63,231	.....	74
(1)	.....	15,426	.....	(1)	.....	231	.....	(1)	.....	.....	50,428	.....	75
(1)	.....	3,065	.....	.....	.....	.....	.....	(1)	.....	.....	13,577	.....	76
.....	.....	500	.....	(1)	.....	150	.....	.....	.....	.....	664	.....	77

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Less than one-tenth of 1 percent.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Pueblo		Rio Blanco		Rio Grande		Routt	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number	1,193		339		675		829	
2	1930...number	1,473		433		730		928	
3	Irrigated farms....1940...number	836		215		619		458	
4	1930...number	935		234		692		453	
5	Increase or decrease (-), 1930-1940....percent	-10.6		-8.1		-10.5		1.1	
	Operated by—								
6	(a) Owners and managers....1940...number	549		177		392		330	
7	1930...number	622		194		419		306	
8	(b) Tenants....1940...number	287		38		227		128	
9	1930...number	313		40		273		147	
10	Land in all farms....1940...acres	797,883		468,398		197,941		575,216	
11	Land in irrigated farms....1940...acres	390,433		352,513		184,704		436,214	
12	Average per farm....1940...acres	467		1,640		298		952	
13	(a) Operated by owners and managers....1940...acres	316,250		332,079		127,462		356,991	
14	Average per farm....1940...acres	576		1,876		325		1,082	
15	(b) Operated by tenants....1940...acres	74,183		20,434		57,242		79,223	
16	Average per farm....1940...acres	258		538		252		619	
17	Approximate land area....1940...acres	1,536,640		2,088,320		586,240		1,491,200	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	48,828		37,068		176,334		47,524	
19	(a) Cropland harvested....1939...acres	43,923		32,644		159,055		41,272	
20	(b) Crop failure....1939...acres	3,446		381		2,632		594	
21	(c) Pasture....1939...acres	1,459		4,043		14,647		5,658	
22	Area irrigated....1929...acres	69,211		30,526		161,191		58,839	
23	1919...acres	75,454		28,046		206,258		50,735	
24	Increase or decrease (-), 1929-1939....percent	-29.5		21.4		9.4		-19.2	
25	Irrigable area in enterprises....1940...acres	105,245		45,127		225,700		70,040	
26	1930...acres	123,567		39,416		186,267		87,022	
27	1920[6]...acres	142,594		45,579		293,162		92,148	
28	Excess of irrigable area over the area irrigated...1940...acres	56,417		8,059		49,366		22,516	
29	1930...acres	54,356		8,890		25,076		28,183	
30	Area works were capable of supplying with water...1940...acres	90,692		42,860		214,774		59,911	
31	1930...acres	97,122		34,438		172,997		77,571	
32	1920...acres	88,699		32,742		227,167		61,123	
33	Increase or decrease (-), 1930-1940....percent	-6.6		24.5		24.1		-22.8	
34	Excess, capability of works over area irrigated...1940...acres	41,864		5,792		38,440		12,387	
35	1930...acres	27,911		3,912		11,806		18,732	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	12.5		10.5		95.5		10.9	
37	1929...percent	9.2		14.6		82.4		21.4	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	53.8		86.5		82.1		79.3	
39	1929...percent	71.3		88.6		93.2		75.9	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	2,365,651		549,585		4,784,002		594,175	
41	(a) Cost of irrigation works and equipment....1940...dollars	2,337,901		531,085		4,490,383		553,109	
42	(b) Investment in water rights (reported)....1940...dollars	27,750		18,500		293,619		41,066	
43	Total investment in all enterprises....1930...dollars	2,459,925		488,770		1,357,907		523,065	
44	1920...dollars	3,645,462		355,617		981,136		572,873	
45	Increase or decrease (-), 1930-1940....percent	-3.8		12.4		252.3		13.6	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	26.08		12.62		22.27		9.92	
47	1930...dollars	25.33		14.19		7.85		6.74	
48	1920...dollars	41.10		10.86		4.32		9.37	
49	Average investment per acre irrigated....1939...dollars	48.45		14.63		27.13		12.50	
50	Estimated final investment in existing enterprises...1940...dollars	2,415,045		557,230		4,820,130		833,120	
51	1930...dollars	2,748,525		515,990		1,358,007		532,240	
52	1920...dollars	3,919,262		372,882		982,914		613,908	
53	Increase or decrease (-), 1930-1940....percent	-12.1		8.0		254.9		56.5	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	22.95		12.35		21.36		11.89	
55	1930...dollars	22.24		13.09		7.29		6.12	
56	1920[6]...dollars	27.49		8.18		3.35		6.66	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number	174	93	142	4	190	148	253	6
58	Area irrigated in these enterprises....1939...acres	48,512	4,527	36,153	576	174,378	88,199	38,742	2,429
59	Cost of maintenance and operation....1939...dollars	69,599	10,749	20,152	111	55,352	67,938	19,986	248
60	Average cost, per acre irrigated....1939...dollars	1.43	2.37	0.56	0.19	0.32	0.77	0.52	0.10
61	1929...dollars	1.41	.....	1.23	.....	0.25	.....	0.33	.....
62	Total annual charges (reported)[6] [7]....1939...dollars	67,554	5,153	4,500	.....	37,105	11,163	9,594	150
63	Average annual charge per acre irrigated....1939...dollars	1.88	2.45	0.32	.....	0.24	0.14	0.77	0.08
64	Area against which charges were assessed....1939...acres	45,922	2,105	16,389	.....	160,741	77,300	12,643	2,000
65	Average annual charge per acre assessed....1939...dollars	1.47	2.45	0.27	.....	0.23	0.14	0.76	0.08
66	Total charges collected[6]....1939...dollars	70,825	400	778	.....	31,682	8,548	2,000	150
67	Indebtedness to December 31 (reported)[7]....1939...dollars	210,521	.....	750	.....	1,327,327	201,150	80,950	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	171	87	141	3	197	139	306	11
69	Area irrigated in these enterprises....1939...acres	48,600	4,491	36,643	576	175,897	87,613	42,761	2,710
70	Water delivered in these enterprises....1939...acre-feet	96,000	4,941	142,797	992	286,873	41,074	158,656	2,874
71	Average water delivered per acre irrigated....1939...acre-feet	2.0	1.1	3.9	1.7	1.6	0.5	3.7	1.1
72	Average cost of water per acre irrigated....1939...dollars	1.55	2.73	0.55	0.19	0.37	0.70	0.45	0.10
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	7	.....	4	.....	4	.....	3	.....
74	Irrigable area in these enterprises....1939...acres	1,875	.....	2,475	.....	20,433	.....	2,660	.....
75	Irrigated area in these enterprises....1939...acres	949	.....	1,960	.....	14,387	.....	2,520	.....
76	Area for which drains have been installed....1939...acres	.....	.....	2	.....	6,080	.....	.....	.....
77	Additional area needing drainage....1939...acres	130	.....	465	.....	10,000	.....	245	.....

* Census of Agriculture.
[1] Part of Dolores County annexed in 1925.
[2] Data between census years not comparable (see headnote).
[3] Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Saguache	San Miguel[1]	Sedgwick	Summit	Teller	Washington	Weld	Yuma	All other counties[2]	
505	178	505	59	246	1,439	4,512	1,765	1,644	1
557	263	560	61	238	1,753	5,457	2,113	2,255	2
422	104	157	55	37	69	3,298	48	2	3
416	115	161	52	12	68	3,612	49	6	4
1.4	-9.6	-2.5	5.8	208.3	1.5	-8.7	-2.0	-66.7	5
268	80	71	43	26	35	1,314	34	.....	6
280	85	64	47	12	37	1,443	37	20	7
154	24	86	12	11	34	1,984	14	(3)	8
136	30	97	5	.....	31	2,169	12	4	9
465,726	169,458	288,736	42,098	145,509	1,301,288	1,934,146	1,440,494	1,746,738	10
420,128	72,389	52,560	39,815	43,087	28,914	654,857	51,087	(3)	11
896	696	335	724	1,165	419	199	1,064	(3)	12
367,751	66,882	32,736	34,546	36,173	23,191	309,632	49,876	.....	13
1,372	836	461	803	1,391	663	236	1,202	.....	14
52,377	5,507	19,824	5,269	6,914	5,723	345,225	10,211	(3)	15
340	229	231	439	629	168	174	729	(3)	16
2,012,160	821,120	348,160	393,600	354,560	1,616,000	2,562,560	1,525,120	2,774,400	17
147,782	24,250	21,741	8,941	905	9,792	418,619	2,726	94	18
123,431	19,465	21,500	8,140	812	9,309	405,852	2,372	94	19
257	180	41	60	53	483	5,139	115	.....	20
24,094	4,605	200	741	40	.....	7,628	239	.....	21
163,815	18,249	22,375	9,204	550	11,120	443,915	2,725	1,164	22
137,581	18,634	21,510	9,831	1,464	9,335	382,701	8,254	794	23
-9.8	32.9	-2.8	-2.9	64.5	-11.9	-5.7	(4)	91.9	24
189,223	82,405	22,200	9,863	1,338	10,150	516,192	4,318	124	25
184,412	53,945	24,580	11,354	695	11,755	568,407	3,970	1,298	26
271,932	44,749	24,050	15,222	1,944	10,095	567,392	15,242	2,324	27
41,441	58,155	459	922	433	358	97,573	1,592	30	28
20,597	35,696	2,205	2,150	145	635	124,492	1,245	134	29
187,128	32,574	22,200	9,673	1,311	10,100	487,778	3,982	124	30
178,052	21,661	23,985	11,354	630	11,705	499,675	3,805	1,273	31
153,391	22,811	23,050	10,986	1,540	10,095	395,444	10,182	1,394	32
5.1	50.4	-7.4	-14.8	108.1	-13.7	-2.4	4.7	90.3	33
39,346	8,324	459	732	406	308	69,159	1,256	30	34
14,237	3,412	1,610	2,150	80	585	55,760	1,080	109	35
35.2	33.5	41.4	22.5	2.1	33.9	63.9	5.3	2.3	36
40.9	19.8	23.8	31.9	4.3	40.4	58.3	7.5	4.2	37
79.0	74.4	97.9	92.4	69.0	97.0	65.8	68.5	75.8	38
92.0	84.2	93.3	81.1	87.3	95.0	88.8	71.6	91.4	39
1,967,656	367,890	655,085	119,259	4,721	379,816	16,483,611	31,570	1,850	40
1,737,503	364,475	630,085	102,440	4,281	341,015	16,146,294	26,120	1,725	41
230,153	3,415	25,000	16,819	440	38,801	337,317	5,450	125	42
587,609	550,484	802,360	84,960	3,965	988,116	12,621,370	43,200	12,350	43
450,609	676,100	716,215	103,581	12,141	78,966	16,417,224	83,908	89,094	44
234.7	-33.2	-18.4	40.4	19.1	-61.6	30.6	-26.9	-85.0	45
10.52	11.29	29.51	12.33	3.60	37.61	33.79	7.93	14.92	46
3.30	25.41	33.45	7.48	6.29	84.42	25.26	11.35	9.70	47
2.94	29.64	31.07	9.43	7.88	7.82	41.52	8.24	63.91	48
13.31	15.17	30.13	13.34	5.22	38.79	39.38	11.58	19.68	49
1,968,801	479,880	656,185	122,519	6,026	381,716	16,600,836	31,895	1,850	50
588,409	672,644	802,860	84,960	3,965	992,116	13,144,670	43,500	12,350	51
531,614	797,700	716,215	103,631	12,141	80,166	18,892,937	89,908	90,994	52
234.6	-28.7	-18.3	44.2	52.0	-61.5	26.3	-26.7	-85.0	53
10.40	5.82	29.56	12.42	4.50	37.61	32.16	7.39	14.92	54
3.19	12.47	32.66	7.48	5.71	84.40	23.13	10.96	9.51	55
1.95	17.83	29.78	6.81	6.25	7.94	33.30	5.11	39.15	56
Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises				Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises			
175	12	39	10	9	54	39	10	22	366	502	22	1	2	57
112,225	33,045	24,250	21,696	673	8,741	903	9,792	9,358	416,581	202,719	2,706	(3)	(3)	58
29,620	6,705	5,364	18,809	1,228	7,719	1,044	4,765	8,663	285,529	186,070	2,540	(3)	(3)	59
0.26	0.20	0.22	0.87	1.82	0.88	1.16	0.49	0.93	0.69	0.92	0.94	(3)	(3)	60
0.22	.....	0.57	0.71	.....	0.27	1.80	1.12	.....	0.97	.....	0.86	.....	0.90	61
21,696	3,997	5,723	13,656	.....	.....	.....	4,111	870	351,661	81,646	906	.....	.....	62
0.34	0.14	0.28	0.66	.....	.....	.....	0.44	0.16	0.89	0.52	0.73	.....	.....	63
68,134	27,800	21,640	20,666	.....	.....	.....	9,450	5,364	409,748	155,729	1,262	.....	.....	64
0.32	0.14	0.27	0.66	.....	.....	.....	0.44	0.16	0.86	0.52	0.72	.....	.....	65
20,315	3,327	5,480	11,749	.....	.....	.....	4,083	992	340,345	71,756	863	.....	.....	66
99,440	67,000	3,825	.....	.....	.....	.....	6,333	.....	1,471,630	279,000	3,280	.....	.....	67
251	13	33	9	6	55	35	9	22	356	504	22	1	2	68
127,178	31,713	21,656	20,662	673	8,941	895	6,792	9,358	386,096	206,133	2,706	(3)	(3)	69
157,622	9,517	40,944	28,196	666	61,953	487	10,440	6,505	528,808	172,265	5,135	(3)	(3)	70
1.2	0.3	1.9	1.4	1.0	6.9	0.5	1.5	0.7	1.4	0.8	1.9	(3)	(3)	71
0.32	0.14	0.28	0.65	1.82	0.88	1.08	0.73	0.91	1.10	1.11	0.97	(3)	(3)	72
1	.....	2	.....	.....	.....	.....	.....	.....	26	.....	.....	.....	.....	73
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	27,577	.....	.....	.....	.....	74
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	22,757	.....	.....	.....	.....	75
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	2,558	.....	.....	.....	.....	76
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	856	.....	.....	.....	.....	77

[4] Less than one-tenth of 1 percent.
[5] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Adams	Alamosa	Arapahoe	Archuleta	Baca	Bent
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	388,343,847	13,528,602	4,469,290	10,754,234	1,844,939	4,989,136	5,472,498
2	Land and buildings, irrigated farms....dollars..	268,377,191	8,660,723	4,118,720	4,929,029	1,516,909	450,612	4,740,407
	Operated by—							
3	(a) Owners and managers....dollars..	173,643,424	5,754,707	3,019,500	3,408,402	1,282,142	369,967	2,371,889
4	(b) Tenants....dollars..	94,733,767	2,906,016	1,099,220	1,520,627	234,767	80,645	2,368,518
5	Average, land and buildings, per farm....dollars..	9,016.23	9,068.82	9,360.73	14,412.37	6,990.36	7,510.20	9,937.96
6	per acre in farms....dollars..	21.43	69.34	11.98	73.29	6.61	3.96	15.38
7	Buildings, irrigated farms reporting value....number...	28,812	925	432	332	216	60	467
8	Total reported....dollars..	59,423,593	2,184,210	950,963	1,466,619	295,786	47,610	1,051,550
9	Average, per irrigated farm reporting....dollars..	2,062.46	2,361.31	2,201.30	4,417.53	1,369.38	793.50	2,251.71
10	per acre on all irrigated farms....dollars..	4.75	17.49	2.77	21.81	1.29	0.42	3.41
11	Buildings, nonirrigated farms reporting value....number...	20,248	720	83	716	133	781	196
12	Total reported....dollars..	25,423,820	1,016,160	122,638	2,050,970	61,299	422,623	139,165
13	Average, per nonirrigated farm reporting....dollars..	1,255.62	1,411.33	1,477.57	2,864.48	460.89	541.13	710.03
14	per acre on all nonirrigated farms....dollars..	1.34	2.14	4.02	5.35	1.11	0.44	0.51
15	Implements and machinery, irrigated farms reporting value..number...	26,692	833	404	273	210	57	441
16	Total reported....dollars..	25,650,123	800,062	477,008	274,695	159,682	39,865	461,880
17	Average, per irrigated farm reporting....dollars..	960.97	960.46	1,180.71	1,006.21	760.39	699.39	1,047.35
18	per acre, on all irrigated farms....dollars..	2.05	6.41	1.39	4.08	0.70	0.35	1.50
19	Implements and machinery, nonirrigated farms reporting value....number...	18,137	618	47	555	123	711	146
20	Total reported....dollars..	13,371,491	559,106	20,286	502,977	31,677	552,721	69,869
21	Average, per acre, on all nonirrigated farms....dollars..	0.70	1.18	0.67	1.31	0.57	0.58	0.23
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	[3] 8,853	313	137	46	177	18	44
23	1930...number....	[3] 6,585	150	49	24	124	4	37
24	1920...number....	6,634	59	57	37	97	7	30
25	Average size of enterprise based on irrigable area....1940...acres....	484	278	1,346	543	108	193	2,102
26	1930...acres....	688	873	3,716	1,377	189	964	1,850
27	1920[4]..acres....	787	1,937	3,268	1,679	188	1,786	4,862
28	Diversion dams....1940...number....	4,792	12	26	9	102	7	10
29	Main canals and laterals....1940...length, miles....	19,864.0	277.5	388.1	124.2	201.4	39.0	193.0
30	1930...length, miles....	21,381	304	548	97	201	29	719
31	1920...length, miles....	27,593	366	355	218	185	27	1,110
32	1940...capacity, c.f.s.[5]....	139,780	2,739	1,125	135	481	133	3,027
33	1930...capacity, c.f.s.[5]....	123,652	2,279	2,492	797	412	213	9,966
34	1920...capacity, c.f.s.[5]....	119,558	2,067	2,073	903	369	271	3,679
35	Pipe lines[6]....1940...length, miles....	245.1	4.0	.....	0.6	0.1	0.6	1.3
36	Storage dams....1940...number....	1,015	31	2	7	6	7	7
37	Reservoirs....1940...number....	1,071	42	2	12	6	9	7
38	1930...number....	765	7	.....	1	3	1	3
39	1920...number....	979	11	2	6	5	4	17
40	1940...capacity, acre-feet..	2,071,522	38,390	(2)	2,559	850	30,104	152,012
41	1930...capacity, acre-feet..	1,924,982	44,245	.....	232	869	35,000	62,756
42	1920...capacity, acre-feet..	2,406,372	68,551	12,527	73,866	665	33,726	339,402
43	Wells, flowing....1940...number....	886	.....	136	4	.....	3	.....
44	1930...number....	621	.....	83	.....	.....	.....	.....
45	1920...number....	476	1	119	2	.....	8	.....
46	1940...yield, g.p.m....	54,859	.....	19,565	165	.....	93	.....
47	1930...yield, g.p.m....	39,644	.....	4,150	.....	.....	.....	.....
48	1920...yield, g.p.m....	20,139	40	5,065	130	.....	1,725	.....
49	Wells, pumped....1940...number....	2,878	321	80	31	.....	4	31
50	1930...number....	654	132	.....	17	.....	.....	3
51	1920...number....	527	28	.....	3	.....	4	11
52	1940...yield, g.p.m....	1,929,798	146,314	61,120	16,470	.....	8,006	14,768
53	1930...yield, g.p.m....	237,903	48,166	.....	2,949	.....	.....	1,090
54	1920...yield, g.p.m....	210,094	8,217	.....	750	.....	52	8,250
55	Pumping plants....1940...number....	2,806	318	56	30	1	4	32
56	1930...number....	516	135	.....	16	1	.....	7
57	1920...number....	406	29	.....	3	2	3	8
58	Prime movers....1940...capacity, hp....	49,157	5,202	1,187	566	(2)	81	493
59	1930...capacity, hp....	11,204	1,677	.....	114	12	.....	132
60	1920...capacity, hp....	8,635	168	.....	22	22	.....	197
61	Pumps....1940...capacity, g.p.m....	2,263,375	163,540	51,570	17,695	(2)	8,006	18,658
62	1930...capacity, g.p.m....	437,250	49,421	.....	3,253	300	.....	5,740
63	1920...capacity, g.p.m....	299,726	8,217	.....	750	1,200	52	8,350
64	Pumping lift, from all sources....1940...average, feet....	32	32	17	45	(2)	68	22
65	1930...average, feet....	25	26	.....	21	132	.....	25
66	1920...average, feet....	23	27	.....	17	85	100	24
67	from pumped wells....1940...average, feet....	33	32	18	45	.....	71	23
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll....number...	786	24	11	9	5	1	6
69	Irrigated area in these enterprises....acres....	2,695,030	66,980	84,748	21,446	5,910	(2)	57,823
70	Wages and salaries paid and payable....dollars..	1,167,624	27,165	14,769	22,968	2,754	(2)	24,017
71	Persons employed during week ending April 29....number...	3,068	34	34	26	16	(2)	36

*Census of Agriculture.
[1]Part annexed to San Miguel County in 1925.
[2]Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3]Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[4]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Boulder	Chaffee	Clear Creek	Conejos	Costilla	Crowley	Custer	Delta	Denver	Dolores[1]	Douglas	Eagle	Elbert	El Paso	
12,120,646	1,998,368	378,270	7,023,576	2,136,129	2,554,458	2,134,357	7,316,921	1,640,900	738,543	4,829,497	3,888,865	6,539,873	8,480,534	1
11,126,963	1,789,718	202,970	6,726,602	2,055,949	2,115,609	1,565,500	7,171,992	1,323,445	81,600	1,633,641	3,896,165	274,950	2,761,296	2
5,993,648	1,413,393	105,570	5,330,272	1,443,334	791,538	1,208,410	5,162,384	1,163,595	(2)	1,149,890	3,102,015	(2)	2,512,006	3
5,133,315	376,325	97,400	1,396,330	612,615	1,324,071	357,090	2,009,608	159,850	(2)	483,751	794,150	(2)	249,290	4
9,518.36	7,304.97	10,682.63	7,803.48	4,301.15	5,223.73	10,871.53	4,365.18	12,031.32	4,800.00	22,378.64	12,691.09	30,550.00	12,843.24	5
71.61	18.25	18.49	20.22	5.64	19.70	11.97	34.76	1,276.22	9.27	15.71	17.87	6.29	7.41	6
1,156	240	18	741	447	394	141	1,566	86	16	72	299	9	202	7
2,652,322	508,000	79,560	1,063,442	351,840	371,250	370,973	1,869,689	661,400	14,400	448,750	685,190	33,000	604,480	8
2,294.40	2,116.67	4,420.00	1,435.14	787.11	942.26	2,631.01	1,193.93	7,690.70	900.00	6,232.64	2,291.61	3,666.67	2,992.48	9
17.07	5.18	7.25	3.20	0.96	3.46	2.84	9.06	637.80	1.64	4.32	3.14	0.75	1.62	10
176	47	27	158	40	118	155	51	36	211	331	20	963	1,031	11
322,551	115,055	69,500	95,465	17,175	54,810	129,955	20,650	185,800	101,580	839,881	19,165	1,377,600	1,594,192	12
1,832.68	2,447.98	2,574.07	604.21	429.38	464.49	838.42	404.90	5,161.11	481.42	2,537.40	958.25	1,430.53	1,546.26	13
6.26	12.12	9.21	4.75	0.62	0.25	1.15	1.43	149.48	1.49	3.21	1.38	1.35	2.12	14
1,072	216	13	763	400	374	135	1,384	68	17	69	295	9	178	15
905,939	178,168	5,070	713,296	333,687	293,772	116,377	741,910	37,757	12,150	96,274	324,569	13,575	170,174	16
845.09	824.85	390.00	934.86	834.22	785.49	862.05	536.06	555.25	714.71	1,395.28	1,100.23	1,508.33	956.03	17
5.83	1.82	0.46	2.14	0.91	2.74	0.89	3.60	36.41	1.38	0.93	1.49	0.31	0.46	18
146	36	17	129	26	115	148	31	26	193	310	16	899	943	19
84,751	12,474	7,925	38,709	6,420	46,210	65,540	9,125	26,926	159,630	268,911	5,430	706,467	520,576	20
1.64	1.31	1.05	1.92	0.23	0.21	0.58	0.63	21.66	2.34	1.03	0.39	0.69	0.69	21
157	130	19	171	43	21	155	386	4	17	73	260	15	108	22
92	118	14	172	103	22	126	276	5	10	95	196	17	93	23
151	157	.....	159	46	24	202	298	4	22	94	186	22	63	24
832	281	26	1,102	2,524	3,222	207	397	245	121	122	171	93	210	25
2,002	285	.....	955	1,097	3,466	202	512	178	79	105	176	388	366	26
1,248	244	.....	1,305	2,238	2,999	195	526	1,219	1,073	161	258	305	563	27
104	64	14	151	43	2	56	209	1	29	55	23	6	49	28
540.8	382.4	3.0	539.1	313.1	160.5	163.1	956.2	11.0	20.0	121.9	508.6	11.0	123.2	29
582	300	.....	662	357	116	238	799	14	13	126	330	54	172	30
1,467	439	.....	683	537	212	338	997	20	58	213	447	62	193	31
4,269	1,080	227	6,239	3,067	2,528	571	3,063	22	956	997	1,853	37	594	32
3,461	770	.....	5,750	1,465	4,342	355	2,971	22	21	235	725	1,881	549	33
4,812	1,090	.....	5,000	997	2,059	784	3,245	70	298	554	885	158	863	34
3.1	0.3	.....	.....	.....	0.1	0.2	7.1	9.0	.....	0.1	4.6	.....	8.3	35
40	4	14	5	5	14	4	168	.....	1	3	9	6	63	36
42	4	12	4	7	14	1	167	.....	1	3	13	9	67	37
24	2	.....	2	5	19	2	129	.....	.....	9	8	9	16	38
44	3	.....	5	6	18	1	115	.....	4	17	15	5	29	39
57,037	11,647	2,485	39,767	136,125	40,661	(2)	38,766	.....	22,000	24	3,332	214	2,746	40
43,974	11,440	.....	24,000	130,943	66,577	280	35,537	.....	.....	15,335	3,378	4,537	8,741	41
33,282	20	.....	34,968	132,860	8,593	5	39,284	.....	19,630	4,287	1,468	6,755	13,103	42
.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	1	.....	3	45
.....	.....	.....	1,010	.....	.....	.....	.....	.....	.....	.....	.....	.....	(2)	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	70	.....	700	.....	.....	.....	.....	.....	.....	.....	30	48
5	.....	.....	39	.....	31	2	.....	.....	.....	1	.....	7	42	49
.....	1	.....	.....	.....	46	1	.....	.....	.....	.....	.....	.....	.....	50
1	.....	.....	.....	.....	48	.....	.....	.....	.....	3	.....	3	1	51
2,160	.....	.....	14,400	.....	7,015	(2)	.....	.....	.....	(2)	.....	3,050	21,358	52
.....	265	.....	.....	.....	16,470	20	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	22,575	.....	.....	.....	.....	405	.....	1,200	.....	54
7	.....	.....	18	.....	18	2	4	1	.....	3	3	7	37	55
3	1	.....	.....	.....	20	1	6	2	.....	2	.....	2	.....	56
2	.....	.....	.....	.....	25	.....	6	.....	.....	3	3	3	1	57
96	.....	.....	293	.....	188	(2)	74	(2)	.....	41	30	42	672	58
42	5	.....	.....	.....	216	2	128	17	.....	11	.....	40	.....	59
30	.....	.....	.....	.....	299	.....	21	.....	.....	21	33	12	.....	60
2,890	.....	.....	16,190	.....	11,235	(2)	980	(2)	.....	800	2,225	3,350	23,675	61
4,400	265	.....	.....	.....	17,220	20	4,187	3,024	.....	370	.....	2,909	.....	62
1,000	.....	.....	.....	.....	23,505	.....	881	.....	.....	412	1,000	1,200	.....	63
25	.....	.....	29	.....	23	(2)	134	(2)	.....	54	19	25	33	64
13	18	.....	.....	.....	17	2	88	8	.....	31	.....	16	.....	65
8	.....	.....	.....	.....	28	.....	13	.....	.....	22	45	29	.....	66
25	.....	.....	30	.....	24	(2)	.....	.....	.....	.....	.....	30	36	67
59	13	1	42	17	3	.....	85	4	.....	3	5	.....	3	68
120,984	15,981	.....	121,069	39,392	48,200	.....	103,335	921	.....	2,050	3,026	.....	6,652	69
25,781	1,136	(2)	11,050	22,349	15,697	.....	75,941	2,445	.....	4,336	1,189	.....	5,840	70
121	49	(2)	63	101	32	.....	523	3	.....	4	17	.....	10	71

[5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[6] Includes siphons and farm pipe lines reported.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.
[8] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Fremont	Garfield	Gilpin	Grand	Gunnison	Hinsdale	Huerfano
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	3,843,510	6,721,490	239,765	3,089,056	4,436,514	279,750	2,703,802
2	Land and buildings, irrigated farms....dollars..	3,428,062	6,401,830	84,490	2,943,316	3,760,778	273,790	1,832,992
	Operated by—							
3	(a) Owners and managers....dollars..	2,779,857	5,068,324	77,850	2,577,766	3,508,078	254,790	1,615,398
4	(b) Tenants....dollars..	648,205	1,333,506	6,640	365,550	252,700	19,000	217,594
5	Average, land and buildings, per farm....dollars..	4,208.21	7,349.98	10,561.25	12,741.63	12,791.76	8,555.94	6,546.40
6	per acre in farms....dollars..	13.21	21.22	12.13	10.59	15.07	14.83	6.33
7	Buildings, irrigated farms reporting value....number...	801	858	8	222	291	31	271
8	Total reported....dollars..	974,640	1,389,603	26,800	686,800	846,955	61,000	234,675
9	Average, per irrigated farm reporting....dollars..	1,216.78	1,619.58	3,350.00	3,093.69	2,910.50	1,967.74	865.96
10	per acre on all irrigated farms....dollars..	3.76	4.61	3.85	2.47	3.39	3.31	0.81
11	Buildings, nonirrigated farms reporting value....number...	164	103	43	22	54	2	394
12	Total reported....dollars..	120,590	70,620	33,300	20,305	67,390	(2)	144,135
13	Average, per nonirrigated farm reporting....dollars..	735.30	685.63	774.42	922.95	1,247.96	(2)	365.82
14	per acre on all nonirrigated farms....dollars..	1.12	1.65	2.49	1.98	1.01	(2)	0.57
15	Implements and machinery, irrigated farms reporting value..number...	744	738	8	212	267	31	267
16	Total reported....dollars..	295,433	578,854	3,565	229,230	276,374	24,615	132,682
17	Average, per irrigated farm reporting....dollars..	397.09	784.36	445.63	1,081.27	1,035.11	794.03	496.94
18	per acre, on all irrigated farms....dollars..	1.14	1.92	0.51	0.82	1.11	1.33	0.46
19	Implements and machinery, nonirrigated farms reporting value....number...	130	67	35	15	33	1	323
20	Total reported....dollars..	52,432	21,025	11,860	5,430	11,720	(2)	79,688
21	Average, per acre, on all nonirrigated farms....dollars..	0.49	0.49	0.89	0.53	0.18	(2)	0.32
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	187	342	4	201	287	34	213
23	1930...number....	186	291	1	155	227	53	313
24	1920...number....	179	323	.....	166	382	52	267
25	Average size of enterprise based on irrigable area....1940...acres....	155	244	44	296	270	146	129
26	1930...acres....	198	343	.....	356	219	125	148
27	1920[3]...acres....	246	364	.....	515	178	78	162
28	Diversion dams....1940...number....	74	121	11	147	290	41	129
29	Main canals and laterals....1940...length, miles....	263.0	721.4	10.0	391.4	682.2	68.1	303.1
30	1930...length, miles....	245	736	.....	415	409	51	388
31	1920...length, miles....	330	1,242	.....	579	736	104	621
32	1940...capacity, c.f.s.[4]....	796	2,499	7	2,399	4,564	203	1,186
33	1930...capacity, c.f.s.[4]....	702	1,911	.....	1,673	1,631	385	1,218
34	1920...capacity, c.f.s.[4]....	901	2,563	.....	2,037	4,236	519	1,907
35	Pipe lines[5]....1940...length, miles....	66.5	5.3	.....	0.9	2.4	.....	0.1
36	Storage dams....1940...number....	16	21	4	18	10	4	25
37	Reservoirs....1940...number....	19	21	4	16	11	6	24
38	1930...number....	20	16	.....	21	3	5	12
39	1920...number....	31	26	.....	25	6	2	34
40	1940...capacity, acre-feet..	4,318	13,187	75	1,759	107,980	78,876	3,651
41	1930...capacity, acre-feet..	7,260	20,572	.....	3,641	77	126,400	1,446
42	1920...capacity, acre-feet..	6,972	7,594	.....	3,137	460	43,500	12,027
43	Wells, flowing....1940...number....	15	.....	.....	.....	.....	.....	.....
44	1930...number....	5	.....	.....	.....	.....	.....	.....
45	1920...number....	3	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	1,926	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	870	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	115	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	9	.....	.....	1	.....	.....	4
50	1930...number....	2	.....	.....	.....	.....	.....	.....
51	1920...number....	9	.....	.....	.....	.....	.....	2
52	1940...yield, g.p.m....	919	.....	.....	(2)	.....	.....	1,613
53	1930...yield, g.p.m....	80	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m....	287	.....	.....	.....	.....	.....	70
55	Pumping plants....1940...number....	14	1	.....	2	1	.....	5
56	1930...number....	5	2	.....	1	2	.....	.....
57	1920...number....	10	2	.....	.....	4	.....	4
58	Prime movers....1940...capacity, hp....	131	(2)	.....	(2)	(2)	.....	22
59	1930...capacity, hp....	53	42	.....	1	62	.....	.....
60	1920...capacity, hp....	309	10	.....	.....	112	.....	11
61	Pumps....1940...capacity, g.p.m....	5,369	(2)	.....	(2)	.....	.....	1,843
62	1930...capacity, g.p.m....	4,380	2,000	.....	30	4,000	.....	.....
63	1920...capacity, g.p.m....	6,962	350	.....	.....	3,800	.....	45
64	Pumping lift, from all sources....1940...average, feet....	29	(2)	.....	(2)	.....	.....	25
65	1930...average, feet....	28	32	.....	6	26	.....	.....
66	1920...average, feet....	38	29	.....	.....	18	.....	52
67	from pumped wells....1940...average, feet....	31	.....	.....	(2)	.....	.....	20
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll....number...	15	17	.....	3	7	.....	4
69	Irrigated area in these enterprises....acres....	14,650	22,479	.....	4,100	8,687	.....	2,440
70	Wages and salaries paid and payable....dollars..	21,334	13,512	.....	980	1,544	.....	1,000
71	Persons employed during week ending April 29....number...	63	64	.....	1	20	.....	.....

*Census of Agriculture.
[1] Includes statistics for 2 farms reported for San Juan in 1930 and 4 farms in 1940 to avoid disclosures of individual operations.
[2] Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Jackson	Jefferson	Kiowa	Lake	La Plata[1]	Larimer	Las Animas	Lincoln	Logan	Mesa	Mineral	Moffat	Montezuma	Montrose	
4,864,598	16,249,925	2,222,948	207,040	5,025,833	19,867,500	6,122,101	4,708,745	14,078,741	14,006,534	648,780	4,018,916	3,850,283	6,614,604	1
4,639,519	12,620,708	176,650	202,440	4,333,158	18,035,714	3,126,141	285,843	7,441,614	13,239,254	580,210	2,216,378	2,763,099	6,465,143	2
4,246,929	9,435,458	145,110	192,900	3,121,078	10,264,131	2,349,285	270,793	3,061,537	11,193,544	566,310	1,989,118	1,963,171	4,527,773	3
392,590	3,185,250	31,540	9,540	1,212,080	7,771,583	776,856	15,050	4,380,077	2,045,710	13,900	227,260	799,928	1,937,370	4
21,988.24	10,064.36	4,774.32	7,786.15	5,576.78	11,881.23	6,485.77	17,865.19	12,320.55	5,355.69	15,681.35	11,789.24	3,902.68	4,739.84	5
14.41	99.47	4.57	12.51	16.90	31.75	4.40	2.84	22.97	39.15	24.25	4.93	17.22	24.14	6
209	1,221	37	26	761	1,492	456	16	596	2,421	33	179	647	1,314	7
671,500	3,970,833	39,340	56,045	1,135,073	4,261,350	361,545	24,787	1,346,670	3,621,460	207,800	351,182	631,340	1,625,557	8
3,212.92	3,252.12	1,063.24	2,155.58	1,491.55	2,856.13	792.86	1,549.19	2,259.51	1,495.85	6,296.97	1,961.91	975.80	1,237.11	9
2.09	31.30	1.02	3.46	4.43	7.50	0.51	0.25	4.16	10.71	8.68	0.78	3.93	6.07	10
50	502	384	1	256	299	760	731	921	166	9	318	300	58	11
51,825	1,605,196	313,002	(2)	165,470	410,090	354,777	784,500	1,353,582	225,925	35,540	254,178	155,470	46,355	12
1,036.50	3,197.60	815.11	(2)	646.37	1,371.54	466.81	1,073.19	1,469.69	1,360.99	3,948.89	799.30	518.23	799.22	13
1.79	11.43	0.53	(2)	1.44	2.90	0.28	0.60	1.89	2.68	10.39	0.56	1.53	3.49	14
181	1,036	34	24	697	1,464	442	15	586	2,151	21	176	579	1,156	15
300,883	765,679	29,495	31,605	516,492	1,448,606	242,561	14,144	774,485	1,304,087	15,660	176,506	413,175	837,985	16
1,662.34	739.07	867.50	1,316.88	741.02	989.48	548.78	942.93	1,321.65	606.27	745.71	1,002.88	713.60	724.90	17
0.93	6.03	0.76	1.95	2.01	2.55	0.34	0.14	2.39	3.86	0.65	0.39	2.57	3.13	18
22	419	353	1	212	278	621	676	897	129	5	291	281	41	19
6,385	257,476	233,669	(2)	78,374	155,143	183,614	516,727	870,196	57,800	2,040	184,191	325,001	19,225	20
0.22	1.83	0.40	(2)	0.68	1.10	0.14	0.40	1.21	0.68	0.60	0.41	3.21	1.45	21
216	81	20	28	202	275	196	7	117	317	45	134	131	113	22
149	57	5	24	324	228	111	5	39	221	29	101	140	76	23
145	105	6	30	211	171	176	.....	39	213	42	127	102	103	24
839	660	256	324	582	583	256	81	988	492	161	208	636	1,223	25
1,092	1,063	297	177	406	805	487	186	3,265	947	173	353	701	1,509	26
1,581	742	2,880	348	528	1,148	290	.....	3,190	869	352	255	786	1,681	27
325	51	4	13	136	271	169	.....	42	297	3	16	104	67	28
1,208.0	310.1	28.1	62.0	573.6	758.9	388.9	3.0	467.0	862.4	39.0	203.5	408.5	794.3	29
570	269	1	24	769	824	297	20	551	761	37	274	502	841	30
822	381	52	52	704	982	401	.....	511	1,012	82	696	424	813	31
5,858	3,476	8,708	227	2,508	8,675	11,490	4	4,071	4,682	206	777	1,618	2,903	32
3,612	1,779	6	118	2,148	5,318	6,675	7	2,690	3,898	92	721	1,523	3,587	33
5,129	2,093	2,585	298	2,018	6,968	1,618	.....	3,376	4,721	355	888	995	2,437	34
0.5	8.0	.....	2.0	1.6	15.3	4.4	.....	0.2	17.9	1.5	2.1	0.6	3.9	35
11	37	4	1	7	109	17	7	13	80	4	18	8	3	36
12	36	7	1	7	102	11	7	13	88	5	23	10	3	37
15	43	6	2	1	68	6	10	6	58	.....	12	12	14	38
9	25	4	.....	5	69	21	.....	7	60	2	18	9	14	39
7,118	34,478	266,553	(2)	1,751	227,645	20,149	501	112,244	24,342	44,592	3,788	17,238	12,045	40
16,714	35,994	266,202	54,452	30	162,500	47,089	804	107,159	16,584	.....	2,022	16,786	13,144	41
15,159	8,178	32,118	.....	15	181,515	429,105	.....	116,108	19,201	2,311	1,569	17,680	8,335	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	44
.....	.....	.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	673	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	360	.....	.....	47
.....	.....	.....	.....	100	60	.....	.....	.....	.....	.....	.....	.....	.....	48
2	14	21	.....	.....	104	8	12	107	.....	.....	5	.....	.....	49
.....	5	17	.....	1	58	1	4	16	.....	.....	.....	.....	.....	50
.....	.....	6	.....	.....	28	.....	.....	40	.....	.....	.....	.....	.....	51
(2)	1,424	1,217	.....	.....	62,428	161	1,900	118,100	.....	.....	830	.....	.....	52
.....	340	3,125	.....	50	19,450	120	400	2,385	.....	.....	.....	.....	.....	53
.....	.....	2,985	.....	.....	8,095	.....	.....	6,600	.....	.....	.....	.....	.....	54
2	16	24	.....	1	106	9	4	85	38	1	19	.....	1	55
.....	10	8	.....	1	27	1	1	2	13	.....	3	.....	1	56
.....	1	5	.....	.....	22	1	.....	10	11	.....	4	.....	2	57
(2)	161	91	.....	(2)	1,409	118	90	1,762	4,029	(2)	199	.....	(2)	58
.....	52	64	.....	2	468	3	8	40	4,538	.....	42	.....	10	59
.....	7	57	.....	.....	374	7	.....	241	3,299	.....	48	.....	41	60
(2)	3,404	1,252	.....	(2)	72,978	215	4,200	107,995	119,154	(2)	21,520	.....	(2)	61
.....	850	3,125	.....	17	23,120	120	400	2,385	119,550	.....	720	.....	480	62
.....	.....	2,985	.....	.....	14,376	500	.....	11,600	16,845	.....	3,200	.....	.....	63
(2)	44	64	.....	(2)	29	57	41	28	29	(2)	12	.....	(2)	64
.....	29	26	.....	40	22	.....	20	20	48	.....	23	.....	60	65
.....	40	20	.....	.....	21	7	.....	15	36	.....	15	.....	34	66
(2)	51	60	.....	.....	29	57	41	29	.....	.....	18	.....	.....	67
1	26	.....	.....	43	40	11	.....	16	36	.....	3	17	25	68
(2)	44,505	.....	.....	69,395	161,170	17,114	.....	115,621	94,773	.....	2,639	41,605	78,276	69
(2)	22,154	.....	.....	55,085	69,197	10,723	.....	39,503	91,111	.....	543	67,446	162,650	70
(2)	46	.....	.....	348	110	16	.....	52	227	.....	4	87	233	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Morgan	Otero	Ouray	Park	Phillips	Pitkin	Prowers
	FARM VALUES, 1940[a]							
1	Land and buildings, all farms....dollars..	11,969,274	8,433,382	1,389,043	3,642,217	6,206,909	1,372,270	6,618,384
2	Land and buildings, irrigated farms....dollars..	9,795,006	7,035,747	1,335,653	2,926,687	(3)	1,330,270	5,732,330
	Operated by—							
3	(a) Owners and managers....dollars..	4,424,061	3,538,027	1,112,245	2,436,447	(3)	1,174,100	2,499,972
4	(b) Tenants....dollars..	5,370,945	3,497,720	223,408	490,240	(3)	156,170	3,232,358
5	Average, land and buildings, per farm....dollars..	11,550.71	6,784.71	9,820.98	19,774.91	(3)	8,868.47	8,039.73
6	per acre in farms....dollars..	39.83	37.28	10.55	6.58	(3)	20.05	21.19
7	Buildings, irrigated farms reporting value....number...	813	994	134	142	(3)	144	700
8	Total reported....dollars..	1,815,860	1,671,580	227,925	679,037	(3)	208,680	919,941
9	Average, per irrigated farm reporting....dollars..	2,233.53	1,681.67	1,700.93	4,781.95	(3)	1,449.17	1,314.20
10	per acre on all irrigated farms....dollars..	7.38	8.86	1.80	1.53	(3)	3.15	3.40
11	Buildings, nonirrigated farms reporting value....number...	471	137	14	152	(3)	14	273
12	Total reported....dollars..	417,090	135,610	13,475	263,213	(3)	12,410	171,852
13	Average, per nonirrigated farm reporting....dollars..	885.54	989.85	962.50	1,731.66	(3)	886.43	629.49
14	per acre on all nonirrigated farms....dollars..	1.10	0.17	1.84	2.22	(3)	3.38	0.75
15	Implements and machinery, irrigated farms reporting value..number...	812	927	120	135	(3)	136	671
16	Total reported....dollars..	1,066,418	799,431	91,544	191,650	(3)	128,839	567,161
17	Average, per irrigated farm reporting....dollars..	1,313.32	862.39	762.87	1,419.63	(3)	947.35	845.25
18	per acre, on all irrigated farms....dollars..	4.34	4.24	0.72	0.43	(3)	1.94	2.10
19	Implements and machinery, nonirrigated farms reporting value....number...	450	91	10	136	(3)	8	250
20	Total reported....dollars..	280,922	50,950	4,700	51,028	(3)	3,105	140,368
21	Average, per acre, on all nonirrigated farms....dollars..	0.74	0.06	0.64	0.43	(3)	0.84	0.61
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	245	152	112	151	3	123	67
23	1930...number....	35	23	152	199	.....	104	39
24	1920...number....	39	26	96	213	.....	76	29
25	Average size of enterprise based on irrigable area....1940...acres....	483	576	248	309	150	163	1,548
26	1930...acres....	3,606	5,202	207	235	.....	246	3,364
27	1920[4]..acres....	4,274	7,041	250	260	.....	280	3,421
28	Diversion dams....1940...number....	14	8	99	265	.....	104	10
29	Main canals and laterals....1940...length, miles....	325.1	295.0	235.2	358.1	.....	248.6	654.2
30	1930...length, miles....	476	478	255	341	.....	254	919
31	1920...length, miles....	370	758	213	460	.....	228	489
32	1940...capacity, c.f.s.[5]....	2,183	6,277	771	2,222	.....	2,405	703
33	1930...capacity, c.f.s.[5]....	4,221	4,966	682	2,770	.....	731	4,876
34	1920...capacity, c.f.s.[5]....	3,771	5,537	642	2,705	.....	655	1,573
35	Pipe lines[6]....1940...length, miles....	0.2	1.0	0.6	0.1	.....	7.8	1.1
36	Storage dams....1940...number....	2	2	1	16	.....	3	4
37	Reservoirs....1940...number....	3	2	4	10	.....	3	8
38	1930...number....	4	5	2	2	.....	2	2
39	1920...number....	10	10	.....	1	.....	3	5
40	1940...capacity, acre-feet..	44,814	(3)	440	5,577	.....	872	8,007
41	1930...capacity, acre-feet..	86,772	35,347	156	26,002	.....	1,011	47,155
42	1920...capacity, acre-feet..	86,680	36,659	.....	8	.....	19	53,613
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	242	146	.....	.....	3	.....	71
50	1930...number....	1	22	.....	.....	.....	.....	5
51	1920...number....	23	12	.....	.....	.....	.....	6
52	1940...yield, g.p.m....	275,320	61,967	.....	.....	3,700	.....	35,834
53	1930...yield, g.p.m....	1,750	7,150	.....	.....	.....	.....	1,510
54	1920...yield, g.p.m....	26,590	11,088	.....	.....	.....	.....	1,205
55	Pumping plants....1940...number....	244	148	.....	.....	3	.....	65
56	1930...number....	4	12	.....	.....	.....	.....	5
57	1920...number....	17	11	.....	.....	.....	.....	7
58	Prime movers....1940...capacity, hp....	6,819	1,177	.....	.....	110	.....	527
59	1930...capacity, hp....	52	188	.....	.....	.....	.....	37
60	1920...capacity, hp....	344	188	.....	.....	.....	.....	30
61	Pumps....1940...capacity, g.p.m....	281,380	71,187	.....	.....	3,700	.....	47,230
62	1930...capacity, g.p.m....	4,000	9,400	.....	.....	.....	.....	1,615
63	1920...capacity, g.p.m....	26,585	10,438	.....	.....	.....	.....	1,470
64	Pumping lift, from all sources....1940...average, feet....	50	22	.....	.....	60	.....	20
65	1930...average, feet....	30	18	.....	.....	.....	.....	18
66	1920...average, feet....	22	20	.....	.....	.....	.....	18
67	from pumped wells....1940...average, feet....	50	23	.....	.....	60	.....	19
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll....number...	24	10	21	.....	.....	2	8
69	Irrigated area in these enterprises....acres....	161,380	81,772	8,158	.....	.....	(3)	84,238
70	Wages and salaries paid and payable....dollars..	39,481	40,817	1,405	.....	.....	(3)	42,296
71	Persons employed during week ending April 29....number...	62	66	46	.....	.....	(3)	74

[a] Census of Agriculture.
[1] Part of Dolores County annexed in 1925.
[2] Data between census years not comparable (see headnote).
[3] Data are included only in State total because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Pueblo	Rio Blanco	Rio Grande	Routt	Saguache	San Miguel[1]	Sedgwick	Summit	Teller	Washington	Weld	Yuma	All other counties[2]	
8,712,722	4,044,190	10,048,211	6,810,039	6,333,743	1,069,301	5,241,634	661,620	1,174,001	7,337,381	50,131,511	13,433,150	6,974,794	1
7,084,869	3,292,998	9,811,630	5,184,858	6,171,448	580,165	1,920,070	629,620	326,621	766,153	41,923,227	470,410	(3)	2
5,037,813	2,915,833	6,960,111	3,988,628	5,019,828	502,765	984,080	523,120	260,781	341,503	16,519,148	313,550	.....	3
2,047,056	377,165	2,851,519	1,196,230	1,151,620	77,400	935,990	106,500	65,840	424,650	25,404,079	156,860	(3)	4
8,474.72	15,316.27	15,850.78	11,320.65	14,624.28	5,578.51	12,229.75	11,447.64	8,827.59	11,103.67	12,711.71	9,800.21	(3)	5
18.15	9.34	53.12	11.89	14.69	8.01	36.53	15.81	7.58	26.50	64.02	9.21	(3)	6
820	210	586	451	394	101	149	55	37	69	3,244	46	(3)	7
1,605,095	652,465	2,149,085	920,440	1,042,976	131,035	339,695	174,950	91,050	174,150	8,296,090	76,050	(3)	8
1,957.43	3,106.98	3,605.85	2,040.89	2,647.15	1,297.38	2,279.83	3,180.91	2,460.81	2,523.91	2,557.36	1,653.26	(3)	9
4.11	1.85	11.64	2.11	2.48	1.81	6.46	4.39	2.11	6.02	12.67	1.49	(3)	10
346	118	33	353	51	65	328	3	201	1,341	1,139	1,633	(3)	11
380,925	128,375	62,900	357,230	43,500	32,760	676,192	14,000	267,230	1,333,432	1,502,550	2,291,986	(3)	12
1,100.94	1,087.92	1,906.06	1,011.98	852.94	504.00	2,061.56	4,666.67	1,329.50	994.36	1,319.18	1,403.54	(3)	13
0.93	1.11	4.75	2.57	0.95	0.34	2.86	6.13	2.61	1.05	1.17	1.65	(3)	14
750	200	575	432	368	89	139	51	36	62	3,097	48	(3)	15
707,924	259,132	1,255,191	455,811	495,398	65,265	203,450	56,537	35,323	76,530	4,569,868	50,875	(3)	16
943.90	1,295.66	2,182.94	1,055.12	1,346.19	733.31	1,463.67	1,108.57	981.19	1,234.35	1,475.58	1,059.90	(3)	17
1.81	0.74	6.80	1.04	1.18	0.90	3.87	1.42	0.82	2.65	6.98	1.00	(3)	18
302	86	24	320	40	53	319	3	151	1,267	1,041	1,568	(3)	19
174,465	69,240	15,562	241,904	15,062	40,860	480,195	3,250	71,293	842,176	933,941	1,648,459	(3)	20
0.43	0.60	1.18	1.74	0.33	0.42	2.03	1.42	0.70	0.66	0.73	1.19	(3)	21
303	157	353	335	282	40	21	57	41	32	908	24	3	22
233	166	206	374	196	64	5	64	10	6	225	14	8	23
264	189	159	310	212	67	7	79	25	8	238	26	17	24
347	287	639	209	671	2,060	1,057	173	33	317	568	180	41	25
530	237	904	233	941	843	4,916	177	70	1,959	2,526	284	.....	26
540	241	1,844	297	1,283	668	3,436	193	78	1,262	2,384	586	137	27
80	133	100	146	309	63	5	44	32	2	71	24	.....	28
492.0	471.0	420.3	542.6	397.5	151.4	77.0	144.0	9.0	18.0	1,337.1	53.3	1.0	29
379	400	773	700	630	235	82	99	9	52	1,606	34	14	30
896	506	721	687	863	413	94	157	83	60	1,990	103	31	31
3,692	1,428	5,855	1,702	2,267	937	324	808	56	213	7,687	246	4	32
3,619	1,035	2,409	1,635	3,747	824	624	230	18	914	11,839	84	28	33
5,316	2,908	3,347	1,619	3,757	789	459	437	60	365	9,040	599	158	34
14.6	0.9	0.5	1.1	0.6	1.8	0.1	0.2	.....	0.1	41.7	0.1	.....	35
34	18	6	22	2	8	3	.....	4	.....	72	5	.....	36
33	19	6	34	4	8	2	.....	3	.....	78	5	1	37
27	8	2	30	4	6	.....	1	.....	1	88	7	4	38
61	24	4	50	14	3	2	.....	1	3	103	4	7	39
114,066	4,239	593	5,117	300	9,414	(3)	.....	3,000	.....	202,764	460	(3)	40
56,940	1,116	54	19,951	336	6,046	.....	3	.....	32,300	224,056	261	756	41
109,534	4,028	30,150	5,432	8,854	5,066	27,219	.....	40	268	310,059	30	737	42
3	.....	107	.....	596	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	166	.....	365	.....	.....	.....	.....	.....	.....	.....	.....	44
3	.....	172	.....	156	.....	.....	.....	.....	.....	.....	.....	.....	45
177	.....	3,922	.....	27,248	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	8,300	.....	25,964	.....	.....	.....	.....	.....	.....	.....	.....	47
570	.....	6,666	.....	4,848	.....	.....	.....	.....	.....	.....	.....	.....	48
188	.....	269	1	45	.....	17	.....	2	34	976	3	.....	49
92	.....	.....	.....	1	1	.....	.....	.....	.....	226	.....	2	50
132	.....	.....	.....	1	.....	1	.....	.....	4	149	.....	12	51
68,040	.....	253,243	(3)	39,150	.....	14,380	.....	(3)	35,675	655,205	2,000	.....	52
50,996	.....	.....	.....	450	265	.....	.....	.....	.....	80,858	.....	14	53
37,869	.....	.....	.....	.....	.....	250	.....	.....	1,920	70,311	.....	1,375	54
190	8	264	1	45	4	17	.....	3	28	910	4	2	55
84	1	2	.....	1	3	.....	.....	.....	1	128	.....	2	56
66	1	.....	.....	1	.....	1	.....	.....	2	133	.....	3	57
2,281	78	4,725	(3)	804	23	358	.....	5	645	14,239	105	(3)	58
1,146	4	31	.....	10	27	.....	.....	.....	18	1,908	.....	2	59
801	10	.....	.....	.....	.....	8	.....	.....	30	1,846	.....	37	60
96,073	7,350	285,912	(3)	47,250	3,350	16,980	.....	106	44,200	686,798	3,550	(3)	61
68,051	750	450	.....	450	1,365	.....	.....	.....	1,000	97,868	.....	15	62
49,505	900	.....	.....	.....	.....	250	.....	.....	1,920	99,953	.....	1,475	63
24	15	24	(3)	20	10	30	.....	37	35	37	66	(3)	64
25	12	4	.....	20	12	.....	.....	.....	10	23	.....	29	65
21	10	.....	.....	.....	.....	30	.....	.....	13	22	.....	14	66
24	.....	24	(3)	20	.....	30	.....	(3)	35	37	82	.....	67
14	6	33	5	6	4	3	.....	.....	7	86	2	.....	68
37,940	12,838	231,915	5,170	88,580	20,440	20,666	.....	.....	14,814	540,297	(3)	.....	69
32,959	1,612	21,373	7,839	7,965	3,867	10,556	.....	.....	2,493	137,178	(3)	.....	70
40	12	73	14	17	10	7	.....	.....	4	278	(3)	.....	71

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[6] Includes siphons and farm pipe lines reported.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1935 AND 1940

ITEM (For definitions and explanations, see text)		CENSUS OF— 1940	1935
Approximate land area of State	acres	[*] 34,727,680	35,111,040
CENSUS OF AGRICULTURE			
All farms (irrigated and nonirrigated)	number	62,248	72,857
Land in all farms	acres	8,337,708	6,018,406
Farms irrigated:[1]			
Farms	number	3,947	2,751
Proportion of all farms	percent	6.3	3.8
Land in farms	acres	596,139	[2]
Proportion of all farm land	percent	7.1	[2]
Area irrigated	acres	[3] 126,191	[4] 65,832
Proportion of total land area of State	percent	0.4	0.2
Proportion of all farm land	percent	1.5	1.1
Value of irrigated farms (land and buildings)	dollars	77,835,579	[2]
Average per farm	dollars	19,720.19	[2]
Average per acre	dollars	130.57	[2]
Value of farm implements and machinery[5]	dollars	4,685,526	[2]
Average per farm[5]	dollars	1,187.11	[2]
Average per acre[5]	dollars	7.86	[2]
CENSUS OF IRRIGATION			
Irrigation enterprises:			
Enterprises	number	3,628	.....
Farms irrigated	number	3,930	.....
Area irrigated	acres	132,362	.....
Area existing works were capable of supplying with water	acres	175,813	.....
Area irrigable	acres	188,557	.....
Additional area existing works were capable of supplying with water	acres	43,451	.....
Additional irrigable area in enterprises not supplied with water	acres	56,195	.....
Investment in irrigation enterprises	dollars	7,055,921	.....
Average per acre based on area works were capable of supplying with water	dollars	40.13	.....
Estimated completed cost of existing enterprises	dollars	7,228,453	.....
Average per acre based on irrigable area in enterprises	dollars	38.34	.....
Average annual cost per acre irrigated for maintenance and operation of irrigation works	dollars	3.29	.....

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture.
[2] Not available.
[3] Irrigated land from which crops were harvested plus 2,509 acres of irrigated land used only for pasture.
[4] Irrigated land from which crops were harvested.
[5] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms.
[*] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for 1935.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	62,248	8,337,708	1,679,622	123,682	2,509	324,377,874	38.90	68,211,007	8.18	20,382,246	2.44
Owners and managers	46,580	6,994,698	1,265,744	113,518	2,169	294,370,042	42.08	60,920,616	8.71	17,872,906	2.56
Tenants	15,668	1,343,010	413,878	10,161	340	30,007,832	23.34	7,290,391	5.43	2,509,340	1.87
Irrigated farms, total	3,947	596,139	171,564	123,682	2,509	77,835,579	130.57	10,883,687	18.26	4,685,526	7.86
Owners and managers	3,490	575,825	159,651	113,518	2,169	74,622,653	129.59	10,451,380	18.15	4,346,849	7.55
Tenants	457	20,314	11,913	10,164	340	3,212,926	158.16	432,307	21.28	338,677	16.67
Wholly irrigated farms	2,480	253,385	81,608	81,608	523	38,195,637	150.74	5,783,379	22.82	2,419,123	9.55
Owners and managers	2,144	240,430	72,936	72,936	401	36,086,845	150.09	5,515,157	22.94	2,169,159	9.02
Tenants	336	12,955	8,672	8,672	122	2,108,792	162.78	268,222	20.70	249,964	19.29
Partly irrigated farms	1,467	342,754	89,956	42,074	1,986	39,639,942	115.65	5,100,308	14.88	2,266,403	6.61
Owners and managers	1,346	335,395	86,715	40,582	1,768	38,535,808	114.90	4,936,223	14.72	2,177,690	6.49
Tenants	121	7,359	3,241	1,492	218	1,104,134	150.04	164,085	22.30	88,713	12.06
Nonirrigated farms, total	58,301	7,741,569	1,508,058	.....	.....	246,542,295	31.85	57,327,320	7.41	15,696,720	2.03

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, INVESTMENT, 1940; IRRIGATED AREA, COST OF MAINTENANCE AND OPERATION, 1939; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			Irrigated area 1939	INVESTMENT, 1940			COST OF MAINTENANCE AND OPERATION, 1939[1]		DELIVERY OF WATER TO IRRIGATORS, 1939					
										Irrigated area reporting—			Quantity delivered per acre[3]	Cost[3]	
	Enterprises	Irrigable area	Area works were capable of supplying with water		Amount	Proportion of total	Average per acre[2]	Irrigated area reporting	Average per acre	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Dollars*	*Percent*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	3,628	188,557	175,813	132,362	*7,055,921	*100.0	*40.13	112,515	*3.29	111,375	112,728	101,917	1.7	3.29	1.89
Streams, gravity	1	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(5)
Streams, pumped	21	11,874	6,278	4,778	173,085	2.5	27.57	4,759	2.74	4,761	4,759	4,759	7.4	2.74	0.37
Wells, pumped	1,096	27,283	26,946	20,589	1,798,023	25.5	66.73	17,614	6.18	18,912	17,614	16,846	1.4	6.31	1.63
Wells, flowing	1,743	60,154	57,812	44,944	2,320,738	32.9	40.14	38,127	1.45	32,704	38,127	29,369	1.6	1.22	0.77
Wells, pumped and flowing	68	5,561	5,490	4,626	505,827	7.2	92.14	4,063	3.69	4,027	4,063	3,637	1.6	3.73	2.36
Lakes, gravity	3	30	30	28	1,823	(5)	60.77	28	8.96	28	28	28	0.9	8.96	9.65
Lakes, pumped	534	42,504	41,147	29,916	1,412,756	20.0	34.33	27,487	4.45	28,474	27,487	26,753	1.0	4.48	4.34
Springs	2	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
City water	25	533	530	510	11,184	0.2	21.10	105	12.07	476	318	314	0.8	0.04	7.46
Sewage	1	(4)	(4)	(4)	(4)	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	1	(4)	(4)	.....	(4)	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	3	3,019	3,019	719	19,000	0.3	6.29	19	21.05	19	19	19	3.2	21.05	6.67
Waste water, seepage or drainage	82	29,481	26,454	18,876	472,432	6.7	17.86	14,161	1.47	15,832	14,161	14,161	2.5	1.47	0.59
Other mixed	47	8,073	8,073	7,347	320,748	4.5	39.73	6,136	3.94	6,126	6,136	6,015	1.0	3.93	4.01

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [4] Data are included only in State totals because less than 3 enterprises reported. [5] Less than one-tenth of 1 percent. * Includes data for 1 supplemental enterprise (see text for explanation of supplemental enterprises).

STATE TABLE 4.—ENTERPRISES, AREAS, AVERAGE COSTS, AND AREA IRRIGATED, CENSUS OF 1940, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES		AREAS		AVERAGE COST		AREA IRRIGATED, 1939[1]				
									Cropland		
	Total	Serving 5 or more farms	Irrigable	Works were capable of supplying with water	Works and equipment per acre[2]	Maintenance and operation per acre[3]	Farms served	Total area	From which crops were harvested	On which crops failed	Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	3,628	18	188,557	175,813	*40.13	*3.29	3,930	132,362	125,474	4,204	2,684
Individual and partnership	3,578	3	[4] 177,187	[4] 164,443	[4] 41.15	3.20	[4] 3,731	[4] 123,996	[4] 117,108	4,204	2,684
Cooperative, incorporated	27	2	6,603	6,603	27.12	2.89	58	4,498	4,498	.....	.....
Cooperative, unincorporated	12	2	2,407	2,407	25.16	3.50	26	1,788	1,788	.....	.....
Commercial	10	10	2,360	2,360	20.77	9.93	115	2,080	2,080	.....	.....
Other	1	1	(4)	(4)	(4)	.....	(4)	(4)	(4)	.....	.....

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "Other" enterprise are included with "Individual and partnership" enterprises in the 1940 Census. * Includes data for 1 supplemental enterprise (see text for explanation of supplemental enterprises).

STATE TABLE 5.—AREAS, INVESTMENT, COST OF MAINTENANCE AND OPERATION, PAY ROLL, AND NUMBER OF EMPLOYEES, CENSUS OF 1940, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREAS			INVESTMENT[1]		Estimated investment required to complete works	COST OF MAINTENANCE AND OPERATION			PAY ROLL AND EMPLOYEES, 1939[2]		
	Irrigated	Works were capable of supplying with water	Irrigable	Total	Average per acre works were capable of supplying water		Irrigated area reporting 1939	Reported cost 1939	Average cost per irrigated acre 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Acres	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	132,362	175,813	188,557	*7,055,921	*40.13	172,532	112,515	*370,340	*3.29	*3	*5,288	*5
Individual and partnership	[3] 123,996	[3] 164,443	[3] 177,187	[3] 6,767,239	[3] 41.15	167,661	104,868	335,266	3.20	.....	.....	.....
Cooperative, incorporated	4,498	6,603	6,603	179,089	27.12	.....	4,494	13,000	2.89	1	(4)	(4)
Cooperative, unincorporated	1,788	2,407	2,407	60,567	25.16	4,851	1,436	5,023	3.50	.....	.....	.....
Commercial	2,080	2,360	2,360	49,026	20.77	.....	1,717	17,051	9.93	2	(4)	(4)
Other	(3)	(3)	(3)	(3)	(3)	.....	.....	.....	.....	.....	.....	.....

[1] Enumerated as cost of irrigation works and equipment to December 31, 1939. [2] Only for enterprises serving 5 or more farms. [3] Data for 1 "Other" enterprise are included with "Individual and partnership" enterprises. [4] Data are included only in State totals because less than 3 enterprises reported. * Includes data for 1 supplemental enterprise (see text for explanation of supplemental enterprises).

STATE TABLE 6.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 3	*Number* 5	*Sec.-ft.* 1,947	*Miles* 74	*Miles*	7	*Ac.-ft.* 19,419	*Miles* 4,259.9	4,631	*G.p.m.* 994,828	1,686	*G.p.m.* 482,144	2,321	*Hp.* 29,588	2,349	*G.p.m.* 2,104,450
Individual and partnership	3	5	1,876	67	.....	7	19,419	[2] 4,207.4	4,600	991,528	1,664	471,834	2,242	27,010	2,269	1,923,450
Cooperative, incorporated	.....	.....	38	.....	.....	.....	.....	32.0	.....	.....	10	6,060	47	1,757	49	146,300
Cooperative, unincorporated	.....	.....	20	.....	.....	.....	.....	16.4	31	3,300	11	3,650	22	489	21	12,900
Commercial	.....	.....	13	7	.....	.....	.....	4.1	.....	.....	1	600	10	332	10	21,800
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches.

[2] Mostly tile reported in subirrigation systems.

STATE TABLE 7.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
Total	*Number* 2,349	*Percent* 100.0	*G.p.m.* 2,104,450	*Percent* 100.0	*Feet* 20
Electric motor	**293**	**12.5**	**145,084**	**6.9**	**25**
Centrifugal	196	8.4	120,709	5.7	18
Turbine	40	1.7	18,318	0.9	52
Plunger	48	2.0	3,532	0.2	29
Other	9	0.4	2,525	0.1	30
Internal-combustion engine	**1,934**	**82.3**	**1,870,064**	**88.8**	**19**
Centrifugal	1,575	67.0	863,483	41.0	18
Turbine	147	6.3	348,211	16.5	39
Plunger	103	4.4	14,108	0.7	22
Other	109	4.6	644,262	30.6	14
Other kinds of motive power	**15**	**0.6**	**1,605**	**0.1**	**16**
Centrifugal	1	(1)	800	(1)	10
Turbine	.....	.....	.....	.....	.....
Plunger	12	0.5	540	(1)	17
Other	2	0.1	265	(1)	12
Mixed kinds of motive power	**107**	**4.6**	**87,697**	**4.2**	**21**
Centrifugal	77	3.2	23,732	1.1	19
Turbine	13	0.6	62,510	3.0	41
Plunger	13	0.6	975	(1)	11
Other	4	0.2	480	(1)	18

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
Total	*Number* 2,321	*Percent* 100.0	*Hp.* 29,588	*Percent* 100.0
Centrifugal pump	**1,772**	**76.3**	**19,716**	**66.6**
Electric	221	9.5	2,951	10.0
Internal-combustion	1,550	66.8	16,745	56.5
Other	1	(1)	20	0.1
Turbine pump	**190**	**8.2**	**4,220**	**14.3**
Electric	44	1.9	1,152	3.9
Internal-combustion	134	5.8	3,032	10.3
Other	12	0.5	36	0.1
Plunger pump	**143**	**6.2**	**589**	**2.0**
Electric	46	2.0	156	0.5
Internal-combustion	95	4.1	426	1.4
Other	2	0.1	7	(1)
Other and mixed types of pumps	**216**	**9.3**	**5,063**	**17.1**
Electric	36	1.6	373	1.3
Internal-combustion	180	7.7	4,690	15.8
Other	.....	.....	.....	.....

[1] Less than one-tenth of 1 percent.

STATE TABLE 8.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH, 1940

MATERIAL AND SIZE (DIAMETER)	Length[1]
	Miles
Total	4,259.9
Concrete:	
1 to 12 inches	131.9
13 to 24 inches	0.7
Over 24 inches	.....
Metal:	
1 to 12 inches	964.0
13 to 24 inches	7.2
Over 24 inches	0.5
Wood-stave:	
1 to 12 inches	5.3
13 to 24 inches	.....
Over 24 inches	.....
Clay and other:	
1 to 12 inches	[2] 3,147.1
13 to 24 inches	3.2
Over 24 inches	.....

[1] Includes siphons and farm pipe lines reported. [2] Mostly tile reported in subirrigation systems.

STATE TABLE 9.—DAMS, BY MATERIAL, 1940

MATERIAL	Diversion	Storage
	Number	*Number*
Total	3	5
Concrete or masonry	1	1
Timber	2	.....
Earth and rock	.....	4

STATE TABLE 10.—WATER USED, BY SOURCE OF SUPPLY, 1939

ITEM (For definitions and explanations, see text)		Quantity used
From surface sources reported:		
Total water entering canals	acre-feet	[1] 2,842
Area irrigated by these enterprises	acres	[1] 3,186
Average water per acre irrigated	acre-feet	[1] 0.9
Total water delivered to irrigators	acre-feet	[2] 68,566
Area irrigated by these enterprises	acres	36,391
Average water per acre irrigated	acre-feet	1.9
From underground sources reported:		
Total water delivered to irrigators	acre-feet	[2] 125,953
Area irrigated by these enterprises	acres	74,984
Average water per acre irrigated	acre-feet	1.7

[1] Data only for enterprises serving 5 or more farms. [2] Quantities of water shown are estimates, no measured water was reported.

STATE TABLE 11.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE, 1940

ITEM		Area
Enterprises reporting land drained or needing drainage	number	847
Area irrigable in these enterprises	acres	73,383
Area irrigated in these enterprises	acres	46,323
Area for which drains have been installed	acres	53,275
Additional area needing drainage	acres	5,573

ITEM		Percent
Ratio of area drained to area irrigated in—		
(a) Enterprises reporting lands drained and/or needing drainage	percent	115.0
(b) All irrigation enterprises	percent	40.2
Ratio of area drained plus area needing drainage to—		
(a) Irrigable area reporting	percent	80.2
(b) Irrigated area reporting	percent	127.0

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STATE TABLE 12.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL*	IRRIGATED FARMS		
			No farms[1] *	1 farm	2 to 4 farms
1	Enterprises, 1940 ..... number...	3,628	104	3,368	140
2	Irrigated farms, 1939 ..... number...	3,930	.....	3,368	341
3	Area irrigated, 1939 ..... acres....	132,362	.....	114,666	12,185
4	(a) From which crops were harvested ..... acres....	125,474	.....	108,920	11,043
5	(b) On which crops failed ..... acres....	4,204	.....	3,070	1,134
6	(c) Irrigated pasture ..... acres....	2,684	.....	2,676	8
	CAPITAL INVESTMENT, 1940				
7	Total capital investment in all enterprises[2] ..... dollars..	7,055,921	130,509	6,121,545	736,512
8	Area works were capable of supplying with water ..... acres....	175,813	3,273	149,040	15,634
9	Average investment per acre irrigated ..... dollars..	53.31	.....	53.39	60.44
10	Average investment per acre which the works could supply with water ..... dollars..	40.13	39.87	41.07	47.11
	MAINTENANCE AND OPERATION, 1939				
11	Enterprises reporting maintenance and operation ..... number...	2,944	58	2,749	124
12	(a) Area irrigated in these enterprises ..... acres....	112,515	.....	97,379	11,638
13	(b) Cost of maintenance and operation ..... dollars..	370,340	8,711	304,866	44,232
14	(c) Average cost per irrigated acre reporting ..... dollars..	3.29	.....	3.13	3.80
	TYPE, 1940				
15	Individual and partnership ..... number...	3,578	101	3,339	136
16	Cooperative (incorporated and unincorporated) ..... number...	39	2	29	4
17	Commercial ..... number...	10	1	.....	.....
18	All other ..... number...	1	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939				
19	Enterprises reporting pay roll ..... number...	3	1	.....	.....
20	Wages and salaries paid and payable for 1939 ..... dollars..	5,288	(3)	.....	.....
21	Persons employed during week ending April 29, 1939 ..... number...	5	.....	.....	.....
	SOURCE OF WATER SUPPLY, 1939				
22	Streams, gravity ..... number...	1	.....	1	.....
23	Streams, pumped ..... number...	21	1	17	2
24	Wells, pumped ..... number...	1,096	63	999	34
25	Wells, pumped and flowing; or wells flowing ..... number...	1,811	26	1,743	41
26	Lakes, gravity or pumped ..... number...	537	10	471	47
27	Streams and springs; or springs ..... number...	2	.....	2	.....
28	Mixed, streams and wells ..... number...	4	1	3	.....
29	Other mixed or stored storm water ..... number...	156	3	132	16

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Enumerated as cost of irrigation works and equipment to December 31, 1939.

STATE TABLE 13.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
St. Johns River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Jacksonville	Duval	18	51.39	+1.65	12.36	+2.90	5.68	-3.00	13.78	+2.05	19.57	-0.30	70.7	+1.4
Ocala	Marion	84	54.37	+1.20	2.50	-5.36	4.91	-4.45	16.36	+2.39	30.60	+8.62	72.3	+2.3
Orlando	Orange	106	54.94	+2.59	5.67	-2.96	3.31	-4.52	25.48	+11.30	20.48	-1.23	72.3	+0.3
Palatka	Putnam	50	52.33	-0.42	8.38	+0.70	5.77	-3.32	13.71	-1.84	24.47	+4.04	71.4	+0.5
Sanford	Seminole	25	54.05	+3.54	5.02	-3.68	2.48	-4.92	19.32	+5.63	27.23	+6.51	73.3	+1.6
North Everglades														
Fort Myers	Lee	8	60.88	+8.49	4.17	-3.20	1.36	-4.31	27.86	+12.94	27.49	+3.06	74.7	+1.3
Fort Pierce	St. Lucie	5	42.82	-6.97	11.78	+0.14	2.05	-5.61	14.36	+1.78	14.63	-3.28	(2)	(2)
Kissimmee	Osceola	69	57.45	+7.39	5.15	-3.09	3.18	-4.89	23.42	+9.79	25.70	+5.58	72.3	+0.1
Moore Haven	Glades	22	48.79	-1.16	5.55	-0.67	1.32	-4.18	11.17	-5.21	30.75	+8.90	73.4	+0.6
Okeechobee	Okeechobee	27	55.17	+7.23	7.80	+0.17	3.06	-2.87	22.05	+8.10	22.26	+1.83	73.2	+0.5
South Everglades														
Everglades	Collier	6	50.09	-3.85	7.26	+1.46	2.02	-2.75	12.06	-4.14	28.75	+1.58	76.0	+1.1
Homestead	Dade	8	52.06	-10.54	7.56	-6.84	1.58	-4.35	19.75	+1.29	23.17	-0.64	74.0	-0.2
North Gulf of Mexico Slope														
Pensacola	Escambia	11	59.00	+1.15	3.88	-8.67	9.29	-3.81	17.59	+5.51	28.24	+8.12	68.0	+0.3
Tallahassee	Leon	192	71.93	+16.35	5.80	-4.15	12.15	-0.39	28.55	+14.79	25.43	+6.10	69.0	+1.3
Suwannee River														
Lake City	Columbia	197	44.58	-5.30	3.19	-4.75	6.27	-3.98	13.56	+0.41	21.56	+3.02	69.7	+0.6
Withlacoochee River														
Brooksville	Hernando	275	56.05	+0.29	7.32	-0.87	3.40	-5.12	18.10	+3.31	27.23	+2.97	72.8	+1.7
Bushnell	Sumter	75	46.80	(2)	4.89	(2)	1.89	(2)	13.05	(2)	26.97	(2)	69.9	(2)
Tampa Bay														
Clearwater	Pinellas	34	58.58	(2)	11.32	(2)	4.24	(2)	19.88	(2)	23.14	(2)	73.7	(2)
Tampa	Hillsborough	23	55.91	+6.55	7.93	+1.05	3.25	-4.43	17.22	+4.97	27.51	+4.96	73.1	+1.3
Peace Creek														
Arcadia	De Soto	56	62.58	+12.42	7.66	+0.60	2.73	-4.17	28.24	+14.90	23.95	+1.09	73.5	+0.7
Bartow	Polk	115	59.50	+4.19	8.98	+1.49	2.26	-6.04	26.09	+10.51	22.17	-1.77	72.5	+0.3

[1] Departure from normal. [2] Data not available.

AND OPERATION, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

IRRIGATED FARMS—Con.		ACRES IRRIGATED					COST OF IRRIGATION WORKS AND EQUIPMENT				
5 to 24 farms	25 to 99 farms	No acres[1] *	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999[2]	$100,000 to $1,499,999	
15	1	104	3,286	177	56	5	3,345	227	53	3	1
188	33	.....	3,437	327	160	6	3,539	318	67	6	2
5,511		.....	62,126	28,060	32,011	10,165	84,853	27,123	17,392	2,944	3
5,511		.....	60,431	26,851	29,841	8,351	81,427	25,428	15,725	2,894	4
.....		.....	789	806	1,795	814	1,747	690	1,667	100	5
.....		.....	906	403	375	1,000	1,679	1,005	.....	.....	6
67,355		130,509	4,599,651	1,255,974	788,213	281,574	3,401,522	1,666,565	1,539,834	448,000	7
7,866		3,273	83,994	32,553	42,743	13,250	112,545	34,685	24,437	4,146	8
12.22		.....	74.04	44.76	24.62	27.70	40.09	61.44	88.54	149.63	9
8.56		39.87	54.76	38.58	18.44	21.25	30.22	48.05	63.01	108.06	10
13	.....	58	2,682	155	44	5	2,699	196	46	3	11
3,498	.....	.....	53,891	24,651	23,808	10,165	72,523	23,719	13,279	2,994	12
12,531	.....	8,711	213,950	76,951	62,947	7,781	216,141	81,585	65,069	7,545	13
3.58	.....	.....	3.97	3.12	2.64	0.77	2.98	3.44	4.90	2.52	14
2	.....	101	3,267	161	44	5	3,312	214	49	3	15
4	.....	2	19	9	9	.....	24	12	3	.....	16
9	.....	1	.....	7	2	.....	8	1	1	.....	17
.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	18
2	.....	1	.....	2	.....	.....	2	.....	1	.....	19
[3]	.....	[3]	.....	[3]	.....	.....	[3]	.....	[3]	.....	20
[3]	.....	.....	.....	[3]	.....	.....	[3]	.....	.....	.....	21
.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	22
1	.....	1	14	1	4	1	16	3	1	1	23
.....	.....	63	992	37	4	.....	1,031	54	10	1	24
1	.....	26	1,709	62	13	1	1,689	100	22	.....	25
9	.....	10	459	52	15	1	474	56	7	.....	26
.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	27
.....	.....	1	2	.....	1	.....	3	.....	1	.....	28
4	1	3	107	25	19	2	129	14	12	1	29

[3]Data are included only in State totals because less than 3 enterprises reported.
[2]Includes data for 1 supplemental enterprise (see text for explanation of supplemental enterprises).

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

GENERAL WEATHER SUMMARY

1938

January was cool and dry, as reported by the U. S. Weather Bureau. Cold weather on the 27-29th overspread the State, with freezing as far south as Homestead. Tender truck was damaged extensively, but citrus damage was small. February, March, and April were warm and dry. Dry weather beginning with December 1937 lasted until near the end of May 1938, the rainfall for this period being about half the normal for the whole State, and considerable less than half for the southern division. Development of spring truck was checked, and citrus groves suffered severely. Leaves were wilting, fruit dropping, and young trees were dying. Abundant rains during the last week of May and the first week in June forced the heaviest June bloom in many years, much of which matured good fruit. In northern Florida, the drought was less severe, cotton made good growth, corn made a good crop, and tobacco matured a large crop of excellent quality.

1939

The dry weather of the closing months of 1938 continued into 1939, January, February, and March being warm and dry. Average temperatures were higher in three previous Februaries, but a maximum of 94° in February has been equalled once only and never exceeded. April was very wet, rainfall averaging about 150 percent of normal. May also was rather wet, heavy rains occurring in Tampa damaging streets and a sewer project, with some wind damage to trees and roofs. June, July, and August rainfall averaged above normal, the August average being the third highest of record and about 150 percent of normal. Heavy rains occurred again in the Tampa area in July, damaging streets and bridge approaches. The final four months of the year were dry, with temperatures varying only slightly from normal except for October which was warm.

Precipitation.—The United States Weather Bureau reports the precipitation in Florida for the "Northern Division" in which De Land, Volusia County, and Ocala, Marion County, are the two most southern stations and a "Southern Division" in which Sanford, Seminole County, and Bushnell, Sumter County, are the two most northern stations. The greater part of the irrigated lands in Florida is located in the "Southern Division."

COMPARATIVE ANNUAL DATA FOR APPROXIMATELY 92 STATIONS

Year	Remarks	Average North (41 Stations)	Average South (51 Stations)	Average State
		Inches	*Inches*	*Inches*
1939.....	Census year.....	54.85	54.22	54.54
1938.....	.....	44.86	41.41	43.17
1927.....	Driest year.....	42.80	38.74	40.78
1912.....	Wettest year.....	67.35	63.19	65.27
Period....	49 years.....	53.32	52.14	52.73

State table 13 shows precipitation in Florida for the water year (October 1938 through September 1939) at 21 Weather Bureau stations located in typical major drainage basins. With the exception of Pensacola, Tallahassee, Lake City, and Ocala located in northwestern Florida, all the stations shown are in or near irrigated areas.

The average rainfall for the water year at 19 of these stations which had complete records, with departures, was 54.94 inches, a departure of +2.36 inches from normal. However, the average rainfall for the 3 months of October, November, and December, 1938, was 6.73 inches, a departure of -1.88 inches, and for the months of January, February, and March, 1939, the average was 4.00 inches, a departure of -4.06 inches from the normal for these 3 months at the 19 stations. Since the principal planting and growing season for many of Florida's most valuable crops is the first 6 months of the water year, the distribution and amount of rainfall during that period indicates the need for irrigation more than the total for either a calendar or water year. The precipitation received during the last half of the water year (April through September), even during the driest of years is usually sufficient to maintain growth and provide replenishment of both underground and surface waters to meet the needs of irrigation during the winter dry season. Therefore, the amount and distribution of rainfall during the last half of the water year are minor factors in determining the need for irrigation in Florida.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939; CAPITAL INVESTED AND IRRIGABLE AREA, 1940; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	St. Marys River[1] (1)	St. Johns River and North Atlantic Slope[2] (2)	Kissimmee and Caloosahatchee Rivers (3)	Everglades (4)	Withlacoochee River (13)	Tampa Bay (14)	Peace Creek (15)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939..number....	3,930	3	952	1,095	306	103	829	642
2	Area irrigated....1939..acres....	132,362	33	26,266	39,749	23,962	1,285	18,411	22,656
3	(a) Cropland harvested....1939..acres....	125,474	33	25,830	36,906	21,282	1,256	18,113	22,054
4	(b) Crop failure....1939..acres....	4,204	.....	379	883	2,588	29	159	166
5	(c) Pasture....1939..acres....	2,684	.....	57	1,960	92	.....	139	436
6	Irrigable area in enterprises....1940..acres....	188,557	43	32,884	57,752	36,831	1,529	25,445	34,073
7	Excess of irrigable area over the area irrigated...1940..acres....	56,195	10	6,618	18,003	12,869	244	7,034	11,417
8	Area works were capable of supplying with water....1940..acres....	175,813	43	32,474	53,181	30,758	1,528	23,985	33,844
9	Excess of area works were capable of supplying with water over area irrigated....1940..acres....	43,451	10	6,208	13,432	6,796	243	5,574	11,188
10	Proportion which area irrigated is of area works were capable of supplying with water....1939..percent....	75.3	76.7	80.9	74.7	77.9	84.1	76.8	66.9
	CAPITAL INVESTED TO JANUARY 1								
11	Total investment in irrigation enterprises[3]....1940..dollars....	7,055,921	5,825	2,634,891	1,058,740	685,870	134,491	1,394,274	1,141,830
12	Average investment based on area works were capable of supplying with water, per acre....1940..dollars....	40.13	135.47	81.14	19.91	22.30	88.02	58.13	33.74
13	Average investment per acre irrigated....1939..dollars....	53.31	176.52	100.32	26.64	28.62	104.66	75.73	50.40
14	Estimated final investment in existing enterprises....1940..dollars....	7,228,453	5,825	2,676,832	1,086,066	753,180	136,446	1,408,944	1,161,160
15	Average investment based on estimated final investment and irrigable area, per acre....1940..dollars....	38.34	135.47	81.40	18.81	20.45	89.24	55.37	34.08
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
16	Enterprises reporting maintenance and operation....1939..number....	2,944	3	720	911	200	61	589	460
17	Area irrigated in these enterprises....1939..acres....	112,515	33	23,880	36,020	20,437	1,071	14,154	16,920
18	Cost of maintenance and operation....1939..dollars....	370,340	1,160	96,400	57,428	46,254	11,006	66,607	91,485
19	Average cost, per acre irrigated....1939..dollars....	3.29	35.15	4.04	1.59	2.26	10.28	4.71	5.41
	WATER DELIVERED TO IRRIGATORS, 1939								
20	Enterprises reporting water delivered....1939..number....	2,878	3	704	784	253	100	601	433
21	Area irrigated by these enterprises....1939..acres....	111,375	33	23,346	32,476	22,542	1,269	15,042	16,667
22	Water delivered....1939..acre-feet..	194,519	100	30,723	50,897	72,576	2,879	20,424	16,920
23	Average water delivered per acre irrigated....1939..acre-feet..	1.7	3.0	1.3	1.6	3.2	2.3	1.4	1.0
24	Average cost of water per acre irrigated....1939..dollars....	3.29	35.15	3.67	1.72	1.84	10.28	5.17	5.88
25	Average cost of water per acre-foot delivered...1939..dollars....	1.89	11.60	2.79	1.10	0.57	4.53	3.81	5.79
	DRAINAGE OF IRRIGATED LAND								
26	Enterprises reporting land drained or needing drainage....1939..number....	847	.....	244	441	76	5	55	26
27	Irrigable area in these enterprises....1939..acres....	73,383	.....	6,307	30,814	27,901	391	2,691	5,279
28	Irrigated area in these enterprises....1939..acres....	46,323	.....	5,422	18,716	17,132	384	1,929	2,740
29	Area for which drains have been installed....1939..acres....	53,275	.....	5,000	24,778	19,494	260	2,148	1,595
30	Additional area needing drainage....1939..acres....	5,573	.....	224	834	4,210	106	97	102

[1] Data for 1 enterprise in Aucilla River Drainage Basin (11) (number refers to separate map) are included with St. Marys River Drainage Basin (1).
[2] Data for Suwannee River Drainage Basin (12) (number refers to separate map) are included with St. Johns River and North Atlantic Slope Drainage Basin (2).
[3] Enumerated as cost of irrigation works and equipment to December 31, 1939.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940

	ITEM (For definitions and explanations, see text. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	St. Marys River[1] (1)	St. Johns River and North Atlantic Slope[2] (2)	Kissimmee and Caloosahatchee Rivers (3)	Everglades (4)	Withlacoochee River (13)	Tampa Bay (14)	Peace Creek (15)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	3,628	3	842	1,038	269	102	811	563
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	48	14	39	51	114	15	30	60
3	Diversion dams....1940..total number	3	.....	.....	2	.....	.....	1	.....
4	(a) Concrete and masonry....1940..number	1	.....	.....	.....	.....	.....	1	.....
5	(b) Timber....1940..number	2	.....	.....	2	.....	.....	.....	.....
6	(c) Earth and rock....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
7	(d) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....	.....	.....
8	Main canals and laterals....1940..total length, miles	74.0	.....	2.0	57.0	8.0	2.0	5.0	.....
9	(a) Earth....1940..length, miles	74	.....	2	57	8	2	5	.....
10	(b) Lined....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
11	1940..capacity, c.f.s.[3]	1,947	1	293	669	429	16	124	415
12	Pipe lines[4]....1940..total length, miles	4,259.9	2.5	3,106.4	64.8	34.8	42.8	728.0	280.6
13	(a) Concrete....1940..length, miles	132.6	.....	16.9	1.4	0.5	3.2	108.5	2.1
14	(b) Metal....1940..length, miles	971.7	2.5	245.5	49.0	33.4	38.4	340.2	262.7
15	(c) Wood-stave....1940..length, miles	5.3	.....	0.5	.....	0.5	1.2	0.1	3.0
16	(d) Other....1940..length, miles	3,150.3	.....	2,843.5	14.4	0.4	.....	279.2	12.8
17	Storage dams....1940..total number	5	.....	1	3	.....	.....	.....	1
18	(a) Concrete and masonry....1940..number	1	.....	1	.....	.....	.....	.....	.....
19	(b) Earth and rock....1940..number	4	.....	.....	3	.....	.....	.....	1
20	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....	.....	.....
21	Reservoirs....1940..total number	7	.....	4	2	.....	.....	.....	1
22	(a) 1-99 acre-feet capacity....1940..number	5	.....	3	1	.....	.....	.....	1
23	(b) 100-999 acre-feet capacity....1940..number	1	.....	1	.....	.....	.....	.....	.....
24	(c) 1,000 and over acre-feet capacity....1940..number	1	.....	.....	1	.....	.....	.....	.....
25	1940..total capacity, ac.-ft.[5]	19,419	.....	216	([6])	.....	.....	.....	([6])
26	Wells, flowing....1940..number	4,631	.....	2,015	1,480	1	.....	763	372
27	1940..yield, g.p.m.	994,828	.....	324,765	368,125	([6])	.....	221,823	80,090
28	Wells, pumped....1940..number	1,686	3	360	47	209	127	546	394
29	1940..yield, g.p.m.	482,144	550	92,236	12,598	64,800	30,900	171,113	109,947
30	Pumping plants....1940..total number	2,321	5	577	127	369	126	603	514
31	Prime movers....1940..capacity, hp	29,588	58	6,298	3,053	5,952	961	5,392	7,874
32	(a) Electric....1940..number	347	1	109	21	49	21	86	60
33	1940..capacity, hp	4,632	([6])	991	683	343	239	1,022	1,329
34	(b) Internal-combustion....1940..number	1,959	4	465	105	317	105	512	451
35	1940..capacity, hp	24,893	33	5,302	2,369	5,602	722	4,332	6,533
36	(c) Other....1940..number	15	.....	3	1	3	.....	5	3
37	1940..capacity, hp	63	.....	5	([6])	7	.....	38	12
38	Pumps....1940..total number	2,349	5	593	127	372	127	608	517
39	1940..capacity, g.p.m.	2,104,450	1,065	227,653	320,478	1,029,146	38,462	211,843	275,803
40	(a) Centrifugal....1940..number	1,849	3	514	77	196	120	496	443
41	1940..capacity, g.p.m.	1,008,724	1,015	203,407	46,800	294,474	37,462	177,564	248,002
42	1940..average capacity, g.p.m.	546	338	396	608	1,502	312	358	560
43	(b) Turbine....1940..number	200	.....	31	26	59	2	53	29
44	1940..capacity, g.p.m.	429,039	.....	17,735	82,750	285,951	([6])	26,053	16,250
45	1940..average capacity, g.p.m.	2,145	.....	572	3,183	4,847	([6])	492	560
46	(c) Plunger....1940..number	176	2	32	10	38	4	52	38
47	1940..capacity, g.p.m.	19,155	([6])	2,204	928	2,271	550	5,451	7,701
48	1940..average capacity, g.p.m.	109	([6])	69	93	60	138	105	203
49	(d) Other....1940..number	124	.....	16	14	79	1	7	7
50	1940..capacity, g.p.m.	647,532	.....	4,307	190,000	446,450	([6])	2,775	3,850
51	Pumping lift, from all sources....1940..average, feet	20	30	19	28	13	14	21	24
52	from pumped wells....1940..average, feet	21	15	17	30	17	14	22	25
53	from surface sources...1940..average, feet	19	35	20	27	5	17	15	23

[1] Data for 1 enterprise in Aucilla River Drainage Basin (11) (number refers to separate map) are included with St. Marys River Drainage Basin (1).
[2] Data for Suwannee River Drainage Basin (12) (number refers to separate map) are included with St. Johns River and North Atlantic Slope Drainage Basin (2).
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Total capacity of all reservoirs regardless of size.
[6] Data are included only in totals because less than 3 enterprises reported.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940; IRRIGATED AREA, 1939; IN IRRIGATED FARMS, 1940; WATER DELIVERED TO

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alachua	Broward	Charlotte	Dade	De Soto	Duval	Flagler
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940..number....	62,248	2,108	946	102	1,439	604	1,436	107
2	Irrigated farms....1940..number....	3,947	10	86	23	168	103	28	34
	Operated by—								
3	(a) Owners and managers....1940..number....	3,490	9	38	15	112	97	26	34
4	(b) Tenants....1940..number....	457	1	48	8	56	6	2	.....
5	Land in all farms....1940..acres....	8,337,708	258,818	77,559	38,094	70,503	146,291	61,067	30,786
6	Land in irrigated farms....1940..acres....	596,139	754	23,759	1,605	11,283	25,637	750	22,978
7	Average per farm....1940..acres....	151	75	276	70	67	249	27	676
8	(a) Operated by owners and managers....1940..acres....	575,825	(1)	19,847	803	9,553	25,199	(1)	22,978
9	Average per farm....1940..acres....	165	(1)	522	54	85	260	(1)	676
10	(b) Operated by tenants....1940..acres....	20,314	(1)	3,912	802	1,730	438	(1)	.....
11	Average per farm....1940..acres....	44	(1)	82	100	31	73	(1)	.....
12	Approximate land area....1940..acres....	34,727,680	570,880	779,520	451,200	1,314,560	414,720	497,280	309,120
	IRRIGATED AND IRRIGABLE AREAS								
13	Area irrigated....1939..acres....	132,362	263	10,081	981	1,721	3,099	195	721
14	(a) Cropland harvested....1939..acres....	125,474	263	8,806	626	1,656	2,968	193	679
15	(b) Crop failure....1939..acres....	4,204	.....	1,260	11	22	73	.....	20
16	(c) Pasture....1939..acres....	2,684	.....	15	344	43	58	2	22
17	Irrigable area in enterprises....1940..acres....	188,557	383	12,626	2,462	2,500	4,634	282	1,138
18	Excess of irrigable area over the area irrigated...1940..acres....	56,195	120	2,545	1,481	779	1,535	87	417
19	Area works were capable of supplying with water....1940..acres....	175,813	323	11,599	2,462	2,460	4,505	252	1,113
20	Excess, capability of works over area irrigated....1940..acres....	43,451	60	1,518	1,481	739	1,406	57	392
21	Proportion which area irrigated is of all lands in irrigated farms....1939..percent....	22.2	34.9	42.4	61.1	15.3	12.1	26.0	3.1
22	Proportion which area irrigated is of area works were capable of supplying with water....1939..percent....	75.3	81.4	86.9	39.8	70.0	68.8	77.4	64.8
	CAPITAL INVESTED TO JANUARY 1								
23	Total investment in all enterprises[2]....1940..dollars....	7,055,921	11,000	411,047	24,136	86,556	150,069	27,307	12,669
24	Average investment, based on area works were capable of supplying with water, per acre....1940..dollars....	40.13	34.06	35.44	9.80	35.19	33.31	108.36	11.38
25	Average investment per acre irrigated....1939..dollars....	53.31	41.83	40.77	24.60	50.29	48.42	140.04	17.57
26	Estimated final investment in existing enterprises..1940..dollars....	7,228,453	11,000	428,197	24,236	93,316	154,669	27,857	13,119
27	Average investment, based on estimated final investment and irrigable area, per acre....1940..dollars....	38.34	28.72	33.91	9.84	37.33	33.38	98.78	11.53
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
28	Enterprises reporting maintenance and operation....1939..number....	2,944	5	36	22	80	97	15	35
29	Area irrigated in these enterprises....1939..acres....	112,515	134	7,412	731	1,286	2,835	66	611
30	Cost of maintenance and operation....1939..dollars....	370,340	754	21,384	404	8,618	6,450	326	509
31	Average cost, per acre irrigated....1939..dollars....	3.29	5.63	2.89	0.55	6.70	2.28	4.94	0.83
	WATER DELIVERED TO IRRIGATORS								
32	Enterprises reporting water delivered....1939..number....	2,878	6	43	14	122	70	9	32
33	Area irrigated in these enterprises....1939..acres....	111,375	263	9,066	522	1,675	2,217	35	628
34	Water delivered in these enterprises....1939..acre-feet..	194,519	468	30,899	1,183	2,495	2,437	60	548
35	Average water delivered per acre irrigated....1939..acre-feet..	1.7	1.8	3.4	2.3	1.5	1.1	1.7	0.9
36	Average cost of water per acre irrigated....1939..dollars....	3.29	5.63	1.72	0.55	6.70	2.94	7.03	0.83
	DRAINAGE OF IRRIGATED LAND								
37	Enterprises reporting land drained or needing drainage....1939..number....	847	1	40	6	3	4	1	.....
38	Irrigable area in these enterprises....1939..acres....	73,383	(1)	12,207	289	109	140	(1)	.....
39	Irrigated area in these enterprises....1939..acres....	46,323	.....	10,002	124	56	95	(1)	.....
40	Area for which drains have been installed....1939..acres....	53,275	(1)	10,133	125	90	18	(1)	.....
41	Additional area needing drainage....1939..acres....	5,573	.....	191	1	19	21	.....	.....

*Census of Agriculture. [1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA AND CAPITAL INVESTED, 1940; MAINTENANCE AND OPERATION, 1939; LAND IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Hardee	Hendry	Highlands	Hillsborough	Indian River	Lake	Lee	Manatee	Marion	Martin	Orange	Osceola	Palm Beach	Pasco	Pinellas	
1,132	156	389	3,630	742	2,017	291	676	2,146	117	2,399	442	808	1,107	732	1
102	17	15	331	582	138	107	350	11	9	251	8	89	31	88	2
86	15	14	284	570	134	77	258	11	6	244	7	74	31	84	3
16	2	1	47	12	4	30	92	.....	3	7	1	15	.....	4	4
149,812	324,164	334,038	181,408	112,877	113,524	20,984	57,695	220,050	37,204	209,835	488,388	80,175	106,428	28,607	5
6,667	1,403	1,317	18,188	60,502	13,997	8,898	21,751	12,245	10,035	23,932	439	23,645	4,146	8,566	6
65	83	88	55	104	101	83	62	1,113	1,115	95	55	266	134	97	7
6,347	(1)	(1)	16,059	59,739	13,933	7,804	20,347	12,245	9,330	23,665	(1)	22,198	4,146	8,519	8
74	(1)	(1)	57	105	104	101	79	1,113	1,555	97	(1)	300	134	101	9
320	(1)	(1)	2,129	763	64	1,094	1,404	.....	705	267	(1)	1,447	.....	47	10
20	(1)	(1)	45	64	16	36	15	.....	235	38	(1)	96	.....	12	11
403,200	759,660	666,240	665,600	327,040	637,440	503,040	448,640	1,034,880	357,760	586,240	848,000	1,265,920	480,640	168,960	12
787	286	1,038	4,062	16,298	4,032	4,974	8,977	668	3,599	8,341	303	10,244	1,025	3,436	13
758	266	1,038	4,005	15,068	4,032	4,758	8,739	668	2,435	8,158	303	9,718	1,025	3,436	14
23	.....	.....	27	40	.....	70	131	.....	1,164	183	.....	492	.....	.....	15
6	20	.....	30	1,190	.....	146	107	.....	.....	.....	.....	34	.....	.....	16
1,677	629	1,604	6,605	23,647	4,858	5,740	12,369	673	10,620	11,589	303	16,774	1,196	3,798	17
890	343	566	2,543	7,349	826	766	3,392	5	7,021	3,248	.....	6,530	171	362	18
1,653	629	1,508	5,334	22,091	4,816	5,740	12,226	670	5,024	11,559	303	14,768	1,196	3,752	19
866	343	470	1,272	5,793	784	766	3,249	2	1,425	3,218	.....	4,524	171	316	20
11.8	20.4	78.8	22.3	26.9	28.8	55.9	41.3	5.5	35.9	34.9	69.0	43.3	24.7	40.1	21
47.6	45.5	68.8	76.2	73.8	83.7	86.7	73.4	99.7	71.6	72.2	100.0	69.4	85.7	91.6	22
44,379	27,831	49,538	409,696	398,164	136,257	86,290	697,512	26,188	140,500	767,183	10,900	156,267	31,175	173,833	23
26.85	44.25	32.85	76.81	18.02	28.29	15.03	57.05	39.09	27.97	66.37	35.97	10.58	26.07	46.33	24
56.39	97.31	47.72	100.86	24.43	33.79	17.35	77.70	39.20	39.04	91.98	35.97	15.25	30.41	50.59	25
45,579	28,056	54,538	422,841	398,664	136,510	86,690	697,687	26,188	197,000	770,514	10,900	159,667	31,325	174,733	26
27.18	44.60	34.00	64.02	16.86	28.10	15.10	56.41	38.91	18.55	66.49	35.97	9.52	26.19	46.01	27
75	12	10	290	510	86	65	212	11	5	175	7	80	16	48	28
676	212	975	2,874	15,248	3,608	2,985	7,018	650	3,599	8,111	303	9,878	949	2,598	29
3,798	505	4,816	20,386	18,133	19,285	713	25,391	2,376	11,595	34,556	1,124	13,182	7,800	10,490	30
5.62	2.38	4.94	7.0.	1.19	5.35	0.24	3.62	3.66	3.22	4.26	3.71	1.33	8.22	4.04	31
80	5	12	322	445	96	5	185	12	5	186	7	82	16	53	32
717	114	1,024	3,960	14,470	3,882	456	6,596	668	3,599	8,258	303	9,885	949	2,709	33
661	41	1,141	4,772	27,768	2,908	631	11,441	651	33,471	7,856	265	14,090	1,015	2,194	34
0.9	0.4	1.1	1.2	1.9	0.7	1.4	1.7	1.0	9.3	1.0	0.9	1.4	1.1	0.8	35
5.63	3.62	4.94	7.08	1.14	5.42	1.29	4.40	3.66	3.22	4.17	3.71	1.33	8.22	3.98	36
1	.....	4	21	341	2	62	23	.....	5	12	.....	32	1	8	37
(1)	.....	181	283	18,006	(1)	3,866	1,476	.....	10,620	379	.....	10,785	(1)	887	38
(1)	.....	74	190	11,371	(1)	3,220	867	.....	3,599	237	.....	5,274	(1)	832	39
(1)	.....	31	188	15,285	(1)	3,672	1,317	.....	5,024	178	.....	7,471	(1)	619	40
.....	.....	.....	41	116	(1)	15	20	.....	3,700	.....	.....	1,000	(1)	22	41

[2] Enumerated as cost of irrigation works and equipment to December 31, 1939.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940; IRRIGATED AREA, 1939; IRRIGABLE AREA AND CAPITAL INVESTED, 1940; MAINTENANCE AND OPERATION, 1939; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Polk	Putnam	St. Johns	St. Lucie	Sarasota	Seminole	Sumter	Volusia	All other counties
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*									
1	All farms....1940..number....	4,273	850	348	598	191	760	804	1,518	29,380
2	Irrigated farms....1940..number....	340	52	47	294	62	317	99	66	89
	Operated by—									
3	(a) Owners and managers....1940..number....	320	51	46	285	47	287	86	57	85
4	(b) Tenants....1940..number....	20	1	1	9	15	30	13	9	4
5	Land in all farms....1940..acres....	458,825	69,073	33,946	154,668	228,982	65,744	101,610	263,286	3,813,067
6	Land in irrigated farms....1940..acres....	131,782	5,799	3,313	79,942	6,439	23,771	14,432	8,322	19,842
7	Average per farm....1940..acres....	388	112	70	272	104	75	146	126	223
8	(a) Operated by owners and managers....1940..acres....	131,023	(1)	(1)	79,012	5,909	23,082	13,615	7,971	19,102
9	Average per farm....1940..acres....	409	(1)	(1)	277	126	80	158	140	225
10	(b) Operated by tenants....1940..acres....	759	(1)	(1)	930	530	689	817	351	740
11	Average per farm....1940..acres....	38	(1)	(1)	103	35	23	63	39	185
12	Approximate land area....1940..acres....	1,191,040	513,920	389,760	376,320	375,040	205,440	359,040	713,600	17,112,960
	IRRIGATED AND IRRIGABLE AREAS									
13	Area irrigated....1939..acres....	17,658	2,136	1,798	12,440	4,392	6,788	694	1,188	137
14	(a) Cropland harvested....1939..acres....	17,564	2,117	1,798	11,417	4,392	6,670	665	1,116	137
15	(b) Crop failure....1939..acres....	64	.....	.....	419	.....	109	29	67	.....
16	(c) Pasture....1939..acres....	30	19	.....	604	.....	9	.....	5	.....
17	Irrigable area in enterprises....1940..acres....	26,028	2,670	1,966	15,063	6,496	7,660	876	1,525	166
18	Excess of irrigable area over the area irrigated...1940..acres....	8,370	534	168	2,623	2,104	872	182	337	29
19	Area works were capable of supplying with water....1940..acres....	25,985	2,661	1,906	14,740	6,463	7,514	875	1,520	166
20	Excess, capability of works over area irrigated....1940..acres....	8,327	525	108	2,300	2,071	726	181	332	29
21	Proportion which area irrigated is of all lands in irrigated farms....1939..percent....	13.4	36.8	54.3	15.6	68.2	28.6	4.8	14.3	0.7
22	Proportion which area irrigated is of area works were capable of supplying with water....1939..percent....	68.0	80.3	94.3	84.4	68.0	90.3	79.3	78.2	82.5
	CAPITAL INVESTED TO JANUARY 1									
23	Total investment in all enterprises[2]....1940..dollars....	1,061,401	64,538	28,275	231,796	93,070	1,497,992	112,795	77,532	10,025
24	Average investment, based on area works were capable of supplying with water, per acre....1940..dollars....	40.65	24.25	14.83	15.73	14.40	199.36	128.91	51.01	60.39
25	Average investment per acre irrigated....1939..dollars....	60.11	30.21	15.73	18.63	21.19	220.68	162.53	65.26	73.18
26	Estimated final investment in existing enterprises..1940..dollars....	1,079,132	64,538	28,275	232,196	93,570	1,535,199	114,550	77,682	10,025
27	Average investment, based on estimated final investment and irrigable area, per acre....1940..dollars....	41.46	24.17	14.38	15.41	14.40	200.42	130.76	50.94	60.39
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS									
28	Enterprises reporting maintenance and operation....1939..number....	285	44	43	276	45	250	52	51	6
29	Area irrigated in these enterprises....1939..acres....	14,939	1,785	1,673	12,387	1,341	5,884	496	1,169	82
30	Cost of maintenance and operation....1939..dollars....	95,330	2,820	271	13,692	3,507	29,242	5,588	5,795	1,500
31	Average cost, per acre irrigated....1939..dollars....	6.38	1.58	0.16	1.11	2.62	4.97	11.27	4.96	18.29
	WATER DELIVERED TO IRRIGATORS									
32	Enterprises reporting water delivered....1939..number....	282	49	47	281	51	204	91	58	8
33	Area irrigated in these enterprises....1939..acres....	15,247	2,126	1,798	12,439	1,439	4,467	694	1,032	137
34	Water delivered in these enterprises....1939..acre-feet..	15,480	2,594	2,671	10,699	1,182	11,539	1,844	1,172	343
35	Average water delivered per acre irrigated....1939..acre-feet..	1.0	1.2	1.5	0.9	0.8	2.6	2.7	1.1	2.5
36	Average cost of water per acre irrigated....1939..dollars....	6.60	1.59	0.16	1.11	2.94	3.39	11.27	5.42	18.29
	DRAINAGE OF IRRIGATED LAND									
37	Enterprises reporting land drained or needing drainage....1939..number....	9	1	.....	31	8	223	4	4	.....
38	Irrigable area in these enterprises....1939..acres....	3,656	(1)	.....	3,041	1,172	5,144	91	304	.....
39	Irrigated area in these enterprises....1939..acres....	1,351	(1)	.....	2,352	1,143	4,580	84	304	.....
40	Area for which drains have been installed....1939..acres....	257	(1)	.....	2,666	1,152	4,364	60	106	.....
41	Additional area needing drainage....1939..acres....	74	.....	.....	3	20	209	6	.....	.....

* Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2] Enumerated as cost of irrigation works and equipment to December 31, 1939.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alachua	Broward	Charlotte	Dade	De Soto	Duval	Flagler
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	324,377,874	5,413,993	5,380,151	294,852	12,875,719	3,070,109	6,765,377	691,850
2	Land and buildings, irrigated farms.....dollars..	77,835,579	188,650	1,708,140	93,237	3,286,625	1,138,100	364,810	346,800
	Operated by—								
3	(a) Owners and managers.....dollars..	74,622,653	(1)	1,415,098	62,000	3,017,900	1,097,400	(1)	346,800
4	(b) Tenants.....dollars..	3,212,926	(1)	293,042	31,237	268,725	40,700	(1)	.....
5	Average, land and buildings, per farm.....dollars..	19,720.19	18,865.00	19,862.09	4,053.78	19,563.24	11,049.51	13,028.93	10,200.00
6	per acre in farms.....dollars..	130.57	250.20	71.89	58.09	291.29	44.39	486.41	15.09
7	Buildings, irrigated farms reporting value.....number...	3,320	9	35	21	160	83	27	34
8	Total reported.....dollars..	10,883,687	16,050	101,859	19,540	852,895	167,550	119,200	73,050
9	Average, per irrigated farm reporting.....dollars..	3,278.22	1,783.33	2,910.26	930.48	5,330.59	2,018.67	4,414.81	2,148.53
10	per acre on all irrigated farms.....dollars..	18.26	21.29	4.29	12.17	75.59	6.54	158.93	3.18
11	Buildings, nonirrigated farms reporting value.....number...	51,591	1,995	283	71	908	421	1,373	71
12	Total reported.....dollars..	57,327,320	1,649,759	619,060	44,550	2,150,743	440,017	2,949,633	109,350
13	Average, per nonirrigated farm reporting.....dollars..	1,111.19	826.95	2,187.49	627.46	2,368.66	1,045.17	2,148.31	1,540.14
14	per acre on all nonirrigated farms.....dollars..	7.41	6.39	11.51	1.22	36.32	3.65	48.90	14.00
15	Implements and machinery, irrigated farms reporting value.....number...	2,850	9	73	16	144	65	27	32
16	Total reported.....dollars..	4,665,526	9,915	234,328	5,235	246,437	80,370	37,785	73,035
17	Average, per irrigated farm reporting.....dollars..	1,644.04	1,101.67	3,209.97	327.19	1,711.37	1,236.46	1,399.44	2,282.34
18	per acre, on all irrigated farms.....dollars..	7.86	13.15	9.86	3.26	21.84	3.13	50.38	3.18
19	Implements and machinery, nonirrigated farms reporting value.....number...	41,515	1,606	678	55	828	286	1,051	67
20	Total reported.....dollars..	15,696,720	604,767	549,701	18,953	971,060	98,381	496,827	56,008
21	Average, per acre, on all nonirrigated farms.....dollars..	2.03	2.34	10.22	0.52	16.40	0.82	8.24	7.17
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940..number.....	3,628	7	46	32	133	127	26	37
23	Average size of enterprise based on irrigable area.....1940..acres.....	52	55	274	77	19	36	11	31
24	Diversion dams.....1940..number.....	3	.....	.....	.....	.....	.....	.....	.....
25	Main canals and laterals.....1940..length, miles.....	74.0	.....	8.0	.....	.....	.....	.....	.....
26	1940..capacity, c.f.s.[2]....	1,947	.....	37	2	.....	.....	.....	.....
27	Pipe lines[3].....1940..length, miles.....	4,259.9	1.5	0.9	1.1	21.1	17.9	11.9	1.2
28	Storage dams.....1940..number.....	5	.....	.....	1	.....	.....	.....	.....
29	Reservoirs.....1940..number.....	7	.....	.....	1	.....	.....	.....	.....
30	1940..capacity, acre-feet..	19,419	.....	.....	(1)	.....	.....	.....	.....
31	Wells, flowing.....1940..number.....	4,631	.....	.....	37	.....	92	22	41
32	1940..yield, g.p.m.....	994,828	.....	.....	16,140	.....	30,800	5,190	13,800
33	Wells, pumped.....1940..number.....	1,686	14	11	3	140	118	4	18
34	1940..yield, g.p.m.....	482,144	3,470	13,275	580	38,260	41,832	105	7,000
35	Pumping plants.....1940..number.....	2,321	14	98	4	140	97	4	15
36	Prime movers.....1940..capacity, hp.....	29,588	172	2,399	17	1,037	1,015	10	45
37	Pumps.....1940..capacity, g.p.m.....	2,104,450	8,470	451,401	1,605	37,780	41,993	105	7,020
38	Pumping lift, from all sources.....1940..average, feet.....	20	14	6	26	17	20	11	8
39	from pumped wells.....1940..average, feet.....	21	15	14	48	17	20	11	8
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[4]								
40	Enterprises reporting pay roll.....number...	3	.....	1	.....	.....	.....	.....	.....
41	Irrigated area in these enterprises.....acres....	542	.....	(1)	.....	.....	.....	.....	.....
42	Wages and salaries paid and payable.....dollars..	5,288	.....	(1)	.....	.....	.....	.....	.....
43	Persons employed during week ending April 29.....number...	5	.....	(1)	.....	.....	.....	.....	.....

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3]Includes siphons and farm pipe lines reported.
[4]Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

	ITEM (For definitions and explanations, see text)	Hardee	Hendry	Highlands	Hillsborough	Indian River	Lake	Lee	Manatee	Marion
	FARM VALUES, 1940*									
1	Land and buildings, all farms....dollars..	3,768,337	9,806,675	7,549,179	15,321,851	8,869,041	19,426,203	2,752,908	5,542,887	8,142,236
2	Land and buildings, irrigated farms....dollars..	702,325	158,580	458,700	3,136,298	8,031,591	3,428,530	1,559,295	1,070,745	874,606
	Operated by—									
3	(a) Owners and managers....dollars..	667,700	(1)	(1)	2,851,826	7,853,066	3,420,530	1,409,245	3,713,420	874,606
4	(b) Tenants....dollars..	34,625	(1)	(1)	284,472	178,525	8,000	150,050	357,325	.....
5	Average, land and buildings, per farm....dollars..	6,885.54	9,328.24	30,580.00	9,475.22	13,799.98	24,844.42	14,572.85	11,630.70	79,509.64
6	per acre in farms....dollars..	105.34	113.03	348.29	172.44	132.75	244.95	175.24	187.15	71.43
7	Buildings, irrigated farms reporting value....number...	100	17	11	315	410	107	94	311	11
8	Total reported....dollars..	157,440	24,465	44,500	687,992	1,095,692	465,285	259,345	766,700	80,423
9	Average, per irrigated farm reporting....dollars..	1,574.40	1,439.12	4,045.45	2,184.10	2,672.42	4,348.46	2,758.99	2,465.27	7,311.18
10	per acre on all irrigated farms....dollars..	23.61	17.44	33.79	37.83	18.11	33.24	29.15	35.25	6.57
11	Buildings, nonirrigated farms reporting value....number...	982	112	242	3,143	96	1,073	164	295	2,018
12	Total reported....dollars..	791,759	575,350	543,229	3,925,126	105,615	2,275,755	316,237	435,750	2,098,616
13	Average, per nonirrigated farm reporting....dollars..	806.27	5,137.05	2,244.75	1,248.85	1,100.16	2,120.93	1,928.27	1,477.12	1,039.95
14	per acre on all nonirrigated farms....dollars..	5.53	1.78	1.63	24.05	2.02	22.87	26.17	12.12	10.10
15	Implements and machinery, irrigated farms reporting value....number...	91	14	12	281	269	94	75	260	11
16	Total reported....dollars..	60,405	8,690	33,275	293,220	217,452	188,076	165,683	312,157	43,438
17	Average, per irrigated farm reporting....dollars..	663.79	620.71	2,772.92	1,043.49	808.37	2,000.81	2,209.11	1,200.60	3,948.91
18	per acre, on all irrigated farms....dollars..	9.06	6.19	25.27	16.12	3.59	13.44	18.62	14.35	3.55
19	Implements and machinery, nonirrigated farms reporting value....number...	784	93	134	2,478	73	708	98	185	1,871
20	Total reported....dollars..	227,694	1,046,823	203,665	900,366	14,271	381,570	58,212	82,150	700,136
21	Average, per acre, on all nonirrigated farms....dollars..	1.59	3.24	0.61	5.52	0.27	3.83	4.82	2.29	3.37
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
22	Enterprises....1940..number....	92	18	14	374	583	101	94	325	12
23	Average size of enterprise based on irrigable area....1940..acres....	18	35	115	18	41	48	61	38	56
24	Diversion dams....1940..number....	.....	.....	.....	1	.....	.....	.....	.....	.....
25	Main canals and laterals....1940..length, miles....	.....	.....	.....	5.0	52.0	.....	.....	.....	.....
26	1940..capacity, c.f.s.[2]....	.....	.....	1	86	420	6	.....	.....	16
27	Pipe lines[3]....1940..length, miles....	4.7	13.0	6.8	183.9	.....	45.7	8.0	477.1	9.1
28	Storage dams....1940..number....	.....	.....	.....	.....	2	.....	1	.....	.....
29	Reservoirs....1940..number....	.....	.....	.....	.....	1	.....	1	.....	.....
30	1940..capacity, acre-feet..	.....	.....	.....	.....	(1)	.....	(1)	.....	.....
31	Wells, flowing....1940..number....	4	18	.....	263	845	3	178	499	.....
32	1940..yield, g.p.m....	800	5,500	.....	39,620	231,810	145	46,725	182,153	.....
33	Wells, pumped....1940..number....	138	.....	5	256	6	39	3	187	13
34	1940..yield, g.p.m....	22,336	.....	1,780	74,309	380	16,515	1,090	60,885	1,213
35	Pumping plants....1940..number....	102	7	15	308	18	103	4	169	13
36	Prime movers....1940..capacity, hp....	648	134	263	2,083	870	992	51	1,116	214
37	Pumps....1940..capacity, g.p.m....	23,516	5,630	8,130	92,099	180,380	48,955	1,300	60,675	6,388
38	Pumping lift, from all sources....1940..average, feet....	24	17	39	21	9	26	27	13	32
39	from pumped wells....1940..average, feet....	24	.....	23	23	15	22	32	13	76
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[4]									
40	Enterprises reporting pay roll....number...	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Irrigated area in these enterprises....acres....	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Wages and salaries paid and payable....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Persons employed during week ending April 29....number...	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1940; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Martin	Orange	Osceola	Palm Beach	Pasco	Pinellas	Polk	Putman	St. Johns	St. Lucie	Sarasota	Seminole	Sumter	Volusia	All other counties	
893,950	27,941,315	3,156,748	8,416,260	5,729,613	8,566,467	48,201,424	4,150,439	1,553,620	7,527,819	2,660,111	8,197,266	1,770,105	11,527,203	68,214,166	1
360,960	8,550,524	84,855	2,488,155	694,100	2,962,995	17,037,251	780,209	353,300	5,140,750	1,666,346	5,037,178	309,905	1,483,372	1,338,647	2
313,960	8,410,124	(1)	2,338,855	694,100	2,921,995	16,659,451	(1)	(1)	5,096,100	1,411,296	4,735,228	273,905	1,395,297	1,310,147	3
47,000	140,400	(1)	149,300	.....	41,000	377,800	(1)	(1)	44,650	255,050	301,950	36,000	88,075	28,500	4
40,106.67	34,065.83	10,606.88	27,956.80	22,390.32	33,670.40	50,109.56	15,004.02	7,517.02	17,485.54	26,876.55	15,890.15	3,130.35	22,475.33	15,040.98	5
35.97	357.28	193.29	105.23	167.41	345.90	129.28	134.54	106.64	64.31	258.79	211.90	21.47	178.25	67.47	6
8	197	8	81	29	82	267	50	45	218	56	288	96	65	85	7
39,800	1,100,761	11,300	452,034	60,050	321,997	1,370,568	200,809	102,500	636,386	197,732	841,770	80,925	212,759	322,300	8
1,975.00	5,587.62	1,412.50	5,580.67	2,070.69	3,926.79	5,133.21	4,016.18	2,277.78	2,919.20	3,530.93	2,922.81	842.97	3,273.37	3,791.76	9
3.97	46.00	25.74	19.12	14.48	37.59	10.40	34.63	30.94	7.96	30.71	35.41	5.61	25.57	16.24	10
83	1,455	377	481	967	573	2,562	727	295	204	117	384	665	1,222	28,212	11
122,405	3,364,714	566,611	915,430	1,113,623	1,421,627	3,694,538	1,110,145	449,416	427,721	216,665	788,774	433,655	2,399,750	21,271,697	12
1,474.76	2,312.52	1,502.95	1,903.18	1,128.29	2,481.02	1,442.05	1,527.02	1,523.44	2,098.67	1,851.84	2,054.10	652.11	1,963.79	753.99	13
4.51	18.10	1.16	16.19	10.89	70.94	11.30	17.55	14.67	5.72	0.97	18.79	4.97	9.41	5.61	14
9	149	7	88	22	72	206	51	46	158	57	278	94	64	76	15
73,480	308,274	5,075	320,161	23,740	123,718	618,104	100,596	83,233	212,592	137,304	400,819	45,760	82,820	140,349	16
8,164.44	2,068.95	725.00	3,636.19	1,079.09	1,718.31	3,000.50	1,972.47	1,809.41	1,345.52	2,408.84	1,441.79	486.81	1,294.06	1,846.70	17
7.32	12.88	11.56	13.54	5.73	14.44	4.69	17.35	25.12	2.66	21.32	16.86	3.17	9.95	7.07	18
82	736	257	677	537	375	1,618	586	255	110	88	296	625	908	23,370	19
43,680	419,734	104,844	941,993	222,245	272,087	668,580	262,645	138,094	66,145	49,860	145,250	143,189	411,101	5,396,689	20
1.61	2.26	0.21	16.66	2.17	13.58	2.04	4.15	4.51	0.89	0.22	3.46	1.64	1.61	1.42	21
5	189	7	84	20	59	336	53	47	282	60	304	91	62	8	22
2,124	61	43	200	60	64	77	50	42	53	108	25	10	25	21	23
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
5.0	2.0	.....	.....	2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
478	241	2	82	12	10	422	5	.....	12	89	6	.....	19	1	26
1.0	819.5	7.1	11.5	12.4	47.2	279.4	7.5	8.4	8.2	1.5	2,187.7	36.3	23.8	4.5	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	1	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	215	.....	(1)	.....	30
.....	9	1	.....	.....	.....	4	145	52	442	209	1,760	.....	7	.....	31
.....	2,420	(1)	.....	.....	.....	230	25,978	5,090	84,940	27,520	275,217	.....	725	.....	32
.....	53	11	48	5	65	179	4	.....	19	5	139	123	64	16	33
.....	19,067	1,625	10,115	1,325	27,380	57,683	448	.....	1,788	2,400	24,295	30,490	18,298	4,200	34
16	219	6	119	21	73	381	8	.....	25	19	122	113	73	15	35
810	3,421	111	1,866	235	1,457	7,749	70	.....	109	352	887	876	443	133	36
235,500	98,900	2,175	387,815	9,155	34,790	213,393	2,798	.....	10,308	44,450	33,020	32,380	20,172	4,147	37
5	20	17	9	21	34	27	16	.....	15	11	13	13	13	19	38
.....	29	18	16	35	38	31	17	.....	17	21	9	13	14	15	39
.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	(1)	.....	.....	.....	.....	(1)	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	(1)	.....	.....	.....	.....	(1)	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	(1)	.....	.....	.....	.....	(1)	.....	.....	.....	.....	.....	.....	.....	.....	43

[3] Includes siphons and farm pipe lines reported.
[4] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[6] 52,997,120	53,346,560	53,346,560	53,346,560	53,346,560	53,346,560	53,346,560
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	43,663	45,113	41,674	42,106	30,807	17,471	6,603
Land in all farms.....acres....	10,297,745	9,951,661	9,346,908	8,375,873	5,283,604	3,204,903	1,302,256
Farms irrigated:[1]							
Farms.....number...	29,898	28,350	27,953	25,283	16,439	9,188	4,323
Increase or decrease (-) over preceding census....percent..	[2] 7.0	.....	10.6	53.8	78.9	112.5	.....
Proportion of all farms.....percent..	68.5	62.8	67.1	60.0	53.4	52.6	65.5
Land in farms.....acres....	5,680,584	(3)	4,851,440	(3)	(3)	(3)	(3)
Proportion of all farm land.....percent..	55.2	(3)	51.9	(3)	(3)	(3)	(3)
Area irrigated.....acres....	[4] 1,895,048	[5] 1,388,200	[6] 1,634,321	(7)	(7)	608,718	217,005
Increase or decrease (-) over preceding census....percent..	[2] 16.0	.....	.....	.....	.....	180.5	.....
Proportion of total land area of State.....percent..	3.6	2.6	3.1	.....	.....	1.1	0.4
Proportion of all farm land.....percent..	18.4	13.9	17.5	.....	.....	19.0	16.7
Value of irrigated farms (land and buildings).....dollars..	236,628,170	(3)	289,343,666	(3)	(3)	(3)	(3)
Average per farm.....dollars..	7,914.52	(3)	10,351.08	(3)	(3)	(3)	(3)
Average per acre.....dollars..	41.66	(3)	59.64	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8].....dollars..	28,818,258	(3)	27,305,368	(3)	(3)	(3)	(3)
Average per farm[8].....dollars..	963.89	(3)	976.83	(3)	(3)	(3)	(3)
Average per acre[8].....dollars..	5.07	(3)	5.63	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	3,625	(3)	3,222	3,629	3,092	(3)	(3)
Farms irrigated.....number...	42,343	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated.....acres....	2,277,857	(3)	2,181,250	2,488,806	1,430,848	(3)	(3)
Area existing works were capable of supplying with water.....acres....	2,593,534	(3)	2,617,021	3,092,810	2,388,956	(3)	(3)
Area irrigable.....acres....	2,870,023	(3)	2,814,048	[9] 3,780,048	[9] 3,549,573	(3)	(3)
Additional area existing works were capable of supplying with water.....acres....	315,677	(3)	435,771	604,004	958,111	(3)	(3)
Additional irrigable area in enterprises not supplied with water.....acres....	592,166	(3)	632,798	[9] 1,291,242	[9] 2,118,725	(3)	(3)
Investment in irrigation enterprises.....dollars..	102,585,798	(3)	84,500,354	91,501,009	40,977,688	5,120,399	1,029,000
Increase or decrease (-) over preceding census.....percent..	[2] 21.4	(3)	-7.7	123.3	700.3	397.6	.....
Average per acre based on area works were capable of supplying with water.....dollars..	39.55	(3)	32.29	29.59	17.15	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] 22.5	(3)	9.1	72.5	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	109,513,311	(3)	101,350,250	97,019,717	58,451,106	(3)	(3)
Average per acre based on irrigable area in enterprises.....dollars..	38.16	(3)	36.02	[9] 25.67	[9] 16.47	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	1.11	(3)	1.44	1.17	0.63	(3)	(3)

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 316,307 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [6] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	43,663	10,297,745	2,935,350	1,578,741	316,307	339,194,391	32.94	72,290,733	7.02	42,145,230	4.09
Owners and managers	32,510	8,513,794	2,191,656	1,105,344	246,193	254,908,648	29.94	57,227,870	6.72	32,485,385	3.82
Tenants	11,153	1,783,951	743,694	473,397	70,114	84,285,743	47.25	15,062,863	8.44	9,659,845	5.41
Irrigated farms, total	29,898	5,680,584	1,850,613	1,578,741	316,307	236,628,170	41.66	53,585,575	9.43	28,818,258	5.07
Owners and managers	21,773	4,721,461	1,347,853	1,105,344	246,193	173,589,977	36.77	41,693,049	8.83	21,895,922	4.64
Tenants	8,125	959,123	502,760	473,397	70,114	63,038,193	65.72	11,892,526	12.40	6,922,336	7.22
Wholly irrigated farms	23,917	3,561,121	1,362,963	1,362,963	246,343	188,209,753	52.85	42,594,961	11.96	22,880,983	6.43
Owners and managers	16,801	2,782,079	924,117	924,117	185,616	131,220,245	47.00	32,061,203	11.48	16,663,743	5.97
Tenants	7,116	769,042	438,846	438,846	60,727	56,989,508	74.10	10,533,758	13.70	6,217,250	8.08
Partly irrigated farms	5,981	2,119,463	487,650	215,778	69,964	48,418,417	22.84	10,990,614	5.19	5,937,265	2.80
Owners and managers	4,972	1,929,382	423,736	181,227	60,577	42,369,732	21.96	9,631,846	4.99	5,232,179	2.71
Tenants	1,009	190,081	63,914	34,551	9,387	6,048,685	31.82	1,358,768	7.15	705,086	3.71
Nonirrigated farms, total	13,765	4,617,161	1,084,737	.....	.....	102,566,221	22.21	18,705,158	4.05	13,326,972	2.89

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919, WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	3,625	2,870,023	2,593,534	2,277,857	2,181,250	2,488,806	4.4	2,034,989	2,216,851	1,990,119	4.6	1.25	0.27
Primary sources:													
Streams, gravity	2,377	2,059,751	1,883,957	1,628,663	1,848,760	2,274,959	-11.9	1,418,853	1,578,649	1,381,188	4.2	0.89	0.21
Streams, pumped	144	337,611	302,667	294,402	103,362	107,181	184.8	284,876	294,278	284,850	3.9	1.67	0.43
Streams, gravity and pumped	19	247,849	197,391	174,792	76,894	1,870	127.3	167,537	174,792	167,537	4.7	2.20	0.47
Wells, pumped	141	9,792	8,616	5,868	3,546	414	65.5	5,854	5,616	5,611	3.0	2.71	0.91
Wells, flowing	84	2,611	2,308	2,113	1,973	1,131	7.1	1,803	949	885	2.0	1.06	0.54
Wells, pumped and flowing	5	469	419	414	50	.....	728.0	364	413	363	2.4	4.53	1.87
Lakes, gravity	11	5,035	4,905	4,294	2,662	2,492	61.3	4,294	4,294	4,294	1.8	1.63	0.92
Lakes, pumped	7	5,729	5,729	4,334	5,144	4,912	-15.7	4,334	4,334	4,334	3.0	5.14	1.73
Springs	334	28,172	25,670	20,819	24,233	33,337	-14.1	15,205	17,593	13,116	2.7	0.56	0.21
Springs and streams	153	51,346	44,534	37,606	.....	.....	.....	30,237	34,962	28,449	2.1	0.58	0.27
Stored storm water	12	1,505	1,476	941	4,916	2,590	-80.9	786	795	640	1.7	0.90	0.51
City water	4	49	49	40	94	.....	-57.4	28	13	3	2.3	10.00	4.29
Sewage	5	231	231	160	15	80	966.7	116	90	46	4.2	0.46	0.11
Streams, gravity; wells, pumped	10	44,808	42,428	40,100	72,959	357	-45.0	40,100	40,022	40,022	4.1	1.74	0.42
Streams, gravity; wells, flowing	23	3,782	3,755	2,702	1,708	1,927	58.2	2,308	1,861	1,490	3.5	0.55	0.15
Streams, pumped; wells, pumped	7	458	457	323	.....	.....	.....	323	292	292	3.6	3.80	1.07
Waste water, seepage or drainage	47	4,989	4,372	3,113	.....	.....	.....	1,801	2,281	1,737	1.7	0.54	0.33
Other mixed	54	65,836	64,570	57,173	32,796	54,601	74.3	56,170	55,617	55,262	3.5	1.74	0.50
Other and not reported	.....	.....	.....	.....	2,138	2,955	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[2]													
Streams, gravity and/or storage	79	1,049,882	1,049,082	906,393	.....	.....	.....	892,862	886,238	873,971	1.2	0.21	0.18
Streams, pumped	20	645	605	552	8,915	.....	-93.8	531	552	531	1.7	1.82	1.06
Wells, pumped	58	3,431	3,303	2,517	120	.....	(3)	2,188	2,103	2,059	1.7	2.64	1.57
Wells, flowing	31	650	592	540	12	.....	(3)	419	361	242	2.4	0.33	0.14

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [3] Percent not shown when more than 1,000.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	102,585,798	100.0	39.55	84,500,354	100.0	32.29	7.26	2,219,486	1.11	2,109,087	1.44	-0.33	2,105,336	1.17
Primary sources:														
Streams, gravity	62,433,051	60.8	33.14	69,672,250	82.5	31.84	1.30	1,582,264	0.72	1,792,486	1.17	-0.45	1,920,057	1.02
Streams, pumped	8,263,470	8.1	27.30	5,218,180	6.2	45.58	-18.28	293,298	1.92	94,940	4.32	-2.40	99,378	3.43
Streams, gravity and pumped	14,225,602	13.8	72.07	5,663,215	6.7	62.78	9.29	174,792	1.82	76,894	2.80	-0.98	1,320	8.30
Wells, pumped	132,831	0.1	15.42	87,248	0.1	19.64	-4.22	5,616	2.71	3,467	2.30	0.41	250	5.35
Wells, flowing	86,874	0.1	37.64	81,342	0.1	37.78	-0.14	949	1.13	640	2.06	-0.93	271	0.85
Wells, pumped and flowing	6,800	(3)	16.23	28,500	(3)	445.31	-429.08	413	4.27	50	16.80	-12.53	.....	.....
Lakes, gravity	161,617	0.2	32.95	361,778	0.4	83.82	-50.87	4,294	1.33	2,510	4.75	-3.42	2,162	1.76
Lakes, pumped	512,043	0.5	89.38	720,528	0.8	18.64	70.74	4,334	4.36	5,144	8.51	-4.15	3,412	6.72
Springs	244,770	0.2	9.54	289,014	0.3	10.69	-1.15	17,593	0.51	20,701	0.94	-0.43	24,889	0.80
Springs and streams	367,481	0.4	8.25	.....	.....	.....	.....	34,962	0.46	.....	.....	.....	.....	.....
Stored storm water	84,585	0.1	57.31	129,325	0.2	15.42	41.89	795	0.83	4,701	0.58	0.25	2,245	0.89
City water	850	(3)	17.35	7,458	(3)	79.34	-61.99	13	11.54	94	1.01	10.53	.....	.....
Sewage	855	(3)	3.70	75	(3)	5.00	-1.30	90	0.34	15	4.00	-3.66	80	0.31
Streams, gravity; wells, pumped	1,018,895	1.0	24.01	1,098,605	1.3	12.20	11.81	40,022	1.73	72,909	1.55	0.18	4	1.00
Streams, gravity; wells, flowing	72,067	0.1	19.19	20,985	(3)	10.73	8.46	1,861	0.73	1,064	0.36	0.37	1,745	0.47
Streams, pumped; wells, pumped	6,860	(3)	15.01	.....	.....	.....	.....	292	3.80	.....	.....	.....	.....	.....
Waste water, seepage or drainage	12,872	(3)	2.94	.....	.....	.....	.....	2,281	0.52	.....	.....	.....	.....	.....
Other mixed	1,403,443	1.4	21.74	894,103	1.0	20.22	1.52	55,617	1.63	32,272	1.82	-0.19	46,668	1.99
Other and not reported	.....	.....	.....	10,640	(3)	4.40	.....	.....	.....	1,200	0.21	.....	2,855	0.41
Supplemental sources:[4]														
Streams, gravity and/or storage	13,425,275	13.1	12.80	.....	.....	.....	.....	886,238	0.22	.....	.....	.....	.....	.....
Streams, pumped	9,317	(3)	15.40	210,208	0.2	22.71	-7.31	552	1.90	8,377	6.11	-4.21	.....	.....
Wells, pumped	89,348	0.1	27.05	5,500	(3)	42.97	-15.92	2,103	2.70	120	8.62	-5.92	.....	.....
Wells, flowing	26,892	(3)	45.43	1,400	(3)	13.46	31.97	361	0.27	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	2,277,857	910,002	2,181,250	2,488,806	4.4
Individual and partnership	324,626	8,890	327,488	513,350	-0.9
Cooperative, incorporated	1,162,496	43,325	1,198,482	938,421	2.5
Cooperative, unincorporated	66,547	975			
Irrigation district	334,266	14,097	304,010	355,995	10.0
Commercial	8,719	.....	.....	6,503	.....
Bureau of Reclamation[2] *	344,638	842,715	[3]275,954	[3]253,759	24.9
Office of Indian Affairs[2]	34,965	.....	34,991	36,775	-0.1
State	600	.....	125	10	380.0
City and/or sewage	1,000	.....	.....	160	.....
Carey Act	.....	.....	40,200	383,833	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	2,593,534	1,053,582	2,617,021	3,092,810	-0.9
Individual and partnership	388,916	10,522	388,943	639,002	[4]
Cooperative, incorporated	1,270,362	54,332	1,467,327	1,190,422	-8.5
Cooperative, unincorporated	72,149	975			
Irrigation district	362,665	14,097	335,018	400,382	8.3

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	8,719	.....	.....	7,747	.....
Bureau of Reclamation[2] *	424,840	973,656	[3]290,248	[3]289,992	46.4
Office of Indian Affairs[2]	64,183	.....	68,960	42,005	-6.9
State	600	.....	125	10	380.0
City and/or sewage	1,100	.....	.....	160	.....
Carey Act	.....	.....	66,400	523,090	.....
IRRIGABLE AREA[5]					
Total	2,870,023	1,054,608	2,814,048	3,780,048	2.0
Individual and partnership	408,403	10,848	419,813	850,215	-2.7
Cooperative, incorporated	1,309,647	55,032	1,505,552	1,442,477	-7.9
Cooperative, unincorporated	76,629	975			
Irrigation district	368,599	14,097	379,510	463,839	-2.9
Commercial	9,119	.....	.....	8,551	.....
Bureau of Reclamation[2] *	625,622	973,656	[3]351,348	[3]295,992	78.1
Office of Indian Affairs[2]	69,869	.....	91,300	54,240	-23.5
State	1,035	.....	125	10	728.0
City and/or sewage	1,100	.....	.....	320	.....
Carey Act	.....	.....	66,400	664,404	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). Include about 650,000 acres to which stored water is supplied under the Warren Act. [2] U. S. Dept. of the Interior. [3] Does not area for that year was not reported. [4] Less than one-tenth of 1 percent. [5] For 1920 relates to total area. Irrigable

* For explanation of areas, see text, p. 237.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	3,625	500	2,870,023	2,593,534	33.72	1.02	12.85	0.23	42,343	2,277,857	2,026,435	12,448	238,974
Individual and partnership	3,143	64	408,403	388,916	6.77	0.51	14.86	1.06	3,874	324,626	247,712	2,308	74,606
Cooperative, incorporated	289	276	1,309,647	1,270,362	30.72	0.89	18.66	0.40	19,551	1,162,496	1,082,157	2,228	78,111
Cooperative, unincorporated	116	85	76,629	72,149	8.34	0.35	12.31	2.10	931	66,547	53,809	119	12,619
Irrigation district	51	50	368,599	362,665	36.80	1.41	4.97	0.06	7,905	334,266	297,962	4,217	32,087
Commercial	5	5	9,119	8,719	12.46	0.46	.....	.....	96	8,719	8,271	.....	448
U. S. Bureau of Reclamation *	13	13	625,622	424,840	69.38	1.58	12.62	0.22	8,848	344,638	304,421	3,403	36,814
U. S. Office of Indian Affairs	6	6	69,869	64,183	33.98	1.44	.....	.....	924	34,965	30,903	173	3,889
State	[4]1	.....	1,035	600	100.00	2.25	.....	.....	1	600	600	.....	.....
City and/or sewage	[4]1	1	1,100	1,100	18.18	1.60	.....	.....	213	1,000	600	.....	400
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for less than 3 enterprises shown with permission of the enterprise involved.

* For explanation of areas and investment, see text, p. 237.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	102,585,798	89,034,966	13,550,832	100,989,161	1,596,637	84,500,354	91,501,009	21.4	34.33	12.86	1,033,812	6,927,513
Individual and partnership	2,922,197	2,761,026	161,171	2,789,319	132,878	3,473,615	5,747,004	-15.9	7.10	15.32	3,071	137,444
Cooperative, incorporated	40,861,551	39,841,475	1,020,076	40,035,621	825,930	34,785,666	36,576,664	19.4	31.36	18.77	85,821	376,399
Cooperative, unincorporated	672,834	660,834	12,000	613,637	59,197				9.16	12.31	755	49,100
Irrigation district	13,874,612	13,804,612	70,000	13,417,299	457,313	10,723,493	11,954,046	29.4	38.06	4.97	58,782	205,000
Commercial	113,660	113,660	.....	108,660	5,000	.....	698,179	.....	13.04	.....	.....	2,000
U. S. Bureau of Reclamation *	41,868,781	29,581,196	12,287,585	41,763,962	104,819	29,603,539	17,804,839	41.4	69.63	12.62	883,083	5,790,690
U. S. Office of Indian Affairs	2,192,163	2,192,163	.....	2,180,663	11,500	1,746,397	932,387	25.5	34.15	.....	2,000	366,880
State	60,000	60,000	.....	60,000	.....	900	1,000	[2]	100.00	.....	.....	.....
City and/or sewage	20,000	20,000	.....	20,000	.....	.....	14,300	.....	18.18	.....	300	.....
Carey Act	.....	.....	.....	.....	.....	4,166,744	17,772,590	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Percent not shown when more than 1,000.

* For explanation of investment, see text, p. 237.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 141	*Acres* 2,488,068	*Acres* 2,303,454	*Dollars* 26,418,138	*Dollars* 18.94	*Dollars* 18.13	*Number* 15	*Dollars* 1,259,945	*Dollars* 1,263,975	*Dollars* 8.95	*Acres* 3,027,179	*Dollars* 2,646,004	*Dollars* 2,702,591
Partnership	2	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	46,642	13,625	7,540
Cooperative, incorporated	81	542,375	523,115	814,264	1.55	1.52	8	32,730	48,645	1.17	1,274,622	1,168,098	1,098,124
Cooperative, unincorporated	3	[6] 4,240	[6] 4,240	[6] 16,200	[6] 4.22	[6] 3.82	.....	.....	.....	.....	48,055	17,068	10,765
Irrigation district	38	353,570	352,684	4,379,361	12.71	12.47	6	1,154,625	1,128,025	45.50	374,151	635,849	656,817
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,011	3,563	3,615
Bureau of Reclamation[7] [8]	11	1,518,014	1,359,232	[9] 19,255,295	43.94	42.64	[9] 1	[8] 72,590	[8] 87,305	0.83	1,240,543	487,013	923,127
Office of Indian Affairs[7]	6	69,869	64,183	[10] 1,953,018	56.57	30.43	.....	.....	.....	.....	34,055	318,885	700
Reclamation district	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,100	1,903	1,903
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $3.36. [4] Based on primary enterprises only; State average for supplemental enterprises is $2.91. [5] Based on primary enterprises only, no supplemental enterprises reported arrearage. [6] Data for 2 "Partnership" enterprises are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] Data for less than 3 enterprises shown with permission of enterprise involved. [10] Represents construction costs of irrigation works less cancellations and repayments. * For explanation of areas and investment, see text, p. 237.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre				
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 2,219,486	*Dollars* 2,256,798	*Acres* 889,254	*Dollars* 202,690	*Dollars* 1.02	*Dollars* 0.23	*Number* 404	*Dollars* 1,316,975	*Number* 2,275
Individual and partnership	293,769	148,456	6,682	7,067	0.51	1.06	33	7,436	43
Cooperative, incorporated	1,158,196	1,029,064	25,085	9,939	0.89	0.40	[2] 262	[2] 532,782	[2] 1,283
Cooperative, unincorporated	50,102	17,420	675	1,415	0.35	2.10	47	9,564	55
Irrigation district	331,853	466,343	14,097	786	1.41	0.06	48	217,247	395
Commercial	8,011	3,680	.....	.....	0.46	.....	([2])	([2])	([2])
U. S. Bureau of Reclamation*	342,673	540,911	842,715	183,483	1.58	0.22	11	507,154	452
U. S. Office of Indian Affairs	33,282	47,974	.....	.....	1.44	.....	[3] 2	41,882	38
State	600	1,350	.....	.....	2.25	.....	.....	.....	.....
City and/or sewage	1,000	1,600	.....	.....	1.60	.....	[3] 1	810	9
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data for 1 "Commercial" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census.
[3] Data for less than 3 enterprises shown with permission of enterprises involved.
* For explanation of areas and investment, see text, p. 237.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 3,209	*Number* 260	*Sec.-ft.* 71,510	*Miles* 13,489	*Miles* 113.1	290	*Ac.-ft.* 3,795,272	*Miles* 299.9	375	*G.p.m.* 40,165	309	*G.p.m.* 225,164	665	*Hp.* 44,537	675	*G.p.m.* 2,719,905
Individual and partnership	2,660	197	12,103	3,731	34.6	227	72,753	58.1	341	32,390	239	152,564	426	4,401	433	276,678
Cooperative, incorporated	250	35	36,448	5,386	20.0	36	749,162	38.8	22	4,400	37	32,770	82	8,395	86	574,346
Cooperative, unincorporated	134	3	2,117	420	2.0	5	4,001	4.9	.....	.....	2	1,500	9	571	9	18,450
Irrigation district	130	16	9,759	1,515	36.0	15	208,701	155.6	12	3,375	31	38,330	85	10,470	84	451,526
Commercial	3	.....	298	26	.....	.....	.....	0.1	.....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3]	5	8	9,137	2,191	20.4	6	2,560,655	38.7	.....	.....	.....	.....	63	20,700	63	1,398,905
Office of Indian Affairs[3]	26	1	1,508	301	0.1	1	200,000	3.7	.....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	1	.....	140	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	3,209	260	2,305	152
Concrete or masonry	336	44	205	22
Timber	290	.....	227	.....

MATERIAL	1940		1930	
	Diversion[1]	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Earth and rock	1,964	185	.....	80
Other and mixed	[1] 587	19	[1] 1,836	47
Not reported	32	12	37	3

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	675	100.0	2,719,905	100.0	26
Electric motor	**484**	**71.7**	**2,446,149**	**89.9**	**28**
Centrifugal	372	55.2	2,205,796	81.1	27
Turbine	84	12.4	171,076	6.3	35
Plunger	3	0.4	153	(1)	49
Other	25	3.7	69,124	2.5	15
Internal-combustion engine	**152**	**22.5**	**86,669**	**3.2**	**21**
Centrifugal	101	14.9	51,793	1.9	18
Turbine	20	3.0	19,355	0.7	34
Plunger	4	0.6	91	.....	85
Other	27	4.0	15,430	0.6	14
Other kinds of motive power	**17**	**2.5**	**17,162**	**0.6**	**44**
Centrifugal	3	0.4	13,026	0.5	59
Turbine	1	0.1	400	(1)	30
Plunger	3	0.4	13	(1)	108
Other	10	1.6	3,723	0.1	22
Mixed kinds of motive power	**22**	**3.3**	**169,925**	**6.2**	**28**
Centrifugal	6	0.9	2,040	0.1	37
Turbine	6	0.9	23,925	0.9	38
Plunger	.....	.....	.....	.....	.....
Other	10	1.5	143,960	5.2	17
Total, 1930	465	.....	2,113,513	.....	32
Increase or decrease (-) 1930-1940	210	.....	606,392	.....	-6

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	665	100.0	44,537	100.0
Centrifugal pump	**428**	**64.3**	**25,168**	**56.5**
Electric	328	49.2	23,867	53.6
Internal-combustion	97	14.6	1,066	2.4
Other	3	0.5	235	0.5
Turbine pump	**49**	**7.4**	**1,069**	**2.4**
Electric	29	4.3	516	1.2
Internal-combustion	19	2.9	505	1.1
Other	1	0.2	48	0.1
Plunger pump	**11**	**1.7**	**23**	**0.1**
Electric	2	0.3	4	(1)
Internal-combustion	5	0.8	13	(1)
Other	4	0.6	6	(1)
Other and mixed types of pumps	**177**	**26.6**	**18,277**	**41.0**
Electric	136	20.4	16,188	36.3
Internal-combustion	29	4.4	255	0.6
Other	12	1.8	1,834	4.1
Total, 1930	[2] 393	.....	33,754	.....
Increase or decrease (-) 1930-1940	272	.....	10,783	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	299.9	[3] 263.4	13.9
Concrete:			
1 to 12 inches	43.8	36.2	21.0
13 to 24 inches	21.9	43.8	19.2
Over 24 inches	30.3		
Metal:			
1 to 12 inches	40.2	29.1	38.1
13 to 24 inches	9.2	6.0	205.0
Over 24 inches	9.1		

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Wood-stave:			
1 to 12 inches	63.6	55.9	13.8
13 to 24 inches	25.8	74.7	-23.2
Over 24 inches	31.6		
Clay and other:			
1 to 12 inches	17.3	11.0	57.3
13 to 24 inches	4.0	0.1	[4]
Over 24 inches	3.1		

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 20 miles wood-pipe lines not segregated by size, and 4.6 miles pipe lines not segregated by material. [4] Percent not shown when more than 1,000.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage...number..	192	171	206
Area irrigable in these enterprises...acres...	943,910	920,314	[1] 734,405
Area irrigated in these enterprises...acres...	731,717	(2)	(2)
Area for which drains have been installed...acres...	238,907	202,575	81,187
Additional area needing drainage...acres...	29,042	48,995	94,934

ITEM	1940	1930	1920
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage...percent..	32.7	[3] 22.0	[1] 11.1
(b) All irrigation enterprises...percent..	10.5	9.3	3.3
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting...percent..	28.4	27.3	[1] 24.0
(b) Irrigated area reporting...percent..	36.6	(2)	(2)

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	10,727,079	9,389,610	11,142,792	8,921,333	6,684,009	9,571,753	1,805,746	2,705,601	1,571,039
Area irrigated by these enterprises.....acres.....	1,361,924	1,584,254	1,724,581	1,210,841	1,207,868	1,465,482	151,083	376,386	259,099
Average water per acre irrigated.....acre-feet..	7.9	5.9	6.5	7.4	5.5	6.5	12.0	7.2	6.1
Total water delivered to irrigators.....acre-feet..	8,287,957	4,585,715	2,269,233	6,636,832	4,181,543	2,045,769	1,651,125	404,172	223,464
Area irrigated by these enterprises.....acres.....	2,010,917	1,106,507	936,689	1,296,340	1,023,892	841,667	714,577	82,615	95,022
Average water per acre irrigated.....acre-feet..	4.1	4.1	2.4	5.1	4.1	2.4	2.3	4.9	2.4
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	69,004	.....	.....	35,326	.....	.....	33,678	.....	.....
Area irrigated by these enterprises.....acres.....	24,072	.....	.....	10,889	.....	.....	13,183	.....	.....
Average water per acre irrigated.....acre-feet..	2.9	.....	.....	3.2	.....	.....	2.6	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	208,619	.....	.....	182,491	.....	.....	26,128	.....	.....
Area irrigated by these enterprises.....acres.....	80,777	.....	.....	69,770	.....	.....	11,007	.....	.....
Average water per acre irrigated.....acre-feet..	2.6	.....	.....	2.6	.....	.....	2.4	.....	.....
Total water delivered to irrigators.....acre-feet..	1,037,595	.....	.....	909,788	.....	.....	127,807	.....	.....
Area irrigated by these enterprises.....acres.....	893,393	.....	.....	149,612	.....	.....	743,781	.....	.....
Average water per acre irrigated.....acre-feet..	1.2	.....	.....	6.1	.....	.....	0.2	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	4,676	.....	.....	900	.....	.....	3,776	.....	.....
Area irrigated by these enterprises.....acres.....	2,607	.....	.....	400	.....	.....	2,207	.....	.....
Average water per acre irrigated.....acre-feet..	1.8	.....	.....	2.2	.....	.....	1.7	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	2,277,857	100.0	910,002	2,181,250	100.0	2,488,806	100.0
Appropriation[2].....	928,861	40.8	27,831	948,647	43.4	1,199,348	48.1
Underground.....	7,526	0.3	1,991	4,989	0.2	1,834	0.1
Appropriation and underground.....	83,113	3.6	142	.....	.....	.....	.....
Adjudicated by court.....	1,217,056	53.5	879,546	1,159,301	53.2	1,104,607	44.4
Other mixed and not reported.....	41,301	1.8	492	68,313	3.1	183,017	7.4

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 344,638 acres irrigated in 1939 which were within the Boise-Kuna, Nampa-Meridian, New York, and Wilder Irrigation Districts of the Boise Project in Idaho and the Minidoka and Burley Irrigation Districts of the Minidoka Project. There is also included a small area of the Black Canyon Irrigation District which received water from the Payette Division of the Boise Project. Only that part of the Nampa-Meridian District for which distribution facilities were constructed by the Bureau of Reclamation is included. These districts are indicated as separate enterprises under the Bureau of Reclamation and their areas are not duplicated under any other classification. Areas totalling 842,715 acres classified as irrigated with a supplemental supply from the Boise, Minidoka, and Upper Snake Projects are reported as receiving a primary supply through other enterprises, principally irrigation districts. These latter areas include a part of the Nampa-Meridian District in the Boise Project financed wholly by the water users, land in a number of irrigation districts which purchased storage rights in American Falls Reservoir of the Minidoka Project, and the Fremont-Madison Irrigation District which is served by the Upper Snake Project.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 are construction costs incurred by the United States for both primary and supplemental irrigation services and certain power facilities for the areas referred to in the foregoing paragraph. These costs include a pro-rata share of the costs of the Payette Division of the Boise Project chargeable to lands for which the Bureau was prepared to supply water in 1940. It also includes about $1,898,000 invested by irrigation districts in facilities included in the Boise and Minidoka Projects. Drainage works and power facilities which are not considered part of the irrigation system, under Census definitions, and their costs are not included. There are also omitted data relating to the incompleted parts of the Payette Division of the Boise Project and to Anderson Ranch Dam which is also under construction as a part of the Boise Project to provide supplemental water and power.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	3,437	71	2,542	342	292	119	62	9
2	Irrigated farms, 1939.....number...	42,343	.....	2,542	861	3,264	6,099	16,253	13,324
3	Area irrigated, 1939.....acres....	2,277,857	.....	215,072	68,174	244,082	352,816	769,788	627,925
4	(a) From which crops were harvested.....acres....	2,026,435	.....	157,612	53,466	205,838	319,497	701,423	588,599
5	(b) On which crops failed.....acres....	12,448	.....	1,760	399	1,245	1,450	5,278	2,316
6	(c) Irrigated pasture.....acres....	238,974	.....	55,700	14,309	36,999	31,869	63,087	37,010
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	89,034,966	53,985	2,187,677	461,728	3,335,532	6,271,606	46,084,882	30,639,556
8	(a) Cost of irrigation works and equipment.....dollars..	87,449,139	52,019	2,082,621	445,208	3,201,296	6,205,373	44,890,893	30,571,729
9	(b) Investment in water rights.....dollars..	1,585,827	1,966	105,056	16,520	134,236	66,233	1,193,989	67,827
10	Area works were capable of supplying with water.....acres....	2,593,534	3,439	261,104	83,719	269,415	395,550	893,188	687,119
11	Average investment per acre irrigated.....dollars..	39.09	.....	10.17	6.77	13.62	17.78	57.84	42.93
12	Average investment per acre which the works could supply with water.....dollars..	34.33	15.70	8.38	5.52	12.34	15.86	50.08	39.64
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	2,982	36	2,196	306	258	117	60	9
14	(a) Area irrigated in these enterprises.....acres....	2,219,486	.....	192,770	61,969	218,063	349,951	768,808	627,925
15	(b) Cost of maintenance and operation.....dollars..	2,256,798	3,082	111,272	23,862	131,089	303,206	942,454	741,833
16	(c) Average cost per irrigated acre reporting.....dollars..	1.02	.....	0.58	0.39	0.60	0.87	1.21	1.04
17	Total annual charges[2].....dollars..	2,461,470	201	134	254	159,441	383,289	1,103,022	835,129
18	Average charge per irrigated acre reporting.....dollars..	1.25	.....	0.28	0.57	0.73	1.04	1.41	1.33
19	Area against which charges were assessed.....acres....	2,141,909	300	480	445	229,155	373,241	854,799	683,489
20	Average annual charge per acre assessed.....dollars..	1.15	0.67	0.28	0.57	0.70	0.97	1.29	1.22
21	Total charges collected[2].....dollars..	2,635,522	.....	112	89	113,291	322,947	1,140,996	1,058,087
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3].....number...	135	.....	.....	.....	38	53	38	6
23	(a) Area irrigated in these enterprises.....acres....	1,117,475	.....	.....	.....	42,291	192,977	600,839	281,368
24	(b) Indebtedness.....dollars..	23,488,279	.....	.....	.....	505,738	1,175,464	10,198,210	11,608,867
25	(c) Average indebtedness per acre irrigated.....dollars..	21.01	.....	.....	.....	11.90	6.09	16.97	41.26
26	(d) Cost of irrigation works and equipment.....dollars..	52,162,972	.....	.....	.....	1,032,935	3,312,630	31,097,501	16,719,906
27	(e) Investment in water rights.....dollars..	839,242	.....	.....	.....	29,754	39,674	701,987	67,827
28	(f) Total investment.....dollars..	53,002,214	.....	.....	.....	1,062,689	3,352,304	31,799,488	16,787,733
29	(g) Maintenance and operation.....dollars..	1,340,168	.....	.....	.....	58,539	209,202	706,010	366,417
30	(h) Total annual charges[2].....dollars..	1,615,481	.....	.....	.....	79,675	263,379	837,158	435,269
31	(i) Total charges collected[2].....dollars..	1,855,077	.....	.....	.....	57,603	250,674	889,323	657,477
32	(j) Area against which annual charges were assessed.....acres....	1,238,931	.....	.....	.....	45,615	202,767	663,617	326,932
33	(k) Average indebtedness per acre assessed.....dollars..	18.94	.....	.....	.....	10.94	5.70	15.37	35.51
34	(l) Average charges per acre assessed.....dollars..	1.30	.....	.....	.....	1.75	1.30	1.26	1.33
35	(m) Average charges per acre irrigated.....dollars..	1.45	.....	.....	.....	1.92	1.37	1.39	1.55
36	Enterprises reporting arrearage[3].....number...	15	.....	.....	.....	5	7	2	1
37	(a) Area assessed in these enterprises.....acres....	140,706	.....	.....	.....	13,686	25,433	101,587	
38	(b) Total arrearage.....dollars..	1,259,945	.....	.....	.....	336,560	316,045	607,340	
39	(c) Average arrearage per acre assessed.....dollars..	8.95	.....	.....	.....	24.59	12.43	5.98	
40	(d) Indebtedness.....dollars..	6,804,253	.....	.....	.....	385,550	442,433	5,976,270	
	TYPE, 1940								
41	Individual and partnership.....number...	2,977	69	2,524	322	61	1	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	388	2	17	19	208	101	38	3
43	Irrigation district.....number...	49	.....	.....	1	16	13	17	2
44	Commercial.....number...	5	.....	.....	.....	4	1	.....	.....
45	U. S. Bureau of Reclamation.....number...	10	.....	.....	.....	.....	1	5	4
46	U. S. Office of Indian Affairs.....number...	6	.....	.....	.....	3	2	1	.....
47	All other.....number...	2	.....	1	.....	.....	.....	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	390	1	2	2	199	116	61	9
49	Wages and salaries paid and payable for 1939.....dollars..	1,306,359		179		61,673	279,828	545,348	419,331
50	Persons employed during week ending April 29, 1939.....number...	2,257		2		399	519	788	549
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	2,377	27	1,699	246	251	102	47	5
52	Streams, pumped.....number...	144	22	95	5	13	5	3	1
53	Wells, pumped.....number...	141	7	123	10	1	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	89	6	81	2	.....	.....	.....	.....
55	Lakes, gravity or pumped.....number...	18	.....	7	5	1	2	3	.....
56	Streams and springs; or springs.....number...	487	9	401	54	16	7	.....	.....
57	Mixed, streams and wells.....number...	59	.....	40	1	6	2	8	2
58	Other mixed or stored storm water.....number...	122	.....	96	19	4	1	1	1

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	188	13	134	22	7	7	1	4
2	Irrigated farms, 1939.....number...	18,749	.....	134	58	63	402	248	17,844
3	Area irrigated, 1939.....acres....	910,002	.....	6,002	2,708	7,375	43,702		850,215
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	13,550,832	23,302	135,149	24,297	54,929	925,950		12,387,205
5	(a) Cost of irrigation works and equipment.....dollars..	13,540,022	18,252	131,180	23,456	54,929	925,000		12,387,205
6	(b) Investment in water rights.....dollars..	10,810	5,050	3,969	841	.....	950		.....
7	Area works were capable of supplying with water.....acres....	1,053,582	2,916	6,888	3,045	7,375	51,202		982,156
8	Average investment per acre irrigated.....dollars..	14.89	.....	22.52	8.97	7.10	21.19		14.57
9	Average investment per acre which the works could supply with water.....dollars..	12.86	7.99	19.62	7.98	7.10	18.08		12.61
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	151	8	109	17	6	7	.....	4
11	(a) Area irrigated in these enterprises.....acres....	889,254	.....	4,449	2,053	7,075	25,462	.....	850,215
12	(b) Cost of maintenance and operation.....dollars..	202,690	27	6,421	778	2,965	6,015	.....	186,484
13	(c) Average cost per irrigated acre reporting.....dollars..	0.23	.....	1.44	0.38	0.40	0.24	.....	0.22
14	Total annual charges[2].....dollars..	184,534	.....	.....	.....	2,750	11,766	.....	170,018
15	Average charge per irrigated acre reporting.....dollars..	0.21	.....	.....	.....	0.39	0.46	.....	0.20
16	Area against which charges were assessed.....acres....	885,270	.....	.....	.....	7,075	27,980	.....	850,215
17	Average annual charge per acre assessed.....dollars..	0.21	.....	.....	.....	0.39	0.42	.....	0.20
18	Total charges collected[2].....dollars..	67,069	.....	.....	.....	2,350	12,312	.....	52,407

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying with water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
71	2,035	691	462	129	46	3	3,025	207	131	57	17	1
.....	2,316	1,511	5,168	8,169	20,251	4,928	5,148	3,136	6,148	11,215	16,696	2
.....	68,724	114,314	307,482	446,373	994,407	346,557	375,265	194,439	308,108	536,865	863,180	3
.....	54,638	89,186	251,103	388,039	896,912	346,557	288,570	166,252	276,433	483,448	811,732	4
.....	1,117	539	2,346	976	7,470	.....	2,585	534	1,109	4,461	3,759	5
.....	12,969	24,589	54,033	57,358	90,025	.....	84,110	27,653	30,566	48,956	47,689	6
53,985	1,006,343	1,221,905	4,415,647	8,589,807	59,895,456	13,851,823	1,986,042	1,653,438	4,590,202	19,877,641	60,927,643	7
52,019	967,257	1,170,676	4,243,424	8,158,382	59,005,558	13,851,823	1,879,372	1,582,500	4,418,705	19,229,975	60,338,587	8
1,966	39,086	51,229	172,223	431,425	889,898	.....	106,670	70,938	171,497	647,666	589,056	9
3,439	102,204	133,176	346,496	493,311	1,168,351	356,557	441,851	213,347	330,165	613,605	994,566	10
.....	14.64	10.67	14.33	19.24	58.64	32.04	5.28	8.50	14.28	31.22	70.59	11
15.70	9.85	9.16	12.72	17.41	50.53	31.32	4.49	7.75	13.37	27.86	61.26	12
36	1,736	620	418	124	45	3	2,595	190	126	54	17	13
.....	61,093	103,225	278,776	435,428	994,407	346,557	334,199	183,297	304,110	534,700	863,180	14
3,082	67,577	49,263	169,078	321,609	1,270,773	375,416	146,924	85,596	187,742	692,240	1,144,296	15
.....	1.11	0.48	0.61	0.74	1.26	0.87	0.44	0.47	0.59	1.12	1.33	16
201	2,686	5,772	183,039	404,172	1,465,740	399,860	35,546	99,463	235,223	830,421	1,260,817	17
.....	6.47	0.84	0.95	0.95	1.45	1.15	0.34	0.59	0.79	1.51	1.46	18
300	475	7,076	213,667	436,998	1,128,836	356,557	108,090	175,812	310,087	591,516	156,404	19
0.67	5.65	0.82	0.86	0.92	1.30	1.12	0.33	0.57	0.76	1.40	1.32	20
.....	2,551	5,670	143,163	391,400	1,692,128	400,610	20,602	80,839	225,937	885,691	1,422,453	21
.....	.....	4	45	53	33	.....	8	22	57	37	11	22
.....	.....	593	41,072	220,098	855,712	.....	10,007	34,181	157,012	462,157	454,118	23
.....	.....	9,826	630,442	2,093,995	20,754,016	.....	5,352	70,458	539,410	4,961,336	17,911,723	24
.....	.....	12.03	15.35	9.51	24.25	.....	0.53	2.06	3.43	10.74	39.44	25
.....	.....	34,561	1,342,193	4,695,319	46,090,899	.....	22,315	218,600	2,229,099	14,526,440	35,166,518	26
.....	.....	15,000	40,654	362,092	421,496	.....	2,264	16,390	78,474	620,066	122,048	27
.....	.....	49,561	1,382,847	5,057,411	46,512,395	.....	24,579	234,990	2,307,573	15,146,506	35,288,566	28
.....	.....	3,207	57,334	213,790	1,065,837	.....	2,237	21,360	100,380	572,086	644,105	29
.....	.....	1,600	86,214	297,233	1,230,434	.....	7,032	40,738	151,262	714,090	702,359	30
.....	.....	3,120	68,834	313,383	1,469,740	.....	2,972	34,218	151,489	791,097	875,301	31
.....	.....	374	44,634	227,240	966,683	.....	10,324	34,801	164,352	509,270	520,184	32
.....	.....	23.73	13.55	9.21	21.47	.....	0.44	1.86	3.16	9.74	34.43	33
.....	.....	4.28	1.93	1.31	1.27	.....	0.68	1.17	0.92	1.40	1.35	34
.....	.....	5.16	2.17	1.35	1.44	.....	0.72	1.21	0.97	1.55	1.55	35
.....	.....	.....	4	9	2	.....	1	4	5	3	2	36
.....	.....	.....	4,237	136,469		.....	17,270		17,168	106,268		37
.....	.....	.....	255,920	1,004,025		.....	17,135		114,410	1,128,400		38
.....	.....	.....	60.40	7.36		.....	0.99		6.66	10.62		39
.....	.....	.....	387,684	6,416,569		.....	19,250		204,599	6,580,404		40
69	2,012	647	240	8	1	.....	2,888	71	18	.....	.....	41
2	22	41	193	104	23	3	132	129	91	30	6	42
.....	1	1	20	14	13	.....	3	5	14	24	3	43
.....	.....	1	3	1	.....	.....	1	1	3	.....	.....	44
.....	.....	.....	.....	2	8	.....	.....	.....	.....	3	7	45
.....	.....	1	4	.....	1	.....	1	1	3	.....	1	46
.....	.....	.....	2	.....	.....	.....	.....	.....	2	.....	.....	47
1	6	20	197	118	45	3	93	116	110	54	17	48
1,534		6,145	77,935	321,222	687,543	211,980	17,774	43,206	100,206	456,742	688,431	49
9		22	505	560	879	282	174	244	490	516	833	50
27	1,267	555	381	112	33	2	2,063	163	100	41	10	51
22	98	4	11	5	3	1	122	8	7	5	2	52
7	123	6	5	.....	.....	.....	137	3	1	.....	.....	53
6	76	7	.....	.....	.....	.....	85	4	.....	.....	.....	54
.....	4	6	8	.....	.....	.....	11	2	1	4	.....	55
9	353	82	38	5	.....	.....	464	15	8	.....	.....	56
.....	33	6	7	5	8	.....	37	4	9	4	5	57
.....	81	25	12	2	2	.....	106	8	5	3	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
13	126	27	10	6	3	3	163	15	5	2	3	1
.....	149	65	54	296	1,841	16,344	220	217	1,695	273	16,344	2
.....	2,906	3,938	4,246	22,387	33,810	842,715	7,831	16,169	43,287		842,715	3
23,302	85,518	48,303	58,075	783,429	264,620	12,287,585	109,936	113,187	1,040,124		12,287,585	4
18,252	83,930	45,406	57,500	782,729	264,620	12,287,585	107,561	105,527	1,039,349		12,287,585	5
5,050	1,588	2,897	575	700	.....	.....	2,375	7,660	775		.....	6
2,916	3,749	4,257	4,307	29,887	34,810	973,656	9,392	18,747	51,787		973,656	7
.....	29.43	12.27	12.61	34.99	7.83	14.58	13.42	7.00	24.03		14.58	8
7.99	22.81	11.35	12.44	26.21	7.60	12.62	11.27	6.04	20.08		12.62	9
8	102	23	7	6	2	3	130	12	5	1	3	10
.....	2,251	3,194	3,137	37,957		842,715	5,427	16,065	25,047		842,715	11
27	3,479	3,195	2,277	10,229		183,483	4,840	5,732	8,635		183,483	12
.....	1.55	1.00	0.65	0.27		0.22	0.84	0.36	0.34		0.22	13
.....	38	84	1,335	12,494	3,565	167,018	122	3,604	13,790		167,018	14
.....	0.51	0.80	0.70	0.56	0.23	0.20	0.68	0.24	0.56		0.20	15
.....	75	105	1,900	24,905	15,570	842,715	180	15,130	27,245		842,715	16
.....	0.51	0.80	0.70	0.50	0.23	0.20	0.68	0.24	0.51		0.20	17
.....	.....	84	2,064	12,090	5,424	47,407	584	3,558	15,520		47,407	18

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[2]....number...	6	.....	.....	.....	.....	2	1	3
20	(a) Area irrigated in these enterprises....acres....	869,482	.....	.....	.....	.....	26,767		842,715
21	(b) Indebtedness....dollars..	2,929,859	.....	.....	.....	.....	117,050		2,812,809
22	(c) Average indebtedness per acre irrigated....dollars..	3.37	.....	.....	.....	.....	4.37		3.34
23	(d) Cost of irrigation works and equipment....dollars..	13,122,585	.....	.....	.....	.....	835,000		12,287,585
24	(e) Investment in water rights....dollars..	700	.....	.....	.....	.....	700		.....
25	(f) Total investment....dollars..	13,123,285	.....	.....	.....	.....	835,700		12,287,585
26	(g) Maintenance and operation....dollars..	186,972	.....	.....	.....	.....	3,489		183,483
27	(h) Total annual charges[3]....dollars..	176,063	.....	.....	.....	.....	9,045		167,018
28	(i) Total charges collected[3]....dollars..	57,259	.....	.....	.....	.....	9,852		47,407
29	(j) Area against which annual charges were assessed....acres....	853,760	.....	.....	.....	.....	11,045		842,715
30	(k) Average indebtedness per acre assessed....dollars..	3.36	.....	.....	.....	.....	5.17		3.34
31	(l) Average charges per acre assessed....dollars..	0.21	.....	.....	.....	.....	0.82		0.20
32	(m) Average charges per acre irrigated....dollars..	0.21	.....	.....	.....	.....	1.06		0.20
	TYPE, 1940								
33	Individual and partnership....number...	166	11	133	21	1	.....	.....	.....
34	Cooperative (incorporated and unincorporated)....number...	17	2	1	1	6	5	1	1
35	Irrigation district....number...	[4] 2	.....	.....	.....	.....	2	.....	.....
36	U. S. Bureau of Reclamation....number...	3	.....	.....	.....	.....	.....	.....	3
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
37	Enterprises reporting pay roll....number...	14	.....	.....	.....	5	7	1	[4] 1
38	Wages and salaries paid and payable for 1939....dollars..	10,616	.....	.....	.....	923	6,693		3,000
39	Persons employed during week ending April 29, 1939....number...	18	.....	.....	.....	5	11		2
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
40	Streams, pumped....number...	20	1	19	.....	.....	.....	.....	.....
41	Wells, pumped or flowing....number...	89	7	77	4	1	.....	.....	.....
42	Streams, gravity or storage....number...	79	5	38	18	6	7	1	4

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Upper Snake River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Ashton	Fremont	5,100	20.57	+4.99	7.67	+3.72	6.40	+2.15	3.66	-0.93	2.84	+0.05	43.3	+2.0
Driggs	Teton	6,097	16.54	+1.17	5.11	+1.77	4.73	+1.26	3.86	-1.16	2.84	-0.70	40.2	+1.5
Idaho Falls	Bonneville	4,742	9.73	-1.29	4.14	+1.50	1.79	-1.20	2.10	-1.26	1.70	-0.33	[2]	[2]
Springfield	Bingham	4,420	7.95	-1.94	4.13	+1.50	1.50	-0.86	1.05	-2.08	1.27	-0.50	46.9	+1.9
Lower Snake River														
Rupert	Minidoka	4,204	5.80	-4.45	3.41	+0.45	1.12	-1.79	0.82	-2.05	0.45	-1.06	49.3	+1.9
Oakley	Cassia	4,191	8.93	-1.54	3.61	+1.28	1.06	-1.33	1.81	-1.94	2.45	+0.45	[2]	[2]
Richfield	Lincoln	4,306	8.77	-0.51	4.30	+1.40	1.53	-1.28	1.04	-1.62	1.90	+0.99	45.4	+0.4
Twin Falls	Twin Falls	3,770	7.92	-1.71	3.92	+1.05	0.96	-2.02	1.53	-1.12	1.51	+0.38	50.7	+2.5
Grand View	Owyhee	2,600	4.89	-2.18	2.46	+0.43	1.15	-0.91	0.44	-1.71	0.84	+0.01	[2]	[2]
Boise	Ada	2,705	10.62	-2.48	4.76	+0.67	3.33	-1.19	0.85	-2.68	1.68	+0.72	53.1	+2.2
Kirkham	Boise	3,900	17.86	-4.93	7.64	-0.37	6.23	-2.24	1.93	-2.66	2.06	+0.34	[2]	[2]
Payette	Payette	2,159	6.92	-3.77	2.82	-0.68	2.32	-1.50	0.49	-1.97	1.29	+0.38	52.5	+2.1
Cambridge	Washington	2,651	13.36	-4.73	5.07	-1.18	6.20	-0.59	1.37	-2.24	0.72	-0.72	50.4	+2.6
Salmon River														
Challis	Custer	5,280	5.99	-1.66	1.38	-0.23	0.62	-0.87	1.82	-0.90	2.17	+0.34	46.5	+3.2
Salmon	Lemhi	4,040	9.98	+1.46	2.50	+0.53	2.45	+0.85	2.92	+0.10	2.11	-0.02	44.6	+0.8
Riggins	Idaho	1,685	13.20	-2.19	3.37	-0.52	3.61	-0.41	4.54	-0.71	1.68	-0.55	[2]	[2]
Clearwater River														
Pierce	Clearwater	3,171	39.83	+0.91	13.04	+0.73	17.83	+4.47	6.30	-2.72	2.66	-1.57	44.4	+0.4
Palouse River														
Moscow	Latah	2,628	16.16	-5.68	5.65	-1.65	7.50	+0.21	1.93	-2.83	1.08	-1.41	49.6	+2.8
Coeur d'Alene River														
Wallace	Shoshone	2,770	28.99	-14.21	10.93	-4.55	12.14	-2.16	4.32	-4.64	1.60	-2.86	48.2	+2.2
Coeur d'Alene	Kootenai	2,160	[2]	[2]	[2]	[2]	7.68	-0.36	3.38	-1.70	1.40	-1.22	48.4	+1.2
Priest River														
Sandpoint	Bonner	2,100	23.15	-9.56	8.75	-3.16	9.24	-0.93	4.08	-2.57	1.08	-2.90	47.1	+2.0
Bear River														
Lifton	Bear Lake	5,926	8.97	-0.93	2.70	+0.44	1.50	-0.82	3.79	+0.80	0.98	-1.35	43.2	+1.2
Grace	Bannock	5,400	13.86	-1.01	5.18	+1.98	2.15	-1.56	3.90	-0.15	2.63	-1.28	43.9	+0.7
Malad	Oneida	4,700	14.04	-1.90	5.16	+1.32	2.53	-1.79	3.25	-1.21	3.10	-0.22	46.9	+1.1
Beaver Creek														
Spencer	Clark	5,883	17.53	-1.85	5.60	+1.29	4.39	-0.10	3.93	-2.75	3.61	-0.29	39.9	+1.3
Big Lost River														
Mackay	Custer	5,897	7.11	-1.70	2.57	+0.76	1.42	-0.70	2.04	-0.48	1.08	-1.28	45.2	+2.9

[1] Departure from normal. [2] Data not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	.....	.....	.....	2	1	3	.....	.....	1	2	3	19
.....	.....	.....	.....	26,767		842,715	.....	.....	26,767		842,715	20
.....	.....	.....	.....	117,050		2,812,809	.....	.....	117,050		2,812,809	21
.....	.....	.....	.....	4.37		3.34	.....	.....	4.37		3.34	22
.....	.....	.....	.....	835,000		12,287,585	.....	.....	835,000		12,287,585	23
.....	.....	.....	.....	700		.....	.....	.....	700		.....	24
.....	.....	.....	.....	835,700		12,287,585	.....	.....	835,700		12,287,585	25
.....	.....	.....	.....	3,489		183,483	.....	.....	3,489		183,483	26
.....	.....	.....	.....	9,045		167,018	.....	.....	9,045		167,018	27
.....	.....	.....	.....	9,852		47,407	.....	.....	9,852		47,407	28
.....	.....	.....	.....	11,045		842,715	.....	.....	11,045		842,715	29
.....	.....	.....	.....	5.17		3.34	.....	.....	5.17		3.34	30
.....	.....	.....	.....	0.82		0.20	.....	.....	0.82		0.20	31
.....	.....	.....	.....	1.06		0.20	.....	.....	1.06		0.20	32
11	125	24	6	.....	.....	.....	158	7	1	.....	.....	33
2	1	3	4	5	2	.....	5	7	3	2	.....	34
.....	.....	.....	.....	1	1	.....	.....	1	1	.....	.....	35
.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	3	36
.....	.....	1	4	6	2	[4]1	2	6	4	1	[4]1	37
.....	.....	692		6,924		3,000	1,600		6,016		3,000	38
.....	.....	6		10		2	9		7		2	39
1	17	2	.....	.....	.....	.....	20	.....	.....	.....	.....	40
7	74	6	2	.....	.....	.....	83	5	1	.....	.....	41
5	35	19	8	6	3	3	60	10	4	2	3	42

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Data for less than 3 enterprises shown with permission of the enterprises involved.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The average precipitation for the calendar year 1939, for Idaho, as reported by the U. S. Weather Bureau, was 13.73 inches, which is 76 percent of normal and 70 percent of that recorded for 1938. Over the northern division of the State, totals averaged 88 percent of normal, over the southwestern division 64 percent of normal, and over the southeastern 69 percent. There was deficiency in precipitation during all seasons, but autumn was the driest season, with 59 percent of normal precipitation. The wettest month was December, with 2.41 inches, or 118 percent of normal, while the driest was August, with 0.16 inch, or 25 percent of normal. The greatest local annual amount was 49.08 inches at Deception Creek, while the least was 3.23 inches at Gooding.

The average precipitation for the water year (October 1938 through September 1939) at 25 stations listed in State table 18 with complete records, and which are representative of the major drainage basins in Idaho, was 13.55 inches, a departure of -2.47 inches from the average water year normal for these stations.

Temperature.—The mean temperature for the year was 47.0°, which is 1.5° above normal and 0.5° higher than recorded last year. The warmest month was July, with a mean temperature of 68.8°, or 0.7° above normal, while the coldest month was February, with a mean temperature of 22.6°, or 5.3° below normal. Summer averaged 0.6° cooler than normal, while the other seasons averaged warmer than normal. The highest temperature recorded during the year was 117°, at Lewiston on July 27, and the lowest temperature was 31° below zero, at Alpha and Deception Creek on February 9.

Spring plowing and the seeding of spring grains started in the warmer sections of the southwest during the latter part of February and by the close of March these activities were quite general. Winter wheat and alfalfa came through the winter mostly in good condition and by the close of March were showing good stands. Dry weather during the last half of April was unfavorable, and crop growth continued slow during May and June. The first crop of alfalfa was cut during late May or early June, and harvesting of grains was well under way by the middle of July, and threshing was active during the latter part of the month.

The autumn was favorable for the maturing of late crops and fruits, and the harvest of prunes, peaches, early apples, onions, and seasonable garden truck was active during September. During October the harvest of late potatoes, beets, late apples, and late lettuce made very good progress and was completed during November.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER		
			Total	Snake River	
				Total	Upper Snake River
					Total
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms....1939...number....	42,343	38,005	37,328	10,234
2	Area irrigated....1939...acres....	2,277,857	2,038,177	2,030,929	634,039
3	(a) Cropland harvested....1939...acres....	2,026,435	1,817,359	1,810,546	582,383
4	(b) Crop failure....1939...acres....	12,448	8,533	8,503	1,358
5	(c) Pasture....1939...acres....	238,974	212,285	211,880	50,298
6	Area irrigated....1929...acres....	2,181,250	1,937,872	1,929,886	.....
7	1919...acres....	2,488,806	2,164,787	2,159,731	.....
8	Increase or decrease (-), 1929-1939....percent....	4.4	5.2	5.2	.....
9	Irrigable area in enterprises....1940...acres....	2,870,023	2,565,096	2,554,495	750,794
10	1930...acres....	2,814,048	2,459,718	2,446,391	.....
11	1920[2]..acres....	3,780,048	3,104,993	3,092,104	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	592,166	526,919	523,566	116,755
13	1930...acres....	632,798	521,846	516,505	.....
14	1920[2]..acres....	1,291,242	940,206	932,373	.....
15	Area works were capable of supplying with water...1940...acres....	2,593,534	2,309,183	2,299,385	723,022
16	1930...acres....	2,617,021	2,271,846	2,259,240	.....
17	1920...acres....	3,092,810	2,662,833	2,655,248	.....
18	Increase or decrease (-), 1930-1940....percent....	-0.9	1.6	1.8	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	315,677	271,006	268,456	88,983
20	1930...acres....	435,771	333,974	329,354	.....
21	1920...acres....	604,004	498,046	495,517	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	87.8	88.3	88.3	87.7
23	1929...percent....	83.3	85.3	85.4	.....
24	1919...percent....	80.5	81.3	81.3	.....
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises....1940...dollars....	102,585,798	97,488,128	96,777,781	20,077,436
26	(a) Cost of irrigation works and equipment....1940...dollars....	100,989,161	96,097,763	95,390,396	19,864,325
27	(b) Investment in water rights (reported)....1940...dollars....	1,596,637	1,390,365	1,387,385	213,111
28	Total investment in irrigation enterprises....1930...dollars....	84,500,354	79,649,767	78,773,614	6,415,940
29	1920...dollars....	91,501,009	84,344,396	83,740,542	10,359,346
30	Increase or decrease (-), 1930-1940....percent....	21.4	22.4	22.9	212.9
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	39.55	42.22	42.09	27.77
32	1930...dollars....	32.29	35.06	34.87	12.69
33	1920...dollars....	29.59	31.67	31.47	17.31
34	Average investment per acre irrigated....1939...dollars....	45.04	47.83	47.65	31.67
35	Estimated final investment in existing enterprises..1940...dollars....	109,513,311	104,302,195	103,579,513	20,549,296
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	38.16	40.66	40.55	27.37
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.
37	Enterprises reporting maintenance and operation...1939...number....	2,986 / 155	2,571 / 134	2,518 / 134	524 / 23
38	Area irrigated in these enterprises....1939...acres....	2,219,486 / 889,254	1,990,706 / 886,352	1,984,063 / 886,352	616,431 / 392,921
39	Cost of maintenance and operation....1939...dollars....	2,256,798 / 202,690	2,093,332 / 201,696	2,068,989 / 201,696	411,210 / 19,157
40	Average cost, per acre irrigated....1939...dollars....	1.02 / 0.23	1.05 / 0.23	1.04 / 0.23	0.67 / 0.05
41	Total annual charges (reported)[4] [5]....1939...dollars....	2,461,470 / 184,534	2,275,524 / 184,090	2,248,002 / 184,090	494,714 / 17,540
42	Average annual charge per acre irrigated....1939...dollars....	1.25 / 0.21	1.28 / 0.21	1.27 / 0.21	0.86 / 0.04
43	Area against which charges were assessed....1939...acres....	2,141,909 / 885,270	1,918,173 / 883,365	1,912,045 / 883,365	609,704 / 391,766
44	Average annual charge per acre assessed....1939...dollars....	1.15 / 0.21	1.19 / 0.21	1.18 / 0.21	0.81 / 0.04
45	Total charges collected[4]....1939...dollars....	2,635,522 / 67,069	2,467,788 / 66,635	2,439,870 / 66,635	450,454 / 18,072
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	23,488,279 / 2,929,859	23,050,120 / 2,929,859	22,702,642 / 2,929,859	2,828,997 / 2,760,661
	WATER DELIVERED TO IRRIGATORS, 1939				
47	Enterprises reporting water delivered....1939...number....	2,852 / 138	2,414 / 116	2,342 / 116	517 / 23
48	Area irrigated by these enterprises....1939...acres....	2,034,989 / 896,000	1,812,319 / 893,106	1,805,333 / 893,106	596,953 / 407,865
49	Water delivered....1939...acre-feet..	8,356,961 / 1,042,271	7,804,257 / 1,039,676	7,786,117 / 1,039,676	3,068,430 / 452,392
50	Average water delivered per acre irrigated....1939...acre-feet..	4.1 / 1.2	4.3 / 1.2	4.3 / 1.2	5.1 / 1.1
51	Average cost of water per acre irrigated....1939...dollars....	1.16 / 0.21	1.19 / 0.21	1.18 / 0.21	0.86 / 0.05
52	Average cost of water per acre-foot delivered..1939...dollars....	0.28 / 0.18	0.28 / 0.18	0.27 / 0.18	0.17 / 0.04
	DRAINAGE OF IRRIGATED LAND				
53	Enterprises reporting land drained or needing drainage....1939...number....	192 /	172 /	167 /	35 / .....
54	Irrigable area in these enterprises....1939...acres....	943,910 /	917,668 /	917,597 /	83,785 / .....
55	Irrigated area in these enterprises....1939...acres....	731,717 /	706,750 /	706,719 /	63,804 / .....
56	Area for which drains have been installed....1939...acres....	238,907 /	238,582 /	238,567 /	9,673 / .....
57	Additional area needing drainage....1939...acres....	29,042 /	22,798 /	22,765 /	5,902 / .....

[1] Data for unindentified independent basins for the 1930 and 1920 Censuses are included only in State total.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

COLUMBIA RIVER—Continued

Snake River—Continued

Upper Snake River—Continued

	South Fork Snake River			Henrys Fork				
Direct (1)	Total	Direct (2)	Salt River (3)	Total	Direct (4)	Teton River (5)	Grays Lake (6)	
2,458	3,542	3,495	47	2,494	2,038	456	25	1
187,444	201,967	197,845	4,122	169,395	125,182	44,213	2,845	2
174,670	189,882	186,331	3,551	153,264	114,521	38,743	2,729	3
10	42	33	9	249	40	209	.....	4
12,564	12,043	11,481	562	15,882	10,621	5,261	116	5
.....	161,988	.....	.....	174,960	.....	.....	.....	6
.....	151,597	.....	.....	208,534	.....	.....	.....	7
.....	24.7	.....	.....	-3.2	.....	.....	.....	8
209,903	229,033	223,274	5,759	194,809	140,886	53,923	4,103	9
.....	185,393	.....	.....	211,117	.....	.....	.....	10
.....	207,292	.....	.....	325,114	.....	.....	.....	11
22,459	27,066	25,429	1,637	25,414	15,704	9,710	1,258	12
.....	23,405	.....	.....	36,157	.....	.....	.....	13
.....	55,695	.....	.....	116,580	.....	.....	.....	14
209,032	220,206	215,325	4,881	181,477	132,251	49,226	3,828	15
.....	181,634	.....	.....	196,373	.....	.....	.....	16
.....	192,473	.....	.....	286,514	.....	.....	.....	17
.....	21.2	.....	.....	-7.6	.....	.....	.....	18
21,588	18,239	17,480	759	12,082	7,069	5,013	963	19
.....	19,646	.....	.....	21,413	.....	.....	.....	20
.....	40,876	.....	.....	77,980	.....	.....	.....	21
89.7	91.7	91.9	84.4	93.3	94.7	89.8	74.3	22
.....	89.2	.....	.....	89.1	.....	.....	.....	23
.....	78.8	.....	.....	72.8	.....	.....	.....	24
6,297,840	6,335,386	6,310,541	24,845	4,602,284	4,377,368	224,916	11,955	25
6,218,557	6,286,119	6,265,572	20,547	4,564,615	4,346,489	218,126	11,895	26
79,283	49,267	44,969	4,298	37,669	30,879	6,790	60	27
.....	2,068,766	.....	.....	1,925,652	.....	.....	.....	28
.....	6,193,701	.....	.....	2,001,841	.....	.....	.....	29
.....	206.2	.....	.....	139.0	.....	.....	.....	30
30.13	28.77	29.31	5.09	25.36	33.10	4.57	3.12	31
.....	11.39	.....	.....	9.81	.....	.....	.....	32
.....	32.18	.....	.....	6.99	.....	.....	.....	33
33.60	31.37	31.90	6.03	27.17	34.97	5.09	4.20	34
6,312,840	6,337,036	6,311,891	25,145	4,626,019	4,399,488	226,531	15,455	35
30.08	27.67	28.27	4.37	23.75	31.23	4.20	3.77	36

Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		
61	5	143	3	109	3	34	.....	154	11	76	10	78	1	18	37
184,704	132,768	197,072	160,165	193,450	160,165	3,622	.....	161,805	99,793	123,875	99,473	37,930	(3)	2,683	38
197,162	5,188	82,313	4,378	80,183	4,378	2,130	.....	57,150	9,413	50,748	9,013	6,402	(3)	382	39
1.07	0.04	0.42	0.03	0.41	0.03	0.59	.....	0.35	0.09	0.41	0.09	0.17	(3)	0.14	40
232,475	4,614	140,012	4,419	140,012	4,419	.....	.....	79,033	8,507	70,104	8,507	8,929	.....	.....	41
1.27	0.03	0.76	0.03	0.76	0.03	.....	.....	0.53	0.09	0.59	0.09	0.28	.....	.....	42
201,759	132,369	191,240	160,060	191,240	160,080	.....	.....	155,136	99,317	121,828	99,317	33,308	.....	.....	43
1.15	0.03	0.73	0.03	0.73	0.03	.....	.....	0.51	0.09	0.58	0.09	0.27	.....	.....	44
204,648	4,490	148,383	4,278	148,383	4,278	.....	.....	75,744	9,304	67,525	9,304	8,219	.....	.....	45
393,118	.....	304,992	661	304,992	661	.....	.....	163,156	2,760,000	134,261	2,760,000	28,895	.....	.....	46
56	4	129	5	92	4	37	1	157	10	76	9	81	1	16	47
184,202	129,408	185,537	160,236	181,415	160,226	4,122	(3)	156,915	118,026	115,961	117,706	40,954	(3)	2,581	48
893,681	155,787	1,172,594	193,728	1,164,011	193,698	8,583	(3)	775,366	102,510	690,456	102,260	84,910	(3)	1,984	49
4.9	1.2	6.3	1.2	6.4	1.2	2.1	(3)	4.9	0.9	6.0	0.9	2.1	(3)	0.8	50
1.29	0.03	0.79	0.03	0.79	0.03	0.59	.....	0.52	0.09	0.60	0.09	0.27	(3)	0.13	51
0.27	0.03	0.13	0.02	0.12	0.02	0.28	.....	0.11	0.10	0.10	0.10	0.13	(3)	0.17	52
8	.....	3	.....	2	.....	1	.....	17	.....	7	.....	10	.....	.....	53
63,772	.....	7,780	.....	(3)	.....	(3)	.....	6,831	.....	4,652	.....	2,179	.....	.....	54
46,540	.....	6,677	.....	(3)	.....	(3)	.....	5,325	.....	4,172	.....	1,153	.....	.....	55
8,573	.....	.....	.....	.....	.....	.....	.....	1,080	.....	100	.....	980	.....	.....	56
1,395	.....	1,060	.....	(3)	.....	(3)	.....	1,213	.....	913	.....	300	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued						
		Snake River—Continued						
		Upper Snake River—Continued			Lower Snake River			
		Blackfoot River (7)	Portneuf River (8)	Bannock Creek (9)	Total		Direct (10)	
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	1,009	643	63	27,094		11,039	
2	Area irrigated....1939...acres....	45,623	25,372	1,393	1,396,890		632,699	
3	(a) Cropland harvested....1939...acres....	38,823	21,512	1,303	1,228,163		609,858	
4	(b) Crop failure....1939...acres....	150	907	.....	7,145		1,363	
5	(c) Pasture....1939...acres....	6,650	2,953	90	161,582		21,478	
6	Area irrigated....1929...acres....	45,157	41,774	.....	.....		.....	
7	1919...acres....	53,910	37,996	.....	.....		.....	
8	Increase or decrease (-), 1929-1939....percent....	1.0	-39.3	.....	.....		.....	
9	Irrigable area in enterprises....1940...acres....	77,440	30,793	4,713	1,803,701		801,866	
10	1930...acres....	81,163	58,846	.....	.....		.....	
11	1920[1]..acres....	77,255	75,923	.....	.....		.....	
12	Excess of irrigable area over the area irrigated..1940...acres....	31,817	5,421	3,320	406,811		169,167	
13	1930...acres....	36,006	17,072	.....	.....		.....	
14	1920[1]..acres....	23,345	37,927	.....	.....		.....	
15	Area works were capable of supplying with water...1940...acres....	76,610	30,056	1,813	1,576,363		696,674	
16	1930...acres....	78,943	48,718	.....	.....		.....	
17	1920...acres....	60,225	59,270	.....	.....		.....	
18	Increase or decrease (-), 1930-1940....percent....	-3.0	-38.3	.....	.....		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	30,987	4,684	420	179,473		63,975	
20	1930...acres....	33,786	6,944	.....	.....		.....	
21	1920...acres....	6,315	21,274	.....	.....		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	59.6	84.4	76.8	88.6		90.8	
23	1929...percent....	57.2	85.7	.....	.....		.....	
24	1919...percent....	89.5	64.1	.....	.....		.....	
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	2,230,384	568,835	30,752	76,700,345		39,855,702	
26	(a) Cost of irrigation works and equipment....1940...dollars....	2,213,268	539,421	30,450	75,526,071		39,817,437	
27	(b) Investment in water rights (reported)....1940...dollars....	17,116	29,414	302	1,174,274		38,265	
28	Total investment in irrigation enterprises....1930...dollars....	1,792,321	629,201	.....	.....		.....	
29	1920...dollars....	1,022,276	1,141,528	.....	.....		.....	
30	Increase or decrease (-), 1930-1940....percent....	24.4	-9.6	.....	.....		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	29.11	18.93	16.96	48.66		57.21	
32	1930...dollars....	22.70	12.92	.....	.....		.....	
33	1920...dollars....	16.97	19.26	.....	.....		.....	
34	Average investment per acre irrigated....1939...dollars....	48.89	22.42	22.08	54.91		62.99	
35	Estimated final investment in existing enterprises..1940...dollars....	2,537,264	649,930	70,752	83,030,217		40,852,797	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	32.76	21.11	15.01	46.03		50.95	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	25	116	4	7	1,994	111	317	12
38	Area irrigated in these enterprises....1939...acres....	44,877	24,028	195	1,262	1,367,632	493,431	629,013	344,648
39	Cost of maintenance and operation....1939...dollars....	52,145	21,553	178	505	1,657,779	182,539	966,124	12,250
40	Average cost, per acre irrigated....1939...dollars....	1.16	0.90	0.91	0.40	1.21	0.37	1.54	0.04
41	Total annual charges (reported)[3] [4]....1939...dollars....	21,892	21,106	.....	196	1,753,288	166,550	1,049,602	9,907
42	Average annual charge per acre irrigated....1939...dollars....	0.56	1.07	.....	0.30	1.47	0.34	1.72	0.03
43	Area against which charges were assessed....1939...acres....	40,192	20,722	.....	655	1,302,341	491,599	655,845	343,879
44	Average annual charge per acre assessed....1939...dollars....	0.54	1.02	.....	0.30	1.35	0.34	1.60	0.03
45	Total charges collected[3]....1939...dollars....	3,520	18,159	.....	.....	1,989,416	48,563	1,012,293	10,057
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	1,909,634	34,257	.....	23,840	19,873,645	169,198	6,407,664	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	28	121	4	10	1,825	93	288	11
48	Area irrigated by these enterprises....1939...acres....	45,423	20,902	195	1,393	1,208,380	485,241	576,834	344,521
49	Water delivered....1939...acre-feet..	175,576	44,434	367	4,795	4,717,687	587,284	2,292,626	414,790
50	Average water delivered per acre irrigated....1939...acre-feet..	3.9	2.1	1.9	3.4	3.9	1.2	4.0	1.2
51	Average cost of water per acre irrigated....1939...dollars....	0.51	1.11	0.91	0.40	1.33	0.35	1.65	0.03
52	Average cost of water per acre-foot delivered..1939...dollars....	0.13	0.52	0.49	0.12	0.34	0.29	0.41	0.03
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	2	5	.....	.....	132	.....	18	.....
54	Irrigable area in these enterprises....1939...acres....	([2])	2,902	.....	.....	833,812	.....	438,122	.....
55	Irrigated area in these enterprises....1939...acres....	([2])	2,762	.....	.....	642,915	.....	335,140	.....
56	Area for which drains have been installed....1939...acres....	.....	20	.....	.....	228,894	.....	55,920	.....
57	Additional area needing drainage....1939...acres....	([2])	534	.....	.....	16,863	.....	2,542	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued

Snake River—Continued

Lower Snake River—Continued

Raft River (11)	Goose Creek (12)	Salmon Falls Creek (13)	Little and Big Wood Rivers: Total	Little and Big Wood Rivers: Direct (14)	Camas Creek (15)	Bruneau River (16)	Boise River: Total	Boise River: Direct (17)	
156	307	281	1,550	1,480	70	138	8,585	8,499	1
11,938	17,977	23,719	89,354	80,012	9,342	12,536	314,381	309,657	2
10,557	16,969	22,951	82,321	73,261	9,060	11,175	249,236	245,740	3
60	86	160	590	590	.....	96	4,006	3,938	4
1,321	922	608	6,443	6,161	282	1,265	61,139	59,979	5
8,935	18,126	28,847	103,149	103,149	.....	18,042	318,496	.....	6
23,620	.....	41,330	147,901	147,901	.....	21,301	328,395	.....	7
33.6	-0.8	-17.8	-13.4	-22.4	.....	-30.5	-1.3	.....	8
17,388	20,153	39,306	120,375	109,703	10,672	13,138	428,566	421,817	9
31,135	24,191	36,977	184,634	184,634	.....	22,836	378,757	.....	10
42,906	.....	87,260	301,662	301,662	.....	35,043	388,313	.....	11
5,450	2,176	15,587	31,021	29,691	1,330	602	114,185	112,160	12
22,200	6,065	8,130	81,485	81,485	.....	4,794	60,261	.....	13
19,286	.....	45,930	153,761	153,761	.....	13,742	59,918	.....	14
13,553	18,941	39,174	109,889	99,217	10,672	12,842	355,301	348,770	15
18,115	24,191	36,977	139,451	139,451	.....	21,651	329,322	.....	16
26,436	.....	49,920	233,972	233,972	.....	23,511	368,854	.....	17
-25.2	-21.7	5.9	-21.2	-28.9	.....	-40.7	7.9	.....	18
1,615	964	15,455	20,535	19,205	1,330	306	40,920	39,113	19
9,180	6,065	8,130	36,302	36,302	.....	3,609	10,826	.....	20
2,816	.....	8,590	86,071	86,071	.....	2,210	40,459	.....	21
88.1	94.9	60.5	81.3	80.6	87.5	97.6	88.5	88.8	22
49.3	74.9	78.0	74.0	74.0	.....	83.3	96.7	.....	23
89.3	.....	82.8	63.2	63.2	.....	90.6	89.0	.....	24
132,992	1,849,793	2,756,961	6,187,877	6,125,462	62,415	142,184	18,593,172	18,547,735	25
129,304	1,599,467	2,556,821	6,183,924	6,122,529	61,395	141,113	18,365,927	18,320,937	26
3,688	250,326	200,160	3,953	2,933	1,020	1,071	227,245	226,798	27
17,460	1,507,220	2,517,550	10,504,183	10,504,183	.....	522,454	16,135,214	.....	28
100,928	.....	4,152,745	6,411,832	6,411,832	.....	532,745	16,013,734	.....	29
661.7	22.7	9.5	-41.1	-41.7	.....	-72.8	15.2	.....	30
9.81	97.66	70.38	56.31	61.74	5.85	11.07	52.33	53.18	31
0.95	62.30	68.08	75.33	75.33	.....	24.13	49.00	.....	32
3.82	.....	83.19	27.40	27.40	.....	22.66	43.41	.....	33
11.14	102.90	116.24	69.25	76.56	6.68	11.34	59.14	59.90	34
272,177	1,850,293	2,760,281	6,495,367	6,427,952	67,415	143,484	21,244,224	21,195,437	35
15.65	91.81	70.23	53.96	58.59	6.32	10.92	49.57	50.25	36

			Little and Big Wood Rivers: Total — Primary Enterprises	Little and Big Wood Rivers: Total — Sup. Enterprises	Little and Big Wood Rivers: Direct — Primary Enterprises	Little and Big Wood Rivers: Direct — Sup. Enterprises		Bruneau River — Primary Enterprises	Bruneau River — Sup. Enterprises	Boise River: Total — Primary Enterprises	Boise River: Total — Sup. Enterprises	Boise River: Direct — Primary Enterprises	Boise River: Direct — Sup. Enterprises	
39	17	15	60	2	41	2	19	61	2	242	73	164	72	37
10,115	17,240	23,599	80,923	(2)	73,851	(2)	7,072	11,532	(2)	310,927	121,229	306,255	121,178	38
4,976	10,183	20,612	65,385	(2)	63,060	(2)	2,325	8,670	(2)	384,692	160,782	380,867	160,772	39
0.49	0.59	0.87	0.81	(2)	0.85	(2)	0.33	0.75	(2)	1.24	1.33	1.24	1.33	40
2,988	11,368	22,750	90,708	2,500	89,008	2,500	1,700	6,093	.....	362,618	142,718	362,618	142,718	41
0.42	0.72	1.14	1.21	1.00	1.25	1.00	0.42	1.35	.....	1.20	1.20	1.20	1.20	42
7,221	16,313	35,000	91,478	4,500	87,478	4,500	4,000	4,900	.....	326,788	118,975	326,788	118,975	43
0.41	0.70	0.65	0.89	0.56	1.02	0.56	0.42	1.24	.....	1.11	1.20	1.11	1.20	44
2,897	10,001	21,017	93,577	3,533	91,877	3,533	1,700	3,534	.....	677,114	22,772	677,114	22,772	45
25	.....	.....	2,042,275	1,050	2,042,275	1,050	.....	.....	.....	9,681,864	112,148	9,681,864	112,148	46
36	14	15	59	1	39	1	20	59	5	225	55	148	54	47
7,410	16,765	23,541	59,526	(2)	52,635	(2)	6,891	9,095	148	293,155	121,372	288,994	121,321	48
16,364	36,404	52,383	222,304	(2)	215,355	(2)	6,949	9,537	198	1,186,496	121,388	1,179,302	121,348	49
2.2	2.2	2.2	3.7	(2)	4.1	(2)	1.0	1.0	1.3	4.0	1.0	4.1	1.0	50
0.65	0.70	1.04	0.84	(2)	0.91	(2)	0.35	0.57	1.52	1.21	1.19	1.22	1.19	51
0.30	0.32	0.47	0.22	(2)	0.22	(2)	0.34	0.54	1.13	0.30	1.19	0.30	1.19	52
.....	1	.....	.....	.....	.....	.....	.....	4	.....	48	.....	46	.....	53
.....	(2)	.....	.....	.....	.....	.....	.....	1,197	.....	342,687	.....	342,310	.....	54
.....	(2)	.....	.....	.....	.....	.....	.....	1,118	.....	262,429	.....	262,158	.....	55
.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	147,665	.....	147,665	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	635	.....	7,793	.....	7,668	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons

[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued							
		Snake River—Continued							
		Lower Snake River—Continued							
		Boise River—Continued			Owyhee River				
							South Fork Owyhee River		
		North Fork Boise River (18)	South Fork Boise River (19)	Moore Creek (20)	Total	Direct (21)	Total	Direct (22)	East Fork Owyhee River (23)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms...1939...number	7	58	21	81	12	24	4	20
2	Area irrigated...1939...acres	149	3,745	830	12,020	987	5,990	170	5,820
3	(a) Cropland harvested...1939...acres	137	2,583	776	8,701	729	3,895	100	3,795
4	(b) Crop failure...1939...acres	.....	64	4	275	.....	275	70	205
5	(c) Pasture...1939...acres	12	1,098	50	3,044	258	1,820	.....	1,820
6	Area irrigated...1929...acres	.....	.....	.....	8,250	.....	.....	.....	.....
7	1919...acres	.....	.....	.....	10,903	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939...percent	.....	.....	.....	45.7	.....	.....	.....	.....
9	Irrigable area in enterprises...1940...acres	248	5,548	953	13,020	1,064	6,307	170	6,137
10	1930...acres	.....	.....	.....	20,623	.....	.....	.....	.....
11	1920[1]...acres	.....	.....	.....	17,241	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated...1940...acres	99	1,803	123	1,000	77	317	.....	317
13	1930...acres	.....	.....	.....	12,373	.....	.....	.....	.....
14	1920[1]...acres	.....	.....	.....	6,338	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres	243	5,364	924	12,582	1,049	6,297	170	6,127
16	1930...acres	.....	.....	.....	8,878	.....	.....	.....	.....
17	1920...acres	.....	.....	.....	11,760	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940...percent	.....	.....	.....	41.7	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated...1940...acres	94	1,619	94	562	62	307	.....	307
20	1930...acres	.....	.....	.....	628	.....	.....	.....	.....
21	1920...acres	.....	.....	.....	657	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water...1939...percent	61.3	69.8	89.8	95.5	94.1	95.1	100.0	95.0
23	1929...percent	.....	.....	.....	92.9	.....	.....	.....	.....
24	1919...percent	.....	.....	.....	92.7	.....	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises...1940...dollars	1,480	31,446	12,511	154,510	12,600	85,800	5,200	80,600
26	(a) Cost of irrigation works and equipment...1940...dollars	1,420	31,145	12,425	151,785	12,600	84,000	5,200	78,800
27	(b) Investment in water rights (reported)...1940...dollars	60	301	86	2,725	.....	1,800	.....	1,800
28	Total investment in irrigation enterprises...1930...dollars	.....	.....	.....	98,652	.....	.....	.....	.....
29	1920...dollars	.....	.....	.....	64,467	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940...percent	.....	.....	.....	56.6	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre...1940...dollars	6.09	5.86	13.54	12.28	12.01	13.63	30.59	13.15
32	1930...dollars	.....	.....	.....	11.11	.....	.....	.....	.....
33	1920...dollars	.....	.....	.....	5.48	.....	.....	.....	.....
34	Average investment per acre irrigated...1939...dollars	9.93	8.40	15.07	12.85	12.77	14.32	30.59	13.85
35	Estimated final investment in existing enterprises...1940...dollars	1,480	31,596	15,711	155,510	12,600	86,800	5,200	81,600
36	Average investment based on estimated final investment and irrigable area, per acre...1940...dollars	5.97	5.70	16.49	11.94	11.84	13.76	30.59	13.30
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises					
37	Enterprises reporting maintenance and operation...1939...number	6	55	1	17	73	11	20	4	16
38	Area irrigated in these enterprises...1939...acres	137	3,737	(2)	798	11,765	987	5,830	170	5,660
39	Cost of maintenance and operation...1939...dollars	147	3,133	(2)	545	7,700	665	2,710	125	2,585
40	Average cost, per acre irrigated...1939...dollars	1.07	0.84	(2)	0.68	0.65	0.67	0.46	0.74	0.46
41	Total annual charges (reported)[3] [4]...1939...dollars	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Average annual charge per acre irrigated...1939...dollars	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	Area against which charges were assessed...1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Average annual charge per acre assessed...1939...dollars	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	Total charges collected[3]...1939...dollars	.....	.....	.....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[4]...1939...dollars	.....	.....	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered...1939...number	5	52	1	20	75	11	21	4	17
48	Area irrigated by these enterprises...1939...acres	83	3,248	(2)	830	11,850	987	5,890	170	5,720
49	Water delivered...1939...acre-feet	186	5,369	(2)	1,639	20,858	2,242	8,700	525	8,175
50	Average water delivered per acre irrigated...1939...acre-feet	2.2	1.7	(2)	2.0	1.8	2.3	1.5	3.1	1.4
51	Average cost of water per acre irrigated...1939...dollars	1.23	0.91	(2)	0.68	0.65	0.67	0.46	0.74	0.45
52	Average cost of water per acre-foot delivered...1939...dollars	0.55	0.55	(2)	0.35	0.37	0.30	0.31	0.24	0.32
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage...1939...number	1	1	.....	.....	.....	.....	.....	.....	.....
54	Irrigable area in these enterprises...1939...acres	(2)	(2)	.....	.....	.....	.....	.....	.....	.....
55	Irrigated area in these enterprises...1939...acres	(2)	(2)	.....	.....	.....	.....	.....	.....	.....
56	Area for which drains have been installed...1939...acres	.....	.....	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage...1939...acres	(2)	(2)	.....	.....	.....	.....	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued														
Snake River—Continued														
Lower Snake River—Continued														
Owyhee River—Con.	Payette River						Weiser River	Salmon River					
											Upper Salmon River		
Jordan Creek (24)	Total		Direct (25)		North Fork Payette River (26)		South Fork Payette River (27)	(28)	Total		Total		
45	2,511		2,124		345		42	864	1,049		676		1
5,043	133,704		85,658		45,137		2,909	31,281	112,824		85,975		2
4,077	101,598		74,670		24,191		2,737	29,746	80,676		65,877		3
.....	96		86		.....		10	15	366		354		4
966	32,010		10,902		20,946		162	1,520	31,782		19,744		5
.....	122,468		.....		.....		.....	33,422	93,818		.....		6
.....	123,072		.....		.....		.....	58,869	115,108		.....		7
.....	9.2		.....		.....		.....	-6.4	20.3		.....		8
5,649	173,018		119,426		50,626		2,966	39,173	131,014		102,488		9
.....	141,797		.....		.....		.....	42,326	116,341		.....		10
.....	165,142		.....		.....		.....	79,925	224,527		.....		11
606	39,314		33,768		5,489		57	7,892	18,190		16,513		12
.....	19,329		.....		.....		.....	8,904	22,523		.....		13
.....	42,070		.....		.....		.....	21,056	109,419		.....		14
5,236	149,398		96,837		49,595		2,966	33,268	130,111		101,820		15
.....	139,495		.....		.....		.....	40,939	110,064		.....		16
.....	117,011		.....		.....		.....	69,718	163,036		.....		17
.....	7.1		.....		.....		.....	-18.7	18.2		.....		18
193	15,694		11,179		4,458		57	1,987	17,287		15,845		19
.....	17,027		.....		.....		.....	7,517	16,246		.....		20
.....	.....		.....		.....		.....	10,849	47,928		.....		21
96.3	89.5		88.5		91.0		98.1	94.0	86.7		84.4		22
.....	87.8		.....		.....		.....	81.6	85.2		.....		23
.....	.....		.....		.....		.....	84.4	70.6		.....		24
56,110	4,509,126		4,116,404		368,667		24,055	1,303,656	789,069		578,337		25
55,185	4,395,332		4,013,131		358,246		23,955	992,088	768,221		566,937		26
925	113,794		103,273		10,421		100	311,568	20,848		11,400		27
.....	4,695,747		.....		.....		.....	1,122,691	875,750		.....		28
.....	2,915,780		.....		.....		.....	2,018,450	1,175,362		.....		29
.....	-4.0		.....		.....		.....	16.1	-9.9		.....		30
10.72	30.18		42.51		7.43		8.11	39.19	6.06		5.68		31
.....	33.66		.....		.....		.....	27.42	7.96		.....		32
.....	24.92		.....		.....		.....	28.95	7.21		.....		33
11.13	33.72		48.06		8.17		8.27	41.68	6.99		6.73		34
56,110	6,530,686		6,116,429		390,202		24,055	1,503,806	795,809		584,162		35
9.93	37.75		51.22		7.71		8.11	38.39	6.07		5.70		36
	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	
42	312	9	125	5	157	4	30	92	3	723	7	464	3	37
4,948	129,351	8,022	83,556	7,687	42,886	335	2,909	31,024	11,427	108,072	5,537	82,116	957	38
4,325	94,429	3,491	75,039	3,310	18,537	181	853	27,351	1,094	38,743	1,462	28,151	346	39
0.87	0.73	0.44	0.90	0.43	0.43	0.54	0.29	0.88	0.10	0.36	0.26	0.34	0.36	40
.....	120,868	3,000	106,093	3,000	14,705	.....	70	43,870	7,273	7,675	1,152	6,695	75	41
.....	1.15	0.40	1.37	0.40	0.54	.....	0.07	1.77	0.64	0.32	0.24	0.42	0.15	42
.....	106,229	7,500	77,967	7,500	27,262	.....	1,000	29,651	11,945	24,477	4,800	16,597	500	43
.....	1.14	0.40	1.36	0.40	0.54	.....	0.07	1.48	0.61	0.31	0.24	0.40	0.15	44
.....	94,803	5,000	78,244	5,000	16,559	.....	.....	40,728	7,051	2,196	150	2,121	150	45
.....	1,081,712	.....	1,036,512	.....	45,200	.....	.....	151,600	56,000	2,500	.....	.....	.....	46
43	292	8	99	5	164	3	29	66	2	641	8	411	3	47
4,973	103,726	524	68,978	189	31,850	335	2,898	19,482	(2)	83,862	5,727	61,609	957	48
9,916	525,146	946	432,292	269	88,817	677	4,037	59,736	(2)	288,647	13,365	238,111	8,633	49
2.0	5.1	1.8	6.3	1.4	2.8	2.0	1.4	3.1	(2)	3.4	2.3	3.8	9.0	50
0.87	1.08	0.94	1.36	1.66	0.51	0.54	0.28	0.85	(2)	0.34	0.25	0.32	0.28	51
0.44	0.21	0.62	0.22	1.17	0.18	0.27	0.20	0.28	(2)	0.10	0.11	0.08	0.03	52
.....	15	.....	15	.....	.....	.....	.....	1	.....	45	.....	45	.....	53
.....	34,449	.....	34,449	.....	.....	.....	.....	(2)	.....	9,777	.....	9,777	.....	54
.....	28,742	.....	28,742	.....	.....	.....	.....	(2)	.....	8,506	.....	8,506	.....	55
.....	24,996	.....	24,996	.....	.....	.....	.....	.....	.....	233	.....	233	.....	56
.....	4,148	.....	4,148	.....	.....	.....	.....	(2)	.....	1,545	.....	1,545	.....	57

[3]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLUMBIA RIVER—Continued								
			Snake River—Continued								
			Lower Snake River—Continued								
			Salmon River—Continued								
			Upper Salmon River—Continued						Lower Salmon River		
			Direct (29)	Pahsimeroi River (30)		Lemhi River (31)		Total		Direct (32)	
	IRRIGATED FARMS AND AREAS										
1	Irrigated farms	1939...number	266	82		328		373		186	
2	Area irrigated	1939...acres	26,218	12,488		47,269		26,849		10,594	
3	(a) Cropland harvested	1939...acres	21,518	9,621		34,738		14,799		7,377	
4	(b) Crop failure	1939...acres	147	19		188		12		10	
5	(c) Pasture	1939...acres	4,553	2,848		12,343		12,038		3,207	
6	Area irrigated	1929...acres	.....	.....		.....		.....		.....	
7		1919...acres	.....	.....		.....		.....		.....	
8	Increase or decrease (-), 1929-1939	percent	.....	.....		.....		.....		.....	
9	Irrigable area in enterprises	1940...acres	36,693	13,213		52,582		28,526		11,452	
10		1930...acres	.....	.....		.....		.....		.....	
11		1920[1]...acres	.....	.....		.....		.....		.....	
12	Excess of irrigable area over the area irrigated	1940...acres	10,475	725		5,313		1,677		858	
13		1930...acres	.....	.....		.....		.....		.....	
14		1920[1]...acres	.....	.....		.....		.....		.....	
15	Area works were capable of supplying with water	1940...acres	36,135	13,103		52,582		28,291		11,277	
16		1930...acres	.....	.....		.....		.....		.....	
17		1920...acres	.....	.....		.....		.....		.....	
18	Increase or decrease (-), 1930-1940	percent	.....	.....		.....		.....		.....	
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	9,917	615		5,313		1,442		683	
20		1930...acres	.....	.....		.....		.....		.....	
21		1920...acres	.....	.....		.....		.....		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	72.6	95.3		89.9		94.9		93.9	
23		1929...percent	.....	.....		.....		.....		.....	
24		1919...percent	.....	.....		.....		.....		.....	
	CAPITAL INVESTED TO JANUARY 1										
25	Total investment in irrigation enterprises	1940...dollars	237,433	70,188		270,716		210,732		90,796	
26	(a) Cost of irrigation works and equipment	1940...dollars	232,369	69,898		264,670		201,284		90,560	
27	(b) Investment in water rights (reported)	1940...dollars	5,064	290		6,046		9,448		236	
28	Total investment in irrigation enterprises	1930...dollars	.....	.....		.....		.....		.....	
29		1920...dollars	.....	.....		.....		.....		.....	
30	Increase or decrease (-), 1930-1940	percent	.....	.....		.....		.....		.....	
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	6.57	5.36		5.15		7.45		8.05	
32		1930...dollars	.....	.....		.....		.....		.....	
33		1920...dollars	.....	.....		.....		.....		.....	
34	Average investment per acre irrigated	1939...dollars	9.06	5.62		5.73		7.85		8.57	
35	Estimated final investment in existing enterprises	1940...dollars	239,598	70,188		274,376		211,647		91,411	
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	6.53	5.31		5.22		7.42		7.98	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
37	Enterprises reporting maintenance and operation	1939...number	164	35	1	265	2	259	4	123	
38	Area irrigated in these enterprises	1939...acres	24,175	10,887	(2)	47,054	(2)	25,956	4,580	10,141	
39	Cost of maintenance and operation	1939...dollars	8,958	3,775	(2)	15,418	(2)	10,592	1,116	5,553	
40	Average cost, per acre irrigated	1939...dollars	0.37	0.35	(2)	0.33	(2)	0.41	0.24	0.55	
41	Total annual charges (reported)[3] [4]	1939...dollars	1,666	2,465	.....	2,564	75	980	1,077	320	
42	Average annual charge per acre irrigated	1939...dollars	0.24	0.74	.....	0.44	0.15	0.12	0.25	0.10	
43	Area against which charges were assessed	1939...acres	7,230	3,520	.....	5,847	500	7,880	4,300	3,200	
44	Average annual charge per acre assessed	1939...dollars	0.23	0.70	.....	0.44	0.15	0.12	0.25	0.10	
45	Total charges collected[3]	1939...dollars	500	880	.....	741	150	75	.....	.....	
46	Indebtedness to December 31 (reported)[4]	1939...dollars	.....	.....	.....	.....	.....	2,500	.....	2,500	
	WATER DELIVERED TO IRRIGATORS, 1939										
47	Enterprises reporting water delivered	1939...number	120	38	1	253	2	230	5	94	
48	Area irrigated by these enterprises	1939...acres	10,565	7,994	(2)	43,050	(2)	22,253	4,770	6,631	
49	Water delivered	1939...acre-feet	30,826	31,040	(2)	176,245	(2)	50,536	4,732	11,759	
50	Average water delivered per acre irrigated	1939...acre-feet	2.9	3.9	(2)	4.1	(2)	2.3	1.0	1.8	
51	Average cost of water per acre irrigated	1939...dollars	0.39	0.42	(2)	0.29	(2)	0.37	0.24	0.49	
52	Average cost of water per acre-foot delivered	1939...dollars	0.13	0.11	(2)	0.07	(2)	0.16	0.25	0.28	
	DRAINAGE OF IRRIGATED LAND										
53	Enterprises reporting land drained or needing drainage	1939...number	4	.....	.....	41	.....	.....	.....	.....	
54	Irrigable area in these enterprises	1939...acres	291	.....	.....	9,486	.....	.....	.....	.....	
55	Irrigated area in these enterprises	1939...acres	261	.....	.....	8,245	.....	.....	.....	.....	
56	Area for which drains have been installed	1939...acres	25	.....	.....	208	.....	.....	.....	.....	
57	Additional area needing drainage	1939...acres	40	.....	.....	1,505	.....	.....	.....	.....	

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued													
Snake River—Continued										Spokane River			
Lower Snake River—Continued													
Salmon River—Continued					Clearwater River								
Lower Salmon River—Continued													
North Fork Salmon River (33)	Panther Creek (34)	Middle Fork Salmon River (35)	South Fork Salmon River (36)	Little Salmon River (37)	Total	Direct (38)	Selway River (40)	South Fork Clearwater River (41)	Total	Direct (45)	Coeur d'Alene River (46)	
25	16	13	7	126	533	525	3	5	630	616	14	1
832	1,003	398	495	13,527	4,457	4,264	63	130	6,270	6,116	154	2
677	536	351	380	5,478	4,375	4,183	63	129	6,029	5,892	137	3
2	.....	.....	.....	.....	32	32	.....	.....	20	20	.....	4
153	467	47	115	8,049	50	49	.....	1	221	204	17	5
.....	.....	.....	.....	.....	4,896	.....	.....	.....	.....	.....	.....	6
.....	.....	.....	.....	.....	4,623	.....	.....	.....	.....	.....	.....	7
.....	.....	.....	.....	.....	-9.0	.....	.....	.....	.....	.....	.....	8
1,027	1,006	568	587	13,886	6,684	6,441	63	180	7,842	7,665	177	9
.....	.....	.....	.....	.....	5,216	.....	.....	.....	.....	.....	.....	10
.....	.....	.....	.....	.....	5,777	.....	.....	.....	.....	.....	.....	11
195	3	170	92	359	2,227	2,177	.....	50	1,572	1,549	23	12
.....	.....	.....	.....	.....	320	.....	.....	.....	.....	.....	.....	13
.....	.....	.....	.....	.....	1,154	.....	.....	.....	.....	.....	.....	14
1,027	1,006	548	567	13,846	4,630	4,432	63	135	7,726	7,549	177	15
.....	.....	.....	.....	.....	5,154	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	5,545	.....	.....	.....	.....	.....	.....	17
.....	.....	.....	.....	.....	-10.2	.....	.....	.....	.....	.....	.....	18
195	3	150	92	319	173	168	.....	5	1,456	1,433	23	19
.....	.....	.....	.....	.....	258	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	922	.....	.....	.....	.....	.....	.....	21
81.0	99.7	72.6	84.3	97.7	96.3	96.2	100.0	96.3	81.2	81.0	87.0	22
.....	.....	.....	.....	.....	95.0	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	83.4	.....	.....	.....	.....	.....	.....	24
16,130	11,405	4,375	3,610	84,416	425,283	424,276	112	895	695,776	692,126	3,650	25
16,130	11,375	4,350	3,610	75,259	424,652	423,705	112	835	693,486	689,886	3,600	26
.....	30	25	.....	9,157	631	571	.....	60	2,290	2,240	50	27
.....	.....	.....	.....	.....	431,309	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	298,755	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	-1.4	.....	.....	.....	.....	.....	.....	30
15.71	11.34	7.98	6.15	6.10	91.85	95.73	1.78	6.63	90.06	91.68	20.62	31
.....	.....	.....	.....	.....	83.68	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	53.88	.....	.....	.....	.....	.....	.....	33
19.39	11.37	10.99	7.29	6.24	95.42	99.50	1.78	6.88	110.97	113.17	23.70	34
16,430	11,405	4,375	3,610	84,416	425,783	424,776	112	895	706,351	702,701	3,650	35
16.00	11.34	7.70	6.15	6.08	63.70	65.95	1.78	4.97	90.07	91.68	20.62	36
				Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.						
21	16	9	7	83 / 4	43 / 3	37 / 3	3	3	24	14	10	37
722	1,003	313	495	13,282 / 4,580	4,071 / 22	3,898 / 22	63	110	5,858	5,770	88	38
1,209	584	267	197	2,782 / 1,116	28,914 / 262	28,825 / 262	25	64	23,491	23,288	203	39
1.67	0.58	0.85	0.40	0.21 / 0.24	7.10 / 11.91	7.39 / 11.91	0.40	0.58	4.01	4.04	2.31	40
.....	.....	.....	.....	660 / 1,077	34,748 /	34,748 /	.....	.....	27,522	27,522	.....	41
.....	.....	.....	.....	0.14 / 0.25	9.71 /	9.71 /	.....	.....	4.80	4.80	.....	42
.....	.....	.....	.....	4,680 / 4,300	4,439 /	4,439 /	.....	.....	6,128	6,128	.....	43
.....	.....	.....	.....	0.14 / 0.25	7.83 /	7.83 /	.....	.....	4.49	4.49	.....	44
.....	.....	.....	.....	75 /	31,256 /	31,256 /	.....	.....	27,918	27,918	.....	45
.....	.....	.....	.....	..... /	506,005 /	506,005 /	.....	.....	347,478	347,478	.....	46
19	16	11	4	86 / 5	55 / 3	49 / 3	3	3	31	17	14	47
671	1,003	366	295	13,287 / 4,770	4,134 / 22	3,979 / 22	63	92	6,050	5,896	154	48
2,858	2,815	993	905	31,206 / 4,732	7,186 / 50	6,642 / 50	270	274	15,598	14,954	644	49
4.3	2.8	2.7	3.1	2.3 / 1.0	1.7 / 2.3	1.7 / 2.3	4.3	3.0	2.6	2.5	4.2	50
1.87	0.58	0.85	0.56	0.21 / 0.24	9.00 / 11.91	9.33 / 11.91	0.40	0.43	4.76	4.80	2.31	51
0.44	0.21	0.31	0.18	0.09 / 0.25	5.18 / 5.24	5.59 / 5.24	0.09	0.15	1.85	1.89	0.55	52
.....	.....	.....	.....	..... /	..... /	..... /	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	..... /	..... /	..... /	.....	.....	.....	.....	.....	54
.....	.....	.....	.....	..... /	..... /	..... /	.....	.....	.....	.....	.....	55
.....	.....	.....	.....	..... /	..... /	..... /	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	..... /	..... /	..... /	.....	.....	.....	.....	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued				GREAT SALT LAKE	
		Clark Fork				Bear River	
		Total	Direct (50)	Priest River (51)	Kootenai River (52)	Total	Direct (54)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	39	34	5	8	3,514	2,993
2	Area irrigated....1939...acres	760	677	73	228	162,146	143,379
3	(a) Cropland harvested....1939...acres	662	589	73	122	142,557	125,558
4	(b) Crop failure....1939...acres	10	10	.....	.....	512	505
5	(c) Pasture....1939...acres	78	78	.....	106	19,077	17,316
6	Area irrigated....1929...acres	.....	.....	.....	.....	161,304	78,031
7	1919...acres	.....	.....	.....	.....	214,106	110,036
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	0.5	83.7
9	Irrigable area in enterprises....1940...acres	1,998	1,837	161	761	193,153	168,603
10	1930...acres	.....	.....	.....	.....	183,647	94,258
11	1920[2]...acres	.....	.....	.....	.....	321,804	159,929
12	Excess of irrigable area over the area irrigated..1940...acres	1,248	1,160	88	533	31,007	25,224
13	1930...acres	.....	.....	.....	.....	22,343	16,227
14	1920[2]...acres	.....	.....	.....	.....	107,698	49,893
15	Area works were capable of supplying with water...1940...acres	1,346	1,224	122	726	177,838	157,320
16	1930...acres	.....	.....	.....	.....	180,716	92,192
17	1920...acres	.....	.....	.....	.....	247,166	132,880
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	-1.6	70.6
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	596	547	49	498	15,692	13,941
20	1930...acres	.....	.....	.....	.....	19,412	14,161
21	1920...acres	.....	.....	.....	.....	33,060	22,844
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	55.7	55.3	59.8	31.4	91.2	91.1
23	1929...percent	.....	.....	.....	.....	89.3	84.6
24	1919...percent	.....	.....	.....	.....	86.6	82.8
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	9,221	8,096	1,125	5,350	3,833,159	3,618,553
26	(a) Cost of irrigation works and equipment....1940...dollars	8,601	7,566	1,035	5,280	3,656,016	3,468,978
27	(b) Investment in water rights (reported)....1940...dollars	620	530	90	70	177,143	149,575
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	.....	2,275,519	736,516
29	1920...dollars	.....	.....	.....	.....	3,328,007	2,088,003
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	68.5	391.3
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	6.85	6.61	9.22	7.37	21.55	23.00
32	1930...dollars	.....	.....	.....	.....	12.59	7.99
33	1920...dollars	.....	.....	.....	.....	13.46	15.71
34	Average investment per acre irrigated....1939...dollars	12.29	11.96	15.41	23.46	23.64	25.24
35	Estimated final investment in existing enterprises..1940...dollars	10,861	9,596	1,265	5,470	3,907,244	3,688,863
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	5.44	5.22	7.86	7.19	20.23	21.88
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	24	19	5	5	252 / 21	193 / 16
38	Area irrigated in these enterprises....1939...acres	675	602	73	110	152,304 / 2,902	139,551 / 2,710
39	Cost of maintenance and operation....1939...dollars	707	642	65	145	106,029 / 994	96,650 / 943
40	Average cost, per acre irrigated....1939...dollars	1.05	1.07	0.89	1.32	0.70 / 0.34	0.69 / 0.35
41	Total annual charges (reported)[5] [6]....1939...dollars	.....	.....	.....	.....	112,497 / 444	104,570 / 444
42	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	0.81 / 0.23	0.82 / 0.23
43	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	149,161 / 1,905	137,606 / 1,905
44	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	0.75 / 0.23	0.76 / 0.23
45	Total charges collected[5]....1939...dollars	.....	.....	.....	.....	107,215 / 434	96,857 / 434
46	Indebtedness to December 31 (reported)[6]....1939...dollars	.....	.....	.....	.....	150,159 /	148,523 / .....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number	33	28	5	8	274 / 22	180 / 16
48	Area irrigated by these enterprises....1939...acres	708	635	73	228	146,162 / 2,894	128,394 / 2,667
49	Water delivered....1939...acre-feet	1,903	1,717	186	639	276,115 / 2,595	240,000 / 2,339
50	Average water delivered per acre irrigated....1939...acre-feet	2.7	2.7	2.5	2.8	1.9 / 0.9	1.9 / 0.9
51	Average cost of water per acre irrigated....1939...dollars	1.03	1.05	0.89	1.32	0.82 / 0.33	0.82 / 0.33
52	Average cost of water per acre-foot delivered..1939...dollars	0.38	0.39	0.35	0.47	0.43 / 0.36	0.44 / 0.38
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number	4	4	.....	1	15 /	13 / .....
54	Irrigable area in these enterprises....1939...acres	30	30	.....	(4)	23,872 /	23,252 / .....
55	Irrigated area in these enterprises....1939...acres	16	16	.....	(4)	23,210 /	22,620 / .....
56	Area for which drains have been installed....1939...acres	15	15	.....	.....	325 /	325 / .....
57	Additional area needing drainage....1939...acres	7	7	.....	(4)	5,789 /	5,419 / .....

[1] In the 1930 and 1920 reports, Camas Creek apparently included the area now designated as Mud Lake Direct (58) (number refers to separate map); therefore, no 1930 or 1920 figures for these basins can be shown separately.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Percent not shown when more than 1,000.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

GREAT SALT LAKE—Continued		INDEPENDENT BASINS										
Bear River—Continued		Mud Lake										
				Camas Creek[1]								
Thomas Creek	Malad River	Total	Direct	Total	Direct	Beaver Creek	Medicine Lodge Creek	Birch Creek	Little Lost River	Big Lost River	Deep Creek	
(55)	(57)		(58)		(59)	(60)	(61)	(62)	(63)	(64)	(65)	
48	473	226	184	42	36	6	27	19	87	399	66	1
4,175	14,592	29,934	22,710	7,224	6,222	1,002	3,045	3,698	11,827	26,335	2,595	2
3,275	13,724	26,617	21,973	4,644	3,792	852	2,719	2,693	11,277	20,622	2,591	3
.....	7	56	46	10	10	.....	35	.....	650	2,662	.....	4
900	861	3,261	691	2,570	2,420	150	291	1,005	.....	3,051	4	5
3,168	8,858	20,895	.....	.....	.....	806	3,983	.....	4,964	40,078	.....	6
8,905	16,679	18,982	.....	.....	.....	1,502	5,019	.....	11,552	72,788	.....	7
31.8	64.7	43.3	.....	.....	.....	24.3	-23.6	.....	140.3	-34.3	.....	8
5,175	19,375	42,189	32,658	9,531	8,251	1,280	5,021	4,241	15,717	40,050	4,556	9
3,246	10,522	59,836	.....	.....	.....	1,546	5,187	.....	5,684	85,283	.....	10
8,929	43,404	97,789	.....	.....	.....	2,590	12,445	.....	31,452	204,845	.....	11
1,000	4,783	12,255	9,948	2,307	2,029	278	1,976	543	3,790	13,715	1,961	12
78	1,664	38,941	.....	.....	.....	740	1,204	.....	720	45,205	.....	13
24	26,725	78,797	.....	.....	.....	1,088	7,426	.....	19,900	132,057	.....	14
4,275	16,243	40,583	31,447	9,136	7,856	1,280	4,321	4,041	15,717	38,695	3,156	15
3,246	10,502	59,721	.....	.....	.....	1,536	5,187	.....	5,684	79,986	.....	16
8,905	17,128	48,160	.....	.....	.....	1,970	8,390	.....	18,732	105,727	.....	17
31.7	54.7	-32.0	.....	.....	.....	-16.7	-16.7	.....	176.5	-51.6	.....	18
100	1,651	10,649	8,737	1,912	1,634	278	1,276	343	3,790	12,360	561	19
78	1,644	38,826	.....	.....	.....	730	1,204	.....	720	39,908	.....	20
.....	449	29,168	.....	.....	.....	468	3,371	.....	7,180	32,939	.....	21
97.7	89.8	73.8	72.2	79.1	79.2	78.3	70.5	91.5	75.9	68.1	82.2	22
97.6	84.3	35.0	.....	.....	.....	52.5	76.8	.....	87.3	50.1	.....	23
100.0	97.4	39.4	.....	.....	.....	76.2	59.8	.....	61.7	68.8	.....	24
12,835	201,771	393,946	367,882	26,064	17,139	8,925	17,195	25,750	211,390	593,768	22,462	25
12,100	174,938	382,577	364,457	18,120	11,620	6,500	14,275	14,900	211,350	592,618	19,662	26
735	26,833	11,369	3,425	7,944	5,519	2,425	2,920	10,850	40	1,150	2,800	27
42,830	89,952	555,425	.....	.....	.....	8,500	7,535	.....	16,600	1,833,725	.....	28
25,389	332,175	585,886	.....	.....	.....	7,259	31,690	.....	474,465	2,709,698	.....	29
-70.0	124.3	-29.1	.....	.....	.....	5.0	128.2	.....	[3]	-67.6	.....	30
3.00	12.42	9.71	11.70	2.85	2.18	6.97	3.98	6.37	13.45	15.34	7.12	31
13.19	8.57	9.30	.....	.....	.....	5.53	1.45	.....	2.92	22.93	.....	32
2.85	19.39	12.17	.....	.....	.....	3.68	3.78	.....	25.33	25.63	.....	33
3.07	13.83	13.16	.16.20	3.61	2.75	8.91	5.65	6.96	17.72	22.55	8.66	34
12,835	205,546	426,858	399,584	27,274	18,349	8,925	21,495	25,750	211,390	595,667	22,712	35
2.48	10.61	10.12	12.24	2.86	2.22	6.97	4.28	6.07	13.45	14.87	4.99	36
Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises									
2	1	57	4	73	33	38	32	6	27	19	7	25	12	37
(4)	(4)	11,978	171	29,934	22,710	7,224	6,222	1,002	3,045	3,698	11,873	25,366	2,560	38
(4)	(4)	9,027	36	37,933	36,267	1,666	1,339	327	1,113	1,203	4,047	10,760	2,381	39
(4)	(4)	0.75	0.21	1.27	1.60	0.23	0.22	0.33	0.37	0.33	0.34	0.42	0.93	40
280	.....	7,647	.....	28,647	28,647	.....	.....	.....	.....	.....	3,812	38,943	2,047	41
0.56	.....	0.75	.....	1.66	1.66	.....	.....	.....	.....	.....	0.34	1.80	0.91	42
1,400	.....	10,155	.....	20,839	20,839	.....	.....	.....	.....	.....	15,040	34,838	3,858	43
0.20	.....	0.75	.....	1.37	1.37	.....	.....	.....	.....	.....	0.25	1.12	0.53	44
280	.....	10,078	.....	27,511	27,511	.....	.....	.....	.....	.....	2,048	28,910	2,050	45
.....	.....	1,636	.....	50,000	50,000	.....	.....	.....	.....	.....	.....	238,000	.....	46
5	1	89	5	72	34	38	32	6	27	19	8	25	13	47
4,175	(4)	13,593	206	29,819	22,595	7,224	6,222	1,002	3,045	3,698	11,927	25,424	2,595	48
5,525	(4)	30,590	226	77,697	63,913	13,784	10,482	3,302	7,221	13,718	33,068	137,837	7,048	49
1.3	(4)	2.3	1.1	2.6	2.8	1.9	1.7	3.3	2.4	3.7	2.8	5.4	2.7	50
0.45	(4)	0.83	0.21	1.26	1.59	0.23	0.22	0.33	0.37	0.33	0.34	1.62	0.96	51
0.34	(4)	0.37	0.19	0.48	0.56	0.12	0.13	0.10	0.15	0.09	0.12	0.30	0.35	52
.....	.....	2	.....	1	1	.....	.....	.....	.....	.....	.....	4	.....	53
.....	.....	(4)	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	1,370	.....	54
.....	.....	(4)	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	1,143	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	(4)	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	415	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL[1]	COLUMBIA RIVER						
				Total	Snake River					
					Total	Upper Snake River				
						Total	Direct (1)	South Fork Snake River		
								Total	Direct (2)	Salt River (3)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
1	Enterprises	1940..number	[2] 3,639	3,119	3,040	635	78	170	132	38
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	713	740	756	1,139	2,680	1,295	1,631	128
3	Diversion dams	1940..total number	3,209	2,750	2,680	465	29	98	76	22
4		1930..total number	2,305	1,808	1,764	.....	.....	99	.....	.....
5		1920..total number	2,872	2,071	2,055	.....	.....	112	.....	.....
6	(a) Concrete and masonry	1940..number	336	248	237	100	11	37	37	.....
7	(b) Timber	1940..number	290	238	231	35	1	16	8	8
8	(c) Earth and rock	1940..number	1,964	1,727	1,685	219	15	22	15	7
9	(d) Other, mixed, and not reported	1940..number	619	537	527	111	2	23	16	7
10	Main canals and laterals	1940..total length, miles	13,602.1	12,045.0	11,995.8	3,027.7	817.6	775.1	734.1	41.0
11		1930..total length, miles	14,344	12,724	12,655	.....	.....	817	.....	.....
12		1920..total length, miles	17,298	14,067	14,054	.....	.....	1,051	.....	.....
13	(a) Earth	1940..length, miles	13,489	11,941	11,901	3,018	817	772	731	41
14	(b) Lined	1940..length, miles	113.1	104.0	94.8	9.7	0.6	3.1	3.1	.....
15		1940..capacity, c.f.s.[3]	71,510	65,342	64,699	25,624	5,309	8,897	8,683	214
16		1930..capacity, c.f.s.[3]	76,763	67,487	67,161	.....	.....	7,031	.....	.....
17		1920..capacity, c.f.s.[3]	86,273	74,815	74,625	.....	.....	8,609	.....	.....
18	Pipe lines[4]	1940..total length, miles	299.9	285.7	213.4	15.6	4.4	0.7	0.1	0.6
19		1930..total length, miles	263.4	254.6	192.0	.....	.....	.....	.....	.....
20		1920..total length, miles	180.6	173.6	168.4	.....	.....	.....	.....	.....
21	(a) Concrete	1940..length, miles	96.0	94.1	62.5	4.7	2.4	0.6	.....	0.6
22	(b) Metal	1940..length, miles	58.5	50.8	41.3	5.4	1.0	0.1	0.1	.....
23	(c) Wood-stave	1940..length, miles	121.0	116.7	101.7	5.3	1.0	.....	.....	.....
24	(d) Other	1940..length, miles	24.4	24.1	7.9	0.2	.....	.....	.....	.....
25	Storage dams	1940..total number	260	212	207	47	7	4	4	.....
26		1930..total number	152	121	116	.....	.....	3	.....	.....
27		1920..total number	288	191	190	.....	.....	7	.....	.....
28	(a) Concrete and masonry	1940..number	44	38	34	7	2	1	1	.....
29	(b) Earth and rock	1940..number	185	145	144	35	4	2	2	.....
30	(c) Other, mixed, and not reported	1940..number	31	29	29	5	1	1	1	.....
31	Reservoirs	1940..total number	290	239	231	45	6	4	4	.....
32	(a) 1-99 acre-feet capacity	1940..number	164	134	128	27	3	3	3	.....
33	(b) 100-999 acre-feet capacity	1940..number	70	53	51	11	2	1	1	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	56	52	52	7	1	.....	.....	.....
35		1940..total capacity, ac.-ft.[5]	3,795,272	3,730,064	3,729,158	2,129,009	1,700,602	163	163	.....
36		1930..total number	155	125	121	.....	.....	1	.....	.....
37		1930..total capacity, ac.-ft.	3,645,373	3,545,738	3,545,232	.....	.....	200	.....	.....
38	Wells, flowing	1940..number	375	251	251	2	2	.....	.....	.....
39		1930..number	220	180	180	.....	.....	.....	.....	.....
40		1920..number	142	85	85	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	40,165	28,529	28,529	(6)	(6)	.....	.....	.....
42		1930..yield, g.p.m.	30,108	20,808	20,808	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	15,133	7,665	7,665	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	309	238	236	14	2	2	2	.....
45		1930..number	121	104	101	.....	.....	.....	.....	.....
46		1920..number	53	53	53	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	225,164	120,006	119,965	15,280	(6)	(6)	(6)	.....
48		1930..yield, g.p.m.	34,601	25,811	25,656	.....	.....	.....	.....	.....
49		1920..yield, g.p.m.	17,749	17,749	17,749	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	665	581	567	81	43	3	3	.....
51		1930..total number	393	367	350	.....	.....	1	.....	.....
52	Prime movers	1940..capacity, hp.	44,537	39,993	38,672	2,903	2,511	21	21	.....
53		1930..capacity, hp.	33,754	30,143	29,059	.....	.....	5	.....	.....
54		1920..capacity, hp.	28,364	27,465	27,465	.....	.....	.....	.....	.....
55	(a) Electric	1940..number	495	424	414	54	38	1	1	.....
56		1940..capacity, hp.	40,575	36,151	34,875	2,584	2,459	(6)	(6)	.....
57	(b) Internal-combustion	1940..number	150	139	136	24	5	2	2	.....
58		1940..capacity, hp.	1,839	1,721	1,711	316	52	(6)	(6)	.....
59	(c) Other	1940..number	20	18	17	3	.....	.....	.....	.....
60		1940..capacity, hp.	2,123	2,121	2,086	3	.....	.....	.....	.....
61	Pumps	1940..total number	675	590	576	78	40	3	3	.....
62		1930..number	465	429	411	.....	.....	1	.....	.....
63		1920..number	232	215	215	.....	.....	.....	.....	.....
64		1940..capacity, g.p.m.	2,719,905	2,338,758	2,293,131	195,348	166,805	3,210	3,210	.....
65		1930..capacity, g.p.m.	2,113,513	1,822,173	1,785,256	.....	.....	600	.....	.....
66		1920..capacity, g.p.m.	1,397,681	1,286,516	1,286,516	.....	.....	.....	.....	.....
67	(a) Centrifugal	1940..number	482	420	409	67	38	3	3	.....
68		1940..capacity, g.p.m.	2,272,655	1,958,386	1,912,860	183,186	164,585	3,210	3,210	.....
69		1940..average capacity, g.p.m.	4,715	4,663	4,677	2,734	4,331	1,070	1,070	.....
70	(b) Turbine	1940..number	111	95	95	8	2	.....	.....	.....
71		1940..capacity, g.p.m.	214,756	170,446	170,446	12,020	(6)	.....	.....	.....
72		1940..average capacity, g.p.m.	1,935	1,794	1,794	1,502	(6)	.....	.....	.....
73	(c) Plunger	1940..number	10	7	5	.....	.....	.....	.....	.....
74		1940..capacity, g.p.m.	257	234	193	.....	.....	.....	.....	.....
75		1940..average capacity, g.p.m.	26	33	39	.....	.....	.....	.....	.....
76	(d) Other	1940..number	72	68	67	3	.....	.....	.....	.....
77		1940..capacity, g.p.m.	232,237	209,692	209,632	142	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	26	26	25	19	23	8	8	.....
79		1930..average, feet	32	32	31	.....	.....	6	.....	.....
80		1920..average, feet	29	32	32	.....	.....	.....	.....	.....
81	from pumped wells	1940..average, feet	29	29	27	20	(6)	(6)	(6)	.....
82	from surface sources	1940..average, feet	24	24	23	19	24	15	15	.....

[1] Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State total.
[2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

COLUMBIA RIVER—Continued															
Snake River—Continued															
Upper Snake River—Continued							Lower Snake River								
Henrys Fork												Little and Big Wood Rivers			
Total	Direct (4)	Teton River (5)	Grays Lake (6)	Blackfoot River (7)	Portneuf River (8)	Bannock Creek (9)	Total	Direct (10)	Raft River (11)	Goose Creek (12)	Salmon Falls Creek (13)	Total	Direct (14)	Camas Creek (15)	
189	99	90	22	29	137	10	2,405	376	50	20	17	82	60	22	1
960	1,336	547	174	2,642	219	181	655	1,853	271	947	2,304	1,340	1,654	485	2
147	81	66	21	30	123	17	2,215	296	37	88	17	87	61	26	3
93	.....	.....	.....	55	136	.....	.....	.....	7	5	20	55	.....	.....	4
226	.....	.....	.....	43	101	.....	.....	.....	101	.....	40	271	.....	.....	5
32	24	8	.....	4	16	.....	137	27	8	2	.....	15	14	1	6
16	14	2	.....	2	.....	.....	196	15	.....	1	.....	13	13	.....	7
72	36	36	17	19	67	7	1,466	211	20	25	13	44	19	25	8
27	7	20	4	5	40	10	416	43	9	60	4	15	15	.....	9
770.6	516.5	254.1	38.1	333.1	252.2	41.0	8,968.1	3,403.7	89.0	98.0	72.0	643.4	608.4	35.0	10
683	.....	.....	.....	463	358	.....	.....	.....	78	125	235	999	.....	.....	11
1,187	.....	.....	.....	354	421	.....	.....	.....	163	.....	352	1,105	.....	.....	12
767	513	254	38	333	250	41	8,883	3,386	89	98	70	643	608	35	13
3.6	3.5	0.1	0.1	0.1	2.2	.....	85.1	17.7	.....	.....	2.0	0.4	0.4	.....	14
8,720	7,717	1,003	73	1,755	801	69	39,075	16,729	285	571	789	2,845	2,703	142	15
10,709	.....	.....	.....	2,232	1,072	.....	.....	.....	379	523	841	2,867	.....	.....	16
12,693	.....	.....	.....	1,214	1,274	.....	.....	.....	642	.....	1,857	6,658	.....	.....	17
1.2	0.7	0.5	.....	3.3	6.0	.....	197.8	45.8	1.1	0.2	3.0	.....	.....	.....	18
1.0	.....	.....	.....	3.9	5.5	.....	.....	.....	.....	.....	.....	20.6	.....	.....	19
0.8	.....	.....	.....	1.1	2.8	.....	.....	.....	.....	.....	0.1	7.2	.....	.....	20
0.2	.....	0.2	.....	1.6	.....	.....	57.8	7.2	.....	.....	.....	.....	.....	.....	21
0.5	0.2	0.3	.....	0.8	3.0	.....	35.9	12.9	0.7	0.2	1.0	.....	.....	.....	22
0.5	0.5	.....	.....	1.0	2.8	.....	96.4	24.9	0.4	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	0.2	.....	7.7	0.8	.....	.....	2.0	.....	.....	.....	24
13	10	3	4	1	17	1	160	26	12	3	3	14	6	8	25
4	.....	.....	.....	2	14	.....	.....	.....	.....	1	1	4	4	.....	26
25	.....	.....	.....	3	7	.....	.....	.....	2	.....	6	24	24	.....	27
1	1	.....	1	.....	2	.....	27	3	7	.....	1	1	1	.....	28
12	9	3	3	.....	13	1	109	19	5	3	2	12	5	7	29
.....	.....	.....	.....	1	2	.....	24	4	.....	.....	.....	1	.....	1	30
13	10	3	4	1	16	1	186	31	13	4	4	15	7	8	31
4	1	3	3	1	13	.....	101	17	12	3	1	2	2	.....	32
5	5	.....	.....	.....	2	1	40	7	.....	.....	1	3	1	2	33
4	4	.....	1	.....	1	.....	45	7	1	1	2	10	4	6	34
210,747	210,732	15	200,131	(6)	17,176	(6)	1,600,149	63,827	1,568	75,007	211,601	353,347	314,647	38,700	35
3	.....	.....	.....	3	11	.....	.....	.....	.....	1	1	5	5	.....	36
82,888	.....	.....	.....	450,250	23,845	.....	.....	.....	.....	74,000	182,650	228,900	228,900	.....	37
.....	.....	.....	.....	.....	.....	.....	249	80	1	.....	4	.....	.....	.....	38
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	23,759	4,784	(6)	.....	290	.....	.....	.....	41
2,828	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,900	.....	.....	.....	43
5	.....	5	.....	.....	5	.....	222	44	28	1	1	8	8	.....	44
23	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	1	1	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	46
5,835	.....	5,835	.....	.....	5,375	.....	104,685	25,415	15,920	(6)	(6)	5,945	5,945	.....	47
3,886	.....	.....	.....	3	900	.....	.....	.....	.....	.....	.....	900	900	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,500	2,500	.....	49
8	3	5	.....	.....	27	.....	486	199	21	1	1	8	8	.....	50
44	.....	.....	.....	1	4	.....	.....	.....	.....	.....	.....	3	3	.....	51
208	71	137	.....	.....	163	.....	35,769	29,934	618	(6)	(6)	57	57	.....	52
326	.....	.....	.....	2	25	.....	.....	.....	.....	.....	.....	65	65	.....	53
.....	.....	.....	.....	.....	18	.....	.....	.....	.....	.....	6	32	32	.....	54
1	1	.....	.....	.....	14	.....	360	171	.....	.....	1	1	1	.....	55
(6)	(6)	.....	.....	.....	70	.....	32,291	29,466	.....	.....	(6)	(6)	(6)	.....	56
6	1	5	.....	.....	11	.....	112	24	20	1	.....	6	6	.....	57
167	(6)	137	.....	.....	91	.....	1,395	248	570	(6)	.....	49	49	.....	58
1	1	.....	.....	.....	2	.....	14	4	1	.....	.....	1	1	.....	59
(6)	(6)	.....	.....	.....	(6)	.....	2,083	220	(6)	.....	.....	(6)	(6)	.....	60
8	3	5	.....	.....	27	.....	498	202	27	1	1	8	8	.....	61
44	.....	.....	.....	1	4	.....	.....	.....	.....	.....	.....	3	3	.....	62
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	5	5	.....	63
12,986	6,661	6,325	.....	.....	12,347	.....	2,097,783	1,768,148	15,470	(6)	(6)	5,995	5,995	.....	64
18,695	.....	.....	.....	3	2,236	.....	.....	.....	.....	.....	.....	3,000	3,000	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	440	4,050	4,050	.....	66
4	2	2	.....	.....	22	.....	342	156	18	1	.....	5	5	.....	67
8,166	(6)	(6)	.....	.....	7,225	.....	1,729,674	1,644,273	8,500	(6)	.....	3,945	3,945	.....	68
2,042	(6)	(6)	.....	.....	328	.....	5,058	10,540	472	(6)	.....	789	789	.....	69
3	.....	3	.....	.....	3	.....	87	31	9	.....	1	.....	.....	.....	70
4,800	.....	4,800	.....	.....	5,000	.....	158,426	86,445	6,970	.....	(6)	.....	.....	.....	71
1,600	.....	1,600	.....	.....	1,667	.....	1,821	2,789	774	.....	(6)	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	5	2	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	193	(5)	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	39	(6)	.....	.....	.....	.....	.....	.....	75
1	1	.....	.....	.....	2	.....	64	13	.....	.....	.....	3	3	.....	76
(6)	(6)	.....	.....	.....	(6)	.....	209,490	37,355	.....	.....	.....	2,050	2,050	.....	77
25	8	38	.....	.....	15	.....	26	28	38	(6)	(6)	19	19	.....	78
21	.....	.....	.....	80	24	.....	.....	.....	.....	.....	.....	22	22	.....	79
.....	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	15	17	17	.....	80
31	3	38	.....	.....	18	.....	28	26	39	(6)	(6)	19	19	.....	81
10	10	.....	.....	.....	14	.....	24	29	30	.....	.....	.....	.....	.....	82

[4] Includes siphons and farm pipe lines reported.
[5] Total capacity of all reservoirs regardless of size.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.— ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text.. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued							
		Snake River—Continued							
		Lower Snake River—Continued							
			Boise River					Owyhee River	
		Bruneau River (16)	Total	Direct (17)	North Fork Boise River (18)	South Fork Boise River (19)	Moore Creek (20)	Total	Direct (21)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	84	374	284	7	62	21	80	11
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	153	950	1,228	35	87	44	157	95
3	Diversion dams....1940..total number	154	206	127	4	48	27	174	17
4	1930..total number	62	78	.....	.....	.....	.....	51	.....
5	1920..total number	110	70	.....	.....	.....	.....	71	.....
6	(a) Concrete and masonry....1940..number	4	29	27	.....	2	.....	1	.....
7	(b) Timber....1940..number	10	24	16	.....	8	.....	5	.....
8	(c) Earth and rock....1940..number	89	110	49	4	30	27	158	17
9	(d) Other, mixed, and not reported..1940..number	51	43	35	.....	8	.....	10	.....
10	Main canals and laterals....1940..total length, miles	118.0	1,941.2	1,839.1	1.0	78.0	23.1	133.0	18.0
11	1930..total length, miles	155	1,926	.....	.....	.....	.....	69	.....
12	1920..total length, miles	228	992	.....	.....	.....	.....	97	.....
13	(a) Earth....1940..length, miles	118	1,917	1,815	1	78	23	133	18
14	(b) Lined....1940..length, miles	.....	24.2	24.1	.....	.....	0.1	.....	.....
15	1940..capacity, c.f.s.[1]	435	7,507	7,328	7	131	41	344	47
16	1930..capacity, c.f.s.[1]	569	13,576	.....	.....	.....	.....	335	.....
17	1920..capacity, c.f.s.[1]	771	6,669	.....	.....	.....	.....	428	.....
18	Pipe lines[2]....1940..total length, miles	.....	37.8	37.1	0.2	0.4	0.1	.....	.....
19	1930..total length, miles	.....	47.9	.....	.....	.....	.....	.....	.....
20	1920..total length, miles	0.2	30.5	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	28.8	28.6	0.2	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	2.2	1.7	.....	0.4	0.1	.....	.....
23	(c) Wood-stave....1940..length, miles	.....	6.8	6.8	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	4	14	12	1	1	.....	19	3
26	1930..total number	2	7	.....	.....	.....	.....	9	.....
27	1920..total number	17	14	.....	.....	.....	.....	7	.....
28	(a) Concrete and masonry....1940..number	.....	2	1	1	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	2	11	10	.....	1	.....	13	1
30	(c) Other, mixed, and not reported..1940..number	2	1	1	.....	.....	.....	6	2
31	Reservoirs....1940..total number	4	27	25	1	1	.....	22	4
32	(a) 1-99 acre-feet capacity....1940..number	2	23	21	1	1	.....	2	.....
33	(b) 100-999 acre-feet capacity....1940..number	2	.....	.....	.....	.....	.....	17	3
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	4	4	.....	.....	.....	3	1
35	1940..total capacity, ac.-ft.[3]	575	475,771	475,769	(4)	(4)	.....	17,759	2,400
36	1930..total number	3	6	.....	.....	.....	.....	9	.....
37	1930..total capacity, ac.-ft.	5,075	466,395	.....	.....	.....	.....	4,698	.....
38	Wells, flowing....1940..number	66	97	97	.....	.....	.....	.....	.....
39	1930..number	24	6	.....	.....	.....	.....	1	.....
40	1920..number	38	8	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	7,440	10,815	10,815	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	7,378	613	.....	.....	.....	.....	10	.....
43	1920..yield, g.p.m.	1,628	75	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	104	104	.....	.....	.....	.....	.....
45	1930..number	.....	8	.....	.....	.....	.....	.....	.....
46	1920..number	1	2	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	52,715	52,715	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.	.....	7,050	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	27	900	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	1	164	163	.....	1	.....	.....	.....
51	1930..total number	2	30	.....	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp	(4)	1,648	1,646	.....	(4)	.....	.....	.....
53	1930..capacity, hp	451	387	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp	457	324	.....	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	.....	123	123	.....	.....	.....	.....	.....
56	1940..capacity, hp	.....	1,361	1,361	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	1	38	37	.....	1	.....	.....	.....
58	1940..capacity, hp	(4)	282	280	.....	(4)	.....	.....	.....
59	(c) Other....1940..number	.....	3	3	.....	.....	.....	.....	.....
60	1940..capacity, hp	.....	5	5	.....	.....	.....	.....	.....
61	Pumps....1940..total number	1	165	164	.....	1	.....	.....	.....
62	1930..number	3	31	.....	.....	.....	.....	.....	.....
63	1920..number	7	10	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.	(4)	107,679	107,629	.....	(4)	.....	.....	.....
65	1930..capacity, g.p.m.	32,130	21,270	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	27,465	9,650	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	.....	93	92	.....	1	.....	.....	.....
68	1940..capacity, g.p.m.	.....	42,118	42,068	.....	(4)	.....	.....	.....
69	1940..average capacity, g.p.m.	.....	453	457	.....	(4)	.....	.....	.....
70	(b) Turbine....1940..number	.....	40	40	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	41,011	41,011	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	1,025	1,025	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	1	1	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	.....	(4)	(4)	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	.....	(4)	(4)	.....	.....	.....	.....	.....
76	(d) Other....1940..number	1	31	31	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	(4)	24,542	24,542	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	(4)	21	21	.....	(4)	.....	.....	.....
79	1930..average, feet	30	17	.....	.....	.....	.....	.....	.....
80	1920..average, feet	24	30	.....	.....	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	25	25	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	(4)	15	15	.....	(4)	.....	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

COLUMBIA RIVER—Continued													
Snake River—Continued													
Lower Snake River—Continued													
Owyhee River—Continued				Payette River				Weiser River	Salmon River				
South Fork Owyhee River			Jordan Creek							Upper Salmon River			
Total	Direct (22)	East Fork Owyhee River (23)	(24)	Total	Direct (25)	North Fork Payette River (26)	South Fork Payette River (27)	(28)	Total	Total	Direct (29)	Pahsimeroi River (30)	Lemhi River (31)	
23	4	19	46	353	144	178	31	104	802	510	189	51	270	1
274	42	322	114	423	672	279	96	320	162	200	191	257	195	2
40	5	35	117	233	104	73	56	79	814	540	230	55	255	3
.....	.....	.....	.....	153	.....	.....	.....	135	548	.....	.....	.....	.....	4
.....	.....	.....	.....	51	.....	.....	.....	30	363	.....	.....	.....	.....	5
.....	.....	.....	1	24	13	10	1	13	12	7	3	2	2	6
.....	.....	.....	5	14	9	4	1	9	96	64	28	1	35	7
40	5	35	101	178	67	57	54	38	570	400	197	48	155	8
.....	.....	.....	10	17	15	2	.....	19	136	69	2	4	63	9
55.0	7.0	48.0	60.0	747.4	551.0	156.4	40.0	267.0	1,428.8	1,073.8	405.4	95.0	573.4	10
.....	.....	.....	.....	692	.....	.....	.....	338	1,350	.....	.....	.....	.....	11
.....	.....	.....	.....	785	.....	.....	.....	478	1,693	.....	.....	.....	.....	12
55	7	48	60	739	544	155	40	259	1,408	1,063	400	95	568	13
.....	.....	.....	.....	8.4	7.0	1.4	.....	8.0	20.8	10.8	5.4	.....	5.4	14
94	12	82	203	3,591	2,474	1,032	85	1,622	4,247	3,455	1,333	312	1,810	15
.....	.....	.....	.....	4,757	.....	.....	.....	873	3,594	.....	.....	.....	.....	16
.....	.....	.....	.....	4,450	.....	.....	.....	1,822	4,747	.....	.....	.....	.....	17
.....	.....	.....	.....	43.9	42.8	0.9	0.2	6.1	3.2	1.5	0.8	.....	0.7	18
.....	.....	.....	.....	14.5	.....	.....	.....	7.0	6.1	.....	.....	.....	.....	19
.....	.....	.....	.....	5.2	.....	.....	.....	15.1	1.9	.....	.....	.....	.....	20
.....	.....	.....	.....	19.9	19.9	.....	.....	.....	0.1	0.1	0.1	.....	.....	21
.....	.....	.....	.....	4.3	3.3	0.8	0.2	0.1	1.7	1.2	0.6	.....	0.6	22
.....	.....	.....	.....	17.2	17.1	0.1	.....	4.0	1.2	.....	.....	.....	.....	23
.....	.....	.....	.....	2.5	2.5	.....	.....	2.0	0.2	0.2	0.1	.....	0.1	24
12	1	11	4	41	14	26	1	9	13	5	3	.....	2	25
.....	.....	.....	.....	20	.....	.....	.....	7	9	.....	.....	.....	.....	26
.....	.....	.....	.....	12	.....	.....	.....	9	12	.....	.....	.....	.....	27
.....	.....	.....	.....	9	2	6	1	2	2	1	.....	.....	1	28
8	1	7	4	29	12	17	.....	4	7	4	3	.....	1	29
4	.....	4	.....	3	.....	3	.....	3	4	.....	.....	.....	.....	30
14	1	13	4	38	16	20	2	9	13	5	3	.....	2	31
.....	.....	.....	2	22	13	8	1	2	11	5	3	.....	2	32
12	1	11	2	7	1	6	.....	3	.....	.....	.....	.....	.....	33
2	.....	2	.....	9	2	6	1	4	2	.....	.....	.....	.....	34
14,821	(4)	14,621	538	296,991	34,658	100,426	(4)	91,375	7,324	108	31	.....	(4)	35
.....	.....	.....	.....	24	.....	.....	.....	8	10	.....	.....	.....	.....	36
.....	.....	.....	.....	101,125	.....	.....	.....	73,100	4,304	.....	.....	.....	.....	37
.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	(4)	.....	(4)	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	16	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	14	14	.....	.....	1	1	1	1	.....	.....	44
.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	2,010	2,010	.....	.....	(4)	(4)	(4)	(4)	.....	.....	47
.....	.....	.....	.....	645	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	9,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
.....	.....	.....	.....	51	49	2	.....	3	6	3	3	.....	.....	50
.....	.....	.....	.....	96	.....	.....	.....	3	7	.....	.....	.....	.....	51
.....	.....	.....	.....	2,409	2,401	(4)	.....	302	90	21	21	.....	.....	52
.....	.....	.....	.....	1,975	.....	.....	.....	264	38	.....	.....	.....	.....	53
.....	.....	.....	.....	608	.....	.....	.....	620	38	.....	.....	.....	.....	54
.....	.....	.....	.....	30	30	.....	.....	3	3	2	2	.....	.....	55
.....	.....	.....	.....	512	512	.....	.....	302	21	(4)	(4)	.....	.....	56
.....	.....	.....	.....	16	14	2	.....	.....	3	1	1	.....	.....	57
.....	.....	.....	.....	92	84	(4)	.....	.....	69	(4)	(4)	.....	.....	58
.....	.....	.....	.....	5	5	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	1,805	1,805	.....	.....	.....	.....	.....	.....	.....	.....	60
.....	.....	.....	.....	53	51	2	.....	3	7	4	4	.....	.....	61
.....	.....	.....	.....	101	.....	.....	.....	4	7	.....	.....	.....	.....	62
.....	.....	.....	.....	13	.....	.....	.....	5	2	.....	.....	.....	.....	63
.....	.....	.....	.....	177,946	177,521	(4)	.....	12,780	4,060	3,410	3,410	.....	.....	64
.....	.....	.....	.....	179,191	.....	.....	.....	14,000	1,965	.....	.....	.....	.....	65
.....	.....	.....	.....	18,256	.....	.....	.....	31,100	10,875	.....	.....	.....	.....	66
.....	.....	.....	.....	32	30	2	.....	3	6	3	3	.....	.....	67
.....	.....	.....	.....	10,538	10,113	(4)	.....	12,780	3,160	2,510	2,510	.....	.....	68
.....	.....	.....	.....	329	337	(4)	.....	4,260	527	837	837	.....	.....	69
.....	.....	.....	.....	6	6	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	.....	.....	.....	23,950	23,950	.....	.....	.....	.....	.....	.....	.....	.....	71
.....	.....	.....	.....	3,992	3,992	.....	.....	.....	.....	.....	.....	.....	.....	72
.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	14	14	.....	.....	.....	1	1	1	.....	.....	76
.....	.....	.....	.....	143,438	143,438	.....	.....	.....	(4)	(4)	(4)	.....	.....	77
.....	.....	.....	.....	30	31	(4)	.....	52	13	14	14	.....	.....	78
.....	.....	.....	.....	32	.....	.....	.....	35	20	.....	.....	.....	.....	79
.....	.....	.....	.....	28	.....	.....	.....	76	56	.....	.....	.....	.....	80
.....	.....	.....	.....	45	45	.....	.....	(4)	(4)	(4)	(4)	.....	.....	81
.....	.....	.....	.....	23	24	(4)	.....	79	14	15	15	.....	.....	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued; Snake River—Continued; Lower Snake River—Continued; Salmon River—Continued; Lower Salmon River						
		Total	Direct (32)	North Fork Salmon River (33)	Panther Creek (34)	Middle Fork Salmon River (35)	South Fork Salmon River (36)	Little Salmon River (37)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	292	141	23	16	13	7	92
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	97	80	45	63	42	84	151
3	Diversion dams....1940..total number	274	134	32	27	22	9	50
4	1930..total number	.....	.....	.....	.....	.....	.....	.....
5	1920..total number	.....	.....	.....	.....	.....	.....	.....
6	(a) Concrete and masonry....1940..number	5	.....	.....	.....	.....	.....	5
7	(b) Timber....1940..number	32	15	2	.....	2	3	10
8	(c) Earth and rock....1940..number	170	108	8	26	20	3	5
9	(d) Other, mixed, and not reported..1940..number	67	11	22	1	.....	3	30
10	Main canals and laterals....1940..total length, miles	355.0	156.3	31.3	18.0	12.0	9.2	128.2
11	1930..total length, miles	.....	.....	.....	.....	.....	.....	.....
12	1920..total length, miles	.....	.....	.....	.....	.....	.....	.....
13	(a) Earth....1940..length, miles	345	150	29	18	12	9	127
14	(b) Lined....1940..length, miles	10.0	6.3	2.3	.....	.....	0.2	1.2
15	1940..capacity, c.f.s.[1]	792	327	37	91	71	19	247
16	1930..capacity, c.f.s.[1]	.....	.....	.....	.....	.....	.....	.....
17	1920..capacity, c.f.s.[1]	.....	.....	.....	.....	.....	.....	.....
18	Pipe lines[2]....1940..total length, miles	1.7	1.3	.....	0.2	.....	.....	0.2
19	1930..total length, miles	.....	.....	.....	.....	.....	.....	.....
20	1920..total length, miles	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	0.5	0.3	.....	.....	.....	.....	0.2
23	(c) Wood-stave....1940..length, miles	1.2	1.0	.....	0.2	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	8	3	.....	.....	.....	.....	5
26	1930..total number	.....	.....	.....	.....	.....	.....	.....
27	1920..total number	.....	.....	.....	.....	.....	.....	.....
28	(a) Concrete and masonry....1940..number	1	.....	.....	.....	.....	.....	1
29	(b) Earth and rock....1940..number	3	1	.....	.....	.....	.....	2
30	(c) Other, mixed, and not reported..1940..number	4	2	.....	.....	.....	.....	2
31	Reservoirs....1940..total number	8	4	.....	.....	.....	.....	4
32	(a) 1-99 acre-feet capacity....1940..number	6	3	.....	.....	.....	.....	3
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	2	1	.....	.....	.....	.....	1
35	1940..total capacity, ac.-ft.[3]	7,216	3,212	.....	.....	.....	.....	4,004
36	1930..total number	.....	.....	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	.....	.....	.....	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	.....	.....	.....	.....	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	3	2	.....	.....	1	.....	.....
51	1930..total number	.....	.....	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp	69	(4)	.....	.....	(4)	.....	.....
53	1930..capacity, hp	.....	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	1	.....	.....	.....	1	.....	.....
56	1940..capacity, hp	(4)	.....	.....	.....	(4)	.....	.....
57	(b) Internal-combustion....1940..number	2	2	.....	.....	.....	.....	.....
58	1940..capacity, hp	(4)	(4)	.....	.....	.....	.....	.....
59	(c) Other....1940..number	.....	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp	.....	.....	.....	.....	.....	.....	.....
61	Pumps....1940..total number	3	2	.....	.....	1	.....	.....
62	1930..number	.....	.....	.....	.....	.....	.....	.....
63	1920..number	.....	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.	650	(4)	.....	.....	(4)	.....	.....
65	1930..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	3	2	.....	.....	1	.....	.....
68	1940..capacity, g.p.m.	650	(4)	.....	.....	(4)	.....	.....
69	1940..average capacity, g.p.m.	217	(4)	.....	.....	(4)	.....	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	12	(4)	.....	.....	(4)	.....	.....
79	1930..average, feet	.....	.....	.....	.....	.....	.....	.....
80	1920..average, feet	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	12	(4)	.....	.....	(4)	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

COLUMBIA RIVER—Continued											GREAT SALT LAKE				
Snake River—Continued				Spokane River			Clark Fork				Bear River				
Lower Snake River—Continued															
Clearwater River															
Total	Direct (38)	Selway River (40)	South Fork Clearwater River (41)	Total	Direct (45)	Coeur d'Alene River (46)	Total	Direct (50)	Priest River (51)	Kootenai River (52)	Total	Direct (54)	Thomas Creek (55)	Malad River (57)	
63	55	3	5	36	22	14	35	30	5	8	343	235	6	102	1
73	81	21	27	215	343	13	38	41	24	91	516	669	712	159	2
30	24	3	3	29	19	10	37	26	11	4	286	231	5	50	3
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	231	49	14	22	4
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	498	63	25	190	5
2	2	.....	.....	10	10	.....	1	1	.....	.....	56	40	2	14	6
9	6	3	.....	2	2	.....	5	3	2	.....	31	29	.....	2	7
10	10	.....	.....	16	6	10	22	13	9	4	152	119	2	31	8
9	6	.....	3	1	1	.....	9	9	.....	.....	47	43	1	3	9
26.6	21.6	2.0	3.0	39.9	36.7	3.2	5.1	3.1	2.0	4.2	1,038.9	902.9	20.0	116.0	10
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	906	333	31	95	11
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,076	484	63	837	12
23	18	2	3	31	28	3	5	3	2	4	1,030	894	20	116	13
3.6	3.6	.....	.....	8.9	8.7	0.2	0.1	0.1	.....	0.2	8.9	8.9	.....	.....	14
110	97	4	9	540	526	14	55	46	9	48	3,646	3,340	85	221	15
194	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,316	1,848	54	152	16
69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,030	2,121	203	400	17
56.7	56.7	.....	.....	69.1	66.5	2.6	2.0	1.8	0.2	1.2	11.6	9.4	.....	2.2	18
50.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.7	1.2	.....	.....	19
35.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.6	4.5	.....	.....	20
1.8	1.8	.....	.....	31.5	31.5	.....	0.1	0.1	.....	.....	1.9	1.9	.....	.....	21
12.8	12.8	.....	.....	7.5	5.3	2.2	1.1	1.1	.....	0.9	5.1	3.7	.....	1.4	22
41.9	41.9	.....	.....	14.1	13.7	0.4	0.6	0.4	0.2	0.3	4.3	3.5	.....	0.8	23
0.2	0.2	.....	.....	16.0	16.0	.....	0.2	0.2	.....	.....	0.3	0.3	.....	.....	24
2	2	.....	.....	3	3	.....	2	2	.....	.....	40	31	2	7	25
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	3	.....	5	26
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80	6	.....	58	27
.....	.....	.....	.....	3	3	.....	1	1	.....	.....	5	3	.....	2	28
2	2	.....	.....	.....	.....	.....	1	1	.....	.....	33	27	2	4	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	.....	1	30
6	6	.....	.....	4	3	1	4	3	1	.....	42	30	1	11	31
4	4	.....	.....	2	1	1	4	3	1	.....	22	15	.....	7	32
.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....	17	12	1	4	33
2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3	.....	.....	34
5,004	5,004	.....	.....	902	901	(4)	4	3	(4)	.....	27,143	25,268	(4)	1,775	35
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	1	3	36
9,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28,751	.....	40	410	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	94	.....	.....	94	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	.....	.....	21	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57	.....	.....	57	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,035	.....	.....	5,035	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	750	.....	.....	750	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,468	.....	.....	7,468	43
20	20	.....	.....	2	2	.....	.....	.....	.....	.....	14	7	.....	7	44
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	5	45
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
1,965	1,965	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	6,828	2,610	.....	4,218	47
2,229	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	600	.....	.....	600	48
2,750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
31	31	.....	.....	13	12	1	1	1	.....	1	29	23	.....	6	50
33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	1	.....	1	51
681	681	.....	.....	1,316	1,315	(4)	(4)	(4)	.....	(4)	2,689	2,523	.....	166	52
791	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,341	1	.....	6	53
394	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	573	530	.....	.....	54
28	28	.....	.....	10	9	1	.....	.....	.....	.....	26	21	.....	5	55
606	606	.....	.....	1,276	1,275	(4)	.....	.....	.....	.....	2,678	2,513	.....	165	56
3	3	.....	.....	2	2	.....	1	1	.....	1	3	2	.....	1	57
75	75	.....	.....	(4)	(4)	.....	(4)	(4)	.....	(4)	11	(4)	.....	(4)	58
.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
30	30	.....	.....	13	12	1	1	1	.....	2	29	23	.....	6	61
34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	1	.....	1	62
36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	3	.....	.....	63
4,475	4,475	.....	.....	45,567	45,517	(4)	(4)	(4)	.....	(4)	110,238	105,960	.....	4,278	64
15,024	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	117,500	50	.....	600	65
9,945	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14,915	5,180	.....	.....	66
28	28	.....	.....	11	10	1	.....	.....	.....	1	22	19	.....	3	67
4,305	4,305	.....	.....	45,526	45,476	(4)	.....	.....	.....	(4)	85,530	82,430	.....	3,100	68
154	154	.....	.....	4,139	4,548	(4)	.....	.....	.....	(4)	3,888	4,338	.....	1,033	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	2	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,160	(4)	.....	(4)	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	720	(4)	.....	(4)	72
1	1	.....	.....	2	2	.....	.....	.....	.....	.....	1	.....	.....	1	73
(4)	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	(4)	.....	.....	(4)	74
(4)	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	(4)	.....	.....	(4)	75
1	1	.....	.....	.....	.....	.....	1	1	.....	1	3	3	.....	.....	76
(4)	(4)	.....	.....	.....	.....	.....	(4)	(4)	.....	(4)	22,530	22,530	.....	.....	77
30	30	.....	.....	76	81	(4)	(4)	(4)	.....	(4)	40	33	.....	56	78
34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	12	.....	12	79
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	9	.....	.....	80
27	27	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	41	22	.....	66	81
37	37	.....	.....	52	54	(4)	(4)	(4)	.....	(4)	38	42	.....	6	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		INDEPENDENT BASINS								
			Mud Lake								
				Camas Creek[1]							
		Total	Direct (58)	Total	Direct (59)	Beaver Creek (60)	Medicine Lodge Creek (61)	Birch Creek (62)	Little Lost River (63)	Big Lost River (64)	Deep Creek (65)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1										
1	Enterprises	1940..number	73	35	38	32	6	30	19	8	33	14
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	556	898	240	246	213	144	213	1,965	1,173	225
3	Diversion dams	1940..total number	41	.....	41	34	7	52	20	14	44	2
4		1930..total number	46	.....	.....	.....	9	35	.....	27	110	.....
5		1920..total number	108	.....	.....	.....	27	62	.....	33	98	.....
6	(a) Concrete and masonry	1940..number	1	.....	1	1	.....	.....	7	13	10	1
7	(b) Timber	1940..number	6	.....	6	5	1	11	1	.....	3	.....
8	(c) Earth and rock	1940..number	24	.....	24	20	4	26	11	1	23	.....
9	(d) Other, mixed, and not reported	1940..number	10	.....	10	8	2	15	1	.....	8	1
10	Main canals and laterals	1940..total length, miles	91.1	42.1	49.0	37.0	12.0	45.0	41.0	58.1	243.0	40.0
11		1930..total length, miles	165	.....	.....	.....	24	10	.....	48	347	.....
12		1920..total length, miles	304	.....	.....	.....	27	105	.....	108	610	.....
13	(a) Earth	1940..length, miles	91	42	49	37	12	45	41	58	243	40
14	(b) Lined	1940..length, miles	0.1	0.1	.....	.....	.....	.....	.....	0.1	.....	.....
15		1940..capacity, c.f.s.[2]	510	320	190	161	29	115	113	316	1,367	101
16		1930..capacity, c.f.s.[2]	3,003	.....	.....	.....	33	44	.....	145	2,462	.....
17		1920..capacity, c.f.s.[2]	3,114	.....	.....	.....	72	266	.....	774	2,237	.....
18	Pipe lines[3]	1940..total length, miles	0.1	0.1	.....	.....	.....	.....	.....	.....	2.5	.....
19		1930..total length, miles	.....	.....	.....	.....	.....	.....	.....	.....	1.6	.....
20		1920..total length, miles	.....	.....	.....	.....	.....	0.4	.....	1.9	0.1	.....
21	(a) Concrete	1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	0.1	0.1	.....	.....	.....	.....	.....	.....	2.5	.....
23	(c) Wood-stave	1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other	1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	1	1	.....	.....	.....	.....	.....	.....	2	5
26		1930..total number	3	.....	.....	.....	1	.....	.....	.....	5	.....
27		1920..total number	7	.....	.....	.....	1	1	.....	2	7	.....
28	(a) Concrete and masonry	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
29	(b) Earth and rock	1940..number	1	1	.....	.....	.....	.....	.....	.....	1	5
30	(c) Other, mixed, and not reported	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs	1940..total number	1	1	.....	.....	.....	.....	.....	.....	2	6
32	(a) 1-99 acre-feet capacity	1940..number	1	1	.....	.....	.....	.....	.....	.....	1	6
33	(b) 100-999 acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
35		1940..total capacity, ac.-ft.[4]	(5)	(5)	.....	.....	.....	.....	.....	.....	(5)	50
36		1930..total number	1	.....	.....	.....	.....	.....	.....	.....	4	.....
37		1930..total capacity, ac.-ft.	6,400	.....	.....	.....	.....	.....	.....	.....	49,013	.....
38	Wells, flowing	1940..number	29	29	.....	.....	.....	.....	.....	.....	.....	1
39		1930..number	15	.....	.....	.....	.....	.....	.....	.....	.....	.....
40		1920..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	6,600	6,600	.....	.....	.....	.....	.....	.....	.....	(6)
42		1930..yield, g.p.m.	5,400	.....	.....	.....	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	54	54	.....	.....	.....	.....	.....	.....	.....	3
45		1930..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46		1920..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	98,190	98,190	.....	.....	.....	.....	.....	.....	.....	140
48		1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	51	51	.....	.....	.....	.....	.....	.....	.....	3
51		1930..total number	8	.....	.....	.....	.....	.....	.....	.....	2	.....
52	Prime movers	1940..capacity, hp.	1,843	1,843	.....	.....	.....	.....	.....	.....	.....	7
53		1930..capacity, hp.	1,160	.....	.....	.....	.....	.....	.....	.....	8	.....
54		1920..capacity, hp.	326	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric	1940..number	45	45	.....	.....	.....	.....	.....	.....	.....	.....
56		1940..capacity, hp.	1,746	1,746	.....	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion	1940..number	6	6	.....	.....	.....	.....	.....	.....	.....	1
58		1940..capacity, hp.	97	97	.....	.....	.....	.....	.....	.....	.....	(5)
59	(c) Other	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
60		1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)
61	Pumps	1940..total number	51	51	.....	.....	.....	.....	.....	.....	.....	3
62		1930..number	12	.....	.....	.....	.....	.....	.....	.....	2	.....
63		1920..number	9	.....	.....	.....	.....	.....	.....	.....	.....	.....
64		1940..capacity, g.p.m.	270,704	270,704	.....	.....	.....	.....	.....	.....	.....	140
65		1930..capacity, g.p.m.	165,550	.....	.....	.....	.....	.....	.....	.....	100	.....
66		1920..capacity, g.p.m.	96,250	.....	.....	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal	1940..number	38	38	.....	.....	.....	.....	.....	.....	.....	1
68		1940..capacity, g.p.m.	228,554	228,554	.....	.....	.....	.....	.....	.....	.....	(5)
69		1940..average capacity, g.p.m.	6,015	6,015	.....	.....	.....	.....	.....	.....	.....	(5)
70	(b) Turbine	1940..number	13	13	.....	.....	.....	.....	.....	.....	.....	.....
71		1940..capacity, g.p.m.	42,150	42,150	.....	.....	.....	.....	.....	.....	.....	.....
72		1940..average capacity, g.p.m.	3,242	3,242	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
74		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)
75		1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)
76	(d) Other	1940..number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
77		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	17	17	.....	.....	.....	.....	.....	.....	.....	117
79		1930..average, feet	13	.....	.....	.....	.....	.....	.....	.....	15	.....
80		1920..average, feet	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells	1940..average, feet	20	20	.....	.....	.....	.....	.....	.....	.....	117
82	from surface sources	1940..average, feet	11	11	.....	.....	.....	.....	.....	.....	.....	.....

[1] In the 1930 and 1920 reports, Camas Creek apparently included the area now designated as Mud Lake Direct (58) (number refers to separate map); therefore, no 1930 or 1920 figures for these basins can be shown separately. [2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [3] Includes siphons and farm pipe lines reported. [4] Total capacity of all reservoirs regardless of size. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Ada	Adams	Bannock
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*				
1	All farms.....1940...number.....	43,663	2,689	410	1,723
2	1930...number.....	41,674	2,305	462	1,748
3	Irrigated farms.....1940...number.....	29,898	2,512	289	1,334
4	1930...number.....	27,953	2,096	270	1,212
5	Increase or decrease (-), 1930-1940.....percent....	7.0	19.8	7.0	10.1
6	Operated by—(a) Owners and managers.....1940...number.....	21,773	1,781	245	1,093
7	1930...number.....	20,486	1,386	238	1,030
8	(b) Tenants.....1940...number.....	8,125	731	44	241
9	1930...number.....	7,467	710	32	182
10	Land in all farms.....1940...acres.....	10,297,745	259,072	218,079	472,115
11	Land in irrigated farms.....1940...acres.....	5,680,584	190,895	184,377	340,936
12	Average per farm.....1940...acres.....	190	76	638	256
13	(a) Operated by owners and managers.....1940...acres.....	4,721,461	140,586	173,275	300,809
14	Average per farm.....1940...acres.....	217	79	707	275
15	(b) Operated by tenants.....1940...acres.....	959,123	50,309	11,102	40,127
16	Average per farm.....1940...acres.....	118	69	252	167
17	Approximate land area.....1940...acres.....	[1]52,997,120	729,600	881,280	1,164,800
	IRRIGATED AND IRRIGABLE AREAS				
18	Area irrigated.....1939...acres.....	2,277,857	132,416	23,200	81,344
19	(a) Cropland harvested.....1939...acres.....	2,026,435	105,389	13,587	69,325
20	(b) Crop failure.....1939...acres.....	12,448	1,658	6	1,001
21	(c) Pasture.....1939...acres.....	238,974	25,369	9,607	11,018
22	Area irrigated.....1929...acres.....	2,181,250	122,640	20,536	97,726
23	1919...acres.....	2,488,806	121,483	30,900	137,266
24	Increase or decrease (-), 1929-1939.....percent....	4.4	8.0	13.0	-16.8
25	Irrigable area in enterprises.....1940...acres.....	2,870,023	152,159	24,532	105,350
26	1930...acres.....	2,814,048	143,760	25,280	126,840
27	1920[2]...acres.....	3,780,048	136,790	42,786	227,586
28	Excess of irrigable area over the area irrigated..1940...acres.....	592,166	19,743	1,332	24,006
29	1930...acres.....	632,798	21,120	4,744	29,114
30	Area works were capable of supplying with water...1940...acres.....	2,593,534	148,247	23,721	98,167
31	1930...acres.....	2,617,021	128,457	24,647	124,832
32	1920...acres.....	3,092,810	133,768	32,676	185,316
33	Increase or decrease (-), 1930-1940.....percent....	-0.9	15.4	-3.8	-21.4
34	Excess, capability of works over area irrigated...1940...acres.....	315,677	15,831	521	16,823
35	1930...acres.....	435,771	5,817	4,111	27,106
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	40.1	69.4	12.6	23.9
37	1929...percent....	45.0	83.6	13.2	28.9
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	87.8	89.3	97.8	82.9
39	1929...percent....	83.3	95.5	83.3	78.3
	CAPITAL INVESTED TO JANUARY 1				
40	Total investment in all enterprises.....1940...dollars....	102,585,798	6,314,776	304,261	2,040,927
41	(a) Cost of irrigation works and equipment.....1940...dollars....	100,989,161	6,191,022	294,711	1,962,460
42	(b) Investment in water rights (reported).....1940...dollars....	1,596,637	123,754	9,550	78,467
43	Total investment in all enterprises.....1930...dollars.....	84,500,354	4,655,786	105,433	1,660,749
44	1920...dollars....	91,501,009	5,669,338	394,060	3,106,000
45	Increase or decrease (-), 1930-1940.....percent....	21.4	35.6	188.6	22.9
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	39.55	42.60	12.83	20.79
47	1930...dollars....	32.29	36.24	4.28	13.30
48	1920...dollars....	29.59	42.38	12.06	16.76
49	Average investment per acre irrigated.....1939...dollars....	45.04	47.69	13.11	25.09
50	Estimated final investment in existing enterprises..1940...dollars....	109,513,311	6,356,457	304,861	2,262,242
51	1930...dollars....	101,350,250	7,069,586	106,033	1,665,249
52	1920...dollars....	97,019,717	5,669,338	395,910	3,573,940
53	Increase or decrease (-), 1930-1940.....percent....	8.1	-10.1	187.5	35.9
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	38.16	41.78	12.43	21.47
55	1930...dollars....	36.02	49.18	4.19	13.13
56	1920[2]...dollars....	25.67	41.45	9.25	15.70
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises
57	Enterprises reporting maintenance and operation...1939...number.....	3,037 / 165	102 / 60	99 / 7	172 / 11
58	Area irrigated in these enterprises.....1939...acres.....	2,219,486 / 889,254	131,119 / 20,155	22,842 / 12,949	79,333 / 737
59	Cost of maintenance and operation.....1939...dollars....	2,256,798 / 202,690	154,469 / 24,302	7,582 / 2,025	52,575 / 377
60	Average cost, per acre irrigated.....1939...dollars....	1.02 / 0.23	1.18 / 1.21	0.33 / 0.16	0.66 / 0.51
61	1929...dollars....	1.44 /	1.58 /	0.36 /	0.78 / .....
62	Total annual charges (reported)[3] [4].....1939...dollars....	2,461,470 / 184,534	146,407 / 22,867	6,580 / 5,029	48,596 / .....
63	Average annual charge per acre irrigated.....1939...dollars....	1.25 / 0.21	1.14 / 1.20	0.49 / 0.40	0.68 / .....
64	Area against which charges were assessed.....1939...acres.....	2,141,909 / 885,270	137,968 / 19,099	13,341 / 12,924	79,744 / .....
65	Average annual charge per acre assessed.....1939...dollars....	1.15 / 0.21	1.06 / 1.20	0.49 / 0.39	0.61 / .....
66	Total charges collected[3].....1939...dollars....	2,635,522 / 67,069	238,991 / 945	6,830 / 3,828	28,937 / .....
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	23,488,279 / 2,929,859	3,612,590 / 4,655	29,500 / 27,440	878,871 / .....
	WATER DELIVERED TO IRRIGATORS				
68	Enterprises reporting water delivered.....1939...number.....	2,892 / 147	87 / 44	81 / 7	173 / 10
69	Area irrigated in these enterprises.....1939...acres.....	2,034,989 / 896,000	120,432 / 20,329	21,344 / 12,139	74,648 / 611
70	Water delivered in these enterprises.....1939...acre-feet..	8,356,961 / 1,042,271	475,904 / 20,992	41,592 / 20,387	173,685 / 1,299
71	Average water delivered per acre irrigated.....1939...acre-feet..	4.1 / 1.2	4.0 / 1.0	1.9 / 1.7	2.3 / 2.1
72	Average cost of water per acre irrigated.....1939...dollars....	1.16 / 0.21	1.03 / 1.21	0.37 / 0.42	0.66 / 0.58
	DRAINAGE OF IRRIGATED LAND				
73	Enterprises reporting land drained or needing drainage.....1939...number.....	200 /	26 /	..... /	4 / .....
74	Irrigable area in these enterprises.....1939...acres.....	943,910 /	133,341 /	..... /	2,900 / .....
75	Irrigated area in these enterprises.....1939...acres.....	731,717 /	115,746 /	..... /	2,760 / .....
76	Area for which drains have been installed.....1939...acres.....	238,907 /	58,630 /	..... /	15 / .....
77	Additional area needing drainage.....1939...acres.....	29,042 /	2,050 /	..... /	514 / .....

*Census of Agriculture. [1]Includes 37,120 acres in Yellowstone National Park (part of) not shown in detail. [2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Bear Lake		Bingham		Blaine		Boise
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	711		2,217		318		195
2	1930...number....	915		2,311		382		214
3	Irrigated farms....1940...number....	577		2,146		275		123
4	1930...number....	729		2,197		309		134
5	Increase or decrease (-), 1930-1940....percent....	-20.9		-2.3		-11.0		-8.2
	Operated by—							
6	(a) Owners and managers....1940...number....	513		1,515		196		101
7	1930...number....	662		1,565		201		118
8	(b) Tenants....1940...number....	64		631		79		22
9	1930...number....	67		632		108		16
10	Land in all farms....1940...acres....	259,934		426,278		137,346		71,261
11	Land in irrigated farms....1940...acres....	218,897		284,353		119,475		48,193
12	Average per farm....1940...acres....	379		133		434		392
13	(a) Operated by owners and managers....1940...acres....	206,272		220,188		95,722		40,605
14	Average per farm....1940...acres....	402		145		488		402
15	(b) Operated by tenants....1940...acres....	12,625		64,165		23,753		7,588
16	Average per farm....1940...acres....	197		102		301		345
17	Approximate land area....1940...acres....	632,320		1,326,080		1,695,360		1,224,320
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	54,143		175,186		26,788		5,763
19	(a) Cropland harvested....1939...acres....	45,385		160,276		23,591		5,499
20	(b) Crop failure....1939...acres....	475		63		580		14
21	(c) Pasture....1939...acres....	8,283		14,847		2,617		250
22	Area irrigated....1929...acres....	54,625		163,914		33,731		6,636
23	1919...acres....	67,202		177,296		52,090		7,508
24	Increase or decrease (-), 1929-1939....percent....	-0.9		6.9		-20.6		-13.2
25	Irrigable area in enterprises....1940...acres....	59,848		223,262		32,057		6,287
26	1930...acres....	57,991		222,570		45,712		9,476
27	1920[1]...acres....	83,890		232,923		97,801		14,239
28	Excess of irrigable area over the area irrigated..1940...acres....	5,705		48,076		5,269		524
29	1930...acres....	3,366		58,656		11,981		2,840
30	Area works were capable of supplying with water...1940...acres....	56,843		221,316		31,900		6,243
31	1930...acres....	55,930		209,120		38,449		9,201
32	1920...acres....	72,893		217,200		77,391		8,569
33	Increase or decrease (-), 1930-1940....percent....	1.6		5.8		-17.0		-32.1
34	Excess, capability of works over area irrigated...1940...acres....	2,700		46,130		5,112		480
35	1930...acres....	1,305		45,206		4,718		2,565
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	24.7		61.6		22.4		12.0
37	1929...percent....	23.2		69.3		26.9		10.4
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	95.3		79.2		84.0		92.3
39	1929...percent....	97.7		78.4		87.7		72.1
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	291,165		6,139,576		820,616		47,841
41	(a) Cost of irrigation works and equipment....1940...dollars....	277,103		6,126,345		817,673		47,685
42	(b) Investment in water rights (reported)....1940...dollars....	14,062		13,231		2,943		156
43	Total investment in all enterprises....1930...dollars....	293,760		2,672,528		3,870,572		4,885,956
44	1920...dollars....	397,393		3,201,889		736,713		148,484
45	Increase or decrease (-), 1930-1940....percent....	-0.9		129.7		-78.8		-99.0
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	5.12		27.74		25.72		7.66
47	1930...dollars....	5.25		12.78		100.67		531.02
48	1920...dollars....	5.45		14.74		9.52		17.33
49	Average investment per acre irrigated....1939...dollars....	5.38		35.05		30.63		8.30
50	Estimated final investment in existing enterprises..1940...dollars....	298,065		6,338,516		821,056		51,041
51	1930...dollars....	298,760		2,738,648		3,870,772		4,896,262
52	1920...dollars....	430,093		3,654,189		1,120,113		150,519
53	Increase or decrease (-), 1930-1940....percent....	-0.2		131.4		-78.8		-99.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	4.98		28.39		25.61		8.12
55	1930...dollars....	5.15		12.30		84.68		516.70
56	1920[1]...dollars....	5.13		15.69		11.45		10.57
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	59	2	66	5	40	2	96
58	Area irrigated in these enterprises....1939...acres....	48,447	(2)	172,874	155,769	22,556	(2)	5,731
59	Cost of maintenance and operation....1939...dollars....	13,126	(2)	144,799	5,772	6,670	(2)	3,278
60	Average cost, per acre irrigated....1939...dollars....	0.27	(2)	0.84	0.04	0.30	(2)	0.57
61	1929...dollars....	0.51	.....	1.11	.....	0.85	.....	0.99
62	Total annual charges (reported)[3] [4]....1939...dollars....	14,843	.....	174,658	5,198	5,097	2,500	70
63	Average annual charge per acre irrigated....1939...dollars....	0.34	.....	1.02	0.03	0.26	1.00	0.07
64	Area against which charges were assessed....1939...acres....	46,061	.....	187,954	155,370	22,617	4,500	1,000
65	Average annual charge per acre assessed....1939...dollars....	0.32	.....	0.93	0.03	0.23	0.56	0.07
66	Total charges collected[3]....1939...dollars....	9,841	.....	174,532	5,074	2,087	3,533	.....
67	Indebtedness to December 31 (reported)[4]....1939...dollars....	2,067	.....	1,538,107	661	26,031	1,050	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	59	2	65	4	38	1	97
69	Area irrigated in these enterprises....1939...acres....	46,619	(2)	175,065	152,409	22,992	(2)	5,752
70	Water delivered in these enterprises....1939...acre-feet..	95,943	(2)	887,510	183,393	78,705	(2)	9,112
71	Average water delivered per acre irrigated....1939...acre-feet..	2.1	(2)	5.1	1.2	3.4	(2)	1.6
72	Average cost of water per acre irrigated....1939...dollars....	0.33	(2)	1.03	0.03	0.35	(2)	0.57
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	6	.....	7	.....	.....	.....	.....
74	Irrigable area in these enterprises....1939...acres....	9,787	.....	59,702	.....	.....	.....	.....
75	Irrigated area in these enterprises....1939...acres....	9,782	.....	43,429	.....	.....	.....	.....
76	Area for which drains have been installed....1939...acres....	75	.....	2,953	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres....	4,905	.....	3,090	.....	.....	.....	.....

*Census of Agriculture.

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Bonner	Bonneville	Boundary	Butte	Camas	Canyon	Caribou	Cassia	Clark	Custer	
1,551	1,672	768	264	193	3,631	247	1,296	113	365	1
1,010	1,577	426	235	261	3,279	357	1,407	124	368	2
56	1,426	3	241	73	3,497	102	1,199	82	337	3
54	1,306	8	213	62	3,138	95	1,267	88	331	4
3.7	9.2	-62.5	13.1	17.7	11.4	7.4	-5.4	-6.8	1.8	5
52	921	3	188	59	2,390	92	909	70	278	6
49	811	.....	147	55	2,170	85	913	74	291	7
4	505	.....	53	14	1,107	10	290	12	59	8
5	495	.....	66	7	968	10	354	14	40	9
245,068	427,371	112,566	65,139	164,791	244,777	162,671	287,175	151,516	108,765	10
16,180	235,456	930	60,877	58,749	238,595	84,365	233,576	110,734	103,174	11
289	165	310	253	805	68	827	195	1,350	306	12
15,500	180,523	930	50,483	52,928	157,659	79,565	192,642	104,408	86,418	13
288	196	310	269	897	66	865	212	1,492	311	14
680	54,933	.....	10,394	5,821	80,936	4,800	40,934	6,326	16,756	15
170	109	.....	196	416	73	480	141	527	284	16
1,111,040	1,181,440	816,000	1,433,600	676,480	371,200	752,000	1,628,160	1,120,640	3,157,120	17
1,571	122,287	228	27,562	8,545	180,511	12,407	84,689	11,808	33,635	18
1,453	117,489	122	23,939	8,263	143,800	9,797	78,047	8,897	26,579	19
10	.....	.....	3,202	.....	2,280	9	176	45	118	20
108	4,798	106	421	282	34,431	2,601	6,466	2,866	6,938	21
922	98,569	.....	27,416	7,108	196,449	14,692	79,374	16,292	39,346	22
.....	110,953	.....	39,563	13,272	201,718	23,825	113,537	18,851	80,141	23
70.4	24.1	.....	0.5	20.2	-8.1	-15.6	6.7	-27.5	-14.5	24
2,985	129,977	761	37,771	9,555	277,338	15,586	133,109	16,600	51,534	25
2,095	106,463	.....	54,434	10,366	236,620	16,690	117,665	20,053	69,143	26
.....	135,021	.....	184,858	21,284	234,582	29,102	149,035	45,794	144,041	27
1,414	7,690	533	10,209	1,010	96,827	3,179	48,420	4,792	17,899	28
1,173	7,894	.....	27,018	3,258	40,171	1,998	38,291	3,761	29,797	29
2,457	128,042	726	37,591	9,555	208,189	15,516	89,953	15,305	49,706	30
1,462	105,164	.....	52,768	10,306	202,474	16,240	104,494	20,023	61,673	31
.....	123,043	.....	66,140	14,516	228,032	25,908	129,619	26,467	112,244	32
68.1	21.8	.....	-28.8	-7.3	2.8	-4.5	-13.9	-23.6	-19.4	33
886	5,755	498	10,029	1,010	27,678	3,109	5,264	3,497	16,071	34
540	6,595	.....	25,352	3,198	6,025	1,548	25,120	3,731	22,327	35
9.7	51.9	24.5	45.3	14.5	75.7	14.7	36.3	10.7	32.6	36
8.7	49.7	.....	42.8	19.2	89.7	17.9	37.5	14.2	36.5	37
63.9	95.5	31.4	73.3	89.4	86.7	80.0	94.1	77.2	67.7	38
63.1	93.7	.....	52.0	69.0	97.0	90.5	76.0	81.4	63.8	39
15,901	4,947,094	5,350	565,298	54,670	11,742,448	50,409	5,213,762	66,249	437,536	40
15,136	4,905,171	5,280	565,108	54,660	11,636,949	48,789	4,943,252	44,295	431,182	41
765	41,923	70	190	10	105,499	1,620	270,510	21,954	6,354	42
21,122	1,845,745	.....	1,751,940	107,205	7,031,822	80,350	4,444,572	113,685	404,690	43
.....	3,045,291	.....	3,034,313	117,177	10,223,513	236,538	4,610,590	138,592	778,848	44
-24.7	168.0	.....	-67.7	-49.0	67.0	-37.3	17.3	-41.7	8.1	45
6.47	38.64	7.37	15.04	5.72	56.40	3.25	57.96	4.33	8.80	46
14.45	17.55	.....	33.20	10.40	34.73	4.95	42.53	5.68	6.56	47
.....	24.75	.....	45.88	8.07	44.83	9.13	35.57	5.24	6.94	48
10.12	40.45	23.46	20.51	6.40	65.05	4.06	61.56	5.61	13.01	49
25,341	4,948,244	5,470	565,564	54,670	14,348,644	51,039	5,653,447	71,759	441,234	50
26,072	1,911,745	.....	1,752,140	107,205	10,475,002	82,020	5,055,572	123,885	445,840	51
.....	3,130,091	.....	4,846,413	117,777	10,223,513	238,188	4,618,640	140,318	813,848	52
-2.8	158.8	.....	-67.7	-49.0	37.0	-37.8	11.8	-42.1	-1.0	53
8.49	38.07	7.19	14.97	5.72	51.74	3.27	42.47	4.32	8.56	54
12.44	17.96	.....	32.19	10.34	44.27	4.91	42.97	6.18	6.45	55
.....	23.18	.....	26.22	5.53	43.58	8.18	30.99	3.06	5.65	56
	Primary Enterprises	Sup.			Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.	
28	81	2	5	17	14	58	13	59	67	6	72	141	.....	57
1,179	120,958	(2)	110	27,008	6,352	178,419	81,999	11,165	82,129	531	11,808	31,006	.....	58
959	105,765	(2)	145	10,330	1,920	248,031	113,642	3,708	151,693	2,292	3,727	13,111	.....	59
0.81	0.87	(2)	1.32	0.38	0.30	1.39	1.39	0.33	1.85	4.32	0.32	0.42	.....	60
1.51	0.70	.....	.....	0.76	0.34	1.46	.....	0.42	1.95	.....	0.26	0.51	.....	61
150	121,630	2,856	.....	27,448	1,700	237,811	97,022	455	139,625	300	.....	16,857	.....	62
0.31	1.07	0.03	.....	1.08	0.42	1.35	1.20	0.57	1.81	3.00	.....	1.37	.....	63
480	115,146	98,451	.....	37,157	4,000	192,420	80,852	800	80,532	100	.....	17,681	.....	64
0.31	1.06	0.03	.....	0.74	0.42	1.24	1.20	0.57	1.73	3.00	.....	0.95	.....	65
.....	108,941	2,715	.....	19,610	1,700	455,123	14,277	100	148,213	362	.....	11,798	.....	66
.....	168,431	.....	.....	142,800	.....	6,369,274	70,312	437	1,890,670	.....	.....	95,200	.....	67
40	63	4	8	17	15	55	11	59	61	5	72	80	.....	68
1,329	111,435	98,522	228	27,207	6,094	168,217	81,968	11,954	78,949	510	11,808	16,898	.....	69
3,796	581,693	119,619	639	120,127	3,336	702,770	81,332	22,468	254,347	1,316	30,577	69,994	.....	70
2.9	5.2	1.2	2.8	4.4	0.5	4.2	1.0	1.9	3.2	2.6	2.6	4.1	.....	71
0.80	1.10	0.03	1.32	1.05	0.32	1.35	1.19	0.34	1.81	4.22	0.32	1.23	.....	72
4	1	.....	1	.....	.....	26	.....	1	2	.....	.....	4	.....	73
30	(2)	.....	(2)	.....	.....	216,969	.....	(2)	(2)	.....	.....	1,370	.....	74
16	(2)	.....	(2)	.....	.....	150,012	.....	(2)	(2)	.....	.....	1,143	.....	75
15	(2)	.....	.....	.....	.....	92,635	.....	.....	(2)	.....	.....	.....	.....	76
7	.....	.....	(2)	.....	.....	5,618	.....	(2)	(2)	.....	.....	415	.....	77

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Elmore		Franklin		Fremont		Gem	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]								
1	All farms....1940...number	476		996		967		900	
2	1930...number	333		1,131		1,056		768	
3	Irrigated farms....1940...number	391		850		716		774	
4	1930...number	216		900		686		649	
5	Increase or decrease (-), 1930-1940....percent	81.0		-5.6		4.4		19.3	
	Operated by—								
6	(a) Owners and managers....1940...number	302		777		530		639	
7	1930...number	172		816		473		496	
8	(b) Tenants....1940...number	89		73		186		135	
9	1930...number	44		84		213		153	
10	Land in all farms....1940...acres	148,383		199,535		277,201		132,301	
11	Land in irrigated farms....1940...acres	115,361		154,370		177,760		99,232	
12	Average per farm....1940...acres	295		182		248		128	
13	(a) Operated by owners and managers....1940...acres	102,764		144,638		144,162		85,370	
14	Average per farm....1940...acres	340		186		272		134	
15	(b) Operated by tenants....1940...acres	12,617		9,732		33,598		13,862	
16	Average per farm....1940...acres	142		133		181		103	
17	Approximate land area....1940...acres	1,899,520		346,240		1,164,160		355,200	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	23,473		54,062		86,727		39,879	
19	(a) Cropland harvested....1939...acres	20,089		50,212		78,266		33,018	
20	(b) Crop failure....1939...acres	651		26		40		36	
21	(c) Pasture....1939...acres	2,733		3,824		8,421		6,825	
22	Area irrigated....1929...acres	22,183		52,738		98,273		47,051	
23	1919...acres	28,844		37,460		130,044		51,007	
24	Increase or decrease (-), 1929-1939....percent	5.8		2.5		-11.7		-15.2	
25	Irrigable area in enterprises....1940...acres	28,314		62,284		101,620		48,644	
26	1930...acres	30,204		56,225		112,603		53,531	
27	1920[1]...acres	60,252		54,967		222,235		59,852	
28	Excess of irrigable area over the area irrigated...1940...acres	4,841		8,222		14,893		8,765	
29	1930...acres	8,021		3,487		14,330		6,480	
30	Area works were capable of supplying with water...1940...acres	27,149		59,642		93,045		42,119	
31	1930...acres	29,015		56,060		111,103		51,574	
32	1920...acres	37,641		39,279		191,572		55,836	
33	Increase or decrease (-), 1930-1940....percent	-6.4		6.4		-16.3		-18.3	
34	Excess, capability of works over area irrigated...1940...acres	3,676		5,580		6,318		2,240	
35	1930...acres	6,832		3,322		12,830		4,523	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	20.3		35.0		48.8		40.2	
37	1929...percent	38.8		36.4		76.9		47.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	86.5		90.6		93.2		94.7	
39	1929...percent	76.5		94.1		88.5		91.2	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	2,274,092		2,777,272		2,899,735		2,808,841	
41	(a) Cost of irrigation works and equipment....1940...dollars	2,271,472		2,686,190		2,876,271		2,779,661	
42	(b) Investment in water rights (reported)....1940...dollars	2,620		91,082		23,464		29,180	
43	Total investment in all enterprises....1930...dollars	1,692,008		1,453,838		1,566,282		2,990,652	
44	1920...dollars	1,606,335		822,981		1,712,611		1,492,559	
45	Increase or decrease (-), 1930-1940....percent	34.4		91.0		85.1		-6.1	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	83.76		46.57		31.16		66.69	
47	1930...dollars	58.31		25.93		14.10		57.99	
48	1920...dollars	42.68		20.95		8.94		26.73	
49	Average investment per acre irrigated....1939...dollars	96.88		51.37		33.44		70.43	
50	Estimated final investment in existing enterprises...1940...dollars	2,286,467		2,826,272		2,914,855		3,411,219	
51	1930...dollars	1,692,008		1,453,838		1,625,282		3,021,167	
52	1920...dollars	1,876,777		834,781		1,964,211		1,695,559	
53	Increase or decrease (-), 1930-1940....percent	35.1		94.4		79.3		12.9	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	80.75		45.38		28.68		70.13	
55	1930...dollars	56.02		25.86		14.43		56.44	
56	1920[1]...dollars	31.15		15.19		8.84		28.33	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number	107	2	66	8	61	10	43	5
58	Area irrigated in these enterprises....1939...acres	21,455	(3)	53,814	2,118	85,900	58,597	39,710	22,937
59	Cost of maintenance and operation....1939...dollars	41,483	(3)	72,121	729	32,833	5,757	31,555	24,599
60	Average cost, per acre irrigated....1939...dollars	1.93	(3)	1.34	0.34	0.38	0.10	0.79	1.07
61	1929...dollars	2.33	.....	1.22	.....	0.66	.....	1.31	.....
62	Total annual charges (reported)[4 5]....1939...dollars	50,418	.....	78,323	444	44,227	5,365	51,425	24,325
63	Average annual charge per acre irrigated....1939...dollars	3.81	.....	1.52	0.23	0.55	0.09	1.35	1.07
64	Area against which charges were assessed....1939...acres	15,211	.....	53,006	1,905	83,774	58,441	38,640	22,763
65	Average annual charge per acre assessed....1939...dollars	3.31	.....	1.48	0.23	0.53	0.09	1.33	1.07
66	Total charges collected[4]....1939...dollars	36,147	.....	76,418	434	44,608	5,630	32,802	10,043
67	Indebtedness to December 31 (reported)[5]....1939...dollars	65,000	.....	110,960	.....	106,970	1,815,000	963,606	37,181
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	106	2	59	9	62	9	31	5
69	Area irrigated in these enterprises....1939...acres	21,131	(3)	49,070	2,201	83,006	76,830	34,768	19,200
70	Water delivered in these enterprises....1939...acre-feet	124,952	(3)	91,708	1,405	462,802	58,228	236,131	19,241
71	Average water delivered per acre irrigated....1939...acre-feet	5.9	(3)	1.9	0.6	5.6	0.8	6.8	1.0
72	Average cost of water per acre irrigated....1939...dollars	2.70	(3)	1.58	0.31	0.55	0.09	1.46	1.20
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	4	.....	7	.....	7	.....	10	.....
74	Irrigable area in these enterprises....1939...acres	9,497	.....	13,465	.....	4,652	.....	11,094	.....
75	Irrigated area in these enterprises....1939...acres	8,401	.....	12,838	.....	4,172	.....	8,925	.....
76	Area for which drains have been installed....1939...acres	1,000	.....	250	.....	100	.....	6,215	.....
77	Additional area needing drainage....1939...acres	775	.....	514	.....	913	.....	2,633	.....

[a] Census of Agriculture.
[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data for less than 3 enterprises shown with permission of the enterprise involved.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Irrigation data omitted from any of the counties listed are included under "All other counties"]

Gooding	Idaho	Jefferson	Jerome	Kootenai	Lemhi	Lincoln	Madison	Minidoka	
1,006	1,464	1,297	969	1,733	530	441	1,012	1,048	1
931	1,371	1,090	989	1,348	541	321	1,079	1,025	2
965	128	1,213	933	431	526	415	830	1,018	3
887	96	1,031	961	287	497	297	809	991	4
8.8	33.3	17.7	-2.9	50.2	5.8	39.7	2.6	2.7	5
565	111	906	543	374	435	269	653	706	6
559	85	812	591	261	397	195	612	723	7
400	17	307	390	57	91	146	177	312	8
328	11	219	370	26	100	102	197	268	9
128,427	767,461	209,040	116,050	261,704	163,867	87,460	253,800	86,018	10
125,662	157,674	181,648	112,368	18,954	163,544	83,773	128,500	82,908	11
130	1,232	150	120	44	311	202	155	81	12
78,335	156,052	140,850	65,115	17,412	141,806	57,176	102,807	60,333	13
139	1,406	155	120	47	326	213	157	85	14
47,327	1,622	40,798	47,253	1,542	21,738	26,597	25,693	22,575	15
118	95	133	121	27	239	182	145	72	16
462,080	5,449,600	696,960	379,520	803,840	2,934,400	769,920	302,720	480,000	17
113,303	2,590	106,709	130,560	5,310	73,821	53,241	59,611	55,030	18
106,409	2,254	99,462	130,530	5,116	54,797	49,687	56,854	50,608	19
38	8	79	.....	20	350	10	7	.....	20
6,856	328	7,168	30	174	18,674	3,544	2,750	4,422	21
64,115	1,985	120,151	110,098	6,404	61,278	33,140	55,723	60,000	22
45,408	2,593	149,151	85,000	4,000	66,905	69,620	54,637	55,259	23
76.7	30.5	-11.2	18.6	-17.1	20.5	60.7	7.0	-8.3	24
164,712	2,874	127,865	130,754	6,695	80,750	77,663	65,271	110,312	25
109,566	2,665	169,953	140,973	10,681	70,934	58,990	62,852	60,000	26
91,523	3,843	258,608	110,000	10,214	136,052	125,376	68,257	65,228	27
51,409	284	21,156	194	1,385	6,929	24,422	5,660	55,282	28
45,451	680	49,802	30,875	4,277	9,656	25,850	7,129	.....	29
146,064	2,731	121,492	130,754	6,455	80,615	67,334	63,451	65,070	30
94,715	2,354	169,081	127,098	10,679	68,989	49,740	59,762	60,000	31
83,662	3,103	211,515	110,000	5,495	96,451	121,304	60,784	65,228	32
54.2	16.0	28.1	2.9	-39.6	16.9	35.4	6.2	8.4	33
32,761	141	14,783	194	1,145	6,794	14,093	3,840	10,040	34
30,600	369	48,930	17,000	4,275	7,711	16,600	4,039	.....	35
90.2	1.6	58.7	116.2	28.0	45.1	63.6	46.4	66.4	36
60.6	1.4	90.3	100.7	32.6	39.7	55.3	54.9	89.3	37
77.6	94.8	87.8	99.9	82.3	91.6	79.1	93.9	84.6	38
67.7	84.3	71.1	86.6	60.0	88.8	66.6	93.2	100.0	39
10,194,078	66,504	2,634,484	9,059,767	685,796	467,707	5,305,106	1,911,061	1,919,190	40
10,191,349	66,367	2,567,872	9,059,767	683,701	461,415	5,305,106	1,883,293	1,919,190	41
2,729	137	66,612	.....	2,095	6,292	.....	27,768	.....	42
5,608,893	64,872	1,547,966	8,671,444	831,047	474,158	2,397,462	343,096	2,841,580	43
6,960,473	109,506	6,308,032	11,663,236	561,842	720,647	4,258,895	667,126	3,090,849	44
81.7	2.5	70.2	4.5	-17.5	-1.4	121.3	457.0	-32.5	45
69.79	24.35	21.68	69.29	106.24	5.80	78.79	30.12	29.49	46
59.22	27.56	9.16	68.23	77.82	6.87	48.20	5.74	47.36	47
83.20	35.29	29.82	106.03	102.25	7.47	35.11	10.98	47.39	48
89.97	25.68	24.69	69.39	129.15	6.34	99.64	32.06	34.88	49
10,735,538	67,004	2,666,686	9,059,767	688,571	471,882	5,607,146	1,918,061	1,919,190	50
8,609,693	66,372	1,564,966	11,671,544	831,547	477,458	4,397,462	347,296	2,841,580	51
7,028,095	109,506	6,463,412	11,663,236	811,842	744,797	4,259,215	699,726	3,090,849	52
24.7	1.0	70.4	-22.4	-17.2	-1.2	27.5	452.3	-32.5	53
65.18	23.31	20.86	69.29	102.85	5.84	72.20	29.39	17.40	54
78.58	24.91	9.21	82.79	77.85	6.73	74.54	5.52	47.36	55
76.79	28.49	24.99	106.03	79.48	5.47	33.97	10.25	47.39	56
		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	
47	96	84	2	4	[2] 1	11	471	3	2	32	3	[2] 1	57
112,369	2,522	103,826	(3)	130,560	124,582	5,269	71,602	957	(3)	58,791	40,876	55,030	58
114,011	3,799	79,212	(3)	154,729	3,158	23,076	24,300	346	(3)	28,279	3,256	97,035	59
1.01	1.51	0.76	(3)	1.19	0.03	4.38	0.34	0.36	(3)	0.48	0.08	1.76	60
1.85	2.57	0.70	.....	1.98	.....	8.85	0.42	.....	1.86	0.53	.....	2.99	61
179,300	.....	81,128	979	191,462	3,158	27,372	5,722	75	83,911	49,902	3,142	90,661	62
1.65	.....	0.84	0.03	1.47	0.03	5.21	0.49	0.15	1.64	0.93	0.08	1.65	63
139,818	.....	102,929	38,628	130,440	124,582	5,648	12,037	500	64,861	59,474	40,876	62,525	64
1.28	.....	0.79	0.03	1.47	0.03	4.85	0.48	0.15	1.29	0.84	0.08	1.45	65
189,231	.....	78,160	979	192,501	3,158	27,918	2,248	150	89,790	40,126	3,674	71,898	66
3,550,142	.....	125,578	.....	.....	.....	347,478	.....	.....	2,016,244	70,687	945,000	208,332	67
35	98	81	2	2	[2] 1	12	443	3	2	30	3	[2] 1	68
67,452	2,502	103,252	(3)	(3)	124,582	5,290	61,137	957	(3)	49,611	40,876	55,030	69
215,318	11,804	623,525	(3)	(3)	149,500	13,094	233,876	8,633	(3)	327,494	44,032	237,584	70
3.2	4.7	6.0	(3)	(3)	1.2	2.5	3.8	9.0	(3)	6.6	1.1	4.3	71
1.42	1.52	0.90	(3)	(3)	0.03	5.21	0.31	0.28	(3)	1.02	0.08	1.65	72
.....	.....	1	.....	.....	.....	.....	45	.....	.....	3	.....	[2] 1	73
.....	.....	(3)	.....	.....	.....	.....	9,777	.....	.....	7,660	.....	110,312	74
.....	.....	(3)	.....	.....	.....	.....	8,506	.....	.....	6,636	.....	55,030	75
.....	.....	.....	.....	.....	.....	.....	233	.....	.....	40	.....	30,000	76
.....	.....	(3)	.....	.....	.....	.....	1,545	.....	.....	1,040	.....	350	77

[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Nez Perce		Oneida		Owyhee	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number	1,282		644		873	
2	1930...number	1,309		756		729	
3	Irrigated farms....1940...number	361		374		729	
4	1930...number	332		352		623	
5	Increase or decrease (-), 1930-1940....percent	17.8		6.2		17.0	
	Operated by—						
6	(a) Owners and managers....1940...number	341		332		570	
7	1930...number	294		330		478	
8	(b) Tenants....1940...number	50		42		159	
9	1930...number	38		22		145	
10	Land in all farms....1940...acres	409,051		301,545		480,460	
11	Land in irrigated farms....1940...acres	58,483		156,655		426,700	
12	Average per farm....1940...acres	150		419		585	
13	(a) Operated by owners and managers....1940...acres	57,558		147,767		400,918	
14	Average per farm....1940...acres	169		445		703	
15	(b) Operated by tenants....1940...acres	925		8,888		25,782	
16	Average per farm....1940...acres	18		212		162	
17	Approximate land area....1940...acres	542,080		762,240		4,894,720	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres	4,346		17,177		62,052	
19	(a) Cropland harvested....1939...acres	4,261		16,305		53,570	
20	(b) Crop failure....1939...acres	32		7		947	
21	(c) Pasture....1939...acres	53		865		7,535	
22	Area irrigated....1929...acres	5,038		13,450		57,608	
23	1919...acres	5,018		20,314		62,933	
24	Increase or decrease (-), 1929-1939....percent	-13.7		27.7		7.7	
25	Irrigable area in enterprises....1940...acres	6,542		23,921		74,750	
26	1930...acres	5,380		15,314		85,282	
27	1920[3]...acres	6,135		48,782		119,061	
28	Excess of irrigable area over the area irrigated...1940...acres	2,196		6,744		12,698	
29	1930...acres	342		1,864		27,674	
30	Area works were capable of supplying with water...1940...acres	4,522		19,389		72,929	
31	1930...acres	5,268		15,094		71,275	
32	1920...acres	5,901		21,625		74,494	
33	Increase or decrease (-), 1930-1940....percent	-14.2		28.5		2.3	
34	Excess, capability of works over area irrigated...1940...acres	176		2,212		10,877	
35	1930...acres	230		1,644		13,667	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	7.4		11.0		14.5	
37	1929...percent	6.9		12.3		25.4	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	96.1		88.6		85.1	
39	1929...percent	95.6		89.1		80.8	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars	424,901		224,093		6,306,426	
41	(a) Cost of irrigation works and equipment....1940...dollars	424,130		194,460		6,300,463	
42	(b) Investment in water rights (reported)....1940...dollars	771		29,633		5,963	
43	Total investment in all enterprises....1930...dollars	436,114		107,567		2,907,387	
44	1920...dollars	313,761		471,910		2,309,967	
45	Increase or decrease (-), 1930-1940....percent	-2.6		108.3		116.9	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	93.96		11.56		86.47	
47	1930...dollars	82.78		7.13		40.79	
48	1920...dollars	53.17		21.82		31.01	
49	Average investment per acre irrigated....1939...dollars	97.77		13.05		101.63	
50	Estimated final investment in existing enterprises...1940...dollars	425,501		228,118		6,447,381	
51	1930...dollars	439,164		107,567		3,284,187	
52	1920...dollars	717,171		471,910		2,535,156	
53	Increase or decrease (-), 1930-1940....percent	-3.1		112.1		96.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	65.04		9.54		86.25	
55	1930...dollars	81.63		7.02		38.51	
56	1920[3]...dollars	116.90		9.67		21.29	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	37	3	69	4	227	5
58	Area irrigated in these enterprises....1939...acres	3,925	22	14,528	171	60,719	326
59	Cost of maintenance and operation....1939...dollars	28,934	262	11,399	36	115,834	233
60	Average cost, per acre irrigated....1939...dollars	7.37	11.91	0.78	0.21	1.91	0.71
61	1929...dollars	6.50	.....	0.96	.....	3.59	.....
62	Total annual charges (reported)[4] [5]....1939...dollars	34,748	.....	9,694	.....	129,831	.....
63	Average annual charge per acre irrigated....1939...dollars	9.71	.....	0.78	.....	3.67	.....
64	Area against which charges were assessed....1939...acres	4,439	.....	14,013	.....	39,165	.....
65	Average annual charge per acre assessed....1939...dollars	7.83	.....	0.69	.....	3.31	.....
66	Total charges collected[4]....1939...dollars	31,256	.....	12,128	.....	109,647	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	506,005	.....	1,636	.....	158,900	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	52	3	102	5	224	7
69	Area irrigated in these enterprises....1939...acres	4,061	22	16,188	206	57,958	268
70	Water delivered in these enterprises....1939...acre-feet	6,916	50	37,638	226	229,829	702
71	Average water delivered per acre irrigated....1939...acre-feet	1.7	2.3	2.3	1.1	4.0	2.6
72	Average cost of water per acre irrigated....1939...dollars	9.30	11.91	0.86	0.21	2.51	0.75
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	2	.....	7	.....
74	Irrigable area in these enterprises....1939...acres	.....	.....	(2)	.....	30,526	.....
75	Irrigated area in these enterprises....1939...acres	.....	.....	(2)	.....	23,093	.....
76	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	9,702	.....
77	Additional area needing drainage....1939...acres	.....	.....	(2)	.....	1,110	.....

*Census of Agriculture.
[1]Data between census years not comparable (see headnote).
[2]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[irrigation data omitted from any of the counties listed are included under "All other counties"]

Payette	Power	Shoshone	Teton	Twin Falls	Valley	Washington	All other counties[1]	
922	505	192	492	2,717	361	976	3,497	1
820	573	173	470	2,785	307	1,064	3,324	2
817	218	17	359	2,640	258	630	3	3
773	242	9	296	2,683	164	649	14	4
5.7	-9.9	88.9	21.3	-1.6	57.3	-2.9	-78.6	5
589	153	16	273	1,603	206	472	2	6
593	176	.....	233	1,725	128	513	29	7
228	65	1	86	1,037	52	158	1	8
180	66	.....	63	958	36	136	2	9
108,790	391,691	24,495	153,220	370,033	123,480	433,068	856,721	10
94,591	82,583	1,892	97,930	316,334	101,182	212,639	59	11
116	379	111	273	120	392	338	20	12
76,922	71,273	(2)	83,205	207,259	86,765	192,562	(2)	13
131	466	(2)	305	129	421	408	(2)	14
17,669	11,310	(2)	14,725	109,075	14,417	20,077	(2)	15
77	174	(2)	171	105	277	127	(2)	16
257,920	903,040	1,669,760	293,760	1,242,880	2,380,160	944,000	3,123,840	17
40,039	10,405	151	42,044	237,950	45,649	31,645	.....	18
36,054	9,808	134	36,839	236,406	24,527	29,791	.....	19
.....	.....	.....	209	218	.....	133	.....	20
3,985	597	17	4,996	1,326	21,122	1,721	.....	21
37,536	10,708	.....	39,014	244,832	33,128	26,039	782	22
52,428	11,264	.....	41,385	261,622	15,591	41,423	1,185	23
6.7	-2.8	.....	7.8	-2.8	37.8	21.5	.....	24
64,879	15,974	172	50,974	254,978	51,246	40,118	.....	25
61,950	16,186	.....	58,145	296,556	37,039	32,831	930	26
71,455	19,496	.....	62,459	312,121	31,984	59,610	2,806	27
24,840	5,569	21	8,930	17,028	5,597	8,473	.....	28
24,414	5,478	.....	19,131	51,724	3,911	6,892	148	29
48,799	13,054	172	46,277	254,391	50,195	34,408	.....	30
45,086	14,914	.....	45,991	294,487	36,898	31,754	844	31
30,653	17,186	.....	57,422	271,443	24,148	52,065	2,221	32
8.2	-12.5	.....	0.6	-13.6	36.0	8.4	.....	33
8,760	2,649	21	4,233	16,441	4,546	2,763	.....	34
7,550	4,206	.....	6,977	49,655	3,770	5,715	62	35
423	12.6	8.0	42.9	75.2	45.1	14.9	.....	36
56.0	12.5	.....	50.3	88.0	58.5	13.2	9.4	37
82.0	79.7	87.8	90.9	93.5	90.9	92.0	.....	38
83.3	71.8	.....	84.8	83.1	89.8	82.0	92.7	39
2,080,328	201,530	3,400	188,753	9,525,034	370,867	1,198,954	.....	40
2,006,235	199,565	3,350	182,291	9,312,095	360,436	887,661	.....	41
74,093	1,965	50	6,462	212,939	10,431	311,293	.....	42
1,119,416	7,407,045	.....	96,824	6,286,750	494,395	1,178,049	37,594	43
1,209,175	270,888	.....	157,976	8,984,389	147,110	1,774,135	47,847	44
85.8	-97.3	.....	94.9	51.5	-25.0	1.8	.....	45
42.63	15.44	19.77	4.08	37.44	7.39	34.65	.....	46
24.83	496.65	.....	2.10	21.35	13.40	37.10	44.54	47
39.45	15.76	.....	2.75	33.10	6.09	34.08	21.54	48
51.96	19.37	22.52	4.49	40.03	8.12	37.89	.....	49
3,477,975	241,530	3,400	190,368	9,531,273	392,402	1,405,045	.....	50
2,659,871	7,443,445	.....	99,124	6,286,750	584,395	1,183,149	37,594	51
1,209,375	287,138	.....	163,176	9,166,578	177,160	1,874,135	53,022	52
30.8	-96.8	.....	92.1	51.6	-32.9	18.8	.....	53
53.61	15.12	19.77	3.73	37.38	7.66	35.02	.....	54
42.94	459.87	.....	1.70	21.20	15.78	35.93	40.42	55
16.92	14.73	.....	2.61	29.37	5.54	31.44	18.90	56
Primary Enterprises / Sup.			Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.			
45 / 1	26	9	75 / 1		52 / 2		163 / 4		133 / 3		.....	57
38,094 / (2)	9,220	85	35,761 / (2)		237,370 / (2)		43,313 / 335		31,275 / 3,111		.....	58
39,748 / (2)	6,755	163	5,655 / (2)		316,818 / (2)		18,611 / 181		32,080 / 245		.....	59
1.04 / (2)	0.73	1.92	0.16 / (2)		1.33 / (2)		0.43 / 0.54		1.03 / 0.08		.....	60
207 /	1.18	.....	0.15 /		2.50 /		0.61 /		1.59 /		1.88	61
48,800 / 1,504	6,520	.....	7,929 /		289,844 / 6,449		14,705 /		43,621 / 3,321		.....	62
1.39 / 0.40	0.86	.....	0.26 /		1.25 / 0.03		0.54 /		1.84 / 1.09		.....	63
35,088 / 3,761	9,353	.....	31,308 /		247,388 / 219,197		27,262 /		28,629 / 3,321		.....	64
1.39 / 0.40	0.70	.....	0.25 /		1.17 / 0.03		0.54 /		1.52 / 1.00		.....	65
41,575 / 2,507	6,176	.....	7,263 /		285,045 / 6,537		16,559 /		37,323 / 3,223		.....	66
69,280 /	25,212	.....	200 /		234,645 /		45,200 /		128,226 / 28,560		.....	67
33 /	30	13	78 / 1		43 / 3		170 / 3		115 / 3		.....	68
32,418 /	9,284	151	38,785 / (2)		233,379 / 219,251		32,130 / 335		17,315 / 3,111		.....	69
192,693 /	34,348	635	78,778 / (2)		877,023 / 263,411		89,084 / 677		55,476 / 6,384		.....	70
5.9 /	3.7	4.2	2.0 / (2)		3.8 / 1.2		2.8 / 2.0		3.2 / 2.1		.....	71
1.28 /	0.85	1.92	0.25 / (2)		1.19 / 0.03		0.50 / 0.54		0.96 / 1.09		.....	72
8 /	2	.....	10 /		9 /		..... /		2 /		.....	73
23,355 /	(2)	.....	2,179 /		199,176 /		..... /		(2) /		.....	74
19,817 /	(2)	.....	1,153 /		199,110 /		..... /		(2) /		.....	75
18,781 /	(2)	.....	980 /		5,708 /		..... /		(2) /		.....	76
1,515 /	(2)	.....	300 /		522 /		..... /		(2) /		.....	77

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Ada	Adams	Bannock	Bear Lake	Bingham	Blaine
	FARM VALUES, 1940[a]							
1	Land and buildings, all farms.....dollars..	339,194,391	17,047,467	2,706,209	13,518,532	4,400,763	17,715,128	2,310,637
2	Land and buildings, irrigated farms.....dollars..	236,628,170	16,216,543	2,314,469	11,458,908	3,863,381	16,993,404	2,166,169
	Operated by—							
3	(a) Owners and managers.....dollars..	173,589,977	11,136,939	2,098,059	9,627,578	3,518,079	12,140,519	1,680,709
4	(b) Tenants.....dollars..	63,038,193	5,079,604	216,410	1,831,330	345,302	4,852,885	485,460
5	Average, land and buildings, per farm.....dollars..	7,914.52	6,455.63	8,008.54	8,589.89	6,695.63	7,918.64	7,876.98
6	per acre in farms.....dollars..	41.66	84.95	12.55	33.61	17.65	59.76	18.13
7	Buildings, irrigated farms reporting value.....number...	28,943	2,468	286	1,287	515	2,079	270
8	Total reported.....dollars..	53,585,575	4,930,540	485,875	2,479,231	818,355	3,928,962	452,005
9	Average, per irrigated farm reporting.....dollars..	1,851.42	1,997.79	1,698.86	1,926.36	1,589.04	1,889.83	1,674.09
10	per acre on all irrigated farms.....dollars..	9.43	25.83	2.64	7.27	3.74	13.82	3.78
11	Buildings, nonirrigated farms reporting value.....number...	13,009	164	115	351	113	61	41
12	Total reported.....dollars..	18,705,158	260,375	100,775	409,916	124,405	59,175	39,465
13	Average, per nonirrigated farm reporting.....dollars..	1,437.86	1,587.65	876.30	1,167.85	1,100.93	970.08	962.56
14	per acre on all nonirrigated farms.....dollars..	4.05	3.82	2.99	3.12	3.03	0.42	2.21
15	Implements and machinery, irrigated farms reporting value..number...	26,475	1,963	265	1,203	519	1,947	255
16	Total reported.....dollars..	28,818,258	1,424,167	207,222	1,400,388	390,158	2,435,209	324,293
17	Average, per irrigated farm reporting.....dollars..	1,088.51	725.51	781.97	1,164.08	751.75	1,250.75	1,271.74
18	per acre, on all irrigated farms.....dollars..	5.07	7.46	1.12	4.11	1.78	8.56	2.71
19	Implements and machinery, nonirrigated farms reporting value.....number...	11,466	90	98	315	99	43	26
20	Total reported.....dollars..	13,326,972	46,735	49,685	380,930	82,526	43,770	20,265
21	Average, per acre, on all nonirrigated farms.....dollars..	2.89	0.69	1.47	2.90	2.01	0.31	1.13
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[1] 3,702	197	115	206	73	81	57
23	1930...number.....	[1] 3,257	88	132	197	90	63	48
24	1920...number.....	3,629	50	121	242	95	68	129
25	Average size of enterprise based on irrigable area.....1940...acres.....	775	772	213	511	820	2,756	562
26	1930...acres.....	864	1,634	192	644	644	3,533	952
27	1920[2]...acres.....	1,042	2,736	354	940	883	3,425	758
28	Diversion dams.....1940...number.....	3,209	71	39	180	122	38	58
29	Main canals and laterals.....1940...length, miles.....	13,602.1	735.1	180.3	666.9	300.5	820.3	174.1
30	1930...length, miles.....	14,344	769	182	626	298	926	196
31	1920...length, miles.....	17,298	298	263	948	400	592	271
32	1940...capacity, c.f.s.[3]....	71,510	5,439	717	1,645	1,391	5,306	1,629
33	1930...capacity, c.f.s.[3]....	76,763	5,138	512	1,981	1,292	6,269	1,207
34	1920...capacity, c.f.s.[3]....	86,273	2,567	1,015	3,038	1,522	5,688	2,716
35	Pipe lines[4].....1940...length, miles.....	299.9	2.6	4.0	11.3	0.3	2.8	.....
36	Storage dams.....1940...number.....	260	7	10	20	12	6	6
37	Reservoirs.....1940...number.....	290	22	9	21	11	6	7
38	1930...number.....	155	2	3	13	5	4	3
39	1920...number.....	249	10	3	17	13	6	1
40	1940...capacity, acre-feet..	3,795,272	12,117	25,787	17,483	1,265	654	314,647
41	1930...capacity, acre-feet..	3,645,373	9,233	3,100	24,675	2,151	451,300	208,500
42	1920...capacity, acre-feet..	3,493,511	150,536	1,205	141,216	5,677	123,610	.....
43	Wells, flowing.....1940...number.....	375	67	.....	.....	.....	1	.....
44	1930...number.....	220	20	.....	.....	.....	.....	.....
45	1920...number.....	142	7	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	40,165	7,305	.....	.....	.....	(6)	.....
47	1930...yield, g.p.m.....	30,108	2,828	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	15,133	45	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	309	64	.....	3	.....	1	7
50	1930...number.....	121	23	.....	1	.....	2	1
51	1920...number.....	53	2	.....	.....	.....	1	.....
52	1940...yield, g.p.m.....	225,164	14,792	.....	2,045	.....	(6)	5,900
53	1930...yield, g.p.m.....	34,601	3,886	.....	900	.....	1,128	900
54	1920...yield, g.p.m.....	17,749	900	.....	.....	.....	440	.....
55	Pumping plants.....1940...number.....	665	102	1	25	1	23	7
56	1930...number.....	393	46	1	4	.....	7	1
57	1920...number.....	143	6	.....	2	.....	2	.....
58	Prime movers.....1940...capacity, hp.....	44,537	2,731	(6)	114	(6)	733	54
59	1930...capacity, hp.....	33,754	1,864	6	25	.....	103	5
60	1920...capacity, hp.....	28,364	168	.....	23	.....	10	.....
61	Pumps.....1940...capacity, g.p.m.....	2,719,905	96,340	(6)	9,017	(6)	68,330	5,950
62	1930...capacity, g.p.m.....	2,113,513	202,210	1,000	2,236	.....	9,353	900
63	1920...capacity, g.p.m.....	1,397,681	2,250	.....	.....	.....	1,440	.....
64	Pumping lift, from all sources.....1940...average, feet.....	26	24	(6)	14	(6)	20	19
65	1930...average, feet.....	32	24	12	24	.....	28	10
66	1920...average, feet.....	29	32	.....	14	.....	18	.....
67	from pumped wells.....1940...average, feet.....	29	25	.....	14	.....	(6)	19
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	456	25	14	25	29	40	9
69	Irrigated area in these enterprises.....acres....	1,932,890	125,360	13,051	68,982	38,936	168,298	18,547
70	Wages and salaries paid and payable.....dollars..	1,316,975	84,586	4,733	28,581	9,684	82,580	7,021
71	Persons employed during week ending April 29.....number...	2,275	126	11	95	91	204	16

[a] Census of Agriculture.
[1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Boise	Bonner	Bonneville	Boundary	Butte	Camas	Canyon	Caribou	Cassia	Clark	Custer	Elmore	Franklin	Fremont	
894,311	4,740,111	18,699,684	3,776,416	1,776,709	3,215,968	23,079,715	2,013,111	9,203,955	1,189,285	2,488,727	2,634,694	8,426,488	8,471,488	1
675,146	335,740	15,641,657	22,670	1,725,611	1,092,810	22,579,753	1,151,330	8,723,219	859,005	2,396,937	2,346,854	7,444,177	6,547,277	2
565,346	322,240	10,571,942	22,670	1,384,910	966,235	15,462,058	1,059,330	6,477,756	788,645	1,995,227	1,973,999	6,842,150	5,018,304	3
109,800	13,500	5,069,715	.....	340,701	126,575	7,117,695	92,000	2,245,463	70,360	401,710	372,855	602,027	1,528,973	4
5,488.99	5,995.36	10,968.90	7,556.67	7,160.21	14,970.00	6,456.89	11,287.55	7,275.41	10,475.67	7,112.57	6,002.18	8,757.86	9,144.24	5
14.01	20.75	66.43	24.38	28.35	18.60	94.64	13.65	37.35	7.76	23.23	20.34	48.22	38.83	6
123	55	1,378	3	225	71	3,438	98	1,165	80	322	372	810	645	7
154,450	88,850	3,356,010	4,350	382,975	154,230	5,792,451	226,950	2,021,952	122,250	420,707	486,377	1,818,790	1,138,585	8
1,255.69	1,615.45	2,435.42	1,450.00	1,702.11	2,172.25	1,684.83	2,315.82	1,735.58	1,528.12	1,306.54	1,307.47	2,245.42	1,765.25	9
3.20	5.49	14.25	4.68	6.29	2.63	24.28	2.69	8.66	1.10	4.08	4.22	11.78	6.41	10
69	1,479	184	751	19	108	122	129	96	28	24	83	124	194	11
67,105	1,437,362	268,125	838,909	16,720	182,240	160,792	171,425	106,855	191,265	18,810	62,310	197,595	302,766	12
972.54	971.85	1,457.20	1,117.06	880.00	1,687.41	1,317.97	1,328.87	1,113.07	6,830.89	783.75	750.72	1,593.51	1,560.65	13
2.91	6.28	1.40	7.51	3.92	1.72	26.01	2.19	1.99	4.69	3.36	1.89	4.37	3.04	14
120	53	1,331	3	214	69	3,073	93	1,099	74	275	344	775	651	15
82,084	40,902	1,898,616	2,950	253,039	151,103	2,853,783	136,210	1,290,220	80,280	306,903	289,495	874,136	853,301	16
684.03	771.74	1,426.46	983.33	1,182.43	2,189.90	928.66	1,464.62	1,173.99	1,084.86	1,116.01	841.56	1,127.92	1,310.75	17
1.70	2.53	8.06	3.17	4.16	2.57	11.96	1.61	5.52	0.72	2.97	2.51	5.66	4.80	18
63	1,174	202	669	13	106	85	114	70	18	17	67	119	165	19
27,915	405,631	439,825	473,755	7,471	338,842	56,488	165,555	94,337	22,800	9,308	46,875	130,601	279,650	20
1.21	1.77	2.29	4.24	1.75	3.20	9.14	2.11	1.76	0.56	1.66	1.42	2.89	2.81	21
101	43	103	8	21	17	84	64	87	75	160	130	83	82	22
127	42	80	5	49	28	45	80	26	84	216	129	61	46	23
111	.....	85	.....	76	58	29	61	157	100	284	138	77	108	24
62	69	1,262	95	1,799	562	3,302	244	1,530	221	322	218	750	1,239	25
75	50	1,331	.....	1,111	370	5,258	209	4,526	239	320	234	922	2,448	26
128	.....	1,588	.....	2,432	367	8,089	477	949	458	507	437	714	2,058	27
151	52	53	4	46	21	33	57	127	102	185	116	44	68	28
117.1	10.1	546.2	4.2	184.0	23.0	1,114.0	98.1	504.0	109.0	515.3	308.6	297.8	384.5	29
167	5	595	.....	232	31	1,673	75	435	199	472	289	327	409	30
230	.....	611	.....	368	72	532	198	796	333	813	391	301	779	31
204	239	2,156	48	523	110	1,887	341	2,401	344	2,268	418	1,085	5,513	32
267	226	1,976	.....	1,858	77	8,426	190	2,206	469	1,558	901	860	7,414	33
508	.....	4,553	.....	1,509	196	3,619	1,139	2,039	2,160	3,202	1,117	859	9,597	34
0.6	1.7	2.1	1.2	.....	.....	36.6	.....	2.8	.....	2.9	18.4	6.9	0.7	35
7	4	2	.....	1	7	3	8	15	.....	1	14	12	8	36
10	6	2	.....	1	7	[5] 1	7	17	.....	1	15	10	8	37
13	3	1	.....	4	1	1	3	3	3	1	10	8	3	38
10	.....	6	.....	5	6	1	5	5	5	7	18	6	19	39
112	904	(6)	.....	(6)	38,200	177,150	200,076	76,575	.....	(6)	321,789	23,275	210,507	40
280,110	505	200	.....	49,013	18,000	177,000	890	77,502	7,200	24	33,570	24,720	82,888	41
27	.....	147	.....	103,680	708	422,257	163	442,767	36,947	16,708	35,109	7,903	8,422	42
.....	.....	.....	.....	.....	.....	30	.....	4	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	1	.....	11	.....	.....	1	.....	.....	45
.....	.....	.....	.....	.....	.....	3,510	.....	630	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	613	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	30	.....	2,700	.....	.....	.....	.....	.....	48
1	.....	.....	.....	.....	.....	39	.....	39	.....	1	9	6	.....	49
.....	1	1	.....	.....	.....	8	.....	3	.....	.....	36	.....	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	.....	.....	51
(6)	.....	.....	.....	.....	.....	37,918	.....	22,457	.....	(6)	1,168	2,580	.....	52
.....	20	15	.....	.....	.....	7,050	.....	2,500	.....	.....	5,428	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,132	.....	.....	54
4	1	17	1	.....	.....	70	1	59	.....	1	17	20	2	55
.....	5	1	.....	2	.....	17	1	9	.....	.....	46	7	.....	56
1	.....	.....	.....	.....	.....	3	.....	1	.....	1	22	6	.....	57
24	(6)	1,738	(6)	.....	.....	998	(6)	12,871	.....	(6)	104	2,495	(6)	58
.....	27	2	.....	8	.....	309	1	9,085	.....	.....	212	2,334	.....	59
2	.....	.....	.....	.....	.....	156	.....	3,300	.....	33	2,397	568	.....	60
1,155	(6)	89,375	(6)	.....	.....	64,534	(6)	1,122,500	.....	(6)	10,893	103,730	(6)	61
.....	3,112	15	.....	100	.....	16,205	50	884,468	.....	.....	13,093	116,850	.....	62
.....	.....	.....	.....	.....	.....	7,400	.....	330,000	.....	10,800	13,966	14,915	.....	63
23	(6)	57	(6)	.....	.....	18	(6)	36	.....	(6)	19	34	(6)	64
.....	29	150	.....	15	.....	17	12	33	.....	.....	19	40	.....	65
15	.....	.....	.....	.....	.....	27	.....	14	.....	94	23	10	.....	66
(6)	.....	.....	.....	.....	.....	22	.....	40	.....	(6)	18	23	(6)	67
1	.....	21	.....	5	1	23	2	17	.....	6	3	24	31	68
(6)	.....	113,216	.....	25,366	(6)	175,728	(6)	76,254	.....	11,560	13,229	47,468	81,064	69
(6)	.....	50,648	.....	5,609	(6)	188,562	(6)	72,533	.....	4,713	22,075	32,252	20,894	70
.....	.....	131	.....	5	.....	223	(6)	80	.....	6	21	91	44	71

[4] Includes siphons and farm pipe lines reported.
[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Gem	Gooding	Idaho	Jefferson	Jerome	Kootenai	Lemhi
	FARM VALUES, 1940[*]							
1	Land and buildings, all farms.....dollars..	4,871,767	7,224,547	14,306,095	8,610,329	10,377,430	7,204,372	4,121,758
2	Land and buildings, irrigated farms.....dollars..	4,443,347	7,110,162	1,004,281	8,244,934	10,113,130	1,186,180	4,111,158
	Operated by—							
3	(a) Owners and managers.....dollars..	3,788,425	4,407,962	966,056	6,287,669	5,906,618	1,063,230	3,542,116
4	(b) Tenants.....dollars..	654,922	2,702,200	38,225	1,957,265	4,206,512	122,950	569,042
5	Average, land and buildings, per farm.....dollars..	5,740.76	7,368.04	7,845.95	6,797.14	10,839.37	2,752.16	7,815.89
6	per acre in farms.....dollars..	44.78	56.58	6.37	45.39	90.00	62.58	25.14
7	Buildings, irrigated farms reporting value.....number...	752	921	127	1,170	908	420	515
8	Total reported.....dollars..	1,140,356	1,478,415	161,525	1,858,517	1,900,981	599,860	832,293
9	Average, per irrigated farm reporting.....dollars..	1,516.43	1,605.23	1,271.85	1,588.48	2,093.59	1,428.24	1,616.10
10	per acre on all irrigated farms.....dollars..	11.49	11.77	1.02	10.23	16.92	31.64	5.09
11	Buildings, nonirrigated farms reporting value.....number...	116	31	1,294	71	35	1,282	4
12	Total reported.....dollars..	119,690	43,425	2,190,198	66,085	49,854	1,673,930	1,225
13	Average, per nonirrigated farm reporting.....dollars..	1,031.81	1,400.81	1,692.58	930.77	1,424.40	1,305.72	306.25
14	per acre on all nonirrigated farms.....dollars..	3.62	15.71	3.59	2.41	13.54	6.90	3.57
15	Implements and machinery, irrigated farms reporting value..number...	672	870	110	1,084	753	391	482
16	Total reported.....dollars..	558,078	917,214	57,045	1,147,768	1,199,452	145,507	493,501
17	Average, per irrigated farm reporting.....dollars..	830.47	1,054.27	518.59	1,058.83	1,592.90	372.14	1,023.86
18	per acre, on all irrigated farms.....dollars..	5.62	7.30	0.36	6.32	10.67	7.68	3.02
19	Implements and machinery, nonirrigated farms reporting value.....number...	96	29	1,207	51	23	1,142	3
20	Total reported.....dollars..	37,905	16,935	1,572,997	36,100	26,824	684,543	570
21	Average, per acre, on all nonirrigated farms.....dollars..	1.15	6.12	2.58	1.32	7.29	2.82	1.66
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	54	54	103	89	5	16	517
23	1930...number.....	79	37	99	50	9	23	457
24	1920...number.....	42	79	86	72	1	19	404
25	Average size of enterprise based on irrigable area.....1940...acres.....	901	3,050	28	1,437	26,151	418	156
26	1930...acres.....	678	2,961	27	3,399	15,664	464	155
27	1920[4]..acres.....	1,425	1,159	45	3,592	110,000	538	337
28	Diversion dams.....1940...number.....	35	36	111	11	2	4	542
29	Main canals and laterals.....1940...length, miles.....	224.8	747.6	111.5	308.2	549.5	31.7	859.9
30	1930...length, miles.....	255	449	85	403	246	61	917
31	1920...length, miles.....	254	449	103	935	507	37	1,069
32	1940...capacity, c.f.s.[5]....	1,749	715	144	7,557	7,212	344	2,792
33	1930...capacity, c.f.s.[5]....	1,099	1,693	86	8,152	2,000	89	2,540
34	1920...capacity, c.f.s.[5]....	2,109	2,756	151	8,364	2,072	98	2,691
35	Pipe lines[6].....1940...length, miles.....	23.1	9.9	1.6	0.1	1.1	67.2	1.3
36	Storage dams.....1940...number.....	5	3	3	3	1	2	5
37	Reservoirs.....1940...number.....	5	3	4	2	1	2	5
38	1930...number.....	4	2	3	1	.....	.....	6
39	1920...number.....	1	5	5	6	1	1	4
40	1940...capacity, acre-feet..	4,543	3,703	15	(2)	(2)	(2)	108
41	1930...capacity, acre-feet..	503	3,600	211	4,561	.....	.....	1,570
42	1920...capacity, acre-feet..	3	6,405	79	35,874	850,000	600	397
43	Wells, flowing.....1940...number.....	.....	.....	.....	30	.....	.....	.....
44	1930...number.....	.....	.....	.....	19	.....	.....	.....
45	1920...number.....	1	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	11,100	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	8,550	.....	.....	.....
48	1920...yield, g.p.m.....	36	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	.....	.....	.....	57	.....	2	.....
50	1930...number.....	1	.....	.....	9	.....	1	.....
51	1920...number.....	.....	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	.....	.....	.....	101,540	.....	(2)	.....
53	1930...yield, g.p.m.....	500	.....	.....	5,690	.....	100	.....
54	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	16	.....	1	56	14	13	3
56	1930...number.....	36	.....	2	13	8	11	4
57	1920...number.....	.....	3	.....	11	3	6	1
58	Prime movers.....1940...capacity, hp.....	2,147	.....	(2)	1,894	1,945	1,316	85
59	1930...capacity, hp.....	996	.....	24	1,227	1,722	1,054	8
60	1920...capacity, hp.....	.....	706	.....	626	1,290	992	5
61	Pumps.....1940...capacity, g.p.m.....	164,781	.....	(2)	280,214	98,100	45,567	3,450
62	1930...capacity, g.p.m.....	141,746	.....	600	171,840	94,190	33,770	365
63	1920...capacity, g.p.m.....	.....	33,794	.....	96,250	62,956	50,041	75
64	Pumping lift, from all sources.....1940...average, feet.....	14	.....	(2)	16	53	76	14
65	1930...average, feet.....	31	.....	35	15	30	72	18
66	1920...average, feet.....	.....	50	.....	11	50	51	19
67	from pumped wells.....1940...average, feet.....	.....	.....	.....	18	.....	(2)	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	16	9	.....	32	2	7	12
69	Irrigated area in these enterprises.....acres....	37,718	107,291	.....	94,990	(2)	5,255	9,990
70	Wages and salaries paid and payable.....dollars..	19,384	56,443	.....	25,576	(2)	13,821	2,759
71	Persons employed during week ending April 29.....number...	26	76	.....	122	(2)	24	19

[*] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] Data for less than 3 enterprises shown with permission of the enterprise involved.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Lincoln	Madison	Minidoka	Nez Perce	Oneida	Owyhee	Payette	Power	Shoshone	Teton	Twin Falls	Valley	Washington	All other counties[1]	
3,212,689	7,950,997	6,906,683	13,315,778	6,961,523	4,778,586	5,017,233	5,457,498	738,761	3,104,968	34,121,143	2,940,194	6,286,475	33,376,167	1
3,167,289	6,053,881	6,837,753	1,833,555	4,106,853	4,410,339	4,782,551	1,911,955	123,000	2,167,142	33,537,315	2,463,785	4,458,750	5,750	2
2,130,087	4,910,164	4,897,643	1,690,230	3,800,453	3,748,744	3,656,117	1,505,705	(2)	1,800,378	20,131,151	2,142,734	3,438,550	(2)	3
1,037,202	1,143,717	1,940,110	143,325	308,400	661,595	1,126,434	406,250	(2)	366,764	13,406,164	321,051	1,020,200	(2)	4
7,632.02	7,293.83	6,716.85	4,689.40	10,980.89	6,049.85	5,853.80	8,770.44	7,235.29	6,036.61	12,703.53	9,549.55	7,077.38	1,916.67	5
37.81	47.11	82.47	31.35	26.22	10.34	50.56	23.15	65.01	22.13	106.02	24.35	20.97	97.46	6
396	768	994	390	359	700	806	214	17	336	2,586	249	622	3	7
677,378	1,294,730	1,678,327	694,890	711,615	667,943	1,530,107	369,367	48,600	447,795	6,512,908	495,570	1,219,203	1,300	8
1,710.55	1,685.85	1,688.46	1,781.77	1,982.21	954.20	1,898.40	1,726.01	2,858.82	1,332.72	2,518.53	1,990.24	1,960.13	433.33	9
8.09	10.08	20.24	11.88	4.54	1.57	16.18	4.47	25.69	4.57	20.59	4.90	5.73	22.03	10
21	130	22	863	242	125	94	254	175	117	66	86	327	3,399	11
17,100	119,111	23,365	1,581,505	324,715	43,065	60,095	401,324	277,545	140,913	126,717	126,205	443,473	5,859,228	12
814.29	916.24	1,062.05	1,832.57	1,341.80	344.52	639.31	1,580.02	1,585.97	1,204.38	1,919.95	1,467.50	1,356.19	1,723.81	13
4.64	0.95	7.51	4.51	2.24	0.80	4.23	1.30	12.28	2.55	2.36	5.66	2.01	6.84	14
375	742	893	335	348	612	748	203	15	335	2,394	217	568	2	15
434,642	840,951	841,396	160,943	473,178	576,544	539,899	346,954	15,120	382,415	3,666,659	238,719	488,574	(2)	16
1,159.05	1,132.14	942.21	480.43	1,359.71	942.07	721.79	1,708.13	1,008.00	1,141.54	1,531.60	1,100.09	860.17	(2)	17
5.19	6.54	10.15	2.75	3.02	1.35	5.71	4.20	7.99	3.90	11.59	2.36	2.30	(2)	18
18	145	17	786	219	79	74	253	143	111	50	57	296	3,114	19
9,200	532,611	9,760	1,292,146	485,974	35,849	51,285	753,128	83,062	219,681	51,168	34,545	272,251	3,997,474	20
2.50	4.25	3.14	3.69	3.35	0.67	3.61	2.44	3.67	3.97	0.95	1.55	1.24	4.67	21
4	40	[3] 1	58	116	271	55	35	13	87	63	189	145	.....	22
4	29	1	78	43	221	94	56	6	73	47	64	147	4	23
44	37	1	59	68	259	40	53	.....	99	85	73	89	30	24
19,416	1,632	110,312	113	206	276	1,180	456	13	586	4,047	271	277	.....	25
14,748	2,167	60,000	69	356	386	659	289	.....	797	6,310	579	224	.....	26
2,849	1,845	65,228	104	717	460	1,786	368	.....	631	3,672	438	670	94	27
4	38	1	26	52	477	15	28	10	64	32	78	76	.....	28
435.3	230.0	308.0	20.6	156.0	621.6	280.2	109.6	3.2	244.1	864.2	163.4	239.6	.....	29
420	161	463	33	125	565	138	127	.....	178	1,940	210	267	5	30
576	219	338	36	1,450	725	281	124	.....	283	1,212	122	361	21	31
1,076	3,358	1,700	100	320	1,933	647	153	13	911	4,773	1,060	1,289	.....	32
823	2,648	1,600	190	193	1,692	2,825	121	.....	1,592	5,139	690	761	13	33
3,027	2,768	480	75	1,000	2,338	1,497	325	.....	1,498	6,046	572	1,158	204	34
.....	.....	0.5	56.7	2.2	5.9	16.6	0.4	2.4	0.5	8.6	1.1	5.8	.....	35
.....	2	.....	2	13	31	1	4	.....	3	3	27	9	.....	36
.....	2	.....	6	18	36	1	4	1	3	6	21	9	.....	37
.....	.....	1	3	4	19	1	6	.....	.....	4	8	8	1	38
1	1	2	6	10	22	7	12	.....	1	6	2	8	5	39
.....	(2)	.....	5,004	2,325	23,388	(2)	1,700,214	(2)	15	211,703	262,326	102,971	.....	40
.....	.....	95,180	9,000	7,020	15,165	33,000	1,700,855	.....	.....	184,061	67,514	72,551	1	41
190,000	8,000	499,733	4	19,391	20,324	63,050	712	.....	40	206,600	205	94,596	416	42
.....	.....	.....	.....	95	142	.....	.....	.....	.....	5	1	.....	.....	43
.....	.....	.....	.....	21	137	.....	.....	.....	.....	14	.....	3	.....	44
.....	.....	.....	.....	57	61	.....	.....	.....	.....	3	.....	.....	.....	45
.....	.....	.....	.....	5,036	11,959	.....	.....	.....	.....	330	(2)	.....	.....	46
.....	.....	.....	.....	750	14,468	.....	.....	.....	.....	2,883	.....	16	.....	47
.....	.....	.....	.....	7,468	2,954	.....	.....	.....	.....	1,900	.....	.....	.....	48
.....	.....	.....	20	10	4	13	3	.....	5	.....	.....	25	.....	49
.....	.....	.....	19	5	1	2	.....	.....	.....	2	.....	4	1	50
1	.....	.....	27	.....	1	3	.....	.....	.....	.....	.....	.....	1	51
.....	.....	.....	1,965	4,358	2,070	1,510	3,360	.....	5,835	.....	.....	16,790	.....	52
.....	.....	.....	2,229	600	225	145	.....	.....	.....	1,200	.....	2,050	35	53
2,500	.....	.....	2,690	.....	27	9,000	.....	.....	.....	.....	.....	.....	60	54
.....	2	27	31	9	31	27	3	.....	5	12	3	60	.....	55
.....	1	8	33	1	9	77	.....	.....	.....	15	1	26	1	56
1	.....	1	33	.....	18	10	1	.....	.....	4	.....	6	1	57
.....	(2)	1,116	681	173	9,171	224	52	.....	137	2,905	9	698	.....	58
.....	20	408	791	6	8,658	1,089	.....	.....	.....	3,339	1	427	3	59
2	.....	5,200	404	.....	9,526	606	40	.....	.....	1,552	.....	748	10	60
.....	(2)	140,150	4,475	4,418	229,580	12,470	3,360	.....	6,325	107,230	875	35,090	.....	61
.....	1,800	58,500	15,024	600	200,607	44,610	.....	.....	.....	71,250	20	28,964	35	62
50	.....	520,000	9,935	.....	169,213	18,256	110	.....	.....	23,840	.....	32,230	160	63
.....	(2)	15	30	76	47	39	23	.....	38	45	12	21	.....	64
.....	11	9	34	12	49	29	.....	.....	.....	166	6	18	6	65
10	.....	16	22	.....	45	30	40	.....	.....	39	.....	56	50	66
.....	.....	.....	27	85	25	47	23	.....	38	.....	.....	22	.....	67
3	22	[3] 1	2	7	9	15	2	.....	9	8	8	16	.....	68
53,192	56,730	55,030	(2)	11,653	35,383	36,263	(2)	.....	28,280	231,611	25,862	21,389	.....	69
28,165	16,807	57,753	(2)	7,771	73,223	137,129	(2)	.....	2,759	154,436	7,064	9,842	.....	70
32	123	120	(2)	43	89	77	(2)	.....	13	180	5	31	.....	71

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[6] Includes siphons and farm pipe lines reported.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	*52,552,320	52,335,360	52,335,360	52,335,360	52,335,360	52,335,360	52,335,360
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	156,327	174,589	166,042	165,286	177,841	173,098	166,617
Land in all farms.....acres....	48,173,635	48,009,770	46,975,647	45,425,179	43,384,799	41,662,970	30,214,456
Farms irrigated:[1]							
Farms.....number...	1,578	1,331	683	504	1,006	929	519
Increase or decrease (-) over preceding census....percent..	[2] 131.0	.....	35.5	-49.9	8.3	79.0	.....
Proportion of all farms.....percent..	1.0	0.8	0.4	0.3	0.6	0.5	0.3
Land in farms.....acres....	871,189	(3)	311,174	(3)	(3)	(3)	(3)
Proportion of all farm land.....percent..	1.8	(3)	0.7	(3)	(3)	(3)	(3)
Area irrigated.....acres....	[4] 82,872	[5] 44,835	[6] 56,939	(7)	(7)	23,620	20,818
Increase or decrease (-) over preceding census....percent..	[2] 45.5	.....	.....	.....	.....	13.5	.....
Proportion of total land area of State.....percent..	0.2	0.1	0.1	.....	.....	(8)	(8)
Proportion of all farm land.....percent..	0.2	0.1	0.1	.....	.....	0.1	0.1
Value of irrigated farms (land and buildings).....dollars..	22,721,389	(3)	12,294,425	(3)	(3)	(3)	(3)
Average per farm.....dollars..	14,398.85	(3)	18,000.62	(3)	(3)	(3)	(3)
Average per acre.....dollars..	26.08	(3)	39.51	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8].....dollars..	1,992,911	(3)	800,644	(3)	(3)	(3)	(3)
Average per farm[8].....dollars..	1,262.93	(3)	1,172.25	(3)	(3)	(3)	(3)
Average per acre[8].....dollars..	2.29	(3)	2.57	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	1,066	(3)	300	209	716	(3)	(3)
Farms irrigated.....number...	1,513	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated.....acres....	99,980	(3)	71,290	47,312	37,479	(3)	(3)
Area existing works were capable of supplying with water.....acres....	142,409	(3)	83,583	67,853	139,995	(3)	(3)
Area irrigable.....acres....	147,226	(3)	95,719	[9] 102,562	[9] 161,300	(3)	(3)
Additional area existing works were capable of supplying with water.....acres....	42,429	(3)	12,293	20,541	102,516	(3)	(3)
Additional irrigable area in enterprises not supplied with water.....acres....	47,246	(3)	24,429	[9] 55,250	[9] 123,821	(3)	(3)
Investment in irrigation enterprises.....dollars..	2,153,886	(3)	1,685,652	2,067,381	1,365,563	529,755	84,729
Increase or decrease (-) over preceding census.....percent..	[2] 27.8	(3)	-18.5	51.4	157.8	525.2	.....
Average per acre based on area works were capable of supplying with water.....dollars..	15.12	(3)	20.17	30.47	9.75	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] -25.0	(3)	-33.8	212.5	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	2,255,579	(3)	1,723,872	2,195,981	1,365,563	(3)	(3)
Average per acre based on irrigable area in enterprises.....dollars..	15.32	(3)	18.01	[9] 21.41	[9] 8.47	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	2.59	(3)	1.53	3.29	1.59	(3)	(3)

[1] Relates to farms reporting irrigated cropland harvested and or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 3,227 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. * The land area shown for 1940 represents recalculations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	156,327	48,173,635	17,816,498	79,645	3,227	1,421,387,464	29.51	257,831,772	5.35	115,262,686	2.39
Owners and managers.....	86,105	28,983,678	10,028,004	45,206	2,477	863,324,926	29.79	170,844,017	5.89	69,516,450	2.40
Tenants.....	70,222	19,189,957	7,788,494	34,439	750	558,062,538	29.08	86,987,755	4.53	45,746,236	2.38
Irrigated farms, total.....	1,578	871,189	202,911	79,645	3,227	22,721,389	26.08	3,942,540	4.53	1,992,911	2.29
Owners and managers.....	1,031	656,836	138,391	45,202	2,477	16,409,622	24.98	3,122,435	4.75	1,441,795	2.20
Tenants.....	547	214,353	64,520	34,443	750	6,311,767	29.45	820,105	3.83	551,116	2.57
Wholly irrigated farms.....	639	177,112	45,151	45,151	2,007	5,925,660	33.46	1,209,160	6.83	553,711	3.13
Owners and managers.....	352	104,390	21,870	21,870	1,643	3,625,873	34.73	891,605	8.54	331,396	3.17
Tenants.....	287	72,722	23,281	23,281	364	2,299,787	31.62	317,555	4.37	222,315	3.06
Partly irrigated farms.....	939	694,077	157,760	34,494	1,220	16,795,729	24.20	2,733,380	3.94	1,439,200	2.07
Owners and managers.....	679	552,446	116,521	23,332	834	12,783,749	23.14	2,230,830	4.04	1,110,399	2.01
Tenants.....	260	141,631	41,239	11,162	386	4,011,980	28.33	502,550	3.55	328,801	2.32
Nonirrigated farms, total.....	154,749	47,302,446	17,613,587	.....	.....	1,398,666,075	29.57	253,889,232	5.37	113,269,775	2.39

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting —			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929–39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	Acres	Acres	Acres	Acres	Acres	Percent	Acres	Acres	Acres	Acre-feet	Dollars	Dollars
Total	1,066	147,226	142,409	99,980	71,290	47,312	40.2	93,008	99,033	92,315	1.7	2.71	1.57
Primary sources:													
Streams, gravity	15	57,558	57,558	40,902	53,196	30,607	-23.1	38,747	40,862	38,747	1.2	0.93	0.80
Streams, pumped	210	13,540	12,344	8,279	3,216	730	157.4	7,176	8,032	7,079	1.4	3.66	2.57
Streams, gravity and pumped	1	(2)	(2)	(2)	.....	600	.....	(2)	(2)	(2)	(2)	(2)	(2)
Wells, pumped	706	67,162	63,876	44,972	11,648	13,235	286.1	44,136	44,432	43,660	1.6	3.34	2.09
Wells, flowing	5	53	53	26	3	.....	766.7	26	26	26	1.0	5.77	5.56
Wells, pumped and flowing	2	(2)	(2)	(2)	.....	50	.....	(2)	(2)	(2)	(2)	(2)	(2)
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	3	78	78	38	.....	.....	.....	38	38	38	0.4	5.26	11.76
Springs	1	(2)	(2)	(2)	155	.....	.....	.....	(2)	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	2	(2)	(2)	(2)	225	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
City water	4	837	837	32	31	.....	3.2	32	29	29	1.4	17.83	13.61
Sewage	3	153	153	138	.....	.....	.....	43	138	43	4.5	0.47	0.10
Streams, gravity; wells, pumped	8	3,183	3,183	2,443	405	1,540	503.2	61	2,413	31	1.3	4.06	3.06
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	19	3,474	3,419	2,632	.....	.....	.....	2,532	2,565	2,465	2.8	4.71	1.69
Waste water, seepage or drainage	2	(2)	(2)	(2)	.....	.....	.....	(2)	.....	.....	.....	.....	.....
Other mixed	7	348	288	146	53	350	175.5	108	146	108	0.6	4.09	6.41
Other and not reported	.....	.....	.....	.....	2,358	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	1	(4)	(4)	(4)	.....	.....	.....	(4)	(4)	(4)	(2)	(2)	(2)
Streams, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	77	19,058	18,926	13,429	1,050	.....	1,179.0	13,031	13,391	13,031	2.0	2.19	1.08
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms, the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [3] Areas included under "Supplemental sources" are parts of areas included under "Primary sources" and therefore are not again added into the totals (see text). [4] Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930–40	1939		1929		Average per acre increase or decrease (-) 1930–40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting
	Dollars	Percent	Dollars	Dollars	Percent	Dollars	Dollars	Acres	Dollars	Acres	Dollars	Dollars	Acres
Total	2,153,886	100.0	15.12	1,685,652	100.0	20.17	-5.05	99,033	2.59	64,983	1.53	1.06	28,583
Primary sources:													
Streams, gravity	596,206	27.7	10.36	746,401	44.3	12.98	-2.62	40,862	0.80	50,805	0.84	-0.04	17,957
Streams, pumped	167,340	7.8	13.56	176,378	10.5	43.98	-30.42	8,032	3.60	2,613	3.43	0.17	545
Streams, gravity and pumped	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	600
Wells, pumped	1,015,070	47.1	15.89	604,328	35.9	33.44	-17.55	44,432	3.35	10,954	3.69	-0.34	8,481
Wells, flowing	2,250	0.1	42.45	800	(4)	266.67	-224.22	26	5.77	3	16.67	-10.90	.....
Wells, pumped and flowing	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
Lakes, pumped	2,375	0.1	30.45	.....	.....	.....	.....	38	5.26	.....	.....	.....	.....
Springs	(3)	(3)	(3)	5,100	0.3	30.36	(3)	(3)	(3)	150	1.33	(3)	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	(3)	(3)	(3)	20,000	1.2	33.33	(3)	(3)	(3)	.....	.....	.....	.....
City water	17,150	0.8	20.49	3,675	0.2	118.55	-98.06	29	17.83	.....	.....	.....	.....
Sewage	1,000	(4)	6.54	.....	.....	.....	.....	138	1.41	.....	.....	.....	.....
Streams, gravity; wells, pumped	15,622	0.7	4.91	30,010	1.8	37.51	-32.60	2,413	1.00	405	10.12	-9.12	620
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	59,003	2.7	17.26	.....	.....	.....	.....	2,565	4.72	.....	.....	.....	.....
Waste water, seepage or drainage	(3)	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other mixed	17,400	0.8	60.42	1,400	0.1	26.42	34.00	146	4.75	53	4.72	0.03	230
Other and not reported	.....	.....	.....	54,450	3.2	23.09	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[5]													
Streams, gravity and/or storage	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....
Streams, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	256,095	11.9	13.53	43,110	2.5	37.10	-23.57	13,391	2.21	1,050	2.40	-0.19	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [4] Less than one-tenth of 1 percent. [5] Areas included under "Supplemental sources" are parts of areas included under "Primary sources" and therefore are not again added into the totals (see text). [6] Data are not shown because less than 3 enterprises reported in the 1940 Census.

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STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	99,980	13,666	71,290	47,312	40.2
Individual and partnership	58,255	12,751	16,689	14,546	249.1
Cooperative, incorporated	39,328	915	37,871	32,516	3.8
Cooperative, unincorporated					
Commercial	(2)	.....	16,000	150	.....
Bureau of Reclamation[3] [5]	.....	.....	.....	.....	.....
State	538	.....	730	100	-26.3
City and/or sewage	(2)	.....	.....	.....	.....
Other	[2]1,859	.....	.....	.....	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	142,409	19,163	83,583	67,853	70.4
Individual and partnership	83,483	17,978	23,812	26,614	250.6
Cooperative, incorporated	55,923	1,185	41,991	40,719	33.2
Cooperative, unincorporated					

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	(2)	.....	17,000	320	.....
Bureau of Reclamation[3] [5]	.....	.....	.....	.....	.....
State	640	.....	780	200	-17.9
City and/or sewage	(2)	.....	.....	.....	.....
Other	[2]2,363	.....	.....	.....	.....
IRRIGABLE AREA[4]					
Total	147,226	19,377	95,719	102,562	53.8
Individual and partnership	88,300	18,110	26,839	36,643	229.0
Cooperative, incorporated	55,923	1,267	50,600	65,399	10.5
Cooperative, unincorporated					
Commercial	(2)	.....	17,000	320	.....
Bureau of Reclamation[3] [5]	.....	.....	.....	.....	.....
State	640	.....	1,280	200	-50.0
City and/or sewage	(2)	.....	.....	.....	.....
Other	[2]2,363	.....	.....	.....	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data for 1 "Commercial" and 1 "City and/or sewage" enterprises are included with "Other" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] For 1920 relates to total area. Irrigable area for that year was not reported. [5] For explanation of areas, see text, p. 273.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940, AND AREA IRRIGATED, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	Serving 5 or more farms	AREAS Irrigable	Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	Primary enterprises: Maintenance and operation per acre[3]	Supplemental enterprises: Works and equipment per acre[2]	Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
Total	*Number* 1,066	*Number* 9	*Acres* 147,226	*Acres* 142,409	*Dollars* 12.72	*Dollars* 2.29	*Dollars* 13.38	*Dollars* 2.18	*Number* 1,513	*Acres* 99,980	*Acres* 85,139	*Acres* 11,386	*Acres* 3,455
Individual and partnership	1,044	.....	88,300	83,483	15.02	3.34	13.24	1.98	980	58,255	50,952	4,254	3,049
Cooperative, incorporated	13	8	55,923	55,923	9.03	0.84	15.44	4.88	507	39,328	32,441	6,807	80
Cooperative, unincorporated	2	.....											
Commercial	1	1	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	(4)	(4)
U. S. Bureau of Reclamation[5]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	4	.....	640	640	38.29	3.26	.....	.....	4	538	487	25	26
City and/or sewage	1	.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	(4)	(4)
Other	1	.....	[4]2,363	[4]2,363	[4]11.38	[4]0.56	.....	.....	[4]22	[4]1,859	[4]1,259	[4]300	[4]300

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "Commercial" and 1 "City and/or sewage" enterprises are included with "Other" enterprises in the 1940 Census. [5] For explanation of areas and investment, see text, p. 273.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	*Dollars* 2,153,886	*Dollars* 1,896,991	*Dollars* 256,895	*Dollars* 2,067,284	*Dollars* 86,602	*Dollars* 1,685,652	*Dollars* 2,067,381	*Percent* 27.8	*Dollars* 13.32	*Dollars* 13.41	*Dollars* 2,235	*Dollars* 101,693
Individual and partnership	1,494,396	1,256,301	238,095	1,492,014	2,082	875,951	775,095	70.6	15.05	13.24	.....	100,993
Cooperative, incorporated	600,082	581,282	18,800	523,562	76,520	242,001	1,289,737	148.0	10.40	15.86	2,235	700
Cooperative, unincorporated											.....	.....
Commercial	(2)	(2)	.....	(2)	(2)	520,000	1,549	.....	(2)	.....	.....	.....
U. S. Bureau of Reclamation[5]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	24,508	24,508	.....	24,508	.....	47,700	1,000	-48.6	38.29	.....	.....	.....
City and/or sewage	(2)	(2)	.....	(2)	(2)	.....	.....	.....	(2)	.....	.....	.....
Other	[2]34,900	[2]34,900	.....	[2]26,900	[2]8,000	.....	.....	.....	[2]14.77	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "Commercial" and 1 "City and/or sewage" enterprises are included with "Other" enterprises in the 1940 Census. [5] For explanation of investment, see text, p. 273.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE: CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	7	40,423	40,423	43,775	1.10	1.08	1	(3)	(3)	(3)	56,719	43,166	31,346
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, incorporated	6	[4] 40,423	[4] 40,423	[4] 43,775	[4] 1.10	[4] 1.08	1	(3)	(3)	(3)	[4] 56,719	[4] 43,166	[4] 31,346
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Commercial	1	(4)	(4)	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	(4)
Bureau of Reclamation[5] *	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. No supplemental enterprises reported indebtedness, arrearage, or charges in this State. [2] In payment of principal, interest, and/or other funded obligations. [3] Data are not shown because less than 3 enterprises reported. [4] Data for 1 "Commercial" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [5] U. S. Dept. of the Interior. * For explanation of areas and investment, see text, p. 273.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	99,033	227,076	13,628	29,689	2.29	2.18	9	16,235	75
Individual and partnership	57,308	191,450	12,713	25,228	3.34	1.98	.....	.....	.....
Cooperative, incorporated	39,328	32,839	915	4,461	0.84	4.88	8	[2] 16,235	[2] 75
Cooperative, unincorporated							.....	.....	.....
Commercial	(3)	(3)	.....	.....	(3)	.....	1	(2)	(2)
U. S. Bureau of Reclamation*	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	538	1,752	.....	.....	3.26	.....	.....	.....	.....
City and/or sewage	(3)	(3)	.....	.....	(3)	.....	.....	.....	.....
Other	[3] 1,859	[3] 1,035	.....	.....	[3] 0.56	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "Commercial" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [3] Data for 1 "Commercial and 1 "City and/or sewage" enterprises are included with "Other enterprises in the 1940 Census. * For explanation of areas and investment, see text, p. 273.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	102	40	3,347	292	0.5	80	32,584	24.1	24	1,453	[3] 1,638	863,663	1,222	26,796	1,259	1,231,482
Individual and partnership	94	38	1,085	59	0.5	76	7,479	22.7	24	1,453	1,617	846,113	1,203	25,924	1,239	1,208,282
Cooperative, incorporated	8	1	2,186	220	.....	1	25,000	.....	....	.....	9	12,950	9	530	9	12,950
Cooperative, unincorporated	.....	.....	4	1	.....	.....	.....	1.2	....	.....	.....	.....	.....	.....	.....	.....
Commercial	.....	.....	60	7	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[4] *	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
State	.....	1	11	5	.....	3	105	0.2	....	.....	9	3,800	6	302	7	9,200
City and/or sewage	.....	.....	1	.....	.....	.....	.....	.....	....	.....	.....	.....	1	10	1	250
Other	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	3	800	3	30	3	800

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] Includes batteries of wells pumped by one pump. [4] U. S. Dept. of the Interior. * For explanation of areas and investment, see text, p. 273.

BUREAU OF RECLAMATION ACTIVITIES

The United States Bureau of Reclamation constructed the Garden City Project to serve 10,677 acres of irrigable land in Finney and Kearny Counties in 1906-08. Pumped shallow wells near the Arkansas River and the natural flow of that stream served as the sources of water supply. Due to a series of wet years, interest in irrigation dwindled and the project was abandoned as a Federal undertaking in 1910.

With the droughts of the decade from 1930 to 1939 seriously affecting agricultural production in Kansas and other States of the high plains, much of the area of the former Garden City Project has been irrigated through rehabilitated works. The demand for water conservation and irrigation has extended to other parts of western Kansas. Therefore, the Bureau of Reclamation is at this time engaged in extensive investigations of potential projects in the drainage basins of the Arkansas, Republican, Smoky Hill, and Solomon Rivers.

The Land-Use Committee of the National Resources Board in 1934 estimated that, if adequately conserved, sufficient water could be made available for the irrigation of 1,250,000 acres of land in Kansas.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	102	40	27	7
Concrete or masonry	16	8	14	2
Timber	4	1	3	.....
Earth and rock	65	22	.....	3
Other and mixed	[1] 15	1	[1] 9	1
Not reported	2	8	1	1

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	1,259	100.0	1,231,482	100.0	35
Electric motor	**407**	**32.3**	**421,100**	**34.2**	**33**
Centrifugal	313	24.9	328,300	26.6	24
Turbine	84	6.7	89,470	7.3	69
Plunger	8	0.6	1,230	0.1	32
Other	2	0.1	2,100	0.2	30
Internal-combustion engine	**785**	**62.3**	**770,807**	**62.6**	**36**
Centrifugal	577	45.8	557,927	45.3	27
Turbine	200	15.9	207,765	16.9	61
Plunger	4	0.3	265	([1])	25
Other	4	0.3	4,850	0.4	20
Other kinds of motive power	**21**	**1.7**	**7,060**	**0.6**	**41**
Centrifugal	4	0.3	4,300	0.3	23
Turbine	1	0.1	1,500	0.1	45
Plunger	15	1.2	360	([1])	54
Other	1	0.1	900	0.1	15
Mixed kinds of motive power	**46**	**3.7**	**32,515**	**2.6**	**30**
Centrifugal	37	3.0	26,650	2.2	27
Turbine	5	0.4	5,450	0.4	44
Plunger	4	0.3	415	([1])	34
Other	.....	.....	.....	.....	.....
Total, 1930	312	.....	393,526	.....	26
Increase or decrease (-) 1930-1940	947	.....	837,956	.....	9

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	1,222	100.0	26,796	100.0
Centrifugal pump	**853**	**69.8**	**15,499**	**57.8**
Electric	320	26.2	4,902	18.3
Internal-combustion	529	43.3	10,512	39.2
Other	4	0.3	85	0.3
Turbine pump	**258**	**21.1**	**9,060**	**33.8**
Electric	80	6.5	2,941	11.0
Internal-combustion	177	14.5	6,094	22.7
Other	1	0.1	25	0.1
Plunger pump	**26**	**2.1**	**87**	**0.4**
Electric	8	0.7	50	0.2
Internal-combustion	4	0.3	20	0.1
Other	14	1.1	17	0.1
Other and mixed types of pumps	**85**	**7.0**	**2,150**	**8.0**
Electric	20	1.7	275	1.0
Internal-combustion	60	4.9	1,810	6.8
Other	5	0.4	65	0.2
Total, 1930	[2] 281	.....	6,221	.....
Increase or decrease (-) 1930-1940	941	.....	20,575	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930	
	Miles	*Miles*	*Percent*
Total	24.1	16.1	49.7
Concrete:			
1 to 12 inches	0.6	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	0.5	.....	.....
Metal:			
1 to 12 inches	20.8	16.1	29.2
13 to 24 inches	0.9	.....	.....
Over 24 inches	.....	.....	.....
Wood-stave:			
1 to 12 inches	.....	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Clay and other:			
1 to 12 inches	0.5	.....	.....
13 to 24 inches	0.2	.....	.....
Over 24 inches	0.6	.....	.....

[1] Includes siphons and farm pipe lines reported.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	44	11	5
Area irrigable in these enterprises.....acres....	3,507	651	[1]3,610
Area irrigated in these enterprises.....acres....	2,093	([2])	([2])
Area for which drains have been installed.....acres....	2,552	336	250
Additional area needing drainage.....acres....	240	157	1,320
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	121.9	[3]51.6	[1]6.9
(b) All irrigation enterprises.....percent..	2.6	0.5	0.5
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	79.6	75.7	[1]43.5
(b) Irrigated area reporting.....percent..	133.4	([2])	([2])

[1]For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2]Not available. [3]Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED			NOT MEASURED		
	1939	1929[1]	1919[2]	1939[2]	1929[1]	1919[2]	1939	1929[1]	1919[2]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	51,379	.....	35,139	20,453	.....	18,402	30,926	.....	16,737
Area irrigated by these enterprises.....acres.....	36,879	.....	21,210	17,062	.....	20,235	19,817	.....	975
Average water per acre irrigated.....acre-feet..	1.4	.....	1.7	1.2	.....	0.9	1.6	.....	17.2
Total water delivered to irrigators.....acre-feet..	60,055	.....	14,275	37,073	.....	13,718	22,982	.....	557
Area irrigated by these enterprises.....acres.....	47,483	.....	20,855	28,079	.....	20,055	19,404	.....	800
Average water per acre irrigated.....acre-feet..	1.3	.....	0.7	1.3	.....	0.7	1.2	.....	0.7
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	73,986	.....	.....	.....	.....	.....	73,986	.....	.....
Area irrigated by these enterprises.....acres.....	45,525	.....	.....	.....	.....	.....	45,525	.....	.....
Average water per acre irrigated.....acre-feet..	1.6	.....	.....	.....	.....	.....	1.6	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	40	.....	.....	.....	.....	.....	40	.....	.....
Area irrigated by these enterprises.....acres.....	237	.....	.....	.....	.....	.....	237		
Average water per acre irrigated.....acre-feet..	0.2	.....	.....	.....	.....	.....	0.2	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	26,424	.....	.....	.....	.....	.....	26,424	.....	.....
Area irrigated by these enterprises.....acres.....	13,031	.....	.....	.....	.....	.....	13,031	.....	.....
Average water per acre irrigated.....acre-feet..	2.0	.....	.....	.....	.....	.....	2.0	.....	.....

[1]Not reported. [2]Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	99,980	100.0	13,666	71,290	100.0	47,312	100.0
Appropriation[2].....	15,440	15.4	237	40,540	56.9	30,653	64.8
Riparian.....	2,662	2.7	.....	46	0.1	30	0.1
Appropriation and riparian.....	1,903	1.9	.....	.....	.....	.....	.....
Underground.....	44,763	44.8	13,429	11,644	16.3	13,480	28.5
Appropriation and underground..	427	0.4	.....	.....	.....	.....	.....
Riparian and underground.....	248	0.2	.....	.....	.....	.....	.....
Adjudicated by court.....	28,079	28.1	.....	12,660	17.7	458	0.9
Other mixed and not reported...	6,458	6.5	.....	6,400	9.0	2,691	5.7

[1]Irrigated areas shown under "Supplemental enterprises" are parts or irrigated areas in "Primary enterprises" (see text). [2]"Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	988	33	911	35	3	4	2
2	Irrigated farms, 1939.....number...	1,513	.....	911	77	45	247	233
3	Area irrigated, 1939.....acres....	99,980	.....	53,867	4,997	6,354	34,762	
4	(a) From which crops were harvested.....acres....	85,139	.....	46,972	4,528	5,289	28,350	
5	(b) On which crops failed.....acres....	11,386	.....	3,907	372	745	6,362	
6	(c) Irrigated pasture.....acres....	3,455	.....	2,988	97	320	50	
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	1,896,991	25,094	1,189,513	81,102	62,180	539,102	
8	(a) Cost of irrigation works and equipment.....dollars..	1,810,889	25,094	1,187,489	81,044	53,160	464,102	
9	(b) Investment in water rights.....dollars..	86,102	.....	2,024	58	9,020	75,000	
10	Area works were capable of supplying with water.....acres....	142,409	2,343	75,843	6,800	7,317	50,106	
11	Average investment per acre irrigated.....dollars..	18.97	.....	22.00	16.23	9.79	15.51	
12	Average investment per acre which the works could supply with water.....dollars..	13.32	10.71	15.62	11.93	8.50	10.76	
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	935	18	873	35	3	6	
14	(a) Area irrigated in these enterprises.....acres....	99,033	.....	52,920	4,997	6,354	34,762	
15	(b) Cost of maintenance and operation.....dollars..	227,076	176	181,788	11,745	2,675	30,692	
16	(c) Average cost per irrigated acre reporting.....dollars..	2.29	.....	3.41	2.35	0.42	0.88	
17	Total annual charges[2].....dollars..	43,166	.....	.....	.....	4,260	38,906	
18	Average charge per irrigated acre reporting.....dollars..	1.05	.....	.....	.....	0.67	1.12	
19	Area against which charges were assessed.....acres....	56,719	.....	.....	.....	6,817	49,902	
20	Average annual charge per acre assessed.....dollars..	0.76	.....	.....	.....	0.62	0.78	
21	Total charges collected[2].....dollars..	31,346	.....	.....	.....	4,494	26,852	
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3].....number...	7	.....	.....	.....	2	4	1
23	(a) Area irrigated in these enterprises.....acres....	31,579	.....	.....	.....	(4)	17,700	(4)
24	(b) Indebtedness.....dollars..	43,775	.....	.....	.....	(4)	14,300	(4)
25	(c) Average indebtedness per acre irrigated.....dollars..	1.39	.....	.....	.....	(4)	0.81	(4)
26	(d) Cost of irrigation works and equipment.....dollars..	464,611	.....	.....	.....	(4)	92,201	(4)
27	(e) Investment in water rights.....dollars..	84,000	.....	.....	.....	(4)	.....	(4)
28	(f) Total investment.....dollars..	548,611	.....	.....	.....	(4)	92,201	(4)
29	(g) Maintenance and operation.....dollars..	22,481	.....	.....	.....	(4)	13,306	(4)
30	(h) Total annual charges[2].....dollars..	35,766	.....	.....	.....	(4)	18,006	(4)
31	(i) Total charges collected[2].....dollars..	15,246	.....	.....	.....	(4)	11,252	(4)
32	(j) Area against which annual charges were assessed.....acres....	39,719	.....	.....	.....	(4)	24,902	(4)
33	(k) Average indebtedness per acre assessed.....dollars..	1.10	.....	.....	.....	(4)	0.57	(4)
34	(l) Average charges per acre assessed.....dollars..	0.90	.....	.....	.....	(4)	0.72	(4)
35	(m) Average charges per acre irrigated.....dollars..	1.13	.....	.....	.....	(4)	1.02	(4)
36	Enterprises reporting arrearage[3].....number...	[5]1	.....	.....	.....	[5]1	.....	.....
	TYPE, 1940							
37	Individual and partnership.....number...	972	33	904	35	.....	.....	.....
38	Cooperative (incorporated and unincorporated).....number...	9	.....	1	.....	2	4	2
39	Commercial.....number...	1	.....	.....	.....	1	.....	.....
40	All other.....number...	6	.....	6	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
41	Enterprises reporting pay roll.....number...	9	.....	.....	.....	3	6	
42	Wages and salaries paid and payable for 1939.....dollars..	16,235	.....	.....	.....	1,942	14,293	
43	Persons employed during week ending April 29, 1939.....number...	75	.....	.....	.....	7	68	
	SOURCE OF WATER SUPPLY, 1939							
44	Streams, gravity.....number...	15	.....	8	.....	2	3	2
45	Streams, pumped.....number...	210	1	207	2	.....	.....	.....
46	Wells, pumped.....number...	706	30	645	31	.....	.....	.....
47	Wells, pumped and flowing; or wells flowing.....number...	7	.....	7	.....	.....	.....	.....
48	Lakes, gravity or pumped.....number...	3	.....	3	.....	.....	.....	.....
49	Streams and springs; or springs.....number...	1	.....	.....	1	.....	.....	.....
50	Mixed, streams and wells.....number...	28	.....	26	.....	1	1	.....
51	Other mixed or stored storm water.....number...	18	2	15	1	.....	.....	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	78	5	55	18	.....	.....	.....
2	Irrigated farms, 1939.....number...	94	.....	55	39	.....	.....	.....
3	Area irrigated, 1939.....acres....	13,666	.....	8,556	5,110	.....	.....	.....
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..	256,895	9,610	184,485	62,800	.....	.....	.....
5	(a) Cost of irrigation works and equipment.....dollars..	256,395	9,610	184,485	62,300	.....	.....	.....
6	(b) Investment in water rights.....dollars..	500	.....	.....	500	.....	.....	.....
7	Area works were capable of supplying with water.....acres....	19,163	815	11,917	6,431	.....	.....	.....
8	Average investment per acre irrigated.....dollars..	18.80	.....	21.56	12.29	.....	.....	.....
9	Average investment per acre which the works could supply with water.....dollars..	13.41	11.79	15.48	9.77	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
33	778	138	32	4	3	938	42	7	1	1
.....	799	151	103	129	331	943	143	327	100	2
.....	22,453	22,415	16,333	13,717	25,062	47,853	13,474	38,653		3
.....	20,352	19,594	13,326	11,917	19,950	41,414	11,784	31,941		4
.....	1,510	1,783	1,531	1,500	5,062	3,822	1,202	6,362		5
.....	591	1,038	1,476	300	50	2,617	488	350		6
25,094	710,366	379,275	193,505	111,850	476,901	973,084	288,596	635,311		7
25,094	708,755	378,862	193,427	102,850	401,901	971,053	288,525	551,311		8
.....	1,611	413	78	9,000	75,000	2,031	71	84,000		9
2,343	35,575	29,221	20,847	17,423	37,000	69,340	18,132	54,937		10
.....	31.64	16.92	11.85	8.15	19.03	20.33	21.42	16.44		11
10.71	20.00	12.98	9.28	6.42	12.89	14.03	15.92	11.56		12
18	742	136	32	4	3	885	42	8		13
.....	21,796	22,125	16,333	13,717	25,062	46,906	13,474	38,653		14
176	94,175	61,984	39,580	9,575	21,586	153,889	35,926	37,261		15
.....	4.32	2.80	2.42	0.70	0.86	3.28	2.67	0.96		16
.....	.....	.....	2,000	16,066	25,100	.....	8,306	34,860		17
.....	.....	.....	0.86	1.17	1.00	.....	1.96	0.95		18
.....	.....	.....	2,800	16,919	37,000	.....	4,902	51,817		19
.....	.....	.....	0.71	0.95	0.68	.....	1.69	0.67		20
.....	.....	.....	1,552	9,994	19,800	.....	1,552	29,794		21
.....	.....	.....	1	4	2	.....	2	4	1	22
.....	.....	.....	(4)	13,717	(4)	.....	(4)	19,817	(4)	23
.....	.....	.....	(4)	3,675	(4)	.....	(4)	15,075	(4)	24
.....	.....	.....	(4)	0.27	(4)	.....	(4)	0.76	(4)	25
.....	.....	.....	(4)	102,850	(4)	.....	(4)	127,410	(4)	26
.....	.....	.....	(4)	9,000	(4)	.....	(4)	9,000	(4)	27
.....	.....	.....	(4)	111,850	(4)	.....	(4)	136,410	(4)	28
.....	.....	.....	(4)	9,575	(4)	.....	(4)	12,375	(4)	29
.....	.....	.....	(4)	16,066	(4)	.....	(4)	13,960	(4)	30
.....	.....	.....	(4)	9,994	(4)	.....	(4)	14,194	(4)	31
.....	.....	.....	(4)	16,919	(4)	.....	(4)	26,817	(4)	32
.....	.....	.....	(4)	0.22	(4)	.....	(4)	0.56	(4)	33
.....	.....	.....	(4)	0.95	(4)	.....	(4)	0.52	(4)	34
.....	.....	.....	(4)	1.17	(4)	.....	(4)	0.70	(4)	35
.....	.....	.....	.....	[5]1	.....	.....	.....	[5]1	.....	36
33	774	135	30	.....	.....	935	35	2	.....	37
.....	1	.....	2	3	3	.....	4	4	1	38
.....	.....	.....	.....	1	.....	.....	.....	1	.....	39
.....	3	3	.....	.....	.....	3	3	.....	.....	40
.....	.....	.....	6		3	.....	3	6		41
.....	.....	.....	6,416		9,819	.....	2,424	13,811		42
.....	.....	.....	52		23	.....	41	34		43
.....	3	4	1	4	3	8	1	5	1	44
1	191	15	3	.....	.....	204	6	.....	.....	45
30	541	110	25	.....	.....	675	30	1	.....	46
.....	7	.....	.....	.....	.....	7	.....	.....	.....	47
.....	3	.....	.....	.....	.....	3	.....	.....	.....	48
.....	.....	1	.....	.....	.....	1	.....	.....	.....	49
.....	17	8	3	.....	.....	25	2	1	.....	50
2	16	.....	.....	.....	.....	15	3	.....	.....	51

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
5	21	39	13	.....	.....	62	15	1	.....	1
.....	24	49	21	.....	.....	72	21	1	.....	2
.....	992	6,475	6,199	.....	.....	8,241	5,425		.....	3
9,610	35,085	122,050	90,150	.....	.....	140,945	115,950		.....	4
9,610	35,085	121,550	90,150	.....	.....	140,445	115,950		.....	5
.....	.....	500	.....	.....	.....	500	.....		.....	6
815	2,230	8,729	7,389	.....	.....	12,457	6,706		.....	7
.....	45.06	18.85	14.54	.....	.....	17.10	21.37		.....	8
11.79	15.73	13.98	12.20	.....	.....	11.31	17.29		.....	9

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Data are not shown because less than 3 enterprises reported.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
10	Enterprises reporting maintenance and operation.....number...	76	4	54	18	.....	.....	.....
11	(a) Area irrigated in these enterprises.....acres....	13,628	.....	8,518	5,110	.....	.....	.....
12	(b) Cost of maintenance and operation.....dollars..	29,689	33	21,621	8,035	.....	.....	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	2.18	.....	2.54	1.57	.....	.....	.....
	TYPE, 1940							
14	Individual and partnership.....number...	72	5	51	16	.....	.....	.....
15	Cooperative (incorporated and unincorporated).....number...	6	.....	4	2	.....	.....	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
16	Streams, pumped.....number...	.....	.....	.....	.....	.....	.....	.....
17	Wells, pumped or flowing.....number...	77	5	55	17	.....	.....	.....
18	Streams, gravity or storage.....number...	1	.....	.....	1	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939								TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Kansas River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Wray, Colo.	Yuma	3,512	13.02	-5.35	0.28	-1.87	3.18	+1.59	5.81	-2.20	3.75	-2.87	50.9	([2])
Goodland	Sherman	3,685	16.16	-2.54	0.45	-2.20	4.90	+3.22	6.16	-1.55	4.65	-2.01	55.0	+3.6
McCook, Nebr.	Red Willow	2,506	13.90	-5.74	0.17	-2.32	2.65	+0.77	7.78	-0.12	3.30	-4.07	55.5	+3.4
Hays	Ellis	2,000	15.19	-8.50	0.33	-2.85	2.51	+0.43	7.36	-2.49	4.99	-3.59	57.0	+3.1
Smith Center	Smith	1,800	14.93	-7.00	0.60	-2.29	3.36	+1.46	8.53	-0.63	2.44	-5.54	([2])	([2])
Salina	Saline	1,227	17.51	-9.76	1.67	-2.53	3.75	+0.66	6.05	-4.79	6.04	-3.10	60.0	+4.6
Blue Rapids	Marshall	1,105	27.48	-1.98	2.82	-1.56	3.02	+0.23	15.76	+3.92	5.88	-4.57	([2])	([2])
Lawrence	Douglas	1,018	30.92	-5.81	3.25	-2.96	3.23	-1.54	14.99	+2.23	9.45	-3.54	58.8	+3.8
Arkansas River														
Salida, Colo.	Chaffee	7,035	8.08	-4.25	3.37	+0.92	2.11	+0.13	0.79	-2.29	1.81	-3.01	([2])	([2])
Rocky Ford, Colo.	Otero	4,177	8.83	-3.30	0.92	-0.78	3.22	+2.25	2.70	-2.39	1.99	-2.38	53.5	+1.3
Syracuse	Hamilton	3,227	7.63	-10.04	1.12	-1.16	2.69	+1.02	2.64	-4.06	1.18	-5.84	56.3	([2])
Elkhart	Morton	3,595	11.42	-6.09	1.88	-1.16	2.63	+0.94	5.17	-0.70	1.74	-5.17	57.6	+1.4
Ness City	Ness	2,260	13.72	-7.52	0.33	-2.40	3.94	+1.94	6.31	-2.46	3.14	-4.60	([2])	([2])
Ashland	Clark	1,951	17.01	-7.15	0.77	-3.19	4.14	+1.83	8.54	-0.73	3.56	-5.06	59.6	+2.5
Great Bend	Barton	1,863	18.64	-5.39	0.26	-3.57	3.73	+1.30	8.28	-0.93	6.37	-2.19	([2])	([2])
Winfield	Cowley	1,124	21.50	-11.92	2.85	-3.02	4.11	-0.05	11.08	-1.86	3.46	-6.99	60.9	+3.3
Emporia	Lyon	1,138	22.93	-11.04	2.05	-3.56	4.36	+0.31	9.76	-3.24	6.76	-4.55	58.7	+3.0
Parsons	Labette	898	31.78	-8.85	3.46	-4.09	5.58	-0.56	18.39	+2.56	4.35	-6.76	61.5	+3.2

[1] Departure from normal.

[2] Data not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
4	20	39	13	....	.....	60	16		.....	10
.....	954	6,475	6,199	.....	.....	8,203	5,425		.....	11
33	4,271	14,613	10,772	.....	.....	18,014	11,675		.....	12
.....	4.48	2.26	1.74	.....	.....	2.20	2.15		.....	13
5	19	35	13	.....	.....	57	14	1	.....	14
.....	2	4	.....	.....	.....	5	1	.....	.....	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
5	21	38	13	.....	.....	61	15	1	.....	17
.....	.....	1	.....	.....	.....	1	.....	.....	.....	18

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

The year of 1939 was the third mildest and fifth driest year Kansas had experienced in the 53 years State-wide records have been kept. Only two months averaged below normal in temperature and a prolonged drought occurred from the latter part of August until the closing days of December that was the most severe on record for the time of year.

Favorable amounts of moisture, mostly in the form of snow, fell during the first three months. The dry weather the latter part of April and during May was detrimental to the growing wheat. Corn planting and early cultivation of the crop made good progress. The wet weather of June hindered progress of harvest and caused some damage to wheat. Hot, dry winds in July burnt early corn considerably and only the more favorable weather the early part of August produced sufficient development in late corn to produce a crop in eastern Kansas. Corn dried out well during the warm weather in the fall and was cribbed in good condition. Wheat, however, was adversely affected by the extreme dryness and many fields failed to germinate.

The average temperature, 57.8°, was 2.9° above normal and lacked only 0.1° of the average for the year previous and was 0.7° cooler than the warmest year of record, 1934. New high temperature records for the State were established during the months of May, September, October, and December. The only severely cold weather was on February 7-10 and 19-20, the first two days of March, and the closing week of the year. The highest temperature, 116°, was recorded at Burlington on July 21 and the lowest, 18° below zero, occurred at Oberlin on February 10.

Practically every section of Kansas received less than normal precipitation in 1939. The average for the eastern third was 26.54 inches; the middle third, 20.91 inches; the western third, 12.79 inches; and for the State as a whole, 20.08 inches, which is 6.35 inches below normal and 7.21 inches less than was received in 1938. The greatest annual total was 38.33 inches at Oswego and the least, 8.07 inches at Syracuse.

Run-off from the watershed of the Arkansas River in Colorado during the water year 1939 averaged about 71 percent of normal as indicated by the discharges measured by the United States Geological Survey at Canon City and Trinidad, Colorado. The average discharge of the Arkansas River at Syracuse, Kansas, over a period of 18 years (1921-39) is 314 second-feet from a drainage area of 25,000 square miles. The mean discharge at the Syracuse station for the water year 1939 was 112 second-feet or 35.6 percent of the 18-year average. The maximum mean monthly flow was 296 second-feet during March and the minimum was 1.7 second-feet during August at Syracuse, Kansas.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL	MISSISSIPPI RIVER				
				Total	Missouri River		Kansas River	
					Total	Direct[1] (1)	Total	Direct[2] (7)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms	1939...number	1,513	1,470	179	3	176	45
2	Area irrigated	1939...acres	99,980	92,712	4,516	44	4,472	737
3	(a) Cropland harvested	1939...acres	85,139	78,176	3,948	44	3,904	637
4	(b) Crop failure	1939...acres	11,386	11,149	236	.....	236	14
5	(c) Pasture	1939...acres	3,455	3,387	332	.....	332	86
6	Area irrigated	1929...acres	71,290	71,290	1,411	.....	1,394	.....
7		1919...acres	47,312	47,312	773	.....	773	.....
8	Increase or decrease (-), 1929-1939	percent	40.2	30.0	220.1	.....	220.6	.....
9	Irrigable area in enterprises	1940...acres	147,226	136,650	8,700	262	8,438	1,442
10		1930...acres	95,719	95,719	4,358	.....	4,325	.....
11		1920[3]...acres	102,562	102,562	3,580	.....	3,580	.....
12	Excess of irrigable area over the area irrigated	1940...acres	47,246	43,938	4,184	218	3,966	705
13		1930...acres	24,429	24,429	2,947	.....	2,931	.....
14		1920[3]...acres	55,250	55,250	2,807	.....	2,807	.....
15	Area works were capable of supplying with water	1940...acres	142,409	131,993	7,293	67	7,226	1,312
16		1930...acres	83,583	83,583	2,406	.....	2,376	.....
17		1920...acres	67,853	67,853	3,396	.....	3,396	.....
18	Increase or decrease (-), 1930-1940	percent	70.4	57.9	203.1	.....	204.1	.....
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	42,429	39,281	2,777	23	2,754	575
20		1930...acres	12,293	12,293	995	.....	982	.....
21		1920...acres	20,541	20,541	2,623	.....	2,623	.....
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	70.2	70.2	61.9	65.7	61.9	56.2
23		1929...percent	85.3	85.3	58.6	.....	58.7	.....
24		1919...percent	69.7	69.7	22.8	.....	22.8	.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises	1940...dollars	2,153,886	2,053,368	154,280	880	153,400	34,206
26	(a) Cost of irrigation works and equipment	1940...dollars	2,067,284	1,966,774	152,871	880	151,991	33,296
27	(b) Investment in water rights (reported)	1940...dollars	86,602	86,594	1,409	.....	1,409	910
28	Total investment in irrigation enterprises	1930...dollars	1,685,652	1,685,652	72,573	.....	72,173	.....
29		1920...dollars	2,067,381	2,067,381	50,311	.....	50,311	.....
30	Increase or decrease (-), 1930-1940	percent	27.8	21.8	112.6	.....	112.6	.....
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	15.12	15.56	21.15	13.13	21.23	26.07
32		1930...dollars	20.17	20.17	30.16	.....	30.38	.....
33		1920...dollars	30.47	30.47	14.81	.....	14.81	.....
34	Average investment per acre irrigated	1939...dollars	21.54	22.15	34.16	20.00	34.30	46.41
35	Estimated final investment in existing enterprises	1940...dollars	2,255,579	2,151,151	173,210	880	172,330	42,456
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	15.32	15.74	19.91	3.36	20.42	29.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		
37	Enterprises reporting maintenance and operation	1939...number	935	76	899	76	162	3	159	40
38	Area irrigated in these enterprises	1939...acres	99,033	13,628	91,915	13,628	4,138	44	4,094	641
39	Cost of maintenance and operation	1939...dollars	227,076	29,689	208,496	29,689	17,222	270	16,952	3,011
40	Average cost, per acre irrigated	1939...dollars	2.29	2.18	2.27	2.18	4.16	6.14	4.14	4.70
41	Total annual charges (reported)[4] [5]	1939...dollars	43,166	.....	43,166	.....	.....	.....	.....	.....
42	Average annual charge per acre irrigated	1939...dollars	1.05	.....	1.05	.....	.....	.....	.....	.....
43	Area against which charges were assessed	1939...acres	56,719	.....	56,719	.....	.....	.....	.....	.....
44	Average annual charge per acre assessed	1939...dollars	0.76	.....	0.76	.....	.....	.....	.....	.....
45	Total charges collected[4]	1939...dollars	31,346	.....	31,346	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[5]	1939...dollars	43,775	.....	43,775	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered	1939...number	901	70	866	70	169	3	166	42
48	Area irrigated by these enterprises	1939...acres	93,008	13,268	85,740	13,268	4,284	44	4,240	658
49	Water delivered	1939...acre-feet	134,041	26,464	122,849	26,464	5,591	77	5,514	713
50	Average water delivered per acre irrigated	1939...acre-feet	1.4	2.0	1.4	2.0	1.3	1.8	1.3	1.1
51	Average cost of water per acre irrigated	1939...dollars	2.40	2.16	2.38	2.16	4.20	6.14	4.21	4.80
52	Average cost of water per acre-foot delivered	1939...dollars	1.95	1.08	1.66	1.08	3.23	3.51	3.23	4.43
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage	1939...number	44	.....	44	.....	16	.....	16	5
54	Irrigable area in these enterprises	1939...acres	3,507	.....	3,507	.....	616	.....	616	200
55	Irrigated area in these enterprises	1939...acres	2,093	.....	2,093	.....	389	.....	389	100
56	Area for which drains have been installed	1939...acres	2,552	.....	2,552	.....	303	.....	303	102
57	Additional area needing drainage	1939...acres	240	.....	240	.....	168	.....	168	78

[1]Data for 2 enterprises in Osage River Drainage Basin (8) (number refers to separate map) are included with Missouri River "Direct" Drainage Basin (1).
[2]Data for 2 enterprises in Saline River Drainage Basin (6) (number refers to separate map) are included with Kansas River "Direct" Drainage Basin (7).
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

MISSISSIPPI RIVER—Continued													
Missouri River—Continued				Arkansas River								White Woman Creek (independent stream)	
Kansas River—Continued				Total	Direct	Two Butte and Bear Creeks	Pawnee River	Salt Fork Arkansas River	Cimarron River	Neosho River			
Smoky Hill River (5)	Solomon River (4)	Republican River (3)	Big Blue River (2)		(10)	(13)	(11)	(16)	(14)	(9)	(12)		
39	22	58	12	1,291	1,067	3	188	5	22	6	43		1
1,181	905	1,335	314	88,196	73,253	295	12,774	428	1,400	46	7,268		2
1,026	669	1,258	314	74,228	61,209	295	11,272	428	988	36	6,963		3
150	20	52	.....	10,913	9,231	.....	1,290	.....	392	.....	237		4
5	216	25	.....	3,055	2,813	.....	212	.....	20	10	68		5
111	.....	489	.....	69,879	52,988	.....	.....	.....	1,098	.....	.....		6
248	.....	510	.....	46,539	30,130	.....	.....	.....	.....	.....	.....		7
964.0	.....	173.0	.....	26.2	38.2	.....	.....	.....	27.5	.....	.....		8
2,428	1,433	2,644	491	127,950	103,906	1,100	19,043	875	2,161	865	10,576		9
361	.....	2,776	.....	91,361	65,751	.....	.....	.....	1,115	.....	.....		10
1,420	.....	2,090	.....	98,982	38,533	.....	.....	.....	210	.....	.....		11
1,247	528	1,309	177	39,754	30,653	805	6,269	447	761	819	3,308		12
250	.....	2,287	.....	21,482	12,763	.....	.....	.....	17	.....	.....		13
1,172	.....	1,580	.....	52,443	8,403	.....	.....	.....	210	.....	.....		14
2,093	1,308	2,107	406	124,700	102,216	1,100	17,513	845	2,161	865	10,416		15
296	.....	1,080	.....	81,177	57,109	.....	.....	.....	1,115	.....	.....		16
1,236	.....	2,090	.....	64,457	38,533	.....	.....	.....	210	.....	.....		17
607.1	.....	95.1	.....	53.6	79.0	.....	.....	.....	93.8	.....	.....		18
912	403	772	92	36,504	28,963	805	4,739	417	761	819	3,148		19
185	.....	591	.....	11,298	4,121	.....	.....	.....	17	.....	.....		20
988	.....	1,580	.....	17,918	8,403	.....	.....	.....	210	.....	.....		21
56.4	69.2	63.4	77.3	70.7	71.7	26.8	72.9	50.7	64.8	5.3	69.8		22
37.5	.....	45.3	.....	86.1	92.8	.....	.....	.....	98.5	.....	.....		23
20.1	.....	24.4	.....	72.2	78.2	.....	.....	.....	.....	.....	.....		24
38,268	20,377	54,541	6,008	1,899,088	1,577,413	11,175	248,630	10,600	31,745	19,525	100,518		25
38,224	20,344	54,120	6,007	1,813,903	1,492,655	11,175	248,598	10,300	31,700	19,475	100,510		26
44	33	421	1	85,185	84,758	.....	32	300	45	50	8		27
12,210	.....	23,655	.....	1,613,079	748,801	.....	.....	.....	29,250	.....	.....		28
33,753	.....	15,816	.....	2,017,070	1,153,205	.....	.....	.....	15,000	.....	.....		29
213.4	.....	130.6	.....	17.7	110.7	.....	.....	.....	8.5	.....	.....		30
18.28	15.58	25.89	14.80	15.23	15.43	10.16	14.20	12.54	14.69	22.57	9.65		31
41.25	.....	21.90	.....	19.87	13.11	.....	.....	.....	26.23	.....	.....		32
27.31	.....	7.57	.....	31.29	29.93	.....	.....	.....	71.43	.....	.....		33
32.40	22.52	40.85	19.13	21.53	21.53	37.88	19.46	24.77	22.68	424.46	13.83		34
42,468	22,352	59,046	6,008	1,977,941	1,624,471	13,275	272,850	10,600	37,220	19,525	104,428		35
17.49	15.60	22.33	12.24	15.46	15.63	12.07	14.33	12.11	17.22	22.57	9.87		36
				Primary Enterprises	Sup.	Primary Enterprises	Sup.						
35	22	50	12	737	76	525	76	3	178	5	21	5	36	37
1,027	905	1,207	314	87,777	13,628	72,999	13,628	295	12,612	428	1,400	43	7,118	38
3,224	3,023	6,575	1,119	191,274	29,689	132,973	29,689	435	52,933	1,125	3,246	562	18,580	39
3.14	3.34	5.45	3.56	2.18	2.18	1.82	2.18	1.47	4.20	2.63	2.32	13.07	2.61	40
.....	.....	.....	.....	43,166	.....	43,166	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	1.05	.....	1.05	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	56,719	.....	56,719	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	0.76	.....	0.76	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	31,346	.....	31,346	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	43,775	.....	43,775	.....	.....	.....	.....	.....	.....	.....	46
37	21	54	12	697	70	487	70	3	176	5	20	6	35	47
1,111	875	1,282	314	81,456	13,268	67,629	13,268	295	11,921	428	1,137	46	7,268	48
1,555	1,385	1,638	223	117,258	26,464	94,987	26,464	171	20,643	502	909	46	11,192	49
1.4	1.6	1.3	0.7	1.4	2.0	1.4	2.0	0.6	1.7	1.2	0.8	1.0	1.5	50
3.18	3.34	5.56	3.56	2.29	2.16	1.93	2.16	1.47	4.28	2.63	2.85	13.07	2.61	51
2.28	2.11	4.35	5.02	1.59	1.08	1.38	1.08	2.54	2.47	2.24	3.56	13.08	1.70	52
2	1	7	1	28	.....	9	.....	.....	15	1	3	.....	.....	53
(6)	(6)	236	(6)	2,891	.....	576	.....	.....	1,837	(6)	318	.....	.....	54
(6)	(6)	111	(6)	1,704	.....	359	.....	.....	1,004	(6)	318	.....	.....	55
(6)	(6)	156	(6)	2,249	.....	471	.....	.....	1,437	(6)	318	.....	.....	56
(6)	.....	80	.....	72	.....	42	.....	.....	5	(6)	.....	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payment on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSISSIPPI RIVER				
			Total	Missouri River			
				Total	Direct[1] (1)	Kansas River	
						Total	Direct[2] (7)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	[3] 1,066	1,029	182	3	179	46
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	134	128	40	22	40	29
3	Diversion dams....1940..total number	102	102	14	.....	14	.....
4	1930..total number	27	27	3	.....	3	.....
5	1920..total number	10	10	5	.....	5	.....
6	(a) Concrete and masonry....1940..number	16	16	2	.....	2	.....
7	(b) Timber....1940..number	4	4	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	65	65	12	.....	12	.....
9	(d) Other, mixed, and not reported..1940..number	17	17	.....	.....	.....	.....
10	Main canals and laterals....1940..total length, miles	292.5	292.5	8.1	.....	8.1	.....
11	1930..total length, miles	285	285	14	.....	14	.....
12	1920..total length, miles	418	418	19	.....	19	.....
13	(a) Earth....1940..length, miles	292	292	8	.....	8	.....
14	(b) Lined....1940..length, miles	0.5	0.5	0.1	.....	0.1	.....
15	1940..capacity, c.f.s.[4]	3,347	3,347	151	4	147	9
16	1930..capacity, c.f.s.[4]	2,079	2,079	56	.....	56	.....
17	1920..capacity, c.f.s.[4]	1,667	1,667	50	.....	50	.....
18	Pipe lines[5]....1940..total length, miles	24.1	24.1	12.4	.....	12.4	5.7
19	1930..total length, miles	16.1	16.1	3.2	.....	3.1	.....
20	1920..total length, miles	2.8	2.8	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	1.1	1.1	0.3	.....	0.3	.....
22	(b) Metal....1940..length, miles	21.7	21.7	11.0	.....	11.0	4.8
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	1.3	1.3	1.1	.....	1.1	0.9
25	Storage dams....1940..total number	40	40	7	.....	7	.....
26	1930..total number	7	7	.....	.....	.....	.....
27	1920..total number	13	13	1	.....	1	.....
28	(a) Concrete and masonry....1940..number	8	8	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	22	22	3	.....	3	.....
30	(c) Other, mixed, and not reported..1940..number	10	10	4	.....	4	.....
31	Reservoirs....1940..total number	80	78	9	.....	9	.....
32	(a) 1-99 acre-feet capacity....1940..number	69	67	9	.....	9	.....
33	(b) 100-999 acre-feet capacity....1940..number	9	9	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	2	2	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[6]	32,584	32,576	188	.....	188	.....
36	1930..total number	19	19	2	.....	2	.....
37	1930..total capacity, ac.-ft.	66,293	66,293	1	.....	1	.....
38	Wells, flowing....1940..number	24	24	.....	.....	.....	.....
39	1930..number	1	1	.....	.....	.....	.....
40	1920..number	6	6	.....	.....	.....	.....
41	1940..yield, g.p.m.	1,453	1,453	.....	.....	.....	.....
42	1930..yield, g.p.m.	75	75	.....	.....	.....	.....
43	1920..yield, g.p.m.	500	500	.....	.....	.....	.....
44	Wells, pumped....1940..number	1,638	1,597	137	.....	137	44
45	1930..number	772	772	36	.....	36	.....
46	1920..number	710	710	32	.....	32	.....
47	1940..yield, g.p.m.	863,663	819,558	64,165	.....	64,165	19,690
48	1930..yield, g.p.m.	323,500	323,500	8,385	.....	8,385	.....
49	1920..yield, g.p.m.	266,797	266,797	2,600	.....	2,600	.....
50	Pumping plants....1940..total number	1,222	1,181	202	3	199	51
51	1930..total number	281	281	35	.....	35	.....
52	Prime movers....1940..capacity, hp.	26,796	25,160	3,291	31	3,260	467
53	1930..capacity, hp.	6,221	6,221	568	.....	568	.....
54	1920..capacity, hp.	6,946	6,946	383	.....	383	.....
55	(a) Electric....1940..number	428	413	20	.....	20	15
56	1940..capacity, hp.	8,168	7,602	135	.....	135	114
57	(b) Internal-combustion....1940..number	770	744	173	3	170	36
58	1940..capacity, hp.	18,436	17,366	3,056	31	3,025	353
59	(c) Other....1940..number	24	24	9	.....	9	.....
60	1940..capacity, hp.	192	192	100	.....	100	.....
61	Pumps....1940..total number	1,259	1,218	218	3	215	52
62	1930..number	312	312	38	.....	38	.....
63	1920..number	288	288	23	.....	23	.....
64	1940..capacity, g.p.m.	1,231,482	1,186,577	145,800	2,500	143,300	24,360
65	1930..capacity, g.p.m.	393,526	393,526	24,491	.....	24,491	.....
66	1920..capacity, g.p.m.	297,975	297,975	6,700	.....	6,700	.....
67	(a) Centrifugal....1940..number	931	931	157	3	154	39
68	1940..capacity, g.p.m.	917,177	917,177	104,710	2,500	102,210	17,845
69	1940..average capacity, g.p.m.	985	985	667	833	664	458
70	(b) Turbine....1940..number	290	249	46	.....	46	7
71	1940..capacity, g.p.m.	304,185	259,280	40,220	.....	40,220	5,850
72	1940..average capacity, g.p.m.	1,049	1,041	874	.....	874	836
73	(c) Plunger....1940..number	31	31	15	.....	15	6
74	1940..capacity, g.p.m.	2,270	2,270	870	.....	870	665
75	1940..average capacity, g.p.m.	73	73	58	.....	58	111
76	(d) Other....1940..number	7	7	.....	.....	.....	.....
77	1940..capacity, g.p.m.	7,850	7,850	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	35	34	34	15	34	27
79	1930..average, feet	28	26	36	.....	36	.....
80	1920..average, feet	30	30	37	.....	37	.....
81	from pumped wells....1940..average, feet	38	36	41	.....	41	27
82	from surface sources...1940..average, feet	27	27	25	15	25	24

[1] Data for 2 enterprises in Osage River Drainage Basin (8) (number refers to separate map) are included with Missouri River "Direct" Drainage Basin (1).
[2] Data for 2 enterprises in Saline River Drainage Basin (6) (number refers to separate map) are included with Kansas River "Direct" Drainage Basin (7).
[3] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.

WORKS, 1940, 1930, AND 1920

MISSISSIPPI RIVER—Continued												
Missouri River—Continued				Arkansas River							White Woman Creek (independent stream)	
Kansas River—Continued				Total	Direct	Two Butte and Bear Creeks	Pawnee River	Salt Fork Arkansas River	Cimarron River	Neosho River		
Smoky Hill River (5)	Solomon River (4)	Republican River (3)	Big Blue River (2)		(10)	(13)	(11)	(16)	(14)	(9)	(12)	
40	23	58	12	847	623	4	186	5	23	6	37	1
52	57	36	34	147	164	275	94	169	94	144	282	2
4	.....	8	2	88	35	.....	48	2	3	.....	.....	3
1	.....	1	.....	24	5	.....	.....	.....	.....	.....	.....	4
5	.....	.....	.....	5	3	.....	.....	.....	.....	.....	.....	5
.....	.....	2	.....	14	5	.....	6	1	2	.....	.....	6
.....	.....	.....	.....	4	2	.....	2	.....	.....	.....	.....	7
4	.....	6	2	53	18	.....	33	1	1	.....	.....	8
.....	.....	.....	.....	17	10	.....	7	.....	.....	.....	.....	9
2.0	3.1	1.0	2.0	284.4	264.3	1.0	14.0	4.1	1.0	.....	.....	10
2	.....	9	.....	271	186	.....	.....	.....	.....	.....	.....	11
7	.....	12	.....	399	202	.....	.....	.....	6	.....	.....	12
2	3	1	2	284	264	1	14	4	1	.....	.....	13
.....	0.1	.....	.....	0.4	0.3	.....	.....	0.1	.....	.....	.....	14
38	44	37	19	3,196	2,692	6	399	72	26	1	.....	15
8	.....	38	.....	2,023	1,885	.....	.....	.....	.....	.....	.....	16
15	.....	34	.....	1,617	774	.....	.....	.....	8	.....	.....	17
0.5	2.2	3.8	0.2	11.7	5.4	.....	1.2	0.1	.....	5.0	.....	18
0.3	.....	.....	.....	12.9	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	2.8	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	0.3	.....	0.8	0.5	.....	0.3	.....	.....	.....	.....	21
0.5	2.0	3.5	0.2	10.7	4.9	.....	0.7	0.1	.....	5.0	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	0.2	.....	.....	0.2	.....	.....	0.2	.....	.....	.....	.....	24
.....	5	2	.....	33	8	.....	23	.....	2	.....	.....	25
.....	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	26
1	.....	.....	.....	12	.....	.....	.....	.....	1	.....	.....	27
.....	.....	.....	.....	8	1	.....	6	.....	1	.....	.....	28
.....	1	2	.....	19	3	.....	16	.....	.....	.....	.....	29
.....	4	.....	.....	6	4	.....	1	.....	1	.....	.....	30
.....	6	3	.....	69	37	.....	28	.....	4	.....	2	31
.....	6	3	.....	58	36	.....	19	.....	3	.....	2	32
.....	.....	.....	.....	9	.....	.....	8	.....	1	.....	.....	33
.....	.....	.....	.....	2	1	.....	1	.....	.....	.....	.....	34
.....	162	26	.....	32,388	25,178	.....	7,101	.....	109	.....	(7)	35
.....	.....	.....	.....	17	1	.....	.....	.....	.....	.....	.....	36
.....	.....	.....	.....	66,292	30,000	.....	.....	.....	.....	.....	.....	37
.....	.....	.....	.....	24	.....	.....	4	.....	20	.....	.....	38
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	6	.....	.....	.....	.....	6	.....	.....	40
.....	.....	.....	.....	1,453	.....	.....	1,030	.....	423	.....	.....	41
.....	.....	.....	.....	75	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	500	.....	.....	.....	.....	500	.....	.....	43
31	11	51	.....	1,460	1,283	4	159	2	12	.....	41	44
18	.....	8	.....	736	3	.....	.....	.....	1	.....	.....	45
31	.....	1	.....	678	1	.....	.....	.....	5	.....	.....	46
18,675	4,900	20,900	.....	755,393	612,770	3,100	126,173	(7)	10,650	.....	44,105	47
2,800	.....	2,550	.....	315,115	1,230	.....	.....	.....	800	.....	.....	48
2,100	.....	500	.....	264,197	.....	.....	.....	.....	2,800	.....	.....	49
47	26	63	12	979	729	5	221	4	16	4	41	50
3	.....	7	.....	246	4	.....	.....	.....	1	.....	.....	51
964	536	1,177	116	21,869	14,678	223	6,274	85	524	85	1,636	52
110	.....	102	.....	5,653	31	.....	.....	.....	15	.....	.....	53
303	.....	60	.....	6,563	10	.....	.....	.....	156	.....	.....	54
2	1	2	.....	393	370	.....	19	2	.....	2	15	55
(7)	(7)	(7)	.....	7,467	6,999	.....	405	(7)	.....	(7)	566	56
43	24	55	12	571	345	5	202	2	15	2	26	57
886	502	1,168	116	14,310	7,602	223	5,869	(7)	509	(7)	1,070	58
2	1	6	.....	15	14	.....	.....	.....	1	.....	.....	59
(7)	(7)	8	.....	92	77	.....	.....	.....	(7)	.....	.....	60
47	28	76	12	1,000	738	5	233	4	16	4	41	61
3	.....	7	.....	274	4	.....	.....	.....	1	.....	.....	62
21	.....	1	.....	265	1	.....	.....	.....	3	.....	.....	63
40,380	24,775	43,685	10,100	1,040,777	725,907	5,600	282,440	8,200	18,450	180	44,905	64
6,200	.....	5,820	.....	369,035	2,580	.....	.....	.....	800	.....	.....	65
5,350	.....	500	.....	291,275	.....	.....	.....	.....	2,800	.....	.....	66
33	21	49	12	774	590	1	173	2	5	3	.....	67
26,430	19,975	27,860	10,100	812,467	586,237	(7)	211,170	(7)	6,900	160	.....	68
801	951	569	842	1,050	994	(7)	1,221	(7)	1,380	53	.....	69
14	7	18	.....	203	129	4	57	2	11	.....	41	70
13,950	4,800	15,620	.....	219,060	134,040	3,100	67,670	(7)	11,550	.....	44,905	71
996	686	868	.....	1,079	1,039	775	1,187	(7)	1,050	.....	1,095	72
.....	.....	9	.....	16	15	.....	.....	.....	.....	1	.....	73
.....	.....	205	.....	1,400	1,380	.....	.....	.....	.....	(7)	.....	74
.....	.....	23	.....	88	92	.....	.....	.....	.....	(7)	.....	75
.....	.....	.....	.....	7	4	.....	3	.....	.....	.....	.....	76
.....	.....	.....	.....	7,850	4,250	.....	3,600	.....	.....	.....	.....	77
34	37	42	21	34	31	93	39	28	54	15	76	78
20	.....	27	.....	25	20	.....	.....	.....	80	.....	.....	79
29	.....	100	.....	29	12	.....	.....	.....	12	.....	.....	80
46	37	54	.....	35	32	109	47	(7)	68	.....	76	81
21	37	23	21	27	28	68	28	10	14	15	.....	82

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Barber	Barton	Cheyenne	Cloud	Cowley	Crawford
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]								
1	All farms....1940...number	156,327		1,030	1,723	949	1,938	2,483	2,464
2	1930...number	166,042		1,057	1,693	1,091	2,076	2,894	2,588
3	Irrigated farms....1940...number	1,578		8	41	5	7	5	6
4	1930...number	683		1	1	8	1	4	1
5	Increase or decrease (-), 1930-1940....percent	131.0		.....	.....	-37.5	.....	.....	.....
	Operated by—								
6	(a) Owners and managers....1940...number	1,031		8	28	5	5	5	5
7	1930...number	391		.....	.....	6	.....	.....	.....
8	(b) Tenants....1940...number	547		.....	13	.....	2	.....	1
9	1930...number	292		.....	.....	2	.....	.....	.....
10	Land in all farms....1940...acres	48,173,635		707,085	563,885	624,976	421,118	614,735	328,368
11	Land in irrigated farms....1940...acres	871,189		17,437	17,498	6,850	684	1,891	297
12	Average per farm....1940...acres	552		2,180	427	1,370	98	378	50
13	(a) Operated by owners and managers....1940...acres	656,836		17,437	12,634	6,850	565	1,891	279
14	Average per farm....1940...acres	637		2,180	451	1,370	113	378	56
15	(b) Operated by tenants....1940...acres	214,353		.....	4,864	.....	[2]	.....	[2]
16	Average per farm....1940...acres	392		.....	374	.....	[2]	.....	[2]
17	Approximate land area....1940...acres	52,552,320		733,440	570,880	657,280	455,040	727,040	382,720
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	99,980		155	988	312	26	58	46
19	(a) Cropland harvested....1939...acres	85,139		155	875	268	26	53	36
20	(b) Crop failure....1939...acres	11,386		.....	10	19	.....	.....	.....
21	(c) Pasture....1939...acres	3,455		.....	103	25	.....	5	10
22	Area irrigated....1929...acres	71,290		.....	.....	389	.....	.....	.....
23	1919...acres	47,312		.....	.....	500	.....	.....	.....
24	Increase or decrease (-), 1929-1939....percent	40.2		.....	.....	-19.8	.....	.....	.....
25	Irrigable area in enterprises....1940...acres	147,226		315	1,753	517	28	95	865
26	1930...acres	95,719		.....	.....	2,450	.....	.....	.....
27	1920[3]...acres	102,562		.....	.....	2,080	.....	.....	.....
28	Excess of irrigable area over the area irrigated..1940...acres	47,246		160	765	205	2	37	819
29	1930...acres	24,429		.....	.....	2,061	.....	.....	.....
30	Area works were capable of supplying with water...1940...acres	142,409		285	1,568	487	28	95	865
31	1930...acres	83,583		.....	.....	754	.....	.....	.....
32	1920...acres	67,853		.....	.....	2,080	.....	.....	.....
33	Increase or decrease (-), 1930-1940....percent	70.4		.....	.....	-35.4	.....	.....	.....
34	Excess, capability of works over area irrigated...1940...acres	42,429		130	580	175	2	37	819
35	1930...acres	12,293		.....	.....	365	.....	.....	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	11.5		0.9	5.6	4.6	3.8	3.1	15.5
37	1929...percent	22.9		.....	.....	7.3	.....	.....	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	70.2		54.4	63.0	64.1	92.9	61.1	5.3
39	1929...percent	85.3		.....	.....	51.6	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	2,153,886		6,000	23,938	18,060	2,350	2,325	19,525
41	(a) Cost of irrigation works and equipment....1940...dollars	2,067,284		6,000	23,938	18,060	2,350	2,325	19,475
42	(b) Investment in water rights (reported)....1940...dollars	86,602		.....	.....	.....	.....	.....	50
43	Total investment in all enterprises....1930...dollars	1,685,652		.....	.....	10,600	.....	.....	.....
44	1920...dollars	2,067,381		.....	.....	11,816	.....	.....	.....
45	Increase or decrease (-), 1930-1940....percent	27.8		.....	.....	70.4	.....	.....	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	15.12		21.05	15.27	37.08	83.93	24.47	22.57
47	1930...dollars	20.17		.....	.....	14.06	.....	.....	.....
48	1920...dollars	30.47		.....	.....	5.68	.....	.....	.....
49	Average investment per acre irrigated....1939...dollars	21.54		38.71	24.23	57.88	90.38	40.09	424.46
50	Estimated final investment in existing enterprises..1940...dollars	2,255,579		6,000	26,338	18,940	2,350	2,800	19,525
51	1930...dollars	1,723,872		.....	.....	11,600	.....	.....	.....
52	1920...dollars	2,195,981		.....	.....	11,816	.....	.....	.....
53	Increase or decrease (-), 1930-1940....percent	30.8		.....	.....	63.3	.....	.....	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	15.32		19.05	15.02	36.63	83.93	29.47	22.57
55	1930...dollars	18.01		.....	.....	4.73	.....	.....	.....
56	1920[3]...dollars	21.41		.....	.....	5.68	.....	.....	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises						
57	Enterprises reporting maintenance and operation...1939...number	936	76	3	27	7	4	4	5
58	Area irrigated in these enterprises....1939...acres	99,033	13,628	155	988	312	26	58	43
59	Cost of maintenance and operation....1939...dollars	227,076	29,689	375	3,722	1,131	320	585	562
60	Average cost, per acre irrigated....1939...dollars	2.29	2.18	2.42	3.77	3.62	12.31	10.09	13.07
61	1929...dollars	1.53	.....	.....	.....	2.57	.....	.....	.....
62	Total annual charges (reported)[4] [6]....1939...dollars	43,166	.....	.....	.....	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	1.05	.....	.....	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	56,719	.....	.....	.....	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	0.76	.....	.....	.....	.....	.....	.....	.....
66	Total charges collected[4]....1939...dollars	31,346	.....	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	43,775	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	902	70	3	26	7	4	4	6
69	Area irrigated in these enterprises....1939...acres	93,008	13,268	155	988	312	26	58	46
70	Water delivered in these enterprises....1939...acre-feet	134,041	26,464	225	2,028	272	47	66	46
71	Average water delivered per acre irrigated....1939...acre-feet	1.4	2.0	1.5	2.1	0.9	1.8	1.1	1.0
72	Average cost of water per acre irrigated....1939...dollars	2.40	2.16	2.42	3.76	3.62	12.31	10.09	13.07
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	44	.....	.....	.....	.....	.....	.....	.....
74	Irrigable area in these enterprises....1939...acres	3,507	.....	.....	.....	.....	.....	.....	.....
75	Irrigated area in these enterprises....1939...acres	2,093	.....	.....	.....	.....	.....	.....	.....
76	Area for which drains have been installed....1939...acres	2,552	.....	.....	.....	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres	240	.....	.....	.....	.....	.....	.....	.....

[6] Census of Agriculture.

[1] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[2] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Decatur	Douglas	Edwards	Ellis	Finney	Ford	Gray	Hamilton	Hodgeman	Johnson	Kearny	Marshall	
1,174	1,854	827	1,235	879	1,485	866	379	759	2,082	471	2,686	1
1,340	1,852	823	1,314	971	1,338	828	440	732	2,376	462	2,852	2
31	11	31	10	307	157	22	59	80	3	112	4	3
5	2	4	1	273	23	2	56	6	.....	113	.....	4
.....	.....	.....	.....	12.5	.....	.....	5.4	.....	.....	-0.9	.....	5
19	9	24	10	139	118	14	33	54	3	51	2	6
.....	.....	.....	.....	108	.....	.....	41	.....	.....	57	.....	7
12	2	7	.....	168	39	8	26	26	.....	61	2	8
.....	.....	.....	.....	165	.....	.....	15	.....	.....	56	.....	9
562,148	277,921	[1]405,496	556,777	662,558	[1]711,855	546,714	413,687	528,612	263,204	397,005	551,709	10
12,531	1,786	28,961	4,214	114,394	47,553	18,803	29,067	70,385	103	64,892	682	11
404	162	934	421	373	303	855	493	880	34	579	170	12
8,063	1,730	24,771	4,214	73,745	33,778	14,478	18,604	52,500	103	46,827	(2)	13
424	192	1,032	421	531	286	1,034	564	972	34	918	(2)	14
4,468	(2)	4,190	.....	40,649	13,775	4,325	10,463	17,885	.....	18,065	(2)	15
372	(2)	599	.....	242	353	541	402	688	.....	296	(2)	16
575,360	299,520	392,960	576,000	833,280	693,120	556,160	634,880	550,400	304,640	545,920	583,040	17
633	155	924	50	32,644	4,034	3,729	6,431	5,100	48	17,266	76	18
626	125	864	45	29,628	3,607	1,868	4,896	4,285	48	12,492	76	19
7	.....	36	.....	2,358	371	553	1,207	696	.....	4,716	.....	20
.....	30	24	5	658	56	1,308	328	119	.....	58	.....	21
.....	.....	.....	.....	34,876	.....	.....	3,821	.....	.....	21,375	.....	22
.....	.....	.....	.....	15,221	.....	.....	3,463	.....	.....	21,976	.....	23
.....	.....	.....	.....	-6.4	.....	.....	68.3	.....	.....	-19.2	.....	24
917	251	1,398	117	42,715	5,415	5,640	8,360	7,230	89	27,402	80	25
.....	.....	.....	.....	44,047	.....	.....	5,218	.....	.....	27,599	.....	26
.....	.....	.....	.....	19,209	.....	.....	6,266	.....	.....	37,897	.....	27
284	96	474	67	10,071	1,381	1,911	1,929	2,130	41	10,136	4	28
.....	.....	.....	.....	9,171	.....	.....	1,397	.....	.....	6,224	.....	29
832	251	1,377	117	42,536	5,032	5,610	8,287	6,382	89	27,242	80	30
.....	.....	.....	.....	36,378	.....	.....	4,045	.....	.....	27,574	.....	31
.....	.....	.....	.....	18,655	.....	.....	6,266	.....	.....	29,367	.....	32
.....	.....	.....	.....	16.9	.....	.....	104.9	.....	.....	-1.2	.....	33
199	96	453	67	9,892	998	1,881	1,856	1,282	41	9,976	4	34
.....	.....	.....	.....	1,502	.....	.....	224	.....	.....	6,199	.....	35
5.1	8.7	3.2	1.2	28.5	6.5	19.8	22.1	7.2	46.6	26.6	11.1	36
.....	.....	.....	.....	44.2	.....	.....	16.7	.....	.....	25.7	.....	37
76.1	61.8	67.1	42.7	76.7	80.2	66.5	77.6	79.9	53.9	63.4	95.0	38
.....	.....	.....	.....	95.9	.....	.....	94.5	.....	.....	77.5	.....	39
20,585	9,800	23,216	1,700	849,492	86,824	41,950	69,955	96,315	1,310	290,886	1,210	40
20,575	9,800	23,216	1,700	773,490	86,822	41,950	61,365	96,289	1,310	290,886	1,210	41
10	.....	.....	.....	76,002	2	.....	8,590	26	.....	.....	.....	42
.....	.....	.....	.....	930,467	.....	.....	33,800	.....	.....	216,896	.....	43
.....	.....	.....	.....	237,064	.....	.....	38,065	.....	.....	296,700	.....	44
.....	.....	.....	.....	-8.7	.....	.....	107.0	.....	.....	34.1	.....	45
24.74	39.04	16.86	14.53	19.97	17.25	7.48	8.44	15.09	14.72	10.68	15.12	46
.....	.....	.....	.....	25.58	.....	.....	8.36	.....	.....	7.87	.....	47
.....	.....	.....	.....	12.71	.....	.....	6.07	.....	.....	10.10	.....	48
32.52	63.23	25.13	34.00	26.02	21.52	11.25	10.88	18.89	27.29	16.85	15.92	49
22,285	12,800	23,336	3,200	865,999	89,900	41,950	70,900	114,235	1,310	297,166	1,210	50
.....	.....	.....	.....	930,467	.....	.....	33,800	.....	.....	218,616	.....	51
.....	.....	.....	.....	237,064	.....	.....	38,065	.....	.....	296,700	.....	52
.....	.....	.....	.....	-6.9	.....	.....	109.8	.....	.....	35.9	.....	53
24.30	51.00	16.69	27.35	20.27	16.60	7.44	8.48	15.80	14.72	10.84	15.12	54
.....	.....	.....	.....	21.12	.....	.....	6.48	.....	.....	7.92	.....	55
.....	.....	.....	.....	12.34	.....	.....	6.07	.....	.....	7.83	.....	56
				Primary Enterprises / Sup.			Primary Enterprises / Sup.			Primary Enterprises / Sup.		
25	9	33	6	169 / 25	109	27	28 / 4	83	3	19 / 47	3	57
629	115	910	50	32,640 / 4,419	4,009	3,729	6,431 / 376	4,958	48	17,126 / 8,833	76	58
3,943	650	3,903	485	52,811 / 12,963	13,287	7,523	5,154 / 196	25,729	105	15,818 / 16,530	581	59
6.27	5.65	4.29	9.70	1.62 / 2.93	3.31	2.02	0.80 / 0.52	5.19	2.19	0.92 / 1.87	7.64	60
.....	.....	.....	.....	1.28 /	.....	.....	0.84 /	.....	.....	0.96 /	.....	61
.....	.....	.....	.....	22,552 /	1,500	.....	7,534 /	.....	.....	11,580 /	.....	62
.....	.....	.....	.....	1.18 /	1.88	.....	1.44 /	.....	.....	0.72 /	.....	63
.....	.....	.....	.....	25,017 /	800	.....	5,902 /	.....	.....	25,000 /	.....	64
.....	.....	.....	.....	0.90 /	1.88	.....	1.28 /	.....	.....	0.46 /	.....	65
.....	.....	.....	.....	15,746 /	1,052	.....	1,228 /	.....	.....	13,320 /	.....	66
.....	.....	.....	.....	28,725 /	600	.....	1,350 /	.....	.....	13,100 /	.....	67
23	9	31	6	152 / 23	95	26	26 / 3	84	2	19 / 44	3	68
580	115	829	50	31,674 / 4,059	2,949	3,514	2,994 / 376	5,100	(2)	17,126 / 8,833	76	69
862	88	1,261	41	43,646 / 7,283	5,647	3,433	4,824 / 95	7,847	(2)	18,454 / 19,086	64	70
1.5	0.8	1.5	0.8	1.4 / 1.8	1.9	1.0	1.6 / 0.3	1.5	(2)	1.1 / * 2.2	0.8	71
6.57	5.65	3.92	9.70	1.78 / 2.95	3.37	2.13	1.08 / 0.52	5.16	(2)	0.88 / 1.87	7.64	72
2	1	5	.....	..... /	.....	.....	..... /	1	.....	..... /	1	73
(2)	(2)	371	.....	..... /	.....	.....	..... /	(2)	.....	..... /	(2)	74
(2)	(2)	273	.....	..... /	.....	.....	..... /	(2)	.....	..... /	(2)	75
(2)	.....	371	.....	..... /	.....	.....	..... /	(2)	.....	..... /	(2)	76
.....	(2)	.....	.....	..... /	.....	.....	..... /	.....	.....	..... /	.....	77

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Annual charges may include costs of maintenance and operation, and assessments or payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data were not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Meade	Ness	Norton	Osborne	Pawnee	Phillips	Rawlins
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]							
1	All farms....1940...number	750	1,059	1,437	1,468	1,102	1,657	1,154
2	1930...number	933	1,108	1,705	1,652	1,192	1,979	1,176
3	Irrigated farms....1940...number	16	48	15	4	77	3	12
4	1930...number	2	3	5	3	27	1	2
5	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	185.2	.....	.....
	Operated by—							
6	(a) Owners and managers....1940...number	12	39	12	3	47	1	11
7	1930...number	.....	.....	.....	.....	19	.....	.....
8	(b) Tenants....1940...number	4	9	3	1	30	2	1
9	1930...number	.....	.....	.....	.....	8	.....	.....
10	Land in all farms....1940...acres	561,694	659,851	547,308	546,576	[2]482,710	555,237	[2] 692,131
11	Land in irrigated farms....1940...acres	14,253	41,568	10,395	1,453	38,808	950	2,853
12	Average per farm....1940...acres	891	866	693	363	504	317	238
13	(a) Operated by owners and managers....1940...acres	9,333	34,453	9,932	1,358	22,672	[3]	2,648
14	Average per farm....1940...acres	778	883	828	453	482	[3]	241
15	(b) Operated by tenants....1940...acres	4,920	7,115	463	[3]	16,136	[3]	[3]
16	Average per farm....1940...acres	1,230	791	154	[3]	538	[3]	[3]
17	Approximate land area....1940...acres	624,640	691,840	563,200	574,720	479,360	579,840	689,920
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	962	2,023	420	125	5,205	73	89
19	(a) Cropland harvested....1939...acres	942	1,828	226	125	4,636	73	89
20	(b) Crop failure....1939...acres	.....	168	.....	.....	493	.....	.....
21	(c) Pasture....1939...acres	20	27	194	.....	76	.....	.....
22	Area irrigated....1929...acres	.....	.....	.....	.....	3,191	.....	.....
23	1919...acres	.....	.....	.....	.....	1,117	.....	.....
24	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	63.1	.....	.....
25	Irrigable area in enterprises....1940...acres	1,201	3,689	599	200	7,695	141	212
26	1930...acres	.....	.....	.....	.....	5,109	.....	.....
27	1920[4]...acres	.....	.....	.....	.....	2,630	.....	.....
28	Excess of irrigable area over the area irrigated...1940...acres	239	1,666	179	75	2,490	68	123
29	1930...acres	.....	.....	.....	.....	1,918	.....	.....
30	Area works were capable of supplying with water...1940...acres	1,201	3,138	556	190	7,398	141	145
31	1930...acres	.....	.....	.....	.....	4,502	.....	.....
32	1920...acres	.....	.....	.....	.....	2,366	.....	.....
33	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	64.3	.....	.....
34	Excess, capability of works over area irrigated...1940...acres	239	1,115	136	65	2,193	68	56
35	1930...acres	.....	.....	.....	.....	1,311	.....	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	6.7	4.9	4.0	8.6	13.4	7.7	3.1
37	1929...percent	.....	.....	.....	.....	26.1	.....	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	80.1	64.5	75.5	65.8	70.4	51.8	61.4
39	1929...percent	.....	.....	.....	.....	70.9	.....	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	23,245	28,330	8,469	4,660	112,238	1,400	2,680
41	(a) Cost of irrigation works and equipment....1940...dollars	23,200	28,325	8,465	4,650	112,234	1,400	2,675
42	(b) Investment in water rights (reported)....1940...dollars	45	5	4	10	4	.....	5
43	Total investment in all enterprises....1930...dollars	.....	.....	.....	.....	136,400	.....	.....
44	1920...dollars	.....	.....	.....	.....	32,450	.....	.....
45	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	-17.7	.....	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	19.35	9.03	15.23	24.53	15.17	9.93	18.48
47	1930...dollars	.....	.....	.....	.....	30.30	.....	.....
48	1920...dollars	.....	.....	.....	.....	13.72	.....	.....
49	Average investment per acre irrigated....1939...dollars	24.16	14.00	20.16	37.28	21.56	19.18	30.11
50	Estimated final investment in existing enterprises...1940...dollars	25,820	31,650	10,519	4,810	114,708	2,400	2,805
51	1930...dollars	.....	.....	.....	.....	146,400	.....	.....
52	1920...dollars	.....	.....	.....	.....	35,750	.....	.....
53	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	-21.6	.....	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	21.50	8.58	17.56	24.05	14.91	17.02	13.23
55	1930...dollars	.....	.....	.....	.....	28.66	.....	.....
56	1920[4]...dollars	.....	.....	.....	.....	13.59	.....	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
57	Enterprises reporting maintenance and operation...1939...number	18	43	9	3	69	4	5
58	Area irrigated in these enterprises....1939...acres	962	2,003	420	125	5,199	73	85
59	Cost of maintenance and operation....1939...dollars	1,866	6,179	1,527	475	19,481	265	535
60	Average cost, per acre irrigated....1939...dollars	1.94	3.08	3.64	3.80	3.75	3.63	6.29
61	1929...dollars	.....	.....	.....	.....	3.60	.....	.....
62	Total annual charges (reported)[5] [6]....1939...dollars	.....	.....	.....	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	.....	.....	.....
66	Total charges collected[6]....1939...dollars	.....	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported) [6]....1939...dollars	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	17	43	9	2	68	4	6
69	Area irrigated in these enterprises....1939...acres	699	1,985	420	[3]	4,935	73	89
70	Water delivered in these enterprises....1939...acre-feet	687	2,663	894	[3]	10,256	85	112
71	Average water delivered per acre irrigated....1939...acre-feet	1.0	1.3	2.1	[3]	2.1	1.2	1.3
72	Average cost of water per acre irrigated....1939...dollars	2.66	3.02	3.64	[3]	3.86	3.63	6.29
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	3	6	.....	.....	11	3	.....
74	Irrigable area in these enterprises....1939...acres	318	645	.....	.....	1,242	129	.....
75	Irrigated area in these enterprises....1939...acres	318	234	.....	.....	761	61	.....
76	Area for which drains have been installed....1939...acres	318	242	.....	.....	1,230	79	.....
77	Additional area needing drainage....1939...acres	.....	45	.....	.....	.....	50	.....

[a] Census of Agriculture.

[1] Data between census years not comparable (see headnote).

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located. even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Rush	Saline	Scott	Shawnee	Sheridan	Stafford	Stanton	Trego	Wallace	Washington	Wichita	All other counties[1]	
1,128	1,667	528	2,200	929	1,312	223	884	328	2,630	395	110,192	1
1,174	1,839	479	2,173	1,049	1,359	315	980	410	2,793	373	116,626	2
49	8	94	24	8	13	4	5	7	10	9	273	3
2	2	16	1	2	3	.....	.....	19	2	1	91	4
.....	.....	487.5	.....	.....	.....	.....	.....	.....	.....	.....	43.7	5
34	6	54	22	5	9	4	4	6	8	7	215	6
.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	154	7
15	2	40	2	3	4	.....	1	1	2	2	58	8
.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	36	9
455,062	414,137	434,451	308,553	549,554	486,706	332,616	541,394	468,016	546,181	408,215	30,045,390	10
21,034	1,011	78,387	2,352	5,681	6,300	4,946	2,500	10,330	4,403	9,733	176,294	11
429	126	834	98	710	485	1,236	500	1,476	440	1,081	645	12
15,763	596	51,826	2,336	3,441	4,877	4,946	1,860	6,880	4,107	9,253	151,237	13
464	99	960	106	688	542	1,236	465	1,147	513	1,322	703	14
5,271	(3)	26,561	(3)	2,240	1,423	.....	(3)	(3)	(3)	(3)	24,967	15
351	(3)	664	(3)	747	356	.....	(3)	(3)	(3)	(3)	430	16
463,360	460,800	462,720	348,800	571,520	508,160	432,640	576,640	583,040	570,240	463,360	32,835,840	17
1,529	175	13,389	433	70	110	319	93	365	257	448	1,220	18
1,465	175	12,620	363	60	90	319	93	260	257	428	1,117	19
31	.....	476	14	.....	20	.....	.....	105	.....	15	91	20
33	.....	293	56	10	.....	.....	.....	.....	.....	5	12	21
.....	.....	3,432	.....	.....	.....	.....	.....	.....	.....	.....	4,206	22
.....	.....	3,047	.....	.....	.....	.....	.....	.....	.....	.....	1,988	23
.....	.....	290.1	.....	.....	.....	.....	.....	.....	.....	.....	-71.0	24
2,032	221	19,661	777	196	156	1,180	200	630	480	1,400	3,369	25
.....	.....	5,160	.....	.....	.....	.....	.....	.....	.....	.....	6,136	26
.....	.....	30,163	.....	.....	.....	.....	.....	.....	.....	.....	4,317	27
503	46	6,272	344	126	46	861	107	265	223	952	2,149	28
.....	.....	1,728	.....	.....	.....	.....	.....	.....	.....	.....	1,930	29
2,032	221	19,328	772	154	156	1,180	185	550	345	1,095	2,459	30
.....	.....	5,087	.....	.....	.....	.....	.....	.....	.....	.....	5,243	31
.....	.....	5,045	.....	.....	.....	.....	.....	.....	.....	.....	4,074	32
.....	.....	279.9	.....	.....	.....	.....	.....	.....	.....	.....	-53.1	33
503	46	5,939	339	84	46	861	92	185	88	647	1,239	34
.....	.....	1,655	.....	.....	.....	.....	.....	.....	.....	.....	1,037	35
7.3	17.3	17.1	18.4	1.2	1.7	6.4	3.7	3.5	5.8	4.6	0.7	36
.....	.....	14.7	.....	.....	.....	.....	.....	.....	.....	.....	4.9	37
75.2	79.2	69.3	56.1	45.5	70.5	27.0	50.3	66.4	74.5	40.9	49.6	38
.....	.....	67.5	.....	.....	.....	.....	.....	.....	.....	.....	80.2	39
46,615	3,800	236,224	17,656	4,230	1,400	12,175	5,531	16,620	5,198	16,915	41,059	40
46,563	3,800	236,110	17,656	4,230	1,400	12,175	5,489	16,620	5,197	16,915	39,419	41
52	.....	114	.....	.....	.....	.....	42	.....	1	.....	1,640	42
.....	.....	124.600	.....	.....	.....	.....	.....	.....	.....	.....	232,889	43
.....	.....	299,500	.....	.....	.....	.....	.....	.....	.....	.....	1,151,786	44
.....	.....	89.6	.....	.....	.....	.....	.....	.....	.....	.....	-82.4	45
22.94	17.19	12.22	22.87	27.47	8.97	10.32	29.90	30.22	15.07	15.45	16.70	46
.....	.....	24.49	.....	.....	.....	.....	.....	.....	.....	.....	44.42	47
.....	.....	59.37	.....	.....	.....	.....	.....	.....	.....	.....	282.72	48
30.49	21.71	17.64	40.78	60.43	12.73	38.17	59.47	45.53	20.23	37.76	33.65	49
49,305	3,800	253,859	20,006	4,755	1,400	12,775	5,531	16,920	5,198	20,665	48,409	50
.....	.....	124,600	.....	.....	.....	.....	.....	.....	.....	.....	258,389	51
.....	.....	416,000	.....	.....	.....	.....	.....	.....	.....	.....	1,160,586	52
.....	.....	103.7	.....	.....	.....	.....	.....	.....	.....	.....	-81.3	53
24.26	17.19	12.91	25.75	24.26	8.97	10.83	27.66	26.86	10.83	14.76	14.37	54
.....	.....	24.15	.....	.....	.....	.....	.....	.....	.....	.....	42.11	55
.....	.....	13.79	.....	.....	.....	.....	.....	.....	.....	.....	268.84	56
50	6	68	23	3	3	4	4	7	8	11	34	57
1,529	161	13,194	427	56	110	319	93	325	217	348	1,084	58
10,027	297	39,979	1,889	201	165	550	388	1,013	360	1,341	3,854	59
6.56	1.84	3.03	4.42	3.59	1.50	1.72	4.17	3.12	1.66	3.85	3.56	60
.....	.....	3.92	.....	.....	.....	.....	.....	.....	.....	.....	8.13	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67
49	7	66	24	5	2	4	4	7	9	11	39	68
1,472	175	13,248	433	70	(3)	319	93	325	257	418	1,210	69
3,143	174	23,317	535	76	(3)	231	142	709	190	531	1,252	70
2.1	1.0	1.8	1.2	1.1	(3)	0.7	1.5	2.2	0.7	1.3	1.0	71
6.61	1.84	3.02	4.42	3.59	(3)	1.72	4.17	3.12	1.66	4.06	3.56	72
1	2	.....	1	.....	.....	.....	.....	1	.....	.....	6	73
(3)	(3)	.....	(3)	.....	.....	.....	.....	(3)	.....	.....	369	74
(3)	(3)	.....	(3)	.....	.....	.....	.....	(3)	.....	.....	101	75
.....	(3)	.....	(3)	.....	.....	.....	.....	.....	.....	.....	129	76
(3)	.....	.....	.....	.....	.....	.....	.....	(3)	.....	.....	108	77

[3] Data are included only in State totals because less than 3 farms or 3 enterprises reported in the 1940 Census.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Barber	Barton	Cheyenne	Cloud	Cowley	Crawford
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	1,421,387,464	16,064,982	29,364,910	10,335,709	15,993,189	21,353,378	8,341,548
2	Land and buildings, irrigated farms.....dollars..	22,721,389	307,500	1,076,900	112,700	60,600	95,643	82,540
	Operated by—							
3	(a) Owners and managers.....dollars..	16,409,622	307,500	745,800	112,700	55,600	95,643	79,040
4	(b) Tenants.....dollars..	6,311,767	.....	331,100	.....	(1)	.....	(1)
5	Average, land and buildings, per farm.....dollars..	14,398.85	38,437.50	26,265.85	22,540.00	8,657.14	19,128.60	13,756.67
6	per acre in farms.....dollars..	26.08	17.63	61.54	16.45	88.60	50.58	277.91
7	Buildings, irrigated farms reporting value.....number...	1,497	8	40	4	7	5	6
8	Total reported.....dollars..	3,942,540	33,350	156,750	19,700	16,850	16,182	55,600
9	Average, per irrigated farm reporting.....dollars..	2,633.63	4,168.75	3,918.75	4,925.00	2,407.14	3,236.40	9,266.67
10	per acre on all irrigated farms.....dollars..	4.53	1.91	8.96	2.88	24.63	8.56	187.21
11	Buildings, nonirrigated farms reporting value.....number...	144,152	968	1,532	884	1,766	2,453	2,389
12	Total reported.....dollars..	253,889,232	1,893,060	3,944,380	1,532,655	2,748,631	4,189,144	2,374,920
13	Average, per nonirrigated farm reporting.....dollars..	1,761.26	1,955.64	2,574.66	1,733.77	1,556.42	1,707.76	994.11
14	per acre on all nonirrigated farms.....dollars..	5.37	2.74	7.22	2.48	6.54	6.84	7.24
15	Implements and machinery, irrigated farms reporting value..number...	1,464	8	40	5	4	4	6
16	Total reported.....dollars..	1,992,911	22,300	78,128	8,850	8,800	15,491	13,400
17	Average, per irrigated farm reporting.....dollars..	1,361.28	2,787.50	1,953.20	1,770.00	2,200.00	3,872.75	2,233.33
18	per acre, on all irrigated farms.....dollars..	2.29	1.28	4.46	1.29	12.87	8.19	45.12
19	Implements and machinery, nonirrigated farms reporting value.....number...	136,732	885	1,552	875	1,734	2,277	2,026
20	Total reported.....dollars..	113,269,775	1,216,383	1,862,354	1,046,287	1,445,119	1,651,325	889,678
21	Average, per acre, on all nonirrigated farms.....dollars..	2.39	1.76	3.41	1.69	3.44	2.69	2.71
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[2]1,067	3	27	7	4	4	6
23	1930...number.....	[2]302	1	2	5	2	1	1
24	1920...number.....	209	.....	.....	3	.....	.....	.....
25	Average size of enterprise based on irrigable area.....1940...acres.....	138	105	65	74	7	24	144
26	1930...acres.....	317	.....	.....	490	.....	.....	.....
27	1920[3]...acres.....	491	.....	.....	693	.....	.....	.....
28	Diversion dams.....1940...number.....	102	.....	.....	.....	.....	.....	.....
29	Main canals and laterals.....1940...length, miles.....	292.5	.....	.....	.....	.....	.....	.....
30	1930...length, miles.....	285	.....	.....	9	.....	.....	.....
31	1920...length, miles.....	418	.....	.....	12	.....	.....	.....
32	1940...capacity, c.f.s.[4]....	3,347	10	22	.....	3	1	1
33	1930...capacity, c.f.s.[4]....	2,079	.....	.....	38	.....	.....	.....
34	1920...capacity, c.f.s.[4]....	1,667	.....	.....	34	.....	.....	.....
35	Pipe lines[5].....1940...length, miles.....	24.1	0.1	0.5	0.4	.....	0.8	5.0
36	Storage dams.....1940...number.....	40	.....	.....	1	.....	2	.....
37	Reservoirs.....1940...number.....	80	.....	.....	1	.....	2	.....
38	1930...number.....	19	.....	.....	.....	.....	.....	.....
39	1920...number.....	36	.....	.....	.....	.....	.....	.....
40	1940...capacity, acre-feet..	32,584	.....	.....	(1)	.....	(1)	.....
41	1930...capacity, acre-feet..	66,293	.....	.....	.....	.....	.....	.....
42	1920...capacity, acre-feet..	391	.....	.....	.....	.....	.....	.....
43	Wells, flowing.....1940...number.....	24	.....	.....	.....	.....	.....	.....
44	1930...number.....	1	.....	.....	.....	.....	.....	.....
45	1920...number.....	6	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	1,453	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	75	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	500	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	1,638	2	21	21	4	3	.....
50	1930...number.....	772	.....	.....	8	.....	.....	.....
51	1920...number.....	710	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	863,663	(1)	20,375	6,010	500	1,600	.....
53	1930...yield, g.p.m.....	323,500	.....	.....	2,550	.....	.....	.....
54	1920...yield, g.p.m.....	266,797	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	1,222	3	30	7	5	4	4
56	1930...number.....	281	.....	.....	3	.....	.....	.....
57	1920...number.....	198	.....	.....	.....	.....	.....	.....
58	Prime movers.....1940...capacity, hp.....	26,796	77	658	287	68	88	85
59	1930...capacity, hp.....	6,221	.....	.....	45	.....	.....	.....
60	1920...capacity, hp.....	6,946	.....	.....	.....	.....	.....	.....
61	Pumps.....1940...capacity, g.p.m.....	1,231,482	7,200	31,625	6,460	2,605	1,822	180
62	1930...capacity, g.p.m.....	393,526	.....	.....	2,850	.....	.....	.....
63	1920...capacity, g.p.m.....	297,975	.....	.....	.....	.....	.....	.....
64	Pumping lift, from all sources.....1940...average, feet.....	35	34	34	77	32	42	15
65	1930...average, feet.....	26	.....	.....	35	.....	.....	.....
66	1920...average, feet.....	30	.....	.....	.....	.....	.....	.....
67	from pumped wells.....1940...average, feet.....	38	(1)	38	77	38	31	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	10	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises.....acres....	41,116	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable.....dollars..	16,235	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29.....number...	75	.....	.....	.....	.....	.....	.....

*Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or 3 enterprises reported in the 1940 Census.

[2] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Decatur	Douglas	Edwards	Ellis	Finney	Ford	Gray	Hamilton	Hodgeman	Johnson	Kearny	Marshall	
8,722,637	13,215,518	13,440,157	13,203,402	9,274,846	18,674,356	10,994,738	2,823,249	8,010,450	19,744,326	4,324,775	23,543,418	1
247,280	155,950	818,665	150,460	3,354,690	1,591,848	384,905	372,105	1,412,230	24,040	1,339,870	45,500	2
170,780	146,950	692,895	150,460	1,842,170	1,177,283	298,040	230,670	1,047,060	24,040	809,170	(1)	3
76,500	(1)	125,770	.....	1,512,520	414,565	86,865	141,435	365,170	.....	530,700	(1)	4
7,976.77	14,177.27	26,408.55	15,046.00	10,927.33	10,139.16	17,495.68	6,306.86	17,652.88	8,013.33	11,963.12	11,375.00	5
19.73	87.32	28.27	35.70	29.33	33.48	20.47	12.80	20.06	233.40	20.65	66.72	6
28	11	30	10	297	151	21	47	77	3	98	3	7
57,650	35,650	112,150	50,300	561,460	387,150	45,450	61,450	204,175	10,400	191,425	6,600	8
2,058.93	3,240.91	3,738.33	5,030.00	1,890.44	2,563.91	2,164.29	1,307.45	2,651.62	3,466.67	1,953.32	2,200.00	9
4.60	19.96	3.87	11.94	4.91	8.14	2.42	2.11	2.90	100.97	2.95	9.68	10
1,037	1,785	681	1,093	449	1,092	674	247	516	2,028	268	2,590	11
1,440,300	3,588,836	1,402,017	1,476,794	574,795	2,438,180	1,060,955	248,115	966,775	5,031,578	352,990	5,257,800	12
1,388.91	2,010.55	2,058.76	1,351.14	1,280.17	2,232.77	1,574.12	1,004.51	1,873.59	2,481.05	1,317.13	2,030.04	13
2.62	13.00	3.72	2.67	1.05	3.67	2.01	0.65	2.11	19.12	1.06	9.54	14
26	11	30	10	281	146	21	50	74	3	104	4	15
24,095	14,960	60,405	13,200	299,225	123,870	24,995	35,030	99,335	1,300	166,105	2,740	16
926.73	1,360.00	2,013.50	1,320.00	1,064.86	848.42	1,190.24	700.60	1,342.36	433.33	1,597.16	685.00	17
1.92	8.38	2.09	3.13	2.62	2.60	1.33	1.21	1.41	12.62	2.56	4.02	18
1,012	1,696	699	1,116	468	1,101	686	246	532	1,922	315	2,431	19
826,048	1,164,592	824,201	981,486	500,184	1,231,494	670,098	342,313	476,863	1,172,328	344,095	1,868,524	20
1.50	4.22	2.19	1.78	0.91	1.85	1.27	0.89	1.04	4.46	1.04	3.39	21
27	10	34	6	195	119	29	33	88	3	71	3	22
3	1	4	1	90	7	5	9	6	.....	28	.....	23
.....	.....	.....	.....	85	.....	.....	9	.....	.....	31	.....	24
34	25	41	20	219	46	194	253	82	30	386	27	25
.....	.....	.....	.....	489	.....	.....	580	.....	.....	986	.....	26
.....	.....	.....	.....	226	.....	.....	696	.....	.....	1,222	.....	27
4	.....	.....	.....	15	6	3	2	22	.....	3	.....	28
1.0	.....	.....	.....	84.0	7.0	6.0	29.0	1.0	.....	125.0	.....	29
.....	.....	.....	.....	118	.....	.....	21	.....	.....	53	.....	30
.....	.....	.....	.....	91	.....	.....	34	.....	.....	98	.....	31
20	1	1	6	432	160	129	230	86	2	1,608	4	32
.....	.....	.....	.....	1,258	.....	.....	53	.....	.....	600	.....	33
.....	.....	.....	.....	666	.....	.....	1	.....	.....	742	.....	34
2.9	1.6	.....	.....	0.9	0.1	.....	.....	1.0	0.2	0.1	.....	35
.....	.....	.....	.....	7	.....	.....	.....	12	.....	3	.....	36
.....	.....	.....	.....	22	1	2	3	14	.....	8	.....	37
.....	.....	.....	.....	4	.....	.....	1	.....	.....	.....	.....	38
.....	.....	.....	.....	13	.....	.....	2	.....	.....	1	.....	39
.....	.....	.....	.....	6,385	(1)	(1)	9	555	.....	25,056	.....	40
.....	.....	.....	.....	65,003	.....	.....	40	.....	.....	.....	.....	41
.....	.....	.....	.....	237	.....	.....	41	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	1,030	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
15	8	43	.....	617	144	34	59	78	3	251	.....	49
.....	.....	.....	.....	404	.....	.....	19	.....	.....	173	.....	50
.....	.....	.....	.....	368	.....	.....	11	.....	.....	165	.....	51
9,550	3,180	35,550	.....	227,310	76,535	24,880	36,840	59,613	1,600	99,675	.....	52
.....	.....	.....	.....	141,860	.....	.....	8,430	.....	.....	92,960	.....	53
.....	.....	.....	.....	102,611	.....	.....	8,500	.....	.....	98,515	.....	54
27	10	41	7	236	133	30	34	101	3	76	3	55
.....	.....	.....	.....	93	.....	.....	6	.....	.....	31	.....	56
.....	.....	.....	.....	81	.....	.....	6	.....	.....	30	.....	57
572	159	741	105	4,680	1,951	654	400	3,240	12	1,763	30	58
.....	.....	.....	.....	1,799	.....	.....	111	.....	.....	1,123	.....	59
.....	.....	.....	.....	1,493	.....	.....	126	.....	.....	2,085	.....	60
19,830	5,030	36,350	3,680	259,115	98,285	28,180	38,640	118,660	1,600	103,475	2,400	61
.....	.....	.....	.....	141,010	.....	.....	8,430	.....	.....	92,960	.....	62
.....	.....	.....	.....	107,311	.....	.....	9,200	.....	.....	97,615	.....	63
40	20	22	26	29	26	36	20	45	14	35	25	64
.....	.....	.....	.....	19	.....	.....	16	.....	.....	27	.....	65
.....	.....	.....	.....	26	.....	.....	20	.....	.....	32	.....	66
54	23	22	.....	29	27	37	20	53	14	36	.....	67
.....	.....	.....	.....	3	1	.....	3	.....	.....	3	.....	68
.....	.....	.....	.....	19,079	(1)	.....	5,237	.....	.....	16,000	.....	69
.....	.....	.....	.....	7,519	(1)	.....	1,505	.....	.....	6,052	.....	70
.....	.....	.....	.....	20	(1)	.....	40	.....	.....	14	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Meade	Ness	Norton	Osborne	Pawnee	Phillips	Rawlins
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	10,629,488	11,285,684	9,179,873	11,684,324	19,550,472	9,891,596	13,407,388
2	Land and buildings, irrigated farms.....dollars..	335,400	716,135	177,900	53,110	1,880,694	23,200	73,837
	Operated by—							
3	(a) Owners and managers.....dollars..	251,000	594,335	164,400	48,110	1,011,734	(2)	69,837
4	(b) Tenants.....dollars..	84,400	121,800	13,500	(2)	868,960	(2)	(2)
5	Average, land and buildings, per farm.....dollars..	20,962.50	14,919.48	11,860.00	13,277.50	24,424.60	7,733.33	6,153.08
6	per acre in farms.....dollars..	23.53	17.23	17.11	36.55	48.46	24.42	25.88
7	Buildings, irrigated farms reporting value.....number...	15	48	14	3	72	2	11
8	Total reported.....dollars..	37,200	119,390	41,300	3,160	283,914	(2)	22,250
9	Average, per irrigated farm reporting.....dollars..	2,480.00	2,487.29	2,950.00	1,053.33	3,943.25	(2)	2,022.73
10	per acre on all irrigated farms.....dollars..	2.61	2.87	3.97	2.17	7.32	(2)	7.80
11	Buildings, nonirrigated farms reporting value.....number...	655	903	1,295	1,336	938	1,509	952
12	Total reported.....dollars..	1,298,736	1,457,471	1,803,304	1,883,065	2,263,070	1,886,165	2,101,010
13	Average, per nonirrigated farm reporting.....dollars..	1,982.80	1,614.03	1,392.51	1,409.48	2,412.65	1,249.94	2,206.94
14	per acre on all nonirrigated farms.....dollars..	2.37	2.36	3.36	3.45	5.10	3.40	3.05
15	Implements and machinery, irrigated farms reporting value..number...	16	45	15	4	73	3	11
16	Total reported.....dollars..	31,465	60,385	15,870	4,550	162,518	3,600	5,480
17	Average, per irrigated farm reporting.....dollars..	1,966.56	1,341.89	1,058.00	1,137.50	2,226.27	1,200.00	498.18
18	per acre, on all irrigated farms.....dollars..	2.21	1.45	1.53	3.13	4.19	3.79	1.92
19	Implements and machinery, nonirrigated farms reporting value.....number...	675	903	1,201	1,332	931	1,451	1,031
20	Total reported.....dollars..	859,191	847,380	811,107	1,189,489	1,333,025	909,492	1,477,563
21	Average, per acre, on all nonirrigated farms.....dollars..	1.57	1.37	1.51	2.18	3.00	1.64	2.14
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	18	15	9	3	71	4	6
23	1930...number.....	1	2	2	1	30	2	2
24	1920...number.....	.....	.....	.....	.....	16	.....	.....
25	Average size of enterprise based on irrigable area.....1940...acres.....	67	82	67	67	108	35	35
26	1930...acres.....	.....	.....	.....	.....	170	.....	.....
27	1920[3]...acres.....	.....	.....	.....	.....	164	.....	.....
28	Diversion dams.....1940...number.....	3	8	.....	.....	6	3	1
29	Main canals and laterals.....1940...length, miles.....	1.0	3.0	.....	0.1	11.0	.....	.....
30	1930...length, miles.....	.....	.....	.....	.....	55	.....	.....
31	1920...length, miles.....	.....	.....	.....	.....	70	.....	.....
32	1940...capacity, c.f.s.[4]....	26	91	22	8	166	5	1
33	1930...capacity, c.f.s.[4]....	.....	.....	.....	.....	89	.....	.....
34	1920...capacity, c.f.s.[4]....	.....	.....	.....	.....	118	.....	.....
35	Pipe lines[5].....1940...length, miles.....	.....	.....	0.6	1.4	0.2	0.3	.....
36	Storage dams.....1940...number.....	2	2	5	.....	4	.....	.....
37	Reservoirs.....1940...number.....	4	3	6	.....	5	.....	.....
38	1930...number.....	.....	.....	.....	.....	4	.....	.....
39	1920...number.....	.....	.....	.....	.....	3	.....	.....
40	1940...capacity, acre-feet..	109	16	162	.....	216	.....	.....
41	1930...capacity, acre-feet..	.....	.....	.....	.....	1,242	.....	.....
42	1920...capacity, acre-feet..	.....	.....	.....	.....	101	.....	.....
43	Wells, flowing.....1940...number.....	20	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	423	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	7	35	4	.....	75	2	4
50	1930...number.....	.....	.....	.....	.....	34	.....	.....
51	1920...number.....	.....	.....	.....	.....	7	.....	.....
52	1940...yield, g.p.m.....	6,400	30,650	1,650	.....	53,310	(2)	1,790
53	1930...yield, g.p.m.....	.....	.....	.....	.....	23,110	.....	.....
54	1920...yield, g.p.m.....	.....	.....	.....	.....	4,590	.....	.....
55	Pumping plants.....1940...number.....	11	52	12	3	87	4	8
56	1930...number.....	.....	.....	.....	.....	36	.....	.....
57	1920...number.....	.....	.....	.....	.....	17	.....	.....
58	Prime movers.....1940...capacity, hp.....	274	1,076	258	80	2,179	14	52
59	1930...capacity, hp.....	.....	.....	.....	.....	768	.....	.....
60	1920...capacity, hp.....	.....	.....	.....	.....	397	.....	.....
61	Pumps.....1940...capacity, g.p.m.....	14,400	56,530	11,475	3,850	104,210	1,000	3,990
62	1930...capacity, g.p.m.....	.....	.....	.....	.....	47,500	.....	.....
63	1920...capacity, g.p.m.....	.....	.....	.....	.....	21,390	.....	.....
64	Pumping lift, from all sources.....1940...average, feet.....	33	34	35	37	31	29	36
65	1930...average, feet.....	.....	.....	.....	.....	28	.....	.....
66	1920...average, feet.....	.....	.....	.....	.....	27	.....	.....
67	from pumped wells.....1940...average, feet.....	44	38	22	.....	34	(2)	54
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	.....	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises.....acres....	.....	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable.....dollars..	.....	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29.....number...	.....	.....	.....	.....	.....	.....	.....

*Census of Agriculture.
[1]Data between census years not comparable (see headnote).
[2]Data are included only in State totals because less than 3 farms or 3 enterprises reported in the 1940 Census.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Rush	Saline	Scott	Shawnee	Sheridan	Stafford	Stanton	Trego	Wallace	Washington	Wichita	All other counties	
14,865,396	19,496,654	5,658,791	18,370,132	8,029,836	22,443,919	2,732,192	8,897,293	2,632,089	20,765,055	3,737,293	960,704,401	1
820,950	107,000	1,491,837	615,200	75,060	299,840	53,200	49,600	59,900	206,420	92,780	3,955,900	2
606,550	78,000	963,235	611,600	50,760	228,540	53,200	37,600	46,100	186,420	87,630	3,298,770	3
214,400	29,000	528,602	3,600	24,300	73,300	.....	12,000	13,800	20,000	5,150	657,130	4
16,754.08	13,375.00	15,870.61	25,633.33	9,382.50	23,064.62	13,300.00	9,920.00	8,557.14	20,642.00	10,308.89	14,490.48	5
39.03	105.84	19.03	261.56	13.21	47.59	10.76	19.84	5.80	4[illegible].88	9.53	22.45	6
46	8	90	22	7	13	4	4	7	10	9	266	7
104,715	(2)	186,160	(2)	12,025	60,200	12,200	(2)	(2)	(2)	(2)	784,064	8
2,276.41	2,875.00	2,068.44	6,918.18	1,717.86	4,630.77	3,050.00	2,000.00	1,600.00	3,857.50	1,632.78	2,947.61	9
4.98	22.75	2.37	54.71	2.12	9.56	2.47	3.20	1.08	8.76	1.51	4.45	10
941	1,502	314	2,104	810	1,184	167	818	285	2,514	300	103,173	11
1,692,428	3,135,460	454,015	4,816,324	1,383,126	2,580,595	197,395	1,193,930	304,425	4,879,285	459,067	179,578,436	12
1,798.54	2,087.52	1,445.91	2,289.13	1,707.56	2,179.56	1,182.01	1,459.57	1,068.16	1,940.85	1,530.22	1,740.56	13
3.90	7.59	1.28	15.73	2.54	5.37	0.60	2.22	0.67	9.01	1.15	6.01	14
47	7	94	20	7	11	4	5	7	10	9	249	15
70,285	9,400	178,694	15,660	8,550	27,540	7,200	3,150	6,570	16,208	12,730	340,827	16
1,495.43	1,342.86	1,901.00	783.00	1,221.43	2,503.64	1,800.00	630.00	938.57	1,620.80	1,414.44	1,368.78	17
3.34	9.30	2.28	6.66	1.51	4.37	1.46	1.26	0.64	3.68	1.31	1.93	18
987	1,445	352	1,777	810	1,199	191	837	289	2,400	298	97,050	19
1,097,392	1,383,864	467,830	1,048,583	891,872	1,857,671	378,195	690,450	244,812	1,824,124	435,366	77,008,997	20
2.53	3.35	1.31	3.42	1.64	3.87	1.15	1.28	0.53	3.37	1.09	2.58	21
50	7	70	25	6	3	4	5	8	9	13	42	22
1	2	8	1	2	3	.....	.....	2	3	1	73	23
.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	53	24
41	32	281	31	33	52	295	40	79	53	108	80	25
.....	.....	645	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	2,514	.....	.....	.....	.....	.....	.....	.....	.....	81	27
18	.....	1	.....	.....	.....	.....	.....	1	2	2	2	28
6.3	.....	5.0	.....	.....	.....	1.0	.....	2.0	2.0	.....	8.1	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29	30
.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	102	31
147	9	5	1	.....	.....	6	2	13	13	4	112	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41	33
.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	104	34
0.3	0.2	0.7	2.9	.....	.....	.....	.....	.....	0.2	0.1	3.6	35
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	36
1	.....	4	.....	.....	.....	.....	.....	.....	.....	1	3	37
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	9	38
.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	10	39
(2)	.....	15	.....	.....	.....	.....	.....	.....	.....	(2)	25	40
.....	.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	7	41
.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	3	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(2)	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	500	48
24	1	87	29	8	3	4	3	16	1	11	21	49
.....	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	116	50
.....	.....	54	.....	.....	.....	.....	.....	.....	.....	.....	105	51
20,150	(2)	87,410	12,160	3,850	2,860	3,400	1,700	7,725	(2)	8,150	14,890	52
.....	.....	20,850	.....	.....	.....	.....	.....	.....	.....	.....	33,740	53
.....	.....	32,050	.....	.....	.....	.....	.....	.....	.....	.....	20,531	54
63	7	91	30	6	3	5	6	10	9	15	46	55
.....	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	94	56
.....	.....	13	.....	.....	.....	.....	.....	.....	.....	.....	51	57
1,553	35	3,374	192	76	70	193	112	195	94	489	910	58
.....	.....	930	.....	.....	.....	.....	.....	.....	.....	.....	1,445	59
.....	.....	1,930	.....	.....	.....	.....	.....	.....	.....	.....	915	60
74,400	3,300	91,160	12,680	3,850	2,860	5,900	4,000	10,150	8,350	15,000	39,240	61
.....	.....	20,550	.....	.....	.....	.....	.....	.....	.....	.....	80,226	62
.....	.....	32,350	.....	.....	.....	.....	.....	.....	.....	.....	30,109	63
38	20	67	28	36	27	81	51	25	21	63	37	64
.....	.....	64	.....	.....	.....	.....	.....	.....	.....	.....	28	65
.....	.....	67	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
48	(2)	70	29	36	27	91	65	24	(2)	78	47	67
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[4]28,913,280	29,061,760	29,061,760	29,061,760	29,061,760	29,061,760	29,061,760
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	150,007	170,216	161,445	135,463	120,546	115,969	69,294
Land in all farms.....acres....	9,996,108	10,444,288	9,355,437	10,019,822	10,439,481	11,059,127	9,541,219
Farms irrigated:[1]							
Farms.....number...	7,037	6,585	5,588	6,471	2,690	4,531	[2]
Increase or decrease (-) over preceding census....percent..	[3]25.9	.....	-13.6	140.6	-40.6	.....	.....
Proportion of all farms.....percent..	4.7	3.9	3.5	4.8	2.2	3.9	.....
Land in farms.....acres....	1,066,655	[2]	892,604	[2]	[2]	[2]	[2]
Proportion of all farm land.....percent..	10.7	[2]	9.5	[2]	[2]	[2]	[2]
Area irrigated.....acres....	[4]413,969	[5]361,943	[6]400,375	[7]	[7]	201,685	84,377
Increase or decrease (-) over preceding census....percent..	[3]3.4	.....	.....	.....	.....	139.0	.....
Proportion of total land area of State.....percent..	1.4	1.2	1.4	.....	.....	0.7	0.3
Proportion of all farm land.....percent..	4.1	3.5	4.3	.....	.....	1.8	0.9
Value of irrigated farms (land and buildings).....dollars..	45,182,979	[2]	45,496,283	[2]	[2]	[2]	[2]
Average per farm.....dollars..	6,420.77	[2]	8,141.78	[2]	[2]	[2]	[2]
Average per acre.....dollars..	42.36	[2]	50.97	[2]	[2]	[2]	[2]
Value of farm implements and machinery[8].....dollars..	7,291,697	[2]	5,179,941	[2]	[2]	[2]	[2]
Average per farm[8].....dollars..	1,036.19	[2]	926.98	[2]	[2]	[2]	[2]
Average per acre[8].....dollars..	6.84	[2]	5.80	[2]	[2]	[2]	[2]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	2,566	[2]	2,352	1,373	1,237	[2]	[2]
Farms irrigated.....number...	7,305	[2]	[2]	[2]	[2]	[2]	[2]
Area irrigated.....acres....	447,095	[2]	450,901	454,882	380,200	[2]	[2]
Area existing works were capable of supplying with water.....acres....	759,915	[2]	795,165	728,742	553,220	[2]	[2]
Area irrigable.....acres....	793,674	[2]	850,401	[9]851,211	[9]581,965	[2]	[2]
Additional area existing works were capable of supplying with water.....acres....	312,820	[2]	344,264	273,860	173,020	[2]	[2]
Additional irrigable area in enterprises not supplied with water.....acres....	346,579	[2]	399,500	[9]396,329	[9]201,765	[2]	[2]
Investment in irrigation enterprises.....dollars..	11,565,513	[2]	15,744,743	14,063,181	6,859,166	2,529,319	[2]
Increase or decrease (-) over preceding census.....percent..	[3]-26.5	[2]	12.0	105.0	171.2	.....	.....
Average per acre based on area works were capable of supplying with water.....dollars..	15.22	[2]	19.80	19.30	12.40	[2]	[2]
Increase or decrease (-) over preceding census....percent..	[3]-23.1	[2]	2.6	55.6	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	11,659,725	[2]	15,771,003	14,264,178	6,914,166	[2]	[2]
Average per acre based on irrigable area in enterprises.....dollars..	14.69	[2]	18.55	[9]16.76	[9]11.88	[2]	[2]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	3.65	[2]	4.09	7.01	[2]	[2]	[2]

[1]Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2]Not available. [3]Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [4]Irrigated land from which crops were harvested plus 2,110 acres of irrigated land used only for pasture. [5]Irrigated land from which crops were harvested. [6]Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7]Data were secured for crops irrigated but the returns were considered relatively incomplete. [8]Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9]For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [10]The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture, 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	150,007	9,996,108	4,051,670	411,859	2,110	353,873,506	35.40	91,393,625	9.14	35,804,852	3.58
Owners and managers.....	60,840	6,362,988	2,015,993	217,405	1,287	218,599,656	34.35	62,611,589	9.84	24,658,665	3.88
Tenants.....	89,167	3,633,120	2,035,677	194,454	823	135,273,850	37.23	28,782,036	7.92	11,146,187	3.07
Irrigated farms, total.....	7,037	1,066,655	494,290	411,859	2,110	45,182,979	42.36	8,019,180	7.52	7,291,697	6.84
Owners and managers.....	3,807	642,822	268,274	217,405	1,287	28,353,724	44.11	5,670,053	8.82	4,607,569	7.17
Tenants.....	3,230	423,833	226,016	194,454	823	16,829,255	39.71	2,349,127	5.54	2,684,128	6.33
Wholly irrigated farms.....	1,964	399,977	185,402	185,402	837	16,515,252	41.29	2,401,066	6.00	2,752,883	6.88
Owners and managers.....	958	209,442	82,080	82,080	156	9,342,292	44.61	1,601,297	7.65	1,468,098	7.01
Tenants.....	1,006	190,535	103,322	103,322	681	7,172,960	37.65	799,769	4.20	1,284,785	6.74
Partly irrigated farms.....	5,073	666,678	308,888	226,457	1,273	28,667,727	43.00	5,618,114	8.43	4,538,814	6.81
Owners and managers.....	2,849	433,380	186,194	135,325	1,131	19,011,432	43.87	4,068,756	9.39	3,139,471	7.24
Tenants.....	2,224	233,298	122,694	91,132	142	9,656,295	41.39	1,549,358	6.64	1,399,343	6.00
Nonirrigated farms, total.....	142,970	8,929,453	3,557,380	.....	.....	308,690,527	34.57	83,374,445	9.34	28,513,155	3.19

[1]Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2]Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS. 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	2,566	793,674	759,915	447,095	450,901	454,882	-0.8	367,081	437,631	358,899	2.4	4.28	1.77
Primary sources:													
Streams, gravity	35	981	981	494	1,611	10,226	-69.3	357	422	333	1.9	0.34	0.18
Streams, pumped	466	439,654	420,321	247,190	257,390	248,306	-4.0	180,870	244,956	178,973	2.8	5.17	1.86
Streams, gravity and pumped	8	2,665	2,665	1,830	.....	12,620	.....	1,655	1,830	1,655	3.9	2.64	0.68
Wells, pumped	1,138	228,674	220,316	135,192	172,695	154,304	-21.7	127,252	132,080	124,879	2.2	3.70	1.65
Wells, flowing	334	1,927	1,923	1,372	2,896	196	-52.6	1,355	380	365	0.8	1.88	2.44
Wells, pumped and flowing	39	393	393	214	196	1,075	9.2	214	190	190	1.3	5.94	4.68
Lakes, gravity	32	2,163	2,163	1,096	515	3,225	112.8	594	947	445	1.5	1.80	1.24
Lakes, pumped	50	13,480	12,190	6,528	1,459	6,966	347.4	6,328	6,358	6,258	2.4	4.55	1.93
Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	73	1,629	1,629	1,376	2,271	84	-39.4	1,327	1,342	1,319	1.8	2.59	1.41
City water	16	494	448	441	.....	.....	.....	427	439	425	0.9	0.48	0.52
Sewage	1												
Streams, gravity; wells, pumped	6	4,396	4,396	3,775	.....	10,045	.....	2,561	1,475	261	1.3	5.17	3.93
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	20	18,249	14,894	9,202	.....	.....	.....	7,463	9,202	7,463	1.4	2.74	2.02
Waste water, seepage or drainage	312	66,561	65,988	31,640	.....	.....	.....	30,937	31,265	30,592	1.4	1.46	1.01
Other mixed	20	12,408	11,608	6,745	11,695	7,835	-42.3	5,741	6,745	5,741	1.9	7.21	3.78
Other and not reported	.....	.....	.....	.....	173	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[2]													
Streams, gravity and/or storage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	1	4,792	4,342	2,579	260	.....	891.9	2,579	2,434	2,434	0.8	1.51	1.84
Wells, pumped	15												
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals, (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	11,565,513	100.0	15.22	15,744,743	100.0	19.80	-4.58	436,931	3.65	431,337	4.09	-0.43	431,413	7.01
Primary sources:														
Streams, gravity	4,223	(3)	4.30	17,288	0.1	7.80	-3.50	422	0.73	1,596	2.42	-1.69	9,937	3.69
Streams, pumped	6,297,829	54.5	14.98	8,831,806	56.1	17.04	-2.06	244,256	4.05	248,802	3.66	0.39	242,282	7.76
Streams, gravity and pumped	26,950	0.2	10.11	.....	.....	.....	.....	1,830	2.70	.....	.....	.....	12,550	6.06
Wells, pumped	4,159,334	36.0	18.88	6,013,183	38.2	25.05	-6.17	132,080	3.48	163,313	4.45	-0.97	140,659	5.95
Wells, flowing	128,300	1.1	66.72	249,656	1.6	71.43	-4.71	380	1.93	1,559	2.71	-0.78	189	2.25
Wells, pumped and flowing	21,169	0.2	53.87	17,326	0.1	78.75	-24.88	190	5.94	173	3.90	2.04	1,075	4.19
Lakes, gravity	3,510	(3)	1.62	2,225	(3)	2.32	-0.70	947	1.04	515	0.59	0.45	2,480	3.21
Lakes, pumped	125,515	1.1	10.30	46,750	0.3	25.15	-14.85	6,358	4.49	1,432	2.97	1.52	6,716	9.17
Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	14,840	0.1	9.11	17,779	0.1	6.09	3.02	1,342	2.55	2,252	0.80	1.75	10	5.00
City water	1,143	(3)	2.55	.....	.....	.....	.....	439	0.47	.....	.....	.....	.....	.....
Sewage														
Streams, gravity; wells, pumped	39,850	0.3	9.07	.....	.....	.....	.....	1,475	4.31	.....	.....	.....	9,115	10.69
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	240,464	2.1	16.15	.....	.....	.....	.....	9,202	2.62	.....	.....	.....	.....	.....
Waste water, seepage or drainage	233,150	2.0	3.35	.....	.....	.....	.....	31,265	1.48	.....	.....	.....	.....	.....
Other mixed	252,535	2.2	21.76	533,225	3.4	21.25	0.51	6,745	3.39	11,695	9.55	-6.16	6,400	3.67
Other and not reported	.....	.....	.....	2,705	(3)	15.64	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]														
Streams, gravity and/or storage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped	16,701	0.1	3.85	12,800	0.1	7.76	-3.91	2,434	1.51	200	3.50	-1.99	.....	.....
Wells, pumped														
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals, (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
	Acres	*Acres*	*Acres*	*Acres*	*Percent*
AREA IRRIGATED					
Total	447,095	2,579	450,901	454,882	-0.8
Individual and partnership	248,664	2,579	226,259	259,673	9.9
Cooperative, incorporated	36,939	.....	.....	.....	.....
Cooperative, unincorporated	1,701	.....	.....	10,635	.....
Commercial	159,764	.....	224,625	184,574	-28.9
State	27	.....	17	.....	58.8
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	759,915	4,342	795,165	728,742	-4.4
Individual and partnership	419,739	4,342	334,045	375,917	25.7
Cooperative, incorporated	41,930	.....	.....	.....	.....
Cooperative, unincorporated	5,330	.....	.....	20,325	.....
Commercial	292,805	.....	461,060	332,500	-36.5
State	111	.....	60	.....	85.0
IRRIGABLE AREA[2]					
Total	793,674	4,792	850,401	851,211	-6.7
Individual and partnership	432,818	4,792	374,306	468,126	15.6
Cooperative, incorporated	43,930	.....	.....	.....	.....
Cooperative, unincorporated	5,510	.....	.....	20,685	.....
Commercial	311,305	.....	476,035	362,400	-34.6
State	111	.....	60	.....	85.0

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] For 1920 relates to total area. Irrigable area for that year was not reported.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises Works and equipment per acre[2]	AVERAGE COST Primary enterprises Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1] Farms served	Total area ✓	Cropland From which crops were harvested	Cropland On which crops failed	Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	2,566	109	793,674	759,915	15.20	3.64	3.85	1.51	7,305	447,095	442,317	1,078	3,700
Individual and partnership	2,517	75	432,818	419,739	13.78	2.84	3.85	1.51	3,673	248,664	243,926	1,038	3,700
Cooperative, incorporated	8	6	43,930	41,930	17.20	3.78	.....	.....	398	36,939	36,939	.....	.....
Cooperative, unincorporated	12	1	5,510	5,330	8.43	4.64	.....	.....	29	1,701	1,661	40	.....
Commercial	28	27	311,305	292,805	17.07	4.79	.....	.....	3,204	159,764	159,764	.....	.....
State	[4]1	.....	111	111	23.42	24.52	.....	.....	1	27	27	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1 — 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights[2]	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	11,565,513	11,548,812	16,701	11,565,513	.....	15,744,743	14,063,181	-26.5	15.20	3.85	117,704	94,212
Individual and partnership	5,799,128	5,782,427	16,701	5,799,128	.....	6,984,092	7,943,252	-17.0	13.78	3.85	23,838	48,212
Cooperative, incorporated	721,172	721,172	.....	721,172	.....	.....	161,658	.....	17.20	.....	4,770	3,000
Cooperative, unincorporated	44,925	44,925	.....	44,925	.....	.....	.....	.....	8.43	.....	.....	.....
Commercial	4,997,688	4,997,688	.....	4,997,688	.....	8,757,151	5,958,271	-42.9	17.07	.....	89,096	43,000
State	2,600	2,600	.....	2,600	.....	3,500	.....	-25.7	23.42	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Water rights have no legal status in Louisiana.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	36	232,305	226,905	2,748,768	18.87	12.11	11	1,137,646	1,078,511	18.85	245,975	1,259,711	542,853
Partnership	17	14,960	13,560	78,000	6.45	5.75	2	7,333	5,746	0.51	44,137	188,564	41,070
Cooperative, incorporated	4	32,000	30,000	245,484	9.61	8.18	1				36,554	166,872	131,879
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	320	2,240	3,215
Commercial	15	185,345	183,345	2,425,284	22.46	13.23	8	1,130,313	1,072,765	24.55	164,964	902,035	366,689
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. No supplemental enterprises reported indebtedness in this State.
[2] In payment of principal, interest, and/or other funded obligations.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	436,931	1,589,007	2,434	3,683	3.64	1.51	91	502,320	802
Individual and partnership	238,636	676,728	2,434	3,683	2.84	1.51	58	69,655	196
Cooperative, incorporated	36,939	139,565	.....	.....	3.78	.....	7	58,720	82
Cooperative, unincorporated	1,565	7,266	.....	.....	4.64	.....			
Commercial	159,764	764,786	.....	.....	4.79	.....	26	373,945	524
State	27	662	.....	.....	24.52	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.

STATE TABLE 10—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS			PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]										Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*			*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	105	114	10,335	2,397	24.0	75	34,199	63.6	502	12,695	12,695	1,504	1,526,613	2,326	85,574	2,403	6,453,487
Individual and partnership	104	[3] 112	4,215	1,075	21.6	73	26,449	51.6	501	12,675	12,675	1,489	1,489,007	2,216	61,671	2,298	3,314,381
Cooperative, incorporated	1	.....	1,121	236	0.2	.....	.....	0.5	....	.....	.....	1	1,000	20	3,977	18	604,000
Cooperative, unincorporated	.....	.....	259	5	.....	.....	.....	.....	1	20	20	7	14,806	11	558	11	45,506
Commercial	.....	2	4,740	1,081	2.2	2	7,750	11.5	....	.....	.....	6	20,000	78	19,308	75	2,487,800
State	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	1	1,800	1	60	1	1,800

[1] Includes main and lateral canals but not farm ditches.
[2] Includes flumes.
[3] A number of storage dams were reported without corresponding reservoirs or their capacities.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	105	114	36	81
Concrete or masonry	3	1	1	.....
Timber	15	19	.....	.....
Earth and rock	45	91	.....	69
Other and mixed	.....	2	[1] 34	10
Not reported	42	1	1	2

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	2,403	100.0	6,453,487	100.0	32
Electric motor	**284**	**11.8**	**688,807**	**10.7**	**39**
Centrifugal	202	8.4	480,405	7.4	37
Turbine	57	2.4	170,840	2.6	58
Plunger	20	0.8	212	(1)	10
Other	5	0.2	37,350	0.6	37
Internal-combustion engine	**1,994**	**83.0**	**3,848,963**	**59.6**	**31**
Centrifugal	1,389	57.8	2,671,569	41.4	26
Turbine	479	19.9	912,316	14.1	47
Plunger	42	1.7	856	(1)	15
Other	84	3.5	264,222	4.1	25
Other kinds of motive power	**37**	**1.5**	**467,440**	**7.2**	**21**
Centrifugal	26	1.1	452,640	7.0	21
Turbine	3	0.1	6,700	0.1	38
Plunger	.....	.....	.....	.....	.....
Other	8	0.3	8,100	0.1	9
Mixed kinds of motive power	**88**	**3.7**	**1,448,277**	**22.5**	**30**
Centrifugal	71	3.0	1,108,305	17.2	29
Turbine	7	0.3	12,500	0.2	61
Plunger	2	0.1	12	(1)	10
Other	8	0.3	327,460	5.1	22
Total, 1930	2,000	.....	5,914,799	.....	37
Increase or decrease (-) 1930-1940	403	.....	538,688	.....	-5

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp*	*Percent*
Total, 1940	2,326	100.0	85,574	100.0
Centrifugal pump	**1,575**	**67.7**	**44,628**	**52.2**
Electric	209	9.0	6,635	7.8
Internal-combustion	1,330	57.2	29,041	33.9
Other	36	1.5	8,952	10.5
Turbine pump	**529**	**22.8**	**31,113**	**36.3**
Electric	57	2.5	3,787	4.4
Internal-combustion	469	20.2	27,146	31.7
Other	3	0.1	180	0.2
Plunger pump	**63**	**2.7**	**103**	**0.1**
Electric	21	0.9	22	(1)
Internal-combustion	42	1.8	81	0.1
Other	.....	.....	.....	.....
Other and mixed types of pumps	**159**	**6.8**	**9,730**	**11.4**
Electric	14	0.6	1,647	1.9
Internal-combustion	135	5.8	6,578	7.7
Other	10	0.4	1,505	1.8
Total, 1930	(2) 1,790	.....	86,413	.....
Increase or decrease (-) 1930-1940	536	.....	-839	.....

(1) Less than one-tenth of 1 percent.

(2) Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH 1940 (1)	LENGTH 1930 (2)	Increase or decrease (-) 1930-1940
	Miles	*Miles*	*Percent*
Total	63.6	15.1	321.2
Concrete:			
1 to 12 inches	6.1	.....	.....
13 to 24 inches	6.7	.....	.....
Over 24 inches	2.6	.....	.....
Metal:			
1 to 12 inches	20.5	10.3	99.0
13 to 24 inches	19.8	4.3	369.8
Over 24 inches	0.4		
Wood-stave:			
1 to 12 inches	5.5	0.3	(3)
13 to 24 inches	0.1	0.2	100.0
Over 24 inches	0.3		
Clay and other:			
1 to 12 inches	1.1	.....	.....
13 to 24 inches	0.5	.....	.....
Over 24 inches	.....	.....	.....

(1) Includes siphons and farm pipe lines reported.

(2) Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

(3) Percent not shown when more than 1,000.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	633	577	406
Area irrigable in these enterprises.....acres....	214,408	226,510	(1) 283,476
Area irrigated in these enterprises.....acres....	101,321	(2)	(2)
Area for which drains have been installed.....acres....	174,848	169,577	167,138
Additional area needing drainage.....acres....	12,379	18,832	21,202
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	172.6	(3) 74.9	(1) 59.0
(b) All irrigation enterprises.....percent..	39.1	37.6	36.7
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	87.3	83.2	(1) 66.4
(b) Irrigated area reporting.....percent..	184.8	(2)	(2)

(1) For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. (2) Not available. (3) Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919[1]	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	714,760	471,354	198,942	.....	.....	7,022	714,760	471,354	191,920
Area irrigated by these enterprises.....acres.....	208,397	166,224	65,424	.....	.....	780	208,397	166,224	64,644
Average water per acre irrigated.....acre-feet..	3.4	2.8	3.0	.....	.....	9.0	3.4	2.8	3.0
Total water delivered to irrigators.....acre-feet..	541,298	33,180	16,497	.....	.....	.....	541,298	33,180	16,497
Area irrigated by these enterprises.....acres.....	201,425	21,219	7,994	.....	.....	.....	201,425	21,219	7,994
Average water per acre irrigated.....acre-feet..	2.7	1.6	2.1	.....	.....	.....	2.7	1.6	2.1
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	342,722	.....	.....	.....	.....	.....	342,722	.....	.....
Area irrigated by these enterprises.....acres.....	165,656	.....	.....	.....	.....	.....	165,656	.....	.....
Average water per acre irrigated.....acre-feet..	2.1	.....	.....	.....	.....	.....	2.1	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	243	.....	.....	.....	.....	.....	243	.....	.....
Area irrigated by these enterprises.....acres.....	150	.....	.....	.....	.....	.....	150	.....	.....
Average water per acre irrigated.....acre-feet..	1.6	.....	.....	.....	.....	.....	1.6	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	1,873	.....	.....	.....	.....	.....	1,873	.....	.....
Area irrigated by these enterprises.....acres.....	2,429	.....	.....	.....	.....	.....	2,429	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	.....	.....	.....	0.8	.....	.....

[1]Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	Parish	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
		Feet	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Mississippi River														
Tallulah	Madison	91	47.27	-2.17	8.23	-4.55	18.35	+2.72	9.51	-1.98	11.18	+1.54	65.8	+0.9
Natchez, Miss.	Adams Co. (Miss.)	206	56.88	+1.92	10.75	-2.66	20.52	+4.60	11.99	-1.51	13.62	+1.49	67.4	+0.8
Baton Rouge	East Baton Rouge	60	48.96	-10.33	6.99	-5.64	10.47	-4.81	17.03	+2.56	14.47	-2.44	68.8	+0.8
New Orleans	Orleans	9	49.81	-7.65	7.65	-3.58	7.64	-5.67	22.15	+6.43	12.37	-4.83	70.8	+1.5
Ouachita River														
Monroe	Ouachita	82	43.00	-9.79	6.91	-6.51	20.68	+5.42	8.79	-4.26	6.62	-4.44	(2)	(2)
Winnsboro	Franklin	57	55.02	+6.99	7.76	-4.94	24.63	+10.16	12.72	+0.68	9.91	+1.09	(2)	(2)
Red River														
Minden	Webster	194	39.60	-9.98	11.15	-1.14	19.55	+6.42	5.46	-7.69	3.44	-7.57	(2)	(2)
Shreveport	Caddo	197	37.86	-5.51	9.34	-1.29	16.60	+5.27	6.75	-5.60	5.17	-3.89	68.3	+2.5
Dodson	Winn	235	55.13	+6.19	7.53	-4.05	22.85	+8.21	12.44	+0.27	12.31	+1.76	(2)	(2)
Natchitoches	Natchitoches	120	55.58	+7.31	9.14	-3.79	25.12	+11.14	11.96	+0.08	9.36	-0.12	66.9	+0.6
Alexandria	Rapides	77	49.02	-7.86	9.89	-4.68	16.29	+0.50	12.66	-1.53	10.18	-2.15	67.9	+0.9
Calcasieu River														
De Ridder	Beauregard	208	45.13	-8.21	10.62	-3.62	14.58	-0.04	10.76	-3.09	9.17	-1.46	(2)	(2)
Lake Charles	Calcasieu	22	33.47	-24.15	7.68	-6.66	8.18	-4.62	5.34	-8.79	12.27	-4.08	(2)	(2)
Mermentau River														
Ville Platte	Evangeline	46	43.33	-14.54	8.81	-7.43	11.26	-4.33	10.32	-2.92	12.94	+0.14	(2)	(2)
Vermilion River														
Abbeville	Vermilion	12	53.92	-4.60	9.14	-4.62	7.23	-4.91	13.20	-1.57	24.36	+6.50	(2)	(2)
Bayou Terrebonne														
Houma	Terrebonne	13	49.91	-10.77	8.67	-4.90	5.54	-6.08	16.65	+3.02	19.05	-2.81	69.6	+0.8
Pearl River														
Franklinton	Washington	155	49.40	-11.49	9.02	-4.04	11.74	-5.30	15.32	+1.01	13.32	-3.16	(2)	(2)

[1]Departure from normal. [2]Not available.

Precipitation.—The average precipitation in Louisiana for 1939, 51.51 inches, was 3.94 inches below the normal, as reported by the U. S. Weather Bureau. The greatest annual total was 72.29 inches at Urania; the least 31.66 inches at Lake Charles. The greatest local monthly total was 17.94 inches at Winnfield; the least was 0.16 of an inch at Lake Arthur (near). The greatest amount in 24 hours, 11.13 inches, occurred at Winnfield January 4-5. The average number of days with .01 or more was 98.

Temperature.—The mean temperature in Louisiana in 1939, 68.4°, was 1.0 above the normal. The highest mean, for 32 stations having a complete year's record, was 71.8° at Burrwood and the lowest was 65.8° at Tallulah. The highest monthly mean was 86.3° at Minden in July; and the lowest was 49.3° at Plain Dealing in January. The highest temperature recorded was 108° at Plain Dealing on July 15; the lowest was 20° at Pollock, on February 22, and at Monroe and Tallulah, on November 5. The greatest annual range was 86° at Plain Dealing; the least, 55° at Port Eads.

Winter crops made satisfactory progress during January and some plowing was done in the south; but farm work was hindered in the north by wet soil. Frequent rains retarded farm work during February, especially in the north. Good progress was made in March planting corn, potatoes, and truck. Carlot shipment of strawberries began on the 11th. Crops were retarded by cold during the first part of April, and cold and lack of moisture the latter part. Cotton germinated slowly and much replanting was necessary. The progress of crops was unsatisfactory during the first half of May, either because of dryness or cool nights, but warmer weather and adequate moisture during the latter half provided needed stimulation. Frequent showers to locally excessive rains during the first week of June seriously interfered with cultivation of crops. Crops made good progress during July, except cotton and corn which were damaged by too much rain during the last 10 days in some portions of the southeast and extreme south. Cotton picking and rice and sweetpotato harvesting made rapid progress during the last week of August. Conditions were mostly favorable for the progress and harvesting of crops during September.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	2,550	45	2,012	385	77	18	13
2	Irrigated farms, 1939.....number...	7,305	.....	2,012	995	664	989	2,645
3	Area irrigated, 1939.....acres....	447,095	.....	130,661	74,221	46,731	69,658	125,824
4	(a) From which crops were harvested.....acres....	442,317	.....	126,834	74,001	46,327	69,331	125,824
5	(b) On which crops failed.....acres....	1,078	.....	277	70	404	327	.....
6	(c) Irrigated pasture.....acres....	3,700	.....	3,550	150	.....	.....	.....
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	11,548,812	58,241	2,929,884	1,689,645	1,185,742	1,781,147	3,904,153
8	Cost of irrigation works and equipment.....dollars..	11,548,812	58,241	2,929,884	1,689,645	1,185,742	1,781,147	3,904,153
9	Area works were capable of supplying with water.....acres....	759,915	4,990	236,681	119,668	68,467	117,311	212,795
10	Average investment per acre irrigated.....dollars..	25.83	.....	22.42	22.77	25.37	25.57	31.03
11	Average investment per acre which the works could supply with water....dollars..	15.20	11.67	12.38	14.12	17.32	15.18	18.35
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
12	Enterprises reporting maintenance and operation.....number...	2,164	41	1,645	374	74	17	13
13	(a) Area irrigated in these enterprises.....acres....	436,931	.....	125,166	73,162	43,821	68,958	125,824
14	(b) Cost of maintenance and operation.....dollars..	1,589,007	60	389,653	208,463	144,788	270,896	575,147
15	(c) Average cost per irrigated acre reporting.....dollars..	3.64	.....	3.11	2.85	3.30	3.93	4.57
16	Total annual charges[2].....dollars..	1,259,711	.....	.....	.....	183,473	336,774	737,464
17	Average charge per irrigated acre reporting.....dollars..	5.27	.....	.....	.....	4.22	4.86	5.86
18	Area against which charges were assessed.....acres....	245,975	.....	.....	.....	43,493	76,658	125,824
19	Average annual charge per acre assessed.....dollars..	5.12	.....	.....	.....	4.22	4.42	5.86
20	Total charges collected[2].....dollars..	542,853	.....	.....	.....	40,925	124,768	377,160
	INDEBTEDNESS AND ARREARAGE, 1939							
21	Enterprises reporting indebtedness[3].....number...	36	.....	.....	.....	17	12	7
22	(a) Area irrigated in these enterprises.....acres....	145,657	.....	.....	.....	9,821	45,409	90,427
23	(b) Indebtedness.....dollars..	2,748,768	.....	.....	.....	80,400	876,299	1,792,069
24	(c) Average indebtedness per acre irrigated.....dollars..	18.87	.....	.....	.....	8.19	19.30	19.82
25	(d) Cost of irrigation works and equipment.....dollars..	4,374,198	.....	.....	.....	170,625	1,351,450	2,852,123
26	(e) Total investment.....dollars..	4,374,198	.....	.....	.....	170,625	1,351,450	2,852,123
27	(f) Maintenance and operation.....dollars..	615,426	.....	.....	.....	25,460	185,640	404,326
28	(g) Total annual charges[2].....dollars..	810,912	.....	.....	.....	40,746	247,430	522,736
29	(h) Total charges collected[2].....dollars..	259,597	.....	.....	.....	7,675	28,360	223,562
30	(i) Area against which annual charges were assessed.....acres....	145,657	.....	.....	.....	9,821	45,409	90,427
31	(j) Average indebtedness per acre assessed.....dollars..	18.87	.....	.....	.....	8.19	19.30	19.82
32	(k) Average charges per acre assessed.....dollars..	5.57	.....	.....	.....	4.15	5.45	5.78
33	(l) Average charges per acre irrigated.....dollars..	5.57	.....	.....	.....	4.15	5.45	5.78
34	Enterprises reporting arrearage[3].....number...	11	.....	.....	.....	3	5	3
35	(a) Area assessed in these enterprises.....acres....	60,361	.....	.....	.....	2,950	18,900	38,511
36	(b) Total arrearage.....dollars..	1,137,646	.....	.....	.....	14,240	373,103	750,303
37	(c) Average arrearage per acre assessed.....dollars..	18.85	.....	.....	.....	4.83	19.74	19.48
38	(d) Indebtedness.....dollars..	2,083,086	.....	.....	.....	37,500	578,434	1,467,152
	TYPE, 1940							
39	Individual and partnership.....number...	2,501	45	2,001	381	71	3	.....
40	Cooperative (incorporated and unincorporated).....number...	20	.....	9	4	2	3	2
41	Commercial.....number...	28	.....	1	.....	4	12	11
42	All other.....number...	1	.....	1	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
43	Enterprises reporting pay roll.....number...	91	.....	.....	.....	61	17	13
44	Wages and salaries paid and payable for 1939.....dollars..	502,320	.....	.....	.....	74,419	136,902	290,999
45	Persons employed during week ending April 29, 1939.....number...	802	.....	.....	.....	205	217	380
	SOURCE OF WATER SUPPLY, 1939							
46	Streams, gravity.....number...	35	1	17	17	.....	.....	.....
47	Streams, pumped.....number...	466	14	346	63	15	15	13
48	Wells, pumped.....number...	1,138	22	814	253	48	1	.....
49	Wells, pumped and flowing; or wells flowing.....number...	373	7	363	3	.....	.....	.....
50	Lakes, gravity or pumped.....number...	82	1	73	7	.....	1	.....
51	Mixed, streams and wells.....number...	34	.....	18	8	8	.....	.....
52	Other mixed or stored storm water.....number...	422	.....	381	34	6	1	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	16	1	12	3	.....	.....	.....
2	Irrigated farms, 1939.....number...	20	.....	12	8	.....	.....	.....
3	Area irrigated, 1939.....acres....	2,579	.....	1,285	1,294	.....	.....	.....
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..	16,701	11,228		5,473	.....	.....	.....
5	Cost of irrigation works and equipment.....dollars..	16,701	11,228		5,473	.....	.....	.....
6	Area works were capable of supplying with water.....acres....	4,342	2,742		1,600	.....	.....	.....
7	Average investment per acre irrigated.....dollars..	6.48	.....	7.96	4.23	.....	.....	.....
8	Average investment per acre which the works could supply with water....dollars..	3.85	4.09		3.42	.....	.....	.....
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
9	Enterprises reporting maintenance and operation.....number...	12	.....	9	3	.....	.....	.....
10	(a) Area irrigated in these enterprises.....acres....	2,434	.....	1,140	1,294	.....	.....	.....
11	(b) Cost of maintenance and operation.....dollars..	3,683	.....	1,533	2,150	.....	.....	.....
12	(c) Average cost per irrigated acre reporting.....dollars..	1.51	.....	1.34	1.66	.....	.....	.....
	TYPE, 1940							
13	Individual and partnership.....number...	16	1	12	3	.....	.....	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
14	Streams, pumped.....number...	1	.....	1	.....	.....	.....	.....
15	Wells, pumped or flowing.....number...	15	1	11	3	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
45	1,663	562	246	27	7	2,089	378	64	19	1
.....	1,847	969	932	1,794	1,763	2,562	857	1,007	2,879	2
.....	28,672	100,504	113,971	109,545	94,403	118,920	95,879	78,236	154,060	3
.....	28,051	98,987	111,658	109,218	94,403	115,205	94,963	78,089	154,060	4
.....	136	111	504	327	.....	632	299	147	.....	5
.....	485	1,406	1,809	.....	.....	3,083	617	.....	.....	6
58,241	882,066	2,533,151	2,280,160	2,939,181	2,856,013	1,398,595	3,070,838	2,082,195	4,997,184	7
58,241	882,066	2,533,151	2,280,160	2,939,181	2,856,013	1,398,595	3,070,838	2,082,195	4,997,184	8
4,990	66,024	179,344	158,848	208,989	141,720	199,301	160,884	134,435	265,295	9
.....	30.76	25.20	20.01	26.83	30.25	11.76	32.03	26.61	32.44	10
11.67	13.36	14.12	14.35	14.06	20.15	7.02	19.09	15.49	18.84	11
41	1,304	545	241	26	7	1,719	364	82	19	12
.....	25,979	97,591	111,713	107,245	94,403	113,825	93,410	75,636	154,060	13
60	95,755	304,568	304,773	471,931	411,920	285,249	292,636	304,861	706,261	14
.....	3.69	3.12	2.73	4.40	4.36	2.51	3.13	4.03	4.58	15
.....	.....	19,071	164,979	568,262	507,399	27,427	53,695	282,728	895,851	16
.....	.....	4.77	4.41	5.03	5.99	3.84	4.19	4.35	5.82	17
.....	.....	3,996	37,408	119,927	84,644	7,138	12,624	71,953	154,060	18
.....	.....	4.77	4.41	4.74	5.99	3.84	4.19	3.93	5.82	19
.....	.....	3,876	33,259	294,602	211,116	1,279	22,055	117,259	402,260	20
.....	.....	8	10	13	5	5	9	9	13	21
.....	.....	1,852	8,610	58,806	76,389	1,554	4,147	19,161	120,795	22
.....	.....	28,700	149,833	801,284	1,768,951	17,500	24,500	239,763	2,467,005	23
.....	.....	15.50	17.40	13.63	23.16	11.26	5.91	12.51	20.42	24
.....	.....	48,275	174,070	1,884,435	2,267,418	18,200	79,575	421,269	3,855,154	25
.....	.....	48,275	174,070	1,884,435	2,267,418	18,200	79,575	421,269	3,855,154	26
.....	.....	7,159	25,572	252,673	330,022	8,503	7,771	55,712	543,440	27
.....	.....	11,235	36,766	317,755	445,156	11,309	18,788	102,532	678,283	28
.....	.....	525	3,360	106,801	148,911	.....	3,885	7,150	248,562	29
.....	.....	1,852	8,610	58,806	76,389	1,554	4,147	19,161	120,795	30
.....	.....	15.50	17.40	13.63	23.16	11.26	5.91	12.51	20.42	31
.....	.....	6.07	4.27	5.40	5.83	7.28	4.53	5.35	5.62	32
.....	.....	6.07	4.27	5.40	5.83	7.28	4.53	5.35	5.62	33
.....	.....	1	2	5	3	1	.....	3	7	34
.....	.....	2,891		18,959	38,511	(4)	.....	[4] 4,741	55,620	35
.....	.....	68,441		318,902	750,303	(4)	.....	[4] 69,441	1,068,205	36
.....	.....	23.67		16.82	19.48	(4)	.....	[4] 14.65	19.21	37
.....	.....	135,033		480,901	1,467,152	(4)	.....	[4] 143,033	1,940,053	38
45	1,657	554	239	6	.....	2,075	376	50	.....	39
.....	5	7	3	3	2	11	2	4	3	40
.....	.....	1	4	18	5	2	.....	10	16	41
.....	1	.....	.....	.....	.....	1	.....	.....	.....	42
.....	.....	16	45	24	6	11	28	33	19	43
.....	.....	3,933	77,935	234,791	185,661	6,205	10,661	128,219	357,235	44
.....	.....	33	188	326	255	21	74	228	479	45
1	34	.....	.....	.....	.....	35	.....	.....	.....	46
14	247	116	61	21	7	400	29	19	18	47
22	621	347	147	1	.....	772	333	33	.....	48
7	366	.....	.....	.....	.....	373	.....	.....	.....	49
1	72	7	1	1	.....	81	.....	.....	1	50
.....	9	10	13	2	.....	18	11	5	.....	51
.....	314	82	24	2	.....	410	5	7	.....	52

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
1	7	5	3	.....	.....	16	.....	.....	.....	1
.....	7	6	7	.....	.....	20	.....	.....	.....	2
.....	385	700	1,494	.....	.....	2,579	.....	.....	.....	3
5,000		5,901	5,800	.....	.....	16,701	.....	.....	.....	4
5,000		5,901	5,800	.....	.....	16,701	.....	.....	.....	5
1,545		1,047	1,750	.....	.....	4,342	.....	.....	.....	6
.....	10.39	8.43	3.88	.....	.....	6.48	.....	.....	.....	7
3.24		5.64	3.31	.....	.....	3.85	.....	.....	.....	8
.....	4	5	3	.....	.....	12	.....	.....	.....	9
.....	240	700	1,494	.....	.....	2,434	.....	.....	.....	10
.....	625	1,668	1,390	.....	.....	3,683	.....	.....	.....	11
.....	2.60	2.38	0.93	.....	.....	1.51	.....	.....	.....	12
1	7	5	3	.....	.....	16	.....	.....	.....	13
.....	.....	1	.....	.....	.....	1	.....	.....	.....	14
1	7	4	3	.....	.....	15	.....	.....	.....	15

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for 1 enterprise from the "Less than $5,000" group are included with the "$15,000 to $99,999" group.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GULF OF MEXICO (Gulf of Mexico drains entire State; therefore, Gulf of Mexico total for Louisiana is identical with State total)					
			Mississippi River			Sabine River	Calcasieu River	
			Total	Direct (1)	Red River[2] (2)	(11)	Total	Direct[3] (12)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	7,305	166	155	11	142	716	490
2	Area irrigated....1939...acres....	447,095	10,600	9,538	1,062	17,629	78,901	53,655
3	(a) Cropland harvested....1939...acres....	442,317	10,269	9,217	1,052	17,619	78,650	53,479
4	(b) Crop failure....1939...acres....	1,078	264	254	10	.....	.....	.....
5	(c) Pasture....1939...acres....	3,700	67	67	.....	10	251	176
6	Area irrigated....1929...acres....	450,901	10,463	8,972	.....	18,335	62,866	.....
7	1919...acres....	454,882	20,269	17,416	.....	13,035	54,318	.....
8	Increase or decrease (-), 1929-1939....percent....	-0.8	1.3	6.3	.....	-3.9	25.5	.....
9	Irrigable area in enterprises....1940...acres....	793,674	17,037	15,518	1,519	23,400	147,716	103,507
10	1930...acres....	850,401	18,970	17,342	.....	23,806	113,850	.....
11	1920[4]...acres....	851,211	29,428	24,070	.....	20,850	169,193	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	346,579	6,437	5,980	457	5,771	68,815	49,852
13	1930...acres....	399,500	8,507	8,370	.....	5,471	50,984	.....
14	1920[4]...acres....	396,329	9,159	6,654	.....	7,815	114,875	.....
15	Area works were capable of supplying with water...1940...acres....	759,915	15,711	14,192	1,519	23,400	135,511	93,007
16	1930...acres....	795,165	13,216	11,668	.....	23,606	101,920	.....
17	1920...acres....	728,742	27,228	23,755	.....	20,850	137,178	.....
18	Increase or decrease (-), 1930-1940....percent....	-4.4	18.9	21.6	.....	-0.9	33.0	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	312,820	5,111	4,654	457	5,771	56,610	39,352
20	1930...acres....	344,264	2,753	2,696	.....	5,271	39,054	.....
21	1920...acres....	273,860	6,959	6,339	.....	7,815	82,860	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	58.8	67.5	67.2	69.9	75.3	58.2	57.7
23	1929...percent....	56.7	79.2	76.9	.....	77.7	61.7	.....
24	1919...percent....	62.4	74.4	73.3	.....	62.5	39.6	.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	11,565,513	168,119	156,731	11,388	528,420	1,531,317	888,708
26	(a) Cost of irrigation works and equipment....1940...dollars....	11,565,513	168,119	156,731	11,388	528,420	1,531,317	888,708
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....	.....	.....	.....	.....	.....
28	Total investment in irrigation enterprises....1930...dollars....	15,744,743	302,098	284,998	.....	587,683	3,901,748	.....
29	1920...dollars....	14,063,181	331,071	302,385	.....	328,000	1,816,380	.....
30	Increase or decrease (-), 1930-1940....percent....	-26.5	-44.3	-45.0	.....	-10.1	-60.8	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	15.22	10.70	11.04	7.50	22.58	11.30	9.56
32	1930...dollars....	19.80	22.86	24.43	.....	24.90	38.28	.....
33	1920...dollars....	19.30	12.16	12.73	.....	15.73	13.24	.....
34	Average investment per acre irrigated....1939...dollars....	25.87	15.86	16.43	10.72	29.97	19.41	16.56
35	Estimated final investment in existing enterprises..1940...dollars....	11,659,725	168,169	156,781	11,388	528,420	1,589,466	944,208
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	14.69	9.87	10.10	7.50	22.58	10.76	9.12
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises					
37	Enterprises reporting maintenance and operation...1939...number....	2,171	12	90	84	6	8	146	68
38	Area irrigated in these enterprises....1939...acres....	436,931	2,434	9,876	8,858	1,018	17,629	78,492	53,466
39	Cost of maintenance and operation....1939...dollars....	1,589,007	3,683	26,538	24,367	2,171	74,059	278,456	176,743
40	Average cost, per acre irrigated....1939...dollars....	3.64	1.51	2.69	2.75	2.13	4.20	3.55	3.30
41	Total annual charges (reported)[6 7]....1939...dollars....	1,259,711	.....	1,247	1,247	.....	71,431	198,641	152,889
42	Average annual charge per acre irrigated....1939...dollars....	5.27	.....	1.42	1.42	.....	4.35	4.04	3.96
43	Area against which charges were assessed....1939...acres....	245,975	.....	876	876	.....	16,421	56,149	45,602
44	Average annual charge per acre assessed....1939...dollars....	5.12	.....	1.42	1.42	.....	4.35	3.54	3.35
45	Total charges collected[6]....1939...dollars....	542,853	.....	.....	.....	.....	86,835	154,526	154,526
46	Indebtedness to December 31 (reported)[7]....1939...dollars....	2,748,768	.....	.....	.....	.....	91,330	205,472	74,949
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	2,409	15	81	76	5	7	145	64
48	Area irrigated by these enterprises....1939...acres....	367,081	2,579	10,130	9,322	808	1,208	49,477	25,081
49	Water delivered....1939...acre-feet..	884,020	2,116	43,661	41,825	1,836	1,404	124,177	55,404
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4	0.8	4.3	4.5	2.3	1.2	2.5	2.2
51	Average cost of water per acre irrigated....1939...dollars....	4.27	1.51	2.75	2.78	2.38	2.05	3.72	3.44
52	Average cost of water per acre-foot delivered..1939...dollars....	1.77	1.84	0.64	0.62	1.05	1.76	1.48	1.56
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	633	.....	15	13	2	.....	18	7
54	Irrigable area in these enterprises....1939...acres....	214,408	.....	2,983	2,733	[5]	.....	27,558	23,110
55	Irrigated area in these enterprises....1939...acres....	101,321	.....	2,480	2,230	[5]	.....	8,803	6,243
56	Area for which drains have been installed....1939...acres....	174,848	.....	2,444	2,194	[5]	.....	20,478	19,420
57	Additional area needing drainage....1939...acres....	12,379	.....	505	505	.....	.....	3,160	2,180

[1] Data for 2 enterprises in Bayou Lafourche Drainage Basin (23) (number refers to separate map) are included with Gulf of Mexico Drainage Basin total.

[2] Data for 1 enterprise in Ouachita River "Direct" Drainage Basin (4) (number refers to separate map) and 1 enterprise in Bayou Bartholomew Drainage Basin (7) are included with Red River Drainage Basin (2).

[3] Data for 2 enterprises in West Fork Calcasieu River Drainage Basin (15) (number refers to separate map) are included with Calcasieu River "Direct" Drainage Basin (12).

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

GULF OF MEXICO—Continued

Calcasieu River—Con.		Mermentau River				Vermilion River	Atchafalaya River			
Bundick Creek (13)	Bayou Serpent (14)	Total	Direct (16)	Nezpique Bayou (17)	Bayou Queue de Tortue (18)	(19)	Total	Direct (20)	Bayou Teche Total	
5	221	3,836	618	2,465	753	1,386	92	20	72	1
754	24,492	262,921	74,764	133,300	54,857	57,619	14,752	2,865	11,887	2
754	24,417	261,211	74,289	132,790	54,132	55,966	13,968	2,865	11,103	3
.....	.....	398	210	178	10	347	49	.....	49	4
.....	75	1,312	265	332	715	1,306	735	.....	735	5
.....	.....	256,599	.....	.....	.....	82,785	13,360	.....	.....	6
.....	.....	268,840	.....	.....	.....	74,034	23,342	.....	.....	7
.....	.....	2.5	.....	.....	.....	-30.4	10.4	.....	.....	8
1,066	43,143	473,285	144,300	226,306	102,679	98,788	26,052	4,005	22,047	9
.....	.....	407,376	.....	.....	.....	256,073	20,512	.....	.....	10
.....	.....	458,463	.....	.....	.....	138,066	31,920	.....	.....	11
312	18,651	210,364	69,536	93,006	47,822	41,169	11,300	1,140	10,160	12
.....	.....	150,777	.....	.....	.....	173,288	7,152	.....	.....	13
.....	.....	189,623	.....	.....	.....	64,032	8,578	.....	.....	14
1,066	41,438	455,495	132,053	221,812	101,630	97,894	24,646	4,005	20,641	15
.....	.....	378,853	.....	.....	.....	249,618	19,467	.....	.....	16
.....	.....	382,755	.....	.....	.....	126,649	30,885	.....	.....	17
.....	.....	20.2	.....	.....	.....	-60.8	26.6	.....	.....	18
312	16,946	192,574	57,289	88,512	46,773	40,275	9,894	1,140	8,754	19
.....	.....	122,254	.....	.....	.....	166,833	6,107	.....	.....	20
.....	.....	113,915	.....	.....	.....	52,615	7,543	.....	.....	21
70.7	59.1	57.7	56.6	60.1	54.0	58.9	59.9	71.5	57.6	22
.....	.....	67.7	.....	.....	.....	33.2	68.6	.....	.....	23
.....	.....	70.2	.....	.....	.....	58.5	75.6	.....	.....	24
21,540	621,069	7,508,490	2,095,544	4,124,705	1,288,241	1,351,379	198,520	22,900	175,620	25
21,540	621,069	7,508,490	2,095,544	4,124,705	1,288,241	1,351,379	198,520	22,900	175,620	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	7,564,660	.....	.....	.....	2,680,508	304,183	.....	.....	28
.....	.....	7,713,797	.....	.....	.....	3,355,327	407,956	.....	.....	29
.....	.....	-0.7	.....	.....	.....	-49.6	-34.7	.....	.....	30
20.21	14.99	16.48	15.87	18.60	12.68	13.80	8.05	5.72	8.51	31
.....	.....	19.97	.....	.....	.....	10.74	15.63	.....	.....	32
.....	.....	20.15	.....	.....	.....	26.49	13.21	.....	.....	33
28.57	25.36	28.56	28.03	30.94	23.48	23.45	13.46	7.99	14.77	34
21,540	623,718	7,535,268	2,099,100	4,146,902	1,289,266	1,351,499	206,195	22,900	183,295	35
20.21	14.46	15.92	14.55	18.32	12.56	13.68	7.91	5.72	8.31	36
		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.				
5	73	1,022	7	198	3	623	1	201	3	208	5	78	14	64	37
754	24,252	258,326	2,034	73,215	400	131,281	([5])	53,830	1,090	54,723	400	14,302	2,865	11,437	38
2,220	99,493	930,426	2,963	291,318	1,568	501,845	([5])	137,263	515	227,878	700	34,374	3,485	30,889	39
2.94	4.10	3.60	1.47	3.98	3.92	3.82	([5])	2.55	0.47	4.16	1.75	2.40	1.22	2.70	40
.....	45,752	743,541	.....	154,867	.....	429,089	.....	159,585	.....	243,231	.....	1,620	.....	1,620	41
.....	4.34	5.58	.....	4.75	.....	5.85	.....	5.84	.....	6.24	.....	6.00	.....	6.00	42
.....	10,547	133,269	.....	32,620	.....	73,319	.....	27,330	.....	38,990	.....	270	.....	270	43
.....	4.34	5.58	.....	4.75	.....	5.85	.....	5.84	.....	6.24	.....	6.00	.....	6.00	44
.....	.....	301,492	.....	62,455	.....	187,887	.....	51,150	.....	.....	.....	.....	.....	.....	45
.....	130,523	1,489,772	.....	154,528	.....	543,142	.....	792,102	.....	962,194	.....	.....	.....	.....	46
5	76	1,108	10	199	6	607	1	202	3	208	5	73	13	60	47
754	23,642	232,213	2,179	64,860	545	114,051	([5])	53,302	1,090	55,440	400	14,043	2,740	11,303	48
879	67,894	559,538	1,830	191,899	742	248,474	([5])	119,165	1,048	124,490	286	25,812	5,345	20,467	49
1.2	2.9	2.4	0.8	3.0	1.4	2.2	([5])	2.2	1.0	2.2	0.7	1.8	2.0	1.8	50
2.94	4.04	4.38	1.47	4.14	3.92	4.65	([5])	4.07	0.47	5.12	1.75	2.38	1.20	2.68	51
2.63	1.41	1.82	1.75	1.40	2.88	2.13	([5])	1.82	0.49	2.28	2.45	1.29	0.61	1.48	52
.....	11	244	.....	53	.....	124	.....	67	.....	147	.....	24	6	18	53
.....	4,448	150,564	.....	52,460	.....	69,923	.....	28,181	.....	22,324	.....	9,723	1,110	8,613	54
.....	2,560	70,351	.....	25,606	.....	31,123	.....	13,622	.....	13,185	.....	5,496	790	4,706	55
.....	1,058	129,817	.....	44,681	.....	59,447	.....	25,689	.....	15,445	.....	5,575	998	4,577	56
.....	980	5,360	.....	4,395	.....	445	.....	520	.....	1,116	.....	2,160	.....	2,160	57

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued					
		Atchafalaya River—Continued		Lake Pontchartrain			
		Bayou Teche—Continued					
		Direct (21)	Bayou Boeuf (22)	Total[1]	Amite River (24)	Natalbany River (25)	Tangipahoa River (26)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms.....1939...number.....	58	14	965	5	787	172
2	Area irrigated.....1939...acres.....	10,367	1,520	4,392	33	3,704	652
3	(a) Cropland harvested.....1939...acres.....	9,592	1,511	4,353	33	3,665	652
4	(b) Crop failure.....1939...acres.....	40	9	20	.....	20	.....
5	(c) Pasture.....1939...acres.....	735	.....	19	.....	19	.....
6	Area irrigated.....1929...acres.....	.....	.....	5,074	.....	3,548	1,526
7	1919...acres.....	.....	.....	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939.....percent....	.....	.....	-13.4	.....	4.4	-57.3
9	Irrigable area in enterprises.....1940...acres.....	18,256	3,791	6,971	39	5,782	1,142
10	1930...acres.....	.....	.....	7,864	.....	6,053	1,811
11	1920[2]...acres.....	.....	.....	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres.....	7,889	2,271	2,579	6	2,078	490
13	1930...acres.....	.....	.....	2,790	.....	2,505	285
14	1920[2]...acres.....	.....	.....	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres.....	17,650	2,991	6,833	39	5,644	1,142
16	1930...acres.....	.....	.....	6,640	.....	4,903	1,737
17	1920...acres.....	.....	.....	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940.....percent....	.....	.....	2.9	.....	15.1	-34.3
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	7,283	1,471	2,441	6	1,940	490
20	1930...acres.....	.....	.....	1,566	.....	1,355	211
21	1920...acres.....	.....	.....	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	58.7	50.8	64.3	84.6	65.6	57.1
23	1929...percent....	.....	.....	76.4	.....	72.4	87.9
24	1919...percent....	.....	.....	.....	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940...dollars....	151,770	23,850	277,118	960	236,688	38,670
26	(a) Cost of irrigation works and equipment.....1940...dollars....	151,770	23,850	277,118	960	236,688	38,670
27	(b) Investment in water rights (reported).....1940...dollars....	.....	.....	.....	.....	.....	.....
28	Total investment in irrigation enterprises.....1930...dollars....	.....	.....	384,298	.....	287,221	97,077
29	1920...dollars....	.....	.....	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940.....percent....	.....	.....	-27.9	.....	-17.6	-60.2
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	8.60	7.97	40.56	24.62	41.94	33.86
32	1930...dollars....	.....	.....	57.88	.....	58.58	55.89
33	1920...dollars....	.....	.....	.....	.....	.....	.....
34	Average investment per acre irrigated.....1939...dollars....	14.64	15.69	63.10	29.09	63.90	59.31
35	Estimated final investment in existing enterprises..1940...dollars....	153,445	29,850	278,558	960	238,128	38,670
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	8.41	7.87	39.96	24.62	41.18	33.86
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number.....	52	12	617	3	502	111
38	Area irrigated in these enterprises.....1939...acres.....	10,267	1,170	3,302	24	2,777	498
39	Cost of maintenance and operation.....1939...dollars....	25,129	5,760	14,951	84	11,542	3,300
40	Average cost, per acre irrigated.....1939...dollars....	2.45	4.92	4.53	3.50	4.16	6.63
41	Total annual charges (reported)[3] [4].....1939...dollars....	1,620	.....	.....	.....	.....	.....
42	Average annual charge per acre irrigated.....1939...dollars....	6.00	.....	.....	.....	.....	.....
43	Area against which charges were assessed.....1939...acres.....	270	.....	.....	.....	.....	.....
44	Average annual charge per acre assessed.....1939...dollars....	6.00	.....	.....	.....	.....	.....
45	Total charges collected[3].....1939...dollars....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[4].....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939...number.....	48	12	885	5	726	153
48	Area irrigated by these enterprises.....1939...acres.....	9,857	1,446	4,289	33	3,616	637
49	Water delivered.....1939...acre-feet..	16,659	3,808	4,021	39	3,469	512
50	Average water delivered per acre irrigated.....1939...acre-feet..	1.7	2.6	0.9	1.2	1.0	0.8
51	Average cost of water per acre irrigated.....1939...dollars....	2.45	4.71	4.56	3.50	4.18	6.75
52	Average cost of water per acre-foot delivered..1939...dollars....	1.45	1.79	4.87	3.00	4.35	8.40
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939...number.....	16	2	184	.....	172	12
54	Irrigable area in these enterprises.....1939...acres.....	7,538	[5]	1,231	.....	1,146	85
55	Irrigated area in these enterprises.....1939...acres.....	4,616	[5]	987	.....	915	72
56	Area for which drains have been installed.....1939...acres.....	4,577	.....	1,070	.....	985	85
57	Additional area needing drainage.....1939...acres.....	1,085	[5]	78	.....	78	.....

[1] Data for 1 enterprise in Chefuncte River Drainage Basin (27) (number refers to separate map) are included with Lake Pontchartrain Drainage Basin total.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms and items 41 to 46, inclusive, relate to those enterprises only.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL[1]	GULF OF MEXICO (Gulf of Mexico drains entire State; therefore, Gulf of Mexico total for Louisiana is identical with State total)					
				Mississippi River			Sabine River	Calcasieu River	
				Total	Direct (1)	Red River[2] (2)	(11)	Total	Direct[3] (12)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	[4] 2,573	98	90	8	8	158	72
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	295	160	158	190	2,925	858	1,292
3	Diversion dams	1940..total number	105	16	16	.....	.....	2	2
4		1930..total number	36	1	1	.....	.....	2	.....
5		1920..total number	419	379	340	.....	.....	4	.....
6	(a) Concrete and masonry	1940..number	3	.....	.....	.....	.....	.....	.....
7	(b) Timber	1940..number	15	8	8	.....	.....	.....	.....
8	(c) Earth and rock	1940..number	45	8	8	.....	.....	2	2
9	(d) Other, mixed, and not reported	1940..number	42	.....	.....	.....	.....	.....	.....
10	Main canals and laterals	1940..total length, miles	2,421.0	68.1	66.1	2.0	77.4	439.6	293.5
11		1930..total length, miles	2,226	16	16	.....	83	362	.....
12		1920..total length, miles	3,243	387	356	.....	65	327	.....
13	(a) Earth	1940..length, miles	2,397	68	66	2	77	431	285
14	(b) Lined	1940..length, miles	24.0	0.1	0.1	.....	0.4	8.6	8.5
15		1940..capacity, c.f.s.[5]	10,335	467	455	12	352	2,133	1,901
16		1930..capacity, c.f.s.[5]	11,386	719	719	.....	1,522	578	.....
17		1920..capacity, c.f.s.[5]	11,889	1,576	869	.....	111	1,700	.....
18	Pipe lines[6]	1940..total length, miles	63.6	11.9	11.7	0.2	.....	3.0	2.4
19		1930..total length, miles	15.1	13.4	13.2	.....	.....	.....	.....
20		1920..total length, miles	50.1	7.0	6.2	.....	.....	0.4	.....
21	(a) Concrete	1940..length, miles	15.4	1.0	0.9	0.1	.....	2.0	2.0
22	(b) Metal	1940..length, miles	40.7	10.9	10.8	0.1	.....	0.8	0.2
23	(c) Wood-stave	1940..length, miles	5.9	.....	.....	.....	.....	0.1	0.1
24	(d) Other	1940..length, miles	1.6	.....	.....	.....	.....	0.1	0.1
25	Storage dams	1940..total number	114	21	20	1	.....	2	1
26		1930..total number	81	9	6	.....	1	1	.....
27		1920..total number	63	.....	.....	.....	2	4	.....
28	(a) Concrete and masonry	1940..number	1	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock	1940..number	91	16	15	1	.....	2	1
30	(c) Other, mixed, and not reported	1940..number	22	5	5	.....	.....	.....	.....
31	Reservoirs	1940..total number	75	25	24	1	.....	3	2
32	(a) 1-99 acre-feet capacity	1940..number	50	16	16	.....	.....	2	1
33	(b) 100-999 acre-feet capacity	1940..number	16	3	2	1	.....	1	1
34	(c) 1,000 and over acre-feet capacity	1940..number	9	6	6	.....	.....	.....	.....
35		1940..total capacity, ac.-ft.[7]	34,199	19,088	18,968	[8]	.....	701	[8]
36		1930..total number	85	11	9	.....	1	4	.....
37		1930..total capacity, ac.-ft.	13,909	156	104	.....	20	448	.....
38	Wells, flowing	1940..number	502	.....	.....	.....	.....	.....	.....
39		1930..number	807	1	.....	.....	.....	.....	.....
40		1920..number	9	.....	.....	.....	.....	5	.....
41		1940..yield, g.p.m.	12,695	.....	.....	.....	.....	.....	.....
42		1930..yield, g.p.m.	31,961	48	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	6,255	.....	.....	.....	.....	5,800	.....
44	Wells, pumped	1940..number	1,504	1	.....	1	1	99	19
45		1930..number	1,389	8	6	.....	7	74	.....
46		1920..number	812	.....	.....	.....	2	92	.....
47		1940..yield, g.p.m.	1,526,613	[8]	.....	[8]	[8]	223,700	43,300
48		1930..yield, g.p.m.	1,958,811	4,012	1,362	.....	16,800	271,650	.....
49		1920..yield, g.p.m.	1,607,637	.....	.....	.....	27,500	243,400	.....
50	Pumping plants	1940..total number	2,326	60	50	10	10	181	86
51		1930..total number	1,790	70	64	.....	13	104	.....
52	Prime movers	1940..capacity, hp.	85,574	1,761	1,565	196	1,330	12,147	6,138
53		1930..capacity, hp.	86,413	1,224	1,038	.....	1,852	10,332	.....
54		1920..capacity, hp.	85,628	3,131	2,846	.....	1,050	13,933	.....
55	(a) Electric	1940..number	301	11	11	.....	3	51	9
56		1940..capacity, hp.	12,091	341	341	.....	1,200	3,757	967
57	(b) Internal-combustion	1940..number	1,976	48	38	10	7	118	67
58		1940..capacity, hp.	62,846	1,418	1,222	196	130	6,409	3,325
59	(c) Other	1940..number	49	1	1	.....	.....	12	10
60		1940..capacity, hp.	10,637	[8]	[8]	.....	.....	1,981	1,846
61	Pumps	1940..total number	2,403	63	53	10	10	179	84
62		1930..number	2,000	70	64	.....	13	115	.....
63		1920..number	1,941	79	74	.....	6	161	.....
64		1940..capacity, g.p.m.	6,453,487	179,028	168,858	10,170	162,500	1,098,200	727,450
65		1930..capacity, g.p.m.	5,914,799	94,270	82,630	.....	175,100	947,050	.....
66		1920..capacity, g.p.m.	4,968,686	134,800	102,500	.....	54,500	937,294	.....
67	(a) Centrifugal	1940..number	1,688	62	53	9	4	110	58
68		1940..capacity, g.p.m.	4,712,919	176,528	168,858	7,670	152,000	767,550	625,250
69		1940..average capacity, g.p.m.	2,792	2,847	3,186	852	38,000	6,976	10,780
70	(b) Turbine	1940..number	546	1	.....	1	6	62	24
71		1940..capacity, g.p.m.	1,102,356	[8]	.....	[8]	10,500	135,100	53,200
72		1940..average capacity, g.p.m.	2,019	[8]	.....	[8]	1,750	2,179	2,217
73	(c) Plunger	1940..number	64	.....	.....	.....	.....	1	.....
74		1940..capacity, g.p.m.	1,080	.....	.....	.....	.....	[8]	.....
75		1940..average capacity, g.p.m.	17	.....	.....	.....	.....	[8]	.....
76	(d) Other	1940..number	105	.....	.....	.....	.....	6	2
77		1940..capacity, g.p.m.	637,132	.....	.....	.....	.....	195,500	[8]
78	Pumping lift, from all sources	1940..average, feet	32	15	13	29	16	34	20
79		1930..average, feet	37	16	15	.....	42	40	.....
80		1920..average, feet	32	.....	12	.....	41	30	.....
81	from pumped wells	1940..average, feet	45	[8]	.....	[8]	[8]	47	36
82	from surface sources	1940..average, feet	13	14	13	24	12	15	15

[1] Data for 2 enterprises in Bayou Lafourche Drainage Basin (23) (number refers to separate map) are included with Gulf of Mexico Drainage Basin total. [2] Data for 1 enterprise in Ouachita River "Direct" Drainage Basin (4) (number refers to separate map) and 1 enterprise in Bayou Bartholomew Drainage Basin (7) are included with Red River Drainage Basin (2). [3] Data for 2 enterprises in West Fork Calcasieu River Drainage Basin (15) (number refers to separate map) are included with Calcasieu River "Direct" Drainage Basin (12). [4] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1. [5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [6] Includes siphons and farm pipe lines reported. [7] Total capacity of all reservoirs regardless of size. [8] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued					
		Calcasieu River—Continued		Mermentau River			
		Bundick Creek (13)	Bayou Serpent (14)	Total	Direct (16)	Nezpique Bayou (17)	Bayou Queue de Tortue (18)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	5	81	1,079	219	650	210
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	213	512	422	603	341	484
3	Diversion dams....1940..total number	.....	.....	71	6	63	2
4	1930..total number	.....	.....	26	.....	.....	.....
5	1920..total number	.....	.....	14	.....	.....	.....
6	(a) Concrete and masonry....1940..number	.....	.....	2	1	.....	1
7	(b) Timber....1940..number	.....	.....	6	.....	6	.....
8	(c) Earth and rock....1940..number	.....	.....	21	4	16	1
9	(d) Other, mixed, and not reported..1940..number	.....	.....	42	1	41	.....
10	Main canals and laterals....1940..total length, miles	2.0	144.1	1,429.1	351.4	777.2	300.5
11	1930..total length, miles	.....	.....	1,322	.....	.....	.....
12	1920..total length, miles	.....	.....	1,431	.....	.....	.....
13	(a) Earth....1940..length, miles	2	144	1,422	351	772	299
14	(b) Lined....1940..length, miles	.....	0.1	7.1	0.4	5.2	1.5
15	1940..capacity, c.f.s.[2]	5	227	5,239	1,436	2,525	1,278
16	1930..capacity, c.f.s.[2]	.....	.....	2,282	.....	.....	.....
17	1920..capacity, c.f.s.[2]	.....	.....	6,067	.....	.....	.....
18	Pipe lines[3]....1940..total length, miles	0.5	0.1	19.5	1.7	15.8	2.0
19	1930..total length, miles	.....	.....	0.2	.....	.....	.....
20	1920..total length, miles	.....	.....	0.1	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	11.4	1.7	9.7	.....
22	(b) Metal....1940..length, miles	0.5	0.1	1.6	.....	1.6	.....
23	(c) Wood-stave....1940..length, miles	.....	.....	5.3	.....	3.3	2.0
24	(d) Other....1940..length, miles	.....	.....	1.2	.....	1.2	.....
25	Storage dams....1940..total number	1	.....	89	4	84	1
26	1930..total number	.....	.....	65	.....	.....	.....
27	1920..total number	.....	.....	47	.....	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	1	.....	1	.....
29	(b) Earth and rock....1940..number	1	.....	73	4	69	.....
30	(c) Other, mixed, and not reported..1940..number	.....	.....	15	.....	14	1
31	Reservoirs....1940..total number	1	.....	43	4	38	1
32	(a) 1-99 acre-feet capacity....1940..number	1	.....	29	1	27	1
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	12	1	11	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	2	2	.....	.....
35	1940..total capacity, ac.-ft.[4]	(5)	.....	11,488	8,260	3,188	(5)
36	1930..total number	.....	.....	63	.....	.....	.....
37	1930..total capacity, ac.-ft	.....	.....	13,018	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	3	77	543	153	298	92
45	1930..number	.....	.....	575	.....	.....	.....
46	1920..number	.....	.....	594	.....	.....	.....
47	1940..yield, g.p.m.	6,500	173,900	1,175,242	401,105	620,757	153,380
48	1930..yield, g.p.m.	.....	.....	1,397,670	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	1,209,750	.....	.....	.....
50	Pumping plants....1940..total number	5	90	1,085	252	603	230
51	1930..total number	.....	.....	733	.....	.....	.....
52	Prime movers....1940..capacity, hp	290	5,719	58,863	14,831	35,855	8,177
53	1930..capacity, hp	.....	.....	59,119	.....	.....	.....
54	1920..capacity, hp	.....	.....	56,300	.....	.....	.....
55	(a) Electric....1940..number	.....	42	97	66	28	3
56	1940..capacity, hp	.....	2,790	6,046	4,046	1,860	140
57	(b) Internal-combustion....1940..number	4	47	967	185	557	225
58	1940..capacity, hp	230	2,854	47,326	10,485	29,344	7,497
59	(c) Other....1940..number	1	1	21	1	18	2
60	1940..capacity, hp	(5)	(5)	5,491	(5)	4,651	(5)
61	Pumps....1940..total number	5	90	1,095	252	609	234
62	1930..number	.....	.....	768	.....	.....	.....
63	1920..number	.....	.....	1,293	.....	.....	.....
64	1940..capacity, g.p.m.	8,050	362,700	3,885,296	1,143,475	1,956,731	785,090
65	1930..capacity, g.p.m.	.....	.....	2,909,458	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	2,927,213	.....	.....	.....
67	(a) Centrifugal....1940..number	1	51	621	151	301	169
68	1940..capacity, g.p.m.	(5)	140,800	2,542,666	737,380	1,118,826	686,460
69	1940..average capacity, g.p.m..	(5)	2,761	4,094	4,883	3,717	4,062
70	(b) Turbine....1940..number	3	35	442	92	286	64
71	1940..capacity, g.p.m.	6,500	75,400	908,565	252,290	558,645	97,630
72	1940..average capacity, g.p.m..	2,167	2,154	2,056	2,742	1,953	1,525
73	(c) Plunger....1940..number	1	.....	2	1	1	.....
74	1940..capacity, g.p.m.	(5)	.....	(5)	(5)	(5)	.....
75	1940..average capacity, g.p.m..	(5)	.....	(5)	(5)	(5)	.....
76	(d) Other....1940..number	.....	4	30	8	21	1
77	1940..capacity, g.p.m.	.....	146,500	433,950	153,750	279,200	(5)
78	Pumping lift, from all sources....1940..average, feet	41	45	34	34	39	20
79	1930..average, feet	.....	.....	44	.....	.....	.....
80	1920..average, feet	.....	.....	35	.....	.....	.....
81	from pumped wells....1940..average, feet	53	49	55	48	63	41
82	from surface sources...1940..average, feet	22	11	14	13	17	9

[1] Data for 1 enterprise in Chefuncte River Drainage Basin (27) (number refers to separate map) are included with Lake Pontchartrain Drainage Basin total.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

GULF OF MEXICO—Continued										
	Atchafalaya River					Lake Pontchartrain				
			Bayou Teche							
Vermilion River	Total	Direct	Total	Direct	Bayou Boeuf	Total[1]	Amite River	Natalbany River	Tangipahoa River	
(19)		(20)		(21)	(22)		(24)	(25)	(26)	
224	81	14	67	53	14	923	6	760	156	1
437	304	286	308	333	214	7	6	7	7	2
5	11	3	8	8	.....	.....	.....	.....	.....	3
4	3	.....	.....	.....	.....	.....	.....	.....	.....	4
.....	17	.....	.....	.....	.....	.....	.....	.....	.....	5
.....	1	.....	1	1	.....	.....	.....	.....	.....	6
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
4	10	3	7	7	.....	.....	.....	.....	.....	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9
334.0	66.3	12.0	54.3	49.3	5.0	3.0	.....	3.0	.....	10
363	78	.....	.....	.....	.....	.....	.....	.....	.....	11
869	151	.....	.....	.....	.....	.....	.....	.....	.....	12
330	64	12	52	47	5	3	.....	3	.....	13
4.0	2.3	.....	2.3	2.3	.....	.....	.....	.....	.....	14
1,676	457	149	308	249	59	3	.....	3	.....	15
6,126	94	.....	.....	.....	.....	.....	.....	.....	.....	16
1,699	728	.....	.....	.....	.....	.....	.....	.....	.....	17
1.0	1.0	0.2	0.8	0.6	0.2	27.2	.....	23.6	3.5	18
.....	1.4	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	42.2	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	0.4	.....	0.4	0.3	0.1	0.6	.....	0.6	.....	21
1.0	0.1	.....	0.1	.....	0.1	26.3	.....	22.7	3.5	22
.....	0.5	0.2	0.3	0.3	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	0.3	.....	0.3	.....	24
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	4	.....	.....	.....	.....	1	.....	.....	1	26
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
1	.....	.....	.....	.....	.....	1	.....	1	.....	31
.....	.....	.....	.....	.....	.....	1	.....	1	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
(5)	.....	.....	.....	.....	.....	(5)	.....	(5)	.....	35
.....	5	.....	.....	.....	.....	1	.....	1	.....	36
.....	207	.....	.....	.....	.....	60	.....	60	.....	37
.....	.....	.....	.....	.....	.....	502	5	442	54	38
.....	.....	.....	.....	.....	.....	806	.....	578	228	39
2	1	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	12,695	226	11,944	375	41
.....	.....	.....	.....	.....	.....	31,913	.....	23,929	7,984	42
425	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
54	16	.....	16	12	4	790	1	669	120	44
55	10	.....	.....	.....	.....	660	.....	486	174	45
82	42	.....	.....	.....	.....	.....	.....	.....	.....	46
51,633	26,200	.....	26,200	23,400	2,800	44,338	(5)	34,688	9,610	47
178,350	60,700	.....	.....	.....	.....	29,629	.....	21,549	8,080	48
67,007	59,980	.....	.....	.....	.....	.....	.....	.....	.....	49
240	96	15	81	61	20	652	1	535	116	50
164	74	.....	.....	.....	.....	627	.....	470	157	51
7,022	2,741	362	2,379	2,112	267	1,670	(5)	1,379	290	52
8,682	3,235	.....	.....	.....	.....	1,773	.....	1,368	405	53
7,052	4,070	.....	.....	.....	.....	.....	.....	.....	.....	54
1	12	.....	12	7	5	126	1	78	47	55
(5)	510	.....	510	460	50	212	(5)	133	78	56
233	83	15	68	53	15	518	.....	449	69	57
3,906	2,181	362	1,819	1,602	217	1,436	.....	1,224	212	58
6	1	.....	1	1	.....	8	.....	8	.....	59
3,091	(5)	.....	(5)	(5)	.....	22	.....	22	.....	60
251	98	15	83	61	22	705	1	588	116	61
179	79	.....	.....	.....	.....	771	.....	531	240	62
222	171	.....	.....	.....	.....	.....	.....	.....	.....	63
823,593	257,770	63,700	194,070	167,600	26,470	43,750	(5)	34,825	8,885	64
1,442,590	247,490	.....	.....	.....	.....	29,541	.....	21,416	8,125	65
694,044	230,675	.....	.....	.....	.....	.....	.....	.....	.....	66
232	87	15	72	53	19	570	.....	479	91	67
801,843	234,270	63,700	170,570	144,300	26,270	34,712	.....	27,838	6,874	68
3,456	2,693	4,247	2,369	2,723	1,383	61	.....	58	76	69
17	11	.....	11	8	3	7	.....	6	1	70
19,150	23,500	.....	23,500	23,300	200	3,041	.....	2,991	(5)	71
1,126	2,136	.....	2,136	2,912	67	434	.....	498	(5)	72
.....	.....	.....	.....	.....	.....	61	1	54	6	73
.....	.....	.....	.....	.....	.....	915	(5)	399	476	74
.....	.....	.....	.....	.....	.....	15	(5)	7	79	75
2	.....	.....	.....	.....	.....	67	.....	49	18	76
(5)	.....	.....	.....	.....	.....	5,082	.....	3,597	1,485	77
11	19	11	20	22	16	39	(5)	40	34	78
21	20	.....	.....	.....	.....	37	.....	43	19	79
39	19	.....	.....	.....	.....	.....	.....	.....	.....	80
22	51	.....	51	51	50	39	(5)	40	34	81
8	14	11	15	16	13	23	.....	23	.....	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

PARISH TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Parishes for which 1930 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Acadia		Allen	Ascension	Avoyelles
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	150,007		3,937		1,302	1,411	5,242
2	1930...number....	161,445		3,828		1,068	1,335	5,975
3	Irrigated farms....1940...number....	7,037		1,306		177	11	6
4	1930...number....	5,588		1,210		91	14	3
5	Increase or decrease (-), 1930-1940....percent....	25.9		7.9		94.5	-21.4	100.0
	Operated by—							
6	(a) Owners and managers....1940...number....	3,807		730		108	7	5
7	1930...number....	3,049		653		47	11	.....
8	(b) Tenants....1940...number....	3,230		576		69	4	1
9	1930...number....	2,539		557		44	3	3
10	Land in all farms....1940...acres....	9,996,108		298,881		102,523	74,623	172,859
11	Land in irrigated farms....1940...acres....	1,065,655		229,118		31,495	9,975	2,043
12	Average per farm....1940...acres....	152		175		178	907	340
13	(a) Operated by owners and managers....1940...acres....	642,822		148,364		21,894	8,167	(2)
14	Average per farm....1940...acres....	169		203		203	1,167	(2)
15	(b) Operated by tenants....1940...acres....	423,833		80,754		9,601	1,808	(2)
16	Average per farm....1940...acres....	131		140		139	452	(2)
17	Approximate land area....1940...acres....	28,913,280		423,380		496,000	192,000	528,640
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	447,095		106,377		15,122	2,804	830
19	(a) Cropland harvested....1939...acres....	442,317		106,048		15,090	2,732	830
20	(b) Crop failure....1939...acres....	1,078		135		32	72	.....
21	(c) Pasture....1939...acres....	3,700		194		.....	.....	.....
22	Area irrigated....1929...acres....	450,901		133,539		11,568	3,721	860
23	1919...acres....	454,882		134,710		15,805	2,080	.....
24	Increase or decrease (-), 1929-1939....percent....	-0.8		-20.3		39.4	-24.6	-3.5
25	Irrigable area in enterprises....1940...acres....	793,674		196,398		36,747	3,445	1,750
26	1930...acres....	850,401		197,391		18,282	4,266	860
27	1920[3]..acres....	851,211		208,799		30,705	2,635	.....
28	Excess of irrigable area over the area irrigated..1940...acres....	346,579		90,321		20,625	641	920
29	1930...acres....	399,500		64,152		6,714	545	.....
30	Area works were capable of supplying with water...1940...acres....	759,915		194,255		32,192	3,245	1,750
31	1930...acres....	795,165		192,791		17,187	4,230	735
32	1920...acres....	728,742		186,218		28,590	2,635	.....
33	Increase or decrease (-), 1930-1940....percent....	-4.4		0.8		87.3	-23.3	138.1
34	Excess, capability of works over area irrigated...1940...acres....	312,820		87,878		16,070	441	920
35	1930...acres....	344,264		59,252		5,619	509	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	41.9		46.4		51.2	28.1	40.6
37	1929...percent....	50.5		59.9		55.4	47.1	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	58.8		54.8		50.1	86.4	47.4
39	1929...percent....	56.7		69.3		67.3	88.0	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	11,565,513		3,662,073		292,290	39,300	10,350
41	(a) Cost of irrigation works and equipment....1940...dollars....	11,565,513		3,662,073		292,290	39,300	10,350
42	(b) Investment in water rights (reported)[4]....1940...dollars....	.....		.....		.....	.....	.....
43	Total investment in all enterprises....1930...dollars....	15,744,743		4,167,252		240,900	29,650	7,685
44	1920...dollars....	14,063,181		3,732,648		309,450	44,100	.....
45	Increase or decrease (-), 1930-1940....percent....	-26.5		-12.1		21.3	32.5	34.7
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	15.22		18.85		9.08	12.11	5.91
47	1930...dollars....	19.80		21.62		14.02	7.01	10.46
48	1920...dollars....	19.30		20.04		10.82	16.74	.....
49	Average investment per acre irrigated....1939...dollars....	25.87		34.43		18.13	14.02	12.47
50	Estimated final investment in existing enterprises..1940...dollars....	11,659,725		3,678,183		318,290	39,300	10,350
51	1930...dollars....	15,771,003		4,168,302		250,900	41,650	8,485
52	1920...dollars....	14,264,178		3,795,013		310,950	44,100	.....
53	Increase or decrease (-), 1930-1940....percent....	-26.1		-11.8		26.9	-5.6	22.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	14.69		18.70		8.66	11.41	5.91
55	1930...dollars....	18.55		21.08		13.72	9.76	9.87
56	1920[3]..dollars....	16.76		18.18		10.13	16.74	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises			
57	Enterprises reporting maintenance and operation...1939...number....	2,181	12	321	1	37	8	4
58	Area irrigated in these enterprises....1939...acres....	436,931	2,434	104,992	(5)	16,122	2,804	830
59	Cost of maintenance and operation....1939...dollars....	1,589,007	3,663	412,017	(5)	53,037	10,370	1,850
60	Average cost, per acre irrigated....1939...dollars....	3.64	1.51	3.92	(5)	3.29	3.70	2.23
61	1929...dollars....	4.09	.....	4.25	.....	6.71	2.87	6.28
62	Total annual charges (reported)[6 7]....1939...dollars....	1,259,711	.....	343,564	.....	20,858	.....	.....
63	Average annual charge per acre irrigated....1939...dollars....	5.27	.....	5.78	.....	2.03	.....	.....
64	Area against which charges were assessed....1939...acres....	245,975	.....	59,459	.....	17,279	.....	.....
65	Average annual charge per acre assessed....1939...dollars....	5.12	.....	5.78	.....	1.21	.....	.....
66	Total charges collected[6]....1939...dollars....	542,853	.....	230,977	.....	39,000	.....	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars....	2,748,768	.....	503,442	.....	17,500	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	2,419	15	307	1	35	9	4
69	Area irrigated in these enterprises....1939...acres....	367,081	2,579	91,988	(5)	7,883	2,804	830
70	Water delivered in these enterprises....1939...acre-feet..	884,020	2,116	209,595	(5)	14,548	13,773	1,960
71	Average water delivered per acre irrigated....1939...acre-feet..	2.4	0.8	2.3	(5)	1.8	4.9	2.4
72	Average cost of water per acre irrigated....1939...dollars....	4.27	1.51	4.64	(5)	3.08	3.70	2.23
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	634	.....	50	.....	7	1	.....
74	Irrigable area in these enterprises....1939...acres....	214,408	.....	83,947	.....	2,465	(5)	.....
75	Irrigated area in these enterprises....1939...acres....	101,321	.....	35,533	.....	1,210	(5)	.....
76	Area for which drains have been installed....1939...acres....	174,848	.....	75,245	.....	526	(5)	.....
77	Additional area needing drainage....1939...acres....	12,379	.....	270	.....	355	.....	.....

*Census of Agriculture.
[1]Percent not shown when more than 1,000.
[2]Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

[Irrigation data omitted from any of the parishes listed are included under "All other parishes"]

Calcasieu	Cameron	Evangeline	Iberia	Iberville	Jefferson Davis	Lafayette	Livingston	Orleans	Plaquemines	Rapides	St. James	
1,776	842	4,578	1,314	741	1,665	3,441	2,162	199	602	3,368	434	1
1,565	814	4,610	1,297	621	1,664	3,359	2,193	198	449	4,305	337	2
509	91	704	18	15	768	47	296	26	72	7	44	3
266	34	205	11	3	661	82	1	1	9	4	38	4
91.4	167.6	243.4	63.6	400.0	16.2	-42.7	(1)	(1)	700.0	75.0	15.8	5
160	18	334	10	3	391	28	240	21	48	3	26	6
123	8	85	6	2	381	43	.....	.....	7	.....	26	7
349	73	370	8	12	377	19	56	5	24	4	18	8
143	26	120	5	1	280	39	.....	.....	2	.....	12	9
181,659	71,746	183,402	110,444	93,621	270,617	136,791	83,217	12,031	45,829	225,316	57,619	10
121,994	21,288	60,700	10,824	3,035	222,125	5,211	10,042	470	4,004	3,719	13,741	11
240	234	86	601	202	289	111	34	18	56	531	312	12
43,310	3,768	38,281	9,530	1,977	126,294	2,921	8,830	363	2,036	3,129	11,329	13
271	209	115	953	659	323	104	37	17	42	1,043	436	14
78,684	17,520	22,419	1,294	1,058	95,831	2,290	1,212	107	1,968	590	2,412	15
225	240	61	162	88	254	121	22	21	82	148	134	16
706,560	924,160	430,080	376,320	391,040	421,120	181,120	425,600	127,360	629,760	850,560	159,360	17
64,825	11,852	17,086	3,988	1,308	99,166	2,727	823	264	548	432	3,681	18
64,639	11,852	17,075	3,788	1,251	98,478	2,652	810	197	483	432	3,621	19
.....	.....	11	.....	57	210	.....	14	.....	55	.....	60	20
186	.....	.....	200	.....	478	75	2	67	.....	.....	.....	21
33,601	3,665	13,672	2,740	865	100,386	1,061	.....	.....	1,001	.....	2,714	22
47,056	725	12,058	11,801	2,275	99,534	4,485	.....	.....	4,813	.....	5,221	23
1.9	223.4	25.0	45.5	51.2	-1.2	157.0	.....	.....	-45.3	.....	35.6	24
35,464	33,045	23,216	6,699	1,420	182,208	5,179	1,215	317	1,123	1,562	8,280	25
114,330	6,380	20,310	2,865	915	167,975	1,976	.....	.....	7,302	.....	3,500	26
147,115	4,310	18,812	12,035	2,540	191,889	5,725	.....	.....	9,473	.....	6,103	27
30,639	21,193	6,130	2,711	112	83,042	2,452	389	53	575	1,130	4,599	28
50,729	2,715	6,638	125	50	67,589	915	.....	.....	6,301	.....	786	29
88,014	28,245	22,800	6,695	1,420	172,271	5,129	1,210	271	1,123	762	7,200	30
105,245	6,380	20,175	2,830	915	145,732	1,926	.....	.....	2,858	.....	2,700	31
121,612	4,230	17,502	11,505	2,475	139,730	5,625	.....	.....	7,338	.....	6,103	32
-16.4	342.7	13.0	136.6	55.2	18.2	166.3	.....	.....	-60.7	.....	166.7	33
23,189	16,393	5,714	2,707	112	73,105	2,402	384	7	575	330	3,519	34
41,644	2,715	6,503	90	50	45,346	865	.....	.....	1,857	.....	.....	35
53.1	55.7	28.1	36.8	43.1	44.6	52.3	8.2	56.2	13.7	11.6	26.8	36
76.1	27.1	71.5	35.7	32.8	44.9	13.8	.....	.....	27.1	.....	22.9	37
73.7	42.0	74.9	59.6	92.1	57.6	53.2	68.3	97.4	48.8	56.7	51.1	38
60.4	57.4	67.8	96.8	94.5	68.9	55.1	.....	.....	35.0	.....	.....	39
1,366,917	170,074	354,076	56,600	10,600	2,763,046	120,830	58,039	673	5,693	7,950	90,465	40
1,366,917	170,074	354,076	56,600	10,600	2,763,046	120,830	58,039	673	5,693	7,950	90,465	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
4,166,885	17,000	422,793	33,200	6,650	2,753,284	28,100	.....	.....	28,148	.....	28,000	43
1,667,236	59,570	487,977	201,626	25,200	2,868,348	144,000	.....	.....	66,628	.....	52,132	44
-67.2	900.0	-16.3	70.5	59.4	0.4	330.0	.....	.....	-79.8	.....	223.1	45
15.53	6.02	15.53	8.45	7.46	16.04	23.56	47.97	2.48	5.07	10.43	12.56	46
39.59	2.66	20.96	11.73	7.27	18.89	14.59	.....	.....	9.85	.....	10.37	47
13.71	14.08	27.88	17.53	10.18	20.53	25.60	.....	.....	9.08	.....	8.54	48
21.09	14.35	20.72	14.19	8.10	27.86	44.31	70.27	2.55	10.39	18.40	24.58	49
1,392,917	175,074	357,266	56,900	10,650	2,770,863	121,330	58,069	673	5,693	13,950	90,465	50
4,167,385	17,000	422,853	33,200	6,650	2,753,584	28,100	.....	.....	28,148	.....	28,000	51
1,669,936	59,570	521,652	201,626	25,200	2,902,520	144,000	.....	.....	66,763	.....	52,132	52
-66.6	929.8	-15.5	71.4	60.2	0.6	331.8	.....	.....	-79.8	.....	223.1	53
14.59	5.30	15.39	8.49	7.50	15.21	23.43	47.79	2.12	5.07	8.93	10.93	54
36.45	2.66	20.82	11.59	7.27	16.39	14.22	.....	.....	3.85	.....	8.00	55
11.35	13.82	27.73	16.75	9.92	15.13	25.15	.....	.....	7.05	.....	8.54	56
					Primary Enterprises	Supplemental Enterprises						
86	11	262	17	5	273	3	24	77	14	33	6	23	57
64,541	11,407	16,334	3,988	1,308	97,748	400	2,694	425	264	476	432	3,681	58
228,369	51,362	48,096	9,264	2,372	392,562	1,568	17,026	2,849	178	483	3,625	9,764	59
3.54	4.50	2.94	2.32	1.81	4.02	3.92	6.32	6.70	0.67	1.01	8.39	2.65	60
4.49	3.76	3.49	6.03	1.67	4.29	.....	4.71	.....	.....	9.82	.....	4.96	61
211,256	27,172	58,626	.....	582	231,732	.....	4,550	.....	.....	.....	.....	665	62
4.45	3.90	8.05	.....	1.19	5.14	.....	6.58	.....	.....	.....	.....	1.71	63
47,505	6,970	7,280	.....	488	45,064	.....	692	.....	.....	.....	.....	388	64
4.45	3.90	8.05	.....	1.19	5.14	.....	6.58	.....	.....	.....	.....	1.71	65
195,211	.....	.....	.....	.....	69,605	.....	.....	.....	.....	.....	.....	.....	66
186,084	12,832	30,200	.....	.....	252,406	.....	.....	.....	.....	.....	.....	.....	67
86	9	259	16	5	276	6	26	156	12	33	4	15	68
30,194	10,128	16,104	3,813	1,308	83,494	545	2,727	826	250	496	358	3,531	69
65,500	37,899	27,729	6,283	5,220	231,431	742	8,544	1,092	235	775	1,269	18,746	70
2.2	3.7	1.7	1.6	4.0	2.8	1.4	3.1	1.3	0.9	1.6	3.5	5.3	71
3.27	4.72	5.42	2.28	1.81	4.23	3.92	6.54	6.70	0.70	1.00	8.45	2.72	72
6	3	66	4	2	62	.....	.....	5	.....	7	2	2	73
22,710	7,735	2,349	2,338	(5)	49,273	.....	.....	37	.....	223	(5)	(5)	74
7,178	1,450	1,732	1,743	(5)	25,481	.....	.....	35	.....	124	(5)	(5)	75
20,200	5,900	2,076	1,620	(5)	38,939	.....	.....	37	.....	184	.....	(5)	76
2,100	700	.....	400	.....	4,575	.....	.....	.....	.....	5	(5)	(5)	77

[4] Water rights have no legal status in Louisiana.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

PARISH TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Parishes for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the parishes listed are included under "All other parishes"]

	ITEM (For definitions and explanation, see text)	St. Landry	St. Martin	St. Mary	Tangipahoa	Vermilion		All other parishes[1]
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[0]							
1	All farms.....1940...number.....	7,983	2,440	387	1,521	3,392		98,370
2	1930...number.....	7,494	2,084	520	4,336	3,951		109,442
3	Irrigated farms.....1940...number.....	222	14	14	866	1,750		14
4	1930...number.....	173	30	13	1,176	1,532		31
5	Increase or decrease (-), 1930-1940.....percent....	28.3	46.7	7.7	-26.4	14.2		11.9
6	Operated by—(a) Owners and managers.....1940...number.....	110	16	5	565	953		26
7	1930...number.....	89	13	8	890	719		28
8	(b) Tenants.....1940...number.....	112	28	9	301	797		18
9	1930...number.....	84	17	5	376	813		9
10	Land in all farms.....1940...acres.....	288,790	128,523	113,318	192,747	316,201		6,837,351
11	Land in irrigated farms.....1940...acres.....	31,748	6,624	16,797	20,701	222,277		18,724
12	Average per farm.....1940...acres.....	143	151	1,200	21	127		126
13	(a) Operated by owners and managers.....1940...acres.....	23,408	1,164	15,169	16,326	137,168		11,218
14	Average per farm.....1940...acres.....	213	260	3,034	29	144		517
15	(b) Operated by tenants.....1940...acres.....	8,340	2,460	1,628	4,375	81,809		4,506
16	Average per farm.....1940...acres.....	74	88	181	15	106		250
17	Approximate land area.....1940...acres.....	595,200	472,320	387,200	513,920	783,360		18,897,920
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	8,002	3,010	2,875	3,211	95,148		2,013
19	(a) Cropland harvested.....1939...acres.....	7,458	2,970	2,875	3,188	92,845		2,003
20	(b) Crop failure.....1939...acres.....	9	40	.....	6	357		10
21	(c) Pasture.....1939...acres.....	535	.....	.....	17	1,946		.....
22	Area irrigated.....1929...acres.....	14,391	741	3,944	5,072	81,098		3,262
23	1919...acres.....	10,258	6,267	3,040	.....	87,830		6,924
24	Increase or decrease (-), 1929-1939.....percent....	-44.4	306.2	-27.1	-36.7	13.1		-38.3
25	Irrigable area in enterprises.....1940...acres.....	11,593	5,998	3,835	5,296	165,662		2,922
26	1930...acres.....	20,992	2,890	5,985	7,862	261,307		4,713
27	1920[2]...acres.....	23,611	10,575	4,340	.....	160,576		11,968
28	Excess of irrigable area over the area irrigated..1940...acres.....	3,591	2,988	960	2,085	70,514		909
29	1930...acres.....	6,601	2,149	2,041	2,790	177,209		1,451
30	Area works were capable of supplying with water...1940...acres.....	11,391	5,979	3,435	5,163	164,443		2,922
31	1930...acres.....	20,504	2,850	5,538	6,638	251,892		1,039
32	1920...acres.....	21,022	10,475	4,340	.....	147,168		11,871
33	Increase or decrease (-), 1930-1940.....percent....	-44.4	109.8	-38.0	-22.2	-34.7		-27.7
34	Excess, capability of works over area irrigated...1940...acres.....	3,389	2,969	560	1,952	69,295		909
35	1930...acres.....	6,113	2,109	1,594	1,566	167,794		917
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	25.2	45.4	17.1	15.5	42.8		10.8
37	1929...percent....	61.2	21.9	18.4	18.3	46.4		33.3
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	70.2	50.3	83.7	62.2	57.9		68.9
39	1929...percent....	70.2	26.0	71.2	76.4	33.4		80.8
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	161,473	51,140	16,010	217,479	2,091,047		19,388
41	(a) Cost of irrigation works and equipment.....1940...dollars....	161,473	51,140	16,010	217,479	2,091,047		19,388
42	(b) Investment in water rights (reported).....1940...dollars....	.....	.....	.....	.....	.....		.....
43	Total investment in all enterprises.....1930...dollars....	545,152	60,793	57,200	384,278	2,689,308		78,165
44	1920...dollars....	530,222	119,310	55,650	.....	3,477,876		221,208
45	Increase or decrease (-), 1930-1940.....percent....	-70.4	-15.9	-72.0	-43.4	-22.2		-75.3
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	14.18	8.55	4.66	42.12	12.72		6.64
47	1930...dollars....	26.59	21.33	10.33	57.89	10.68		.....
48	1920...dollars....	25.22	11.39	12.82	.....	23.58		.....
49	Average investment per acre irrigated.....1939...dollars....	20.18	16.99	5.57	67.73	21.98		9.63
50	Estimated final investment in existing enterprises..1940...dollars....	163,083	51,190	16,010	218,889	2,091,192		19,388
51	1930...dollars....	546,102	60,793	57,200	384,578	2,689,308		78,165
52	1920...dollars....	548,022	120,810	55,650	.....	3,479,026		267,208
53	Increase or decrease (-), 1930-1940.....percent....	-70.2	-15.8	-72.0	-43.1	-22.2		-75.3
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	14.07	8.53	4.17	41.33	12.62		6.61
55	1930...dollars....	26.03	21.04	9.56	48.92	10.29		.....
56	1920[2]...dollars....	23.21	11.42	12.82	.....	21.67		.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					Primary Enterprises	Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	55	20	13	537	314	8	11
58	Area irrigated in these enterprises.....1939...acres.....	7,259	2,742	2,875	2,522	92,126	1,490	1,361
59	Cost of maintenance and operation.....1939...dollars....	23,341	8,501	2,208	11,203	295,627	1,215	1,900
60	Average cost, per acre irrigated.....1939...dollars....	3.22	3.10	0.77	4.44	3.21	0.82	3.60
61	1929...dollars....	3.91	6.15	3.49	5.57	2.99	.....	.....
62	Total annual charges (reported)[3 4].....1939...dollars....	10,768	.....	.....	.....	349,938	.....	.....
63	Average annual charge per acre irrigated.....1939...dollars....	5.28	.....	.....	.....	5.95	.....	.....
64	Area against which charges were assessed.....1939...acres.....	2,038	.....	.....	.....	58,812	.....	.....
65	Average annual charge per acre assessed.....1939...dollars....	5.28	.....	.....	.....	5.95	.....	.....
66	Total charges collected[3].....1939...dollars....	3,215	.....	.....	.....	4,845	.....	.....
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	2,600	.....	.....	.....	1,753,704	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	53	20	13	726	344	8	11
69	Area irrigated in these enterprises.....1939...acres.....	7,206	2,885	2,875	3,108	92,514	1,490	1,759
70	Water delivered in these enterprises.....1939...acre-feet..	10,855	7,334	3,824	2,205	208,986	1,334	6,217
71	Average water delivered per acre irrigated.....1939...acre-feet..	1.5	2.5	1.3	0.7	2.3	0.9	3.5
72	Average cost of water per acre irrigated.....1939...dollars....	3.83	3.17	0.77	4.48	4.45	0.82	4.04
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	26	6	6	179	195	.....	5
74	Irrigable area in these enterprises.....1939...acres.....	4,167	2,300	1,160	1,194	30,470	.....	780
75	Irrigated area in these enterprises.....1939...acres.....	2,752	846	860	952	18,796	.....	758
76	Area for which drains have been installed.....1939...acres.....	3,387	802	500	1,033	21,940	.....	771
77	Additional area needing drainage.....1939...acres.....	85	.....	600	78	1,636	.....	.....

[0] Census of Agriculture. [1] Data between census years not comparable (see headnote). [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

PARISH TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Parishes for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the parishes listed are included under "All other parishes"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Acadia	Allen	Ascension	Avoyelles	Calcasieu
	FARM VALUES, 1940[a]						
1	Land and buildings, all farms....dollars..	353,873,506	16,134,128	2,202,615	3,281,671	9,149,218	6,484,163
2	Land and buildings, irrigated farms....dollars..	45,182,979	11,646,772	813,370	359,640	116,350	3,365,136
	Operated by—						
3	(a) Owners and managers....dollars..	28,353,724	7,647,047	594,245	298,060	(1)	1,299,036
4	(b) Tenants....dollars..	16,829,255	3,999,725	219,125	61,580	(1)	2,066,100
5	Average, land and buildings, per farm....dollars..	6,420.77	8,917.90	4,595.31	32,694.55	19,391.67	6,611.27
6	per acre in farms....dollars..	42.36	50.80	25.83	36.05	56.95	27.58
7	Buildings, irrigated farms reporting value....number...	6,779	1,246	174	9	6	480
8	Total reported....dollars..	8,019,180	1,891,242	147,560	88,800	33,000	595,378
9	Average, per irrigated farm reporting....dollars..	1,182.94	1,517.85	848.05	9,866.67	5,500.00	1,240.37
10	per acre on all irrigated farms....dollars..	7.52	8.25	4.69	8.90	16.15	4.88
11	Buildings, nonirrigated farms reporting value....number...	138,349	2,530	1,113	1,349	5,083	1,242
12	Total reported....dollars..	83,374,445	1,238,917	557,072	942,686	2,287,469	1,163,769
13	Average, per nonirrigated farm reporting....dollars..	602.64	489.69	500.51	698.80	450.02	937.01
14	per acre on all nonirrigated farms....dollars..	9.34	17.76	7.84	14.58	13.39	19.51
15	Implements and machinery, irrigated farms reporting value..number...	6,220	1,172	163	10	6	452
16	Total reported....dollars..	7,291,697	1,680,573	198,287	95,830	31,000	824,809
17	Average, per irrigated farm reporting....dollars..	1,172.30	1,433.94	1,216.48	9,583.00	5,166.67	1,824.80
18	per acre, on all irrigated farms....dollars..	6.84	7.33	6.30	9.61	15.17	6.76
19	Implements and machinery, nonirrigated farms reporting value....number...	116,411	2,257	991	1,296	4,427	1,026
20	Total reported....dollars..	28,513,155	427,664	100,734	304,056	818,166	241,741
21	Average, per acre, on all nonirrigated farms....dollars..	3.19	6.13	1.42	4.70	4.79	4.05
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises....1940...number....	[2] 2,583	328	37	8	4	91
23	1930...number....	[2] 2,355	348	25	10	4	42
24	1920...number....	1,373	328	32	6	....	56
25	Average size of enterprise based on irrigable area....1940...acres....	307	600	993	431	438	1,049
26	1930...acres....	361	568	731	427	215	2,722
27	1920[3]...acres....	620	637	960	439	....	2,627
28	Diversion dams....1940...number....	105	3	8	....	....	2
29	Main canals and laterals....1940...length, miles....	2,421.0	667.2	86.0	4.0	2.0	327.8
30	1930...length, miles....	2,226	703	43	6	1	394
31	1920...length, miles....	3,243	818	77	8	....	305
32	1940...capacity, c.f.s.[4]....	10,335	1,966	350	73	17	1,687
33	1930...capacity, c.f.s.[4]....	11,386	2,930	135	72	1	1,985
34	1920...capacity, c.f.s.[4]....	11,889	1,934	36	16	....	1,580
35	Pipe lines[5]....1940...length, miles....	63.6	16.4	0.1	0.5	0.1	2.3
36	Storage dams....1940...number....	114	4	....	8	....	2
37	Reservoirs....1940...number....	75	4	....	5	....	2
38	1930...number....	85	6	2	3	....	5
39	1920...number....	74	11	....	....	....	3
40	1940...capacity, acre-feet..	34,199	160	....	2,255	....	[6]
41	1930...capacity, acre-feet..	13,909	881	80	9	....	6,448
42	1920...capacity, acre-feet..	7,632	2,170	....	....	....	460
43	Wells, flowing....1940...number....	502	....	....	....	....	....
44	1930...number....	807	....	....	....	....	....
45	1920...number....	9	....	....	....	....	5
46	1940...yield, g.p.m....	12,695	....	....	....	....	....
47	1930...yield, g.p.m....	31,961	....	....	....	....	....
48	1920...yield, g.p.m....	6,255	....	....	....	....	5,800
49	Wells, pumped....1940...number....	1,504	235	26	....	1	22
50	1930...number....	1,389	308	23	1	1	16
51	1920...number....	812	280	32	....	....	28
52	1940...yield, g.p.m....	1,526,613	475,965	60,400	....	[6]	50,600
53	1930...yield, g.p.m....	1,958,811	637,055	49,500	1,000	2,500	88,450
54	1920...yield, g.p.m....	1,607,637	426,300	89,700	....	....	106,800
55	Pumping plants....1940...number....	2,326	379	40	10	7	100
56	1930...number....	1,790	379	27	8	4	54
57	1920...number....	1,250	347	45	7	....	57
58	Prime movers....1940...capacity, hp....	85,574	29,088	3,117	410	151	5,916
59	1930...capacity, hp....	86,413	31,793	1,962	300	57	7,559
60	1920...capacity, hp....	85,628	27,279	5,580	375	....	7,947
61	Pumps....1940...capacity, g.p.m....	6,453,487	1,648,465	114,620	46,000	10,000	723,550
62	1930...capacity, g.p.m....	5,914,799	1,323,978	96,700	33,600	3,050	916,562
63	1920...capacity, g.p.m....	4,968,686	1,509,335	161,100	9,500	....	745,200
64	Pumping lift, from all sources....1940...average, feet....	32	47	41	16	23	18
65	1930...average, feet....	37	47	49	14	22	22
66	1920...average, feet....	32	37	36	15	....	21
67	from pumped wells....1940...average, feet....	45	69	54	....	[6]	35
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]						
68	Enterprises reporting pay roll....number...	107	42	4	....	....	8
69	Irrigated area in these enterprises....acres....	230,726	58,642	9,040	....	....	47,060
70	Wages and salaries paid and payable....dollars..	502,320	170,537	12,416	....	....	93,467
71	Persons employed during week ending April 29....number...	802	279	21	....	....	104

[a] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[2] Includes interparish projects counted as independent enterprises for each parish into which they extend. For actual number of enterprises see State table 1.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

PARISH TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Parishes for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Cameron	Evangeline	Iberia	Iberville	Jefferson Davis	Lafayette
	FARM VALUES, 1940*						
1	Land and buildings, all farms.....dollars..	1,474,345	7,084,174	6,417,047	4,074,194	10,811,857	9,668,839
2	Land and buildings, irrigated farms.....dollars..	323,020	2,241,195	401,870	115,680	8,938,288	374,760
	Operated by—						
3	(a) Owners and managers.....dollars..	75,500	1,429,880	342,920	71,350	5,104,322	219,740
4	(b) Tenants.....dollars..	247,520	811,315	58,950	44,330	3,833,966	155,020
5	Average, land and buildings, per farm.....dollars..	3,549.67	3,183.52	22,326.11	7,712.00	11,638.40	7,973.62
6	per acre in farms.....dollars..	15.17	36.92	37.13	38.12	40.24	71.92
7	Buildings, irrigated farms reporting value.....number...	79	692	14	5	729	47
8	Total reported.....dollars..	41,810	455,635	81,300	34,100	1,328,284	68,100
9	Average, per irrigated farm reporting.....dollars..	529.24	658.50	5,807.14	6,820.00	1,822.06	1,448.94
10	per acre on all irrigated farms.....dollars..	1.96	7.51	7.51	11.24	5.98	13.07
11	Buildings, nonirrigated farms reporting value.....number...	701	3,787	1,247	675	845	3,327
12	Total reported.....dollars..	297,392	1,523,415	1,718,045	909,447	474,836	1,996,144
13	Average, per nonirrigated farm reporting.....dollars..	424.24	402.28	1,377.74	1,347.33	561.94	599.98
14	per acre on all nonirrigated farms.....dollars..	5.89	12.42	17.25	10.04	9.79	15.17
15	Implements and machinery, irrigated farms reporting value..number...	83	638	18	5	695	46
16	Total reported.....dollars..	165,115	337,018	109,325	28,110	1,239,419	36,845
17	Average, per irrigated farm reporting.....dollars..	1,989.34	606.61	6,073.61	5,622.00	1,783.34	800.98
18	per acre, on all irrigated farms.....dollars..	7.76	6.38	10.10	9.26	5.58	7.07
19	Implements and machinery, nonirrigated farms reporting value.....number...	524	3,114	909	678	694	2,696
20	Total reported.....dollars..	94,247	401,225	750,404	392,632	159,374	573,277
21	Average, per acre, on all nonirrigated farms.....dollars..	1.87	3.27	7.53	4.33	3.29	1.36
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises.....1940...number.....	15	278	17	5	299	26
23	1930...number.....	4	96	5	3	244	4
24	1920...number.....	5	83	43	7	269	14
25	Average size of enterprise based on irrigable area.....1940...acres.....	2,203	84	394	284	609	199
26	1930...acres.....	1,595	212	573	305	688	494
27	1920[2]..acres.....	862	227	280	363	713	409
28	Diversion dams.....1940...number.....	1	52	5	2	5	1
29	Main canals and laterals.....1940...length, miles.....	77.0	56.6	13.7	15.1	461.6	11.1
30	1930...length, miles.....	10	178	15	.....	390	6
31	1920...length, miles.....	10	56	67	.....	413	24
32	1940...capacity, c.f.s.[3]....	793	479	93	74	1,416	13
33	1930...capacity, c.f.s.[3]....	86	1,091	394	.....	1,800	18
34	1920...capacity, c.f.s.[3]....	8	127	381	9	1,850	53
35	Pipe lines[1].....1940...length, miles.....	.....	1.3	0.1	0.4	1.9	.....
36	Storage dams.....1940...number.....	1	81	.....	3	2	.....
37	Reservoirs.....1940...number.....	2	35	.....	2	2	.....
38	1930...number.....	.....	34	.....	.....	.....	.....
39	1920...number.....	.....	10	1	2	4	.....
40	1940...capacity, acre-feet..	(5)	3,068	.....	(5)	(5)	.....
41	1930...capacity, acre-feet..	.....	5,006	.....	.....	.....	.....
42	1920...capacity, acre-feet..	.....	255	2,041	43	55	.....
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	1	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	1	39	4	.....	245	26
50	1930...number.....	.....	42	.....	.....	232	3
51	1920...number.....	1	26	35	.....	259	15
52	1940...yield, g.p.m.....	(5)	73,142	4,500	.....	611,405	34,000
53	1930...yield, g.p.m.....	.....	98,650	.....	.....	691,965	6,100
54	1920...yield, g.p.m.....	2,600	59,150	40,580	.....	631,700	28,900
55	Pumping plants.....1940...number.....	20	180	24	5	344	28
56	1930...number.....	3	68	6	2	270	5
57	1920...number.....	5	57	46	9	282	14
58	Prime movers.....1940...capacity, hp.....	1,461	4,189	764	173	22,439	1,088
59	1930...capacity, hp.....	150	4,235	455	100	22,260	290
60	1920...capacity, hp.....	187	2,451	1,826	435	21,565	880
61	Pumps.....1940...capacity, g.p.m.....	286,355	206,796	66,200	13,840	1,523,870	36,500
62	1930...capacity, g.p.m.....	39,800	136,720	28,100	7,500	1,381,248	6,500
63	1920...capacity, g.p.m.....	93,094	71,070	99,275	25,900	1,093,050	28,900
64	Pumping lift, from all sources.....1940...average, feet.....	11	24	17	12	41	50
65	1930...average, feet.....	9	31	22	18	45	40
66	1920...average, feet.....	17	34	19	13	38	36
67	from pumped wells.....1940...average, feet.....	(5)	62	46	.....	49	54
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]						
68	Enterprises reporting pay roll.....number...	4	14	.....	.....	15	2
69	Irrigated area in these enterprises.....acres....	6,970	6,492	.....	.....	44,016	(5)
70	Wages and salaries paid and payable.....dollars..	18,276	6,634	.....	.....	77,455	(5)
71	Persons employed during week ending April 29.....number...	33	31	.....	.....	105	(5)

[6] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the parishes listed are included under "All other parishes"]

Livingston	Orleans	Plaquemines	Rapides	St. James	St. Landry	St. Martin	St. Mary	Tangipahoa	Vermilion	All other parishes[1]	
2,876,817	1,947,990	2,532,777	11,056,102	2,638,691	14,841,919	5,844,294	3,928,530	6,387,917	14,658,793	210,377,425	1
507,481	520,250	153,785	206,232	474,190	1,371,787	302,995	222,033	1,586,450	10,207,494	934,201	2
443,076	485,500	98,535	180,932	335,990	1,000,920	185,345	176,733	1,213,100	6,295,778	747,715	3
64,405	34,750	55,250	25,300	138,200	370,867	117,650	45,300	373,350	3,911,716	186,486	4
1,714.46	20,009.62	2,135.90	29,461.71	10,777.05	6,179.22	6,886.25	15,859.50	1,831.93	5,832.85	21,231.84	5
50.54	1,106.91	38.41	55.45	34.51	43.21	45.74	13.22	76.64	45.92	49.89	6
294	23	69	6	34	219	35	14	854	1,708	42	7
202,871	168,200	49,160	47,750	111,460	305,019	42,405	79,700	594,815	1,375,341	277,200	8
690.04	7,313.04	712.46	7,958.33	3,278.24	1,392.78	1,211.57	5,692.86	696.50	805.23	6,600.00	9
20.20	357.87	12.28	12.84	8.11	9.61	6.40	4.74	28.73	6.19	14.80	10
1,828	168	512	3,244	333	7,535	2,259	354	3,570	1,604	95,043	11
824,794	263,207	772,684	2,900,809	524,174	3,322,151	1,299,463	993,746	1,975,433	849,694	56,539,068	12
451.20	1,566.71	1,509.15	894.21	1,574.10	440.90	575.24	2,807.19	553.34	529.73	594.88	13
11.27	22.77	18.47	13.09	11.95	13.03	10.66	10.30	11.48	9.05	8.29	14
279	24	68	7	42	208	39	11	766	1,453	35	15
71,427	19,285	12,422	37,773	100,360	269,963	61,700	53,020	173,785	1,591,720	103,911	16
256.01	803.54	182.68	5,396.14	2,389.52	1,297.90	1,582.05	4,820.00	226.87	1,095.47	2,968.89	17
7.11	41.03	3.10	10.16	7.30	8.50	9.31	3.16	8.40	7.16	5.55	18
1,554	127	328	2,490	359	6,873	2,098	246	3,051	1,371	79,302	19
212,711	90,016	157,826	1,022,276	333,287	1,340,662	497,874	603,228	503,827	405,867	19,082,061	20
2.91	7.79	3.77	4.61	7.60	5.26	4.08	6.25	2.93	4.32	2.80	21
158	14	37	6	24	60	22	13	762	365	14	22
1	1	86	2	9	104	7	11	1,163	154	32	23
.....	.....	157	.....	21	116	32	13	.....	165	26	24
8	23	30	260	345	193	273	295	7	454	209	25
.....	.....	85	.....	389	202	413	544	7	1,697	.....	26
.....	.....	60	.....	291	204	330	334	.....	973	460	27
.....	.....	.....	.....	14	1	7	2	.....	2	.....	28
.....	.....	14.0	2.0	30.0	25.2	27.4	6.0	.....	585.8	8.5	29
.....	.....	2	.....	8	82	10	11	.....	365	2	30
.....	.....	309	.....	60	92	48	16	.....	917	23	31
.....	2	50	22	228	235	59	155	3	2,567	53	32
.....	.....	2	.....	20	418	26	57	.....	2,286	65	33
.....	.....	726	.....	101	2,309	232	28	.....	1,767	732	34
6.9	3.1	2.4	0.2	5.3	0.4	0.3	.....	20.2	1.0	0.7	35
.....	.....	.....	.....	9	.....	.....	.....	.....	2	2	36
.....	.....	.....	.....	17	.....	.....	.....	1	1	4	37
.....	.....	2	.....	2	26	.....	.....	1	.....	4	38
.....	.....	.....	.....	.....	38	.....	.....	.....	.....	5	39
.....	.....	.....	.....	16,625	.....	.....	.....	(5)	(5)	160	40
.....	.....	65	.....	28	1,278	.....	.....	60	.....	54	41
.....	.....	.....	.....	.....	2,608	.....	.....	.....	.....	.....	42
179	.....	.....	.....	.....	.....	.....	.....	322	.....	1	43
.....	.....	.....	.....	.....	.....	.....	.....	806	.....	1	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	45
5,478	.....	.....	.....	.....	.....	.....	.....	7,067	.....	(5)	46
.....	.....	.....	.....	.....	.....	.....	.....	31,913	.....	48	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	425	30	48
167	.....	.....	3	.....	18	2	.....	621	93	1	49
.....	.....	5	.....	.....	39	.....	.....	660	58	1	50
.....	.....	.....	.....	.....	28	4	.....	.....	104	.....	51
4,530	.....	.....	800	.....	37,050	(5)	.....	36,968	124,213	(5)	52
.....	.....	312	.....	.....	136,100	.....	.....	29,629	217,350	200	53
.....	.....	.....	.....	.....	51,600	15,000	.....	.....	155,307	.....	54
101	.....	9	10	23	60	23	13	549	386	15	55
.....	.....	38	.....	9	86	7	13	627	165	19	56
.....	.....	14	.....	21	37	32	15	.....	185	27	57
216	.....	81	123	751	2,239	500	359	1,333	10,879	297	58
.....	.....	145	.....	455	4,728	345	605	1,773	8,787	414	59
.....	.....	169	.....	990	4,320	1,236	470	.....	8,664	1,254	60
3,720	.....	5,518	8,400	90,000	141,170	42,050	70,550	37,190	1,352,583	26,110	61
.....	.....	5,320	.....	26,400	201,350	24,090	81,800	29,541	1,483,400	89,140	62
.....	.....	3,300	.....	44,800	124,200	96,100	12,900	.....	809,502	41,460	63
23	.....	12	18	12	31	17	8	41	11	23	64
.....	.....	17	.....	11	30	21	14	38	24	17	65
.....	.....	5	.....	13	56	20	15	.....	19	.....	66
23	.....	.....	20	.....	68	(5)	.....	41	23	(5)	67
.....	.....	.....	.....	1	6	.....	.....	.....	11	.....	68
.....	.....	.....	.....	(5)	1,728	.....	.....	.....	55,848	.....	69
.....	.....	.....	.....	(5)	2,151	.....	.....	.....	120,833	.....	70
.....	.....	.....	.....	(5)	11	.....	.....	.....	209	.....	71

[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State[1]....acres....	[8] 93,642,240	93,523,840	93,523,840	[2] 93,523,840	93,568,640	93,568,640	93,568,640
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	41,823	50,564	47,495	57,677	26,214	13,370	5,603
Land in all farms....acres....	46,451,594	47,511,868	44,659,152	35,070,656	13,545,603	11,844,454	1,964,197
Farms irrigated:[3]							
Farms....number...	15,087	13,864	11,925	10,807	8,970	8,043	3,706
Increase or decrease (-) over preceding census....percent..	[4] 26.5	.....	10.3	20.5	11.5	117.0	.....
Proportion of all farms....percent..	36.1	27.4	25.1	18.7	34.2	60.2	66.1
Land in farms....acres....	16,022,060	(5)	12,032,619	(5)	(5)	(5)	(5)
Proportion of all farm land....percent..	34.5	(5)	26.9	(5)	(5)	(5)	(5)
Area irrigated....acres....	[6] 1,587,602	[7] 1,272,054	[6] 1,343,035	(9)	(9)	951,154	350,582
Increase or decrease (-) over preceding census....percent..	[4] 18.2	.....	.....	.....	.....	171.3	.....
Proportion of total land area of State....percent..	1.7	1.4	1.4	.....	.....	1.0	0.4
Proportion of all farm land....percent..	3.4	2.7	3.0	.....	.....	8.0	17.8
Value of irrigated farms (land and buildings)....dollars..	163,836,136	(5)	190,057,936	(5)	(5)	(5)	(5)
Average per farm....dollars..	10,859.42	(5)	15,937.78	(5)	(5)	(5)	(5)
Average per acre....dollars..	10.23	(5)	15.80	(5)	(5)	(5)	(5)
Value of farm implements and machinery[10]....dollars..	16,967,155	(5)	14,969,479	(5)	(5)	(5)	(5)
Average per farm[10]....dollars..	1,124.62	(5)	1,255.30	(5)	(5)	(5)	(5)
Average per acre[10]....dollars..	1.06	(5)	1.24	(5)	(5)	(5)	(5)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	5,555	(5)	4,461	6,035	5,534	(5)	(5)
Farms irrigated....number...	17,094	(5)	(5)	(5)	(5)	(5)	(5)
Area irrigated....acres....	1,711,409	(5)	1,594,912	1,681,729	1,679,084	(5)	(5)
Area existing works were capable of supplying with water....acres....	2,344,390	(5)	2,276,000	2,753,498	2,205,155	(5)	(5)
Area irrigable....acres....	2,588,214	(5)	2,622,423	[11] 4,329,148	[11] 3,515,602	(5)	(5)
Additional area existing works were capable of supplying with water....acres....	632,981	(5)	681,088	1,071,769	526,071	(5)	(5)
Additional irrigable area in enterprises not supplied with water....acres....	876,805	(5)	1,027,511	[11] 2,647,419	[11] 1,836,518	(5)	(5)
Investment in irrigation enterprises....dollars..	67,952,505	(5)	50,319,204	52,143,363	22,970,958	4,683,073	1,623,185
Increase or decrease (-) over preceding census....percent..	[4] 33.9	(5)	-3.5	127.0	390.5	188.5	.....
Average per acre based on area works were capable of supplying with water....dollars..	28.73	(5)	22.11	18.94	10.42	(5)	(5)
Increase or decrease (-) over preceding census....percent..	[4] 29.9	(5)	16.7	81.8	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	75,174,645	(5)	58,489,575	70,079,028	32,382,077	(5)	(5)
Average per acre based on irrigable area in enterprises....dollars..	29.04	(5)	22.30	[11] 16.19	[11] 9.21	(5)	(5)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	0.73	(5)	0.87	1.26	0.89	(5)	(5)

[1] Includes 153,600 acres in Yellowstone National Park. [2] A decrease of 44,800 acres was due to the building of several reservoirs for irrigation projects. [3] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [4] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [5] Not available. [6] Irrigated land from which crops were harvested plus 228,476 acres of irrigated land used only for pasture. [7] Irrigated land from which crops were harvested. [8] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [9] Data were secured from crops irrigated but the returns were considered relatively incomplete. [10] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [11] For 1920 and 1910 relates to total area in enterprise. Irrigable areas for those years were not reported. [8] The land area shown for 1940 represents redeterminations by the Bureau of the Census, and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	41,823	46,451,594	5,748,069	1,359,126	228,476	350,178,461	7.54	66,610,875	1.43	43,193,602	0.93
Owners and managers.....	30,181	38,591,217	4,410,260	1,021,441	183,638	278,677,767	7.22	53,752,421	1.39	33,237,340	0.86
Tenants.....	11,642	7,860,377	1,337,809	337,685	44,838	71,500,694	9.10	12,858,454	1.64	9,956,262	1.27
Irrigated farms, total.....	15,087	16,022,060	1,783,766	1,359,126	228,476	163,836,136	10.23	33,750,271	2.11	16,967,155	1.06
Owners and managers.....	10,858	14,015,361	1,367,514	1,021,441	183,638	129,225,314	9.22	27,308,944	1.95	12,735,851	0.91
Tenants.....	4,229	2,006,699	416,252	337,685	44,838	34,610,822	17.25	6,441,327	3.21	4,231,304	2.11
Wholly irrigated farms.....	10,048	7,814,138	991,404	991,404	169,724	95,193,995	12.18	21,694,423	2.78	10,121,619	1.30
Owners and managers.....	7,121	6,814,241	742,986	742,986	136,725	74,319,287	10.91	17,258,151	2.53	7,291,729	1.07
Tenants.....	2,927	999,897	248,418	248,418	32,999	20,874,708	20.88	4,436,272	4.44	2,829,890	2.83
Partly irrigated farms.....	5,039	8,207,922	792,362	367,722	58,752	68,642,141	8.36	12,055,848	1.47	6,845,536	0.83
Owners and managers.....	3,737	7,201,120	624,528	278,455	46,913	54,906,027	7.62	10,050,793	1.40	5,444,122	0.76
Tenants.....	1,302	1,006,802	167,834	89,267	11,839	13,736,114	13.64	2,005,055	1.99	1,401,414	1.39
Nonirrigated farms, total.....	26,736	30,429,534	3,964,303	.....	.....	186,342,325	6.12	32,860,604	1.08	26,226,447	0.86

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	5,555	2,588,214	2,344,390	1,711,409	1,594,912	1,681,729	7.3	1,524,390	1,656,110	1,483,338	2.2	0.91	0.41
Primary sources:													
Streams, gravity	4,427	2,154,007	1,983,640	1,475,894	1,392,161	1,515,212	6.0	1,294,767	1,424,963	1,256,743	2.1	0.71	0.33
Streams, pumped	381	73,854	58,205	35,925	38,620	15,743	-7.0	35,517	34,886	34,614	2.1	2.86	1.37
Streams, gravity and pumped	48	283,649	228,320	145,679	56,970	19,872	155.7	144,228	145,667	144,216	1.8	1.43	0.80
Wells, pumped	62	1,040	980	844	243	139	247.3	844	777	777	1.7	4.64	2.70
Wells, flowing	24	779	753	698	821	212	-15.0	93	33	33	6.4	0.67	0.10
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	19	19,971	19,932	6,480	4,905	16,653	32.1	6,398	6,462	6,382	4.7	1.37	0.29
Lakes, pumped	28	500	308	244	5,528	79	-95.6	244	225	225	1.7	4.34	2.49
Springs	272	13,099	11,789	10,215	10,947	14,945	-6.7	9,723	9,477	8,996	2.1	0.63	0.30
Springs and streams	96	21,005	20,403	17,371	.....	.....	.....	16,467	16,586	16,133	1.8	0.32	0.18
Stored storm water	46	3,830	3,620	2,531	4,828	3,280	-47.6	2,516	2,182	2,167	0.8	1.02	1.29
City water	1	(2)	(2)	(2)	335	15	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Sewage	1	(2)	(2)	(2)	5	245	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Streams, gravity; wells, pumped	19	1,653	1,636	1,496	2,694	155	-44.5	1,396	1,248	1,248	1.5	0.75	0.48
Streams, gravity; wells, flowing	1	(2)	(2)	(2)	.....	6,068	.....	(2)	(2)	(2)	(2)	(2)	(2)
Streams, pumped; wells, pumped	2	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Waste water, seepage or drainage	25	1,485	1,482	1,448	.....	.....	.....	1,123	1,363	1,068	2.1	0.51	0.25
Other mixed	49	13,191	13,171	12,467	76,732	89,070	-83.8	10,957	12,124	10,619	2.0	1.06	0.53
Other and not reported	.....	.....	.....	.....	123	41	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	44	270,824	233,824	168,502	.....	.....	.....	123,164	145,930	123,149	1.3	0.70	0.56
Streams, pumped	8	387	387	304	.....	.....	.....	304	299	299	1.3	2.03	1.57
Wells, pumped	1	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Wells, flowing	1	(2)	(2)	(2)	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [3] Areas shown under "Supplemental sources" are a part of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]							
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919		
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	67,352,505	100.0	28.73	50,319,204	100.0	22.11	6.62	1,650,373	0.73	1,476,854	0.87	-0.14	1,369,651	1.26
Primary sources:														
Streams, gravity	43,431,164	64.5	21.89	41,292,784	82.1	20.91	0.98	1,419,226	0.58	1,280,361	0.77	-0.19	1,249,390	1.18
Streams, pumped	1,957,853	2.9	33.64	2,208,928	4.4	43.23	-9.59	34,886	3.47	37,957	2.36	1.11	11,414	5.63
Streams, gravity and pumped	15,406,871	22.9	67.48	4,374,096	8.7	41.88	25.60	145,667	1.31	56,930	1.91	-0.60	19,872	1.77
Wells, pumped	34,741	0.1	35.45	14,259	(3)	49.34	-13.89	777	4.64	171	9.38	-4.74	49	5.41
Wells, flowing	13,290	(3)	17.65	9,025	(3)	7.69	9.96	33	0.67	753	1.62	-0.95	154	7.24
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	491,592	0.7	24.66	128,526	0.2	9.56	15.1	6,462	1.11	4,348	0.45	0.66	8,063	5.46
Lakes, pumped	22,997	(3)	74.67	194,880	0.4	18.94	55.73	225	4.34	5,528	4.52	-0.18	41	11.07
Springs	91,284	0.1	7.74	79,313	0.1	6.08	1.66	9,477	0.61	9,369	0.70	-0.09	7,821	1.57
Springs and streams	86,464	0.1	4.24	.....	.....	.....	.....	16,586	0.32	.....	.....	.....	.....	.....
Stored storm water	45,379	0.1	12.54	131,355	0.3	18.52	-5.98	2,182	1.03	4,714	1.32	-0.29	1,957	5.74
City water	(4)	(4)	(4)	4,050	(3)	8.77	(4)	(4)	(4)	312	3.30	(4)	.....	.....
Sewage	(4)	(4)	(4)	25	(3)	5.00	(4)	(4)	(4)	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	15,411	(3)	9.42	25,267	(5)	5.59	3.83	1,248	0.75	1,425	1.11	-0.36	150	6.67
Streams, gravity; wells, flowing	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	6,065	1.41
Streams, pumped; wells, pumped	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Waste water, seepage or drainage	4,212	(3)	2.84	.....	.....	.....	.....	1,363	0.72	.....	.....	.....	.....	.....
Other mixed	279,235	0.4	21.20	1,855,891	3.7	19.55	1.65	12,124	0.95	74,883	0.79	0.16	64,675	0.99
Other and not reported	.....	.....	.....	805	(3)	6.54	.....	.....	.....	103	0.19	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	5,457,887	8.1	23.34	.....	.....	.....	.....	168,462	0.12	.....	.....	.....	.....	.....
Streams, pumped	10,940	(3)	28.27	.....	.....	.....	.....	299	2.03	.....	.....	.....	.....	.....
Wells, pumped	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Wells, flowing	(4)	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [5] Areas shown under "Supplemental sources" are a part of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED					
Total	*Acres* 1,711,409	*Acres* 168,863	*Acres* 1,594,912	*Acres* 1,681,729	*Percent* 7.3
Individual and partnership	827,564	5,504	885,274	976,615	-6.5
Cooperative, incorporated	285,029	132,791	418,862	393,257	5.9
Cooperative, unincorporated	158,344	496			
Irrigation district	71,434	30,072	83,870	35,153	-14.8
Commercial	40,384		22,375	34,115	80.5
Bureau of Reclamation[2]	186,002	.....	98,327	88,291	89.2
Office of Indian Affairs[2]	133,542	.....	75,844	98,887	76.1
State	[3] 9,110	.....	360	20	[4]
City and/or sewage	[3]	.....	.....	320	[3]
Other	.....	.....	10,000	55,071	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	2,344,390	234,269	2,276,000	2,753,498	3.0
Individual and partnership	986,782	6,238	1,099,699	1,617,617	-10.3
Cooperative, incorporated	356,348	177,243	524,077	553,952	8.7
Cooperative, unincorporated	213,532	716			
Irrigation district	82,711	50,072	137,458	70,650	-39.8
Commercial	112,283		28,780	38,215	290.1

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued					
Bureau of Reclamation[2]	*Acres* 323,197	*Acres*	*Acres* 247,756	*Acres* 172,206	*Percent* 30.4
Office of Indian Affairs[2]	241,184	.....	220,870	215,940	9.2
State	[3] 28,353	.....	360	50	[4]
City and/or sewage	[3]	.....	.....	390	[3]
Other	.....	.....	17,000	84,478	.....
IRRIGABLE AREA[5]					
Total	2,588,214	271,269	2,622,423	4,329,148	-1.3
Individual and partnership	1,030,610	6,238	1,243,248	2,372,086	-17.1
Cooperative, incorporated	371,143	182,243	544,738	699,310	8.0
Cooperative, unincorporated	217,120	716			
Irrigation district	95,511	74,002	141,648	71,687	-32.6
Commercial	133,943		29,780	39,160	349.8
Bureau of Reclamation[2]	357,559	.....	311,471	436,982	14.8
Office of Indian Affairs[2]	348,087	.....	334,178	526,690	4.2
State	[3] 34,241	8,000	360	100	[4]
City and/or sewage	[3]	.....	.....	530	[3]
Other	.....	.....	17,000	182,603	.....

[1] Irrigated areas shown under "Supplemental enterprises" are a part of irrigated areas in "Primary enterprises," (see text). [2] U. S. Dept. of the Interior. [3] Data for 1 "City and/or sewage" enterprise are included with "State" enterprises in the 1940 Census. [4] Percent not shown when more than 1,000. [5] For 1920 relates to total area. Irrigable area for that year was not reported. [6] For explanation of areas, see text, p. 317.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area ✓	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
Total	*Number* 5,555	*Number* 351	*Acres* 2,588,214	*Acres* 2,344,390	*Dollars* 26.17	*Dollars* 0.72	*Dollars* 23.33	*Dollars* 0.12	*Number* 17,094	*Acres* 1,711,409	*Acres* 1,501,878	*Acres* 7,844	*Acres* 201,687
Individual and partnership	5,123	59	1,030,610	986,782	6.05	0.42	4.04	0.31	6,023	827,564	709,666	3,175	114,723
Cooperative, incorporated	132	120	371,143	356,348	12.16	0.50	15.92	0.11	3,045	285,029	260,597	238	24,194
Cooperative, unincorporated	126	103	217,120	213,532	20.56	0.64	1.89	0.36	1,609	158,344	139,423	402	18,519
Irrigation district	26	26	95,511	82,711	44.08	0.92	42.69	0.15	1,161	71,434	66,591	700	4,143
Commercial	17	17	133,943	112,283	16.30	1.98			594	40,384	36,135	37	4,212
U. S. Bureau of Reclamation[6]	18	18	357,559	323,197	82.33	1.45	.....	.....	2,666	186,002	173,271	1,215	11,516
U. S. Office of Indian Affairs	8	6	348,087	241,184	58.39	1.44	.....	.....	1,905	133,542	108,700	1,487	23,355
State	[4] 105	2	[4] 34,241	[4] 28,353	[4] 17.81	1.23	.....	.....	[4] 91	[4] 9,110	[4] 7,495	590	[4] 1,025
City and/or sewage	[4]	.....	[4]	[4]	[4]	.....	.....	.....	[4]	[4]	[4]	.....	[4]
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "City and/or sewage" enterprise are included with "State" enterprises in the 1940 Census. [5] For explanation of areas and investment, see text, p. 317.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	*Dollars* 67,352,505	*Dollars* 61,882,978	*Dollars* 5,469,527	*Dollars* 66,830,409	*Dollars* 522,096	*Dollars* 50,319,204	*Dollars* 52,143,363	*Percent* 33.9	*Dollars* 26.40	*Dollars* 23.35	*Dollars* 2,328,541	*Dollars* 7,822,140
Individual and partnership	6,238,533	6,212,642	25,891	5,997,741	240,792	7,585,504	15,543,287	-17.9	6.30	4.15	1,049	399,999
Cooperative, incorporated	7,245,601	4,421,100	2,824,501	7,156,251	89,350	8,466,936	6,692,877	38.9	12.41	15.94	57,870	92,120
Cooperative, unincorporated	4,514,497	4,513,047	1,450	4,391,948	122,549				21.14	2.03	6,306	21,200
Irrigation district	3,736,632	3,711,632	2,137,660	3,670,622	66,010	5,404,781	1,708,851	-30.9	44.87	42.69	74,252	114,800
Commercial	3,945,268	1,832,608		3,942,693	2,575	632,480	676,535	523.8	16.32		4,375	371,881
U. S. Bureau of Reclamation[6]	26,607,374	26,607,374	.....	26,607,374	.....	18,325,910	14,381,318	45.2	82.33	.....	1,066,144	1,314,731
U. S. Office of Indian Affairs	14,079,522	14,079,522	.....	14,078,707	815	9,589,693	8,193,390	46.8	58.38	.....	1,051,262	5,478,984
State	[2] 985,078	[2] 505,053	480,025	[2] 985,073	5	3,900	100	[3]	[2] 17.81	.....	67,283	28,425
City and/or sewage	[2]	[2]	.....	[2]	.....	.....	105,538	.....	[2]	.....	.....	.....
Other	.....	.....	.....	.....	.....	300,000	4,841,467	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "City and/or sewage" enterprise are included with "State" enterprises in the 1940 Census. [3] Percent not shown when more than 1,000. [4] For explanation of investment, see text, p. 317.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 103	*Acres* 1,441,464	*Acres* 1,261,979	*Dollars* 44,542,281	*Dollars* 52.72	*Dollars* 39.97	*Number* 27	*Dollars* 1,820,069	*Dollars* 1,853,066	*Dollars* 5.64	*Acres* 1,242,450	*Dollars* 1,150,790	*Dollars* 794,317
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38,299	13,046	2,464
Cooperative, incorporated	52	384,981	378,721	1,668,479	2.38	2.12	9	49,607	28,377	0.70	426,289	268,701	232,994
Cooperative, unincorporated	[6]4	[6]119,860	[6]119,860	[6]4,115,396	[6]42.52	[6]34.34	2	(7)	(7)	(7)	[6]182,186	[6]135,347	124,015
Irrigation district	18	81,917	74,117	1,515,852	21.33	20.45	2	(7)	(7)	(7)	80,668	119,505	129,699
Commercial	8	150,160	126,000	1,456,322	4.08	1.23	2	(7)	(7)	(7)	89,382	82,589	50,677
Bureau of Reclamation[8]	15	357,559	323,197	[9]21,024,089	86.15	65.05	11	[9]42,368	[9]71,439	0.22	241,848	322,635	147,427
Office of Indian Affairs[8]	6	346,987	240,084	[10]14,762,143	80.33	6.49	[11]1	[10]45,682	[10]42,320	33.81	183,778	208,967	107,041
State	(6)	(6)	(6)	(6)	(6)	(6)	.....	.....	.....	.....	(6)	(6)	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $15.98. [4] Based on primary enterprises only; State average for supplemental enterprises is $12.13. [5] Based on primary enterprises only; State average for supplemental enterprises is $1.33. [6] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [8] U. S. Dept. of the Interior. [9] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [10] Represents construction costs of irrigation works less cancellations and repayments. [11] Data for less than 3 enterprises shown with permission of the enterprises involved. [5] For explanation of areas and investment, see text, p. 317.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
Total	*Acres* 1,650,373	*Dollars* 1,180,189	*Acres* 168,762	*Dollars* 20,908	*Dollars* 0.72	*Dollars* 0.12	*Number* 248	*Dollars* 1,501,148	*Number* 1,904
Individual and partnership	779,184	329,322	5,403	1,672	0.42	0.31	24	4,137	35
Cooperative, incorporated	284,516	142,646	132,791	14,599	0.50	0.11	101	92,806	246
Cooperative, unincorporated	153,932	99,343	496	180	0.65	0.36	63	71,908	270
Irrigation district	70,697	64,846	30,072	4,457	0.92	0.12	24	33,457	70
Commercial	40,384	79,853			1.98	0.15	15	38,229	61
U. S. Bureau of Reclamation[2]	186,002	269,783	.....	.....	1.45	.....	15	773,413	767
U. S. Office of Indian Affairs	133,542	191,802	.....	.....	1.44	.....	6	487,198	455
State	2,116	2,594	.....	.....	1.23	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] For explanation of areas and investment, see text, p. 317.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 6,136	*Number* 468	*Sec.-ft.* 66,745	*Miles* 15,555	*Miles* 147.5	517	*Ac.-ft.* 1,301,422	*Miles* 148.1	44	*G.p.m.* 9,834	102	*G.p.m.* 33,883	651	*Hp.* 29,110	680	*G.p.m.* 1,309,014
Individual and partnership	5,818	297	37,355	8,331	79.7	331	45,058	83.1	43	9,804	100	32,883	576	8,399	601	666,476
Cooperative, incorporated	89	32	10,966	1,342	5.5	32	361,292	4.4	....	.....	2	1,000	7	140	7	10,075
Cooperative, unincorporated	111	5	4,772	1,076	10.5	8	147,759	7.1	....	.....	.....	.....	3	26	3	1,750
Irrigation district	15	11	1,847	484	5.9	11	14,217	6.7	....	.....	.....	.....	23	1,530	21	93,200
Commercial	16	14	2,450	245	7.0	14	109,145	2.3	1	30	.....	.....	10	3,870	16	96,000
Bureau of Reclamation[3]	21	10	6,167	1,806	17.2	10	405,190	39.8	....	.....	.....	.....	11	4,515	11	213,791
Office of Indian Affairs[3]	32	23	2,549	2,160	20.5	23	188,658	4.6	....	.....	.....	.....	18	10,540	18	224,622
State	[4]34	76	[4]639	111	1.2	88	30,103	0.1	....	.....	.....	.....	3	90	3	3,100
City and/or sewage	(4)	.....	(4)	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior. [4] Data for 1 "City and/or sewage" enterprise are included with "State" enterprises in the 1940 Census.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	6,136	468	2,856	326
Concrete or masonry	254	19	188	40
Timber	1,067	4	472	.....
Earth and rock	3,217	385	.....	176
Other and mixed	[1] 1,512	47	[1] 1,990	86
Not reported	86	13	206	24

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	680	100.0	1,309,014	100.0	21
Electric motor	**160**	**23.6**	**465,579**	**35.6**	**31**
Centrifugal	133	19.6	444,380	34.0	28
Turbine	8	1.2	8,862	0.7	64
Plunger	14	2.1	611	[1]	36
Other	5	0.7	11,726	0.9	31
Internal-combustion engine	**461**	**67.8**	**583,334**	**44.6**	**17**
Centrifugal	418	61.5	521,815	39.9	17
Turbine	17	2.5	27,522	2.1	18
Plunger	12	1.8	982	0.1	36
Other	14	2.0	33,015	2.5	16
Other kinds of motive power	**18**	**2.6**	**40,698**	**3.1**	**25**
Centrifugal	11	1.6	40,200	3.1	18
Turbine	.....	.....	.....	.....	.....
Plunger	5	0.7	248	[1]	34
Other	2	0.3	250	[1]	41
Mixed kinds of motive power	**41**	**6.0**	**219,403**	**16.7**	**29**
Centrifugal	33	4.9	186,475	14.2	26
Turbine	2	0.3	29,700	2.3	44
Plunger	3	0.4	28	[1]	66
Other	3	0.4	3,200	0.2	20
Total, 1930	233	.....	523,194	.....	22
Increase or decrease (-) 1930-1940	447	.....	785,820	.....	-1

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	651	100.0	29,110	100.0
Centrifugal pump	**555**	**85.3**	**17,952**	**61.7**
Electric	133	20.4	9,974	34.3
Internal-combustion	409	62.9	7,191	24.7
Other	13	2.0	787	2.7
Turbine pump	**19**	**2.9**	**349**	**1.2**
Electric	5	0.8	102	0.4
Internal-combustion	14	2.1	247	0.8
Other	.....	.....	.....	.....
Plunger pump	**34**	**5.2**	**96**	**0.3**
Electric	14	2.1	28	0.1
Internal-combustion	13	2.0	40	0.1
Other	7	1.1	28	0.1
Other and mixed types of pumps	**43**	**6.6**	**10,713**	**36.8**
Electric	13	2.0	9,309	31.9
Internal-combustion	24	3.7	745	2.6
Other	6	0.9	659	2.3
Total, 1930	[2] 198	.....	9,095	.....
Increase or decrease (-) 1930-1940	453	.....	20,015	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	148.1	64.9	128.2
Concrete:			
1 to 12 inches	1.8	0.2	800.0
13 to 24 inches	3.9	12.1	5.0
Over 24 inches	8.8		
Metal:			
1 to 12 inches	56.8	19.6	189.8
13 to 24 inches	12.9	8.0	173.8
Over 24 inches	9.0		
Wood-stave:			
1 to 12 inches	10.8	4.7	129.8
13 to 24 inches	6.2	11.1	37.8
Over 24 inches	9.1		
Clay and other:			
1 to 12 inches	0.9	0.7	28.6
13 to 24 inches	26.4	8.5	228.2
Over 24 inches	1.5		

[1] Includes siphons and farm pipe lines reported.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	199	184	276
Area irrigable in these enterprises.....acres...	822,140	840,007	[1] 751,274
Area irrigated in these enterprises.....acres...	473,604	[2]	[2]
Area for which drains have been installed...acres...	147,151	85,189	62,872
Additional area needing drainage.....acres...	52,071	59,995	50,901
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage...percent..	31.1	[3] 10.1	[1] 8.1
(b) All irrigation enterprises.....percent..	8.6	5.3	3.7
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	24.2	17.3	[1] 15.1
(b) Irrigated area reporting.....percent..	42.1	[2]	[2]

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,577,861	2,244,723	4,103,486	1,359,246	678,245	1,802,871	1,218,615	1,566,478	2,300,615
Area irrigated by these enterprises.....acres.....	760,345	516,637	745,925	411,749	212,746	424,712	348,596	303,891	321,213
Average water per acre irrigated.....acre-feet..	3.4	4.3	5.5	3.3	3.2	4.2	3.5	5.2	7.2
Total water delivered to irrigators.....acre-feet..	3,209,500	602,515	968,991	869,707	283,818	409,939	2,339,793	318,697	559,052
Area irrigated by these enterprises.....acres.....	1,522,132	349,323	290,884	453,025	172,770	181,430	1,069,107	176,553	109,454
Average water per acre irrigated.....acre-feet..	2.1	1.7	3.3	1.9	1.6	2.3	2.2	1.8	5.1
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	4,646	.....	.....	.....	.....	.....	4,646	.....	.....
Area irrigated by these enterprises.....acres.....	2,258	.....	.....	.....	.....	.....	2,258	.....	.....
Average water per acre irrigated.....acre-feet..	2.1	.....	.....	.....	.....	.....	2.1	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	249,475	.....	.....	249,095	.....	.....	380	.....	.....
Area irrigated by these enterprises.....acres.....	116,814	.....	.....	116,599	.....	.....	215	.....	.....
Average water per acre irrigated.....acre-feet..	2.1	.....	.....	2.1	.....	.....	1.8	.....	.....
Total water delivered to irrigators.....acre-feet..	155,540	.....	.....	144,399	.....	.....	11,141	.....	.....
Area irrigated by these enterprises.....acres.....	123,468	.....	.....	113,544	.....	.....	9,924	.....	.....
Average water per acre irrigated.....acre-feet..	1.3	.....	.....	1.3	.....	.....	1.1	.....	.....
From underground sources reported:									
Total water delivered to irrigated.....acre-feet..	3	.....	.....	.....	.....	.....	3	.....	.....
Area irrigated by these enterprises.....acres.....	1	.....	.....	.....	.....	.....	1	.....	.....
Average water per acre irrigated.....acre-feet..	3.0	.....	.....	.....	.....	.....	3.0	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	1,711,409	100.0	168,863	1,594,912	100.0	1,681,729	100.0
Appropriation[2]	1,293,069	75.6	125,534	696,590	43.7	901,692	53.6
Underground	1,565	0.1	57	1,064	0.1	482	(3)
Appropriation and underground	271	(3)	.....	.....	.....	.....	.....
Adjudicated by court	393,604	23.0	30,183	805,729	50.5	701,015	41.7
Other mixed and not reported	22,900	1.3	13,089	91,529	5.7	78,540	4.7

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," "Certificate or license from State," and "Riparian." [3] Less than one-tenth of 1 percent.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 186,002 acres irrigated in 1939 which were within the Bitter Root, Frenchtown, Huntley, Milk River, and Sun River Projects, and the area within Montana of the Lower Yellowstone Project (North Dakota) and a small area of the Shoshone (Wyoming) Project. The area in State table 7 includes that of the first or Glendive Division of the Buffalo Rapids Project, which began operating in 1940.

The investment attributed to the Bureau of Reclamation in State tables relates to the areas within Montana of these eight projects and reflects construction costs incurred by the United States for irrigation works and an investment totalling $1,429,456 of non-Federal funds by irrigation districts in facilities which are included in the Chinook Division of the Milk River Project. Costs of drainage systems on Bureau of Reclamation Projects are excluded from the totals in this census. Data are omitted relating to an extension of the first division of the Buffalo Rapids Project and a second division of this project, which were under construction in 1940.

Since the Irrigation Census of 1930, the Bureau of Reclamation, under congressional authorization, took over the Bitter Root Project, which had been constructed by private capital, and much of the system was rehabilitated. The Frenchtown Project was completed, new areas were brought in on the Sun River and Milk River Projects, and the construction of the Buffalo Rapids Project begun. The Buffalo Rapids Project was authorized in 1937 under the Emergency Relief Act of 1935 to provide employment in the Glendive area and provide family-size irrigated farms in an area where farming was unsuccessful without irrigation. The extension of the first division, and the second division of this project were authorized under the Water Conservation and Utilization Program which grew out of drought conditions in the Great Plains and areas to the westward.

Expansion of irrigation in eastern Montana and western North Dakota may follow the utilization of power produced at Fort Peck Dam, construction by the Corps of Engineers, United States Army, to provide low-cost electric energy for pumping projects along the Missouri River and its tributaries. Under the Fort Peck Power Act of 1938, the Bureau of Reclamation is the distributing agency for this power.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	Total	IRRIGATED FARMS: No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	5,501	99	4,618	465	241	58	19	[2] 1
2	Irrigated farms, 1939.....number...	17,094	.....	4,618	1,155	2,289	2,760	5,050	1,222
3	Area irrigated, 1939.....acres....	1,711,400	.....	667,794	137,556	273,542	221,279	334,992	76,246
4	(a) From which crops were harvested.....acres....	1,501,878	.....	570,682	117,419	238,092	202,546	312,887	60,252
5	(b) On which crops failed.....acres....	7,844	.....	2,508	1,324	834	2,562	164	452
6	(c) Irrigated pasture.....acres....	201,087	.....	94,604	18,813	34,616	16,171	21,941	15,542
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	61,882,978	2,765,763	5,161,520	1,210,246	3,904,574	11,446,828	29,377,622	8,016,425
8	(a) Cost of irrigation works and equipment.....dollars..	61,363,783	2,763,213	4,980,323	1,107,255	3,818,677	11,401,083	29,276,807	8,016,425
9	(b) Investment in water rights.....dollars..	519,195	2,550	181,197	102,991	85,897	45,745	100,815	.....
10	Area works were capable of supplying with water.....acres....	2,344,390	38,756	797,080	166,874	317,157	400,264	519,769	104,490
11	Average investment per acre irrigated.....dollars..	36.16	.....	7.73	8.80	14.27	51.73	87.70	105.14
12	Average investment per acre which the works could supply with water.....dollars..	26.40	71.36	6.48	7.25	12.31	28.60	56.52	76.72
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	4,818	21	4,071	428	225	54	18	[2] 1
14	(a) Area irrigated in these enterprises.....acres....	1,650,373	.....	627,291	130,745	265,557	215,542	334,992	76,246
15	(b) Cost of maintenance and operation.....dollars..	1,180,189	1,657	281,600	44,835	97,267	235,840	429,376	89,614
16	(c) Average cost per acre irrigated.....dollars..	0.72	.....	0.45	0.34	0.37	1.09	1.28	1.18
17	Total annual charges[3].....dollars..	1,057,500	500	108	183	123,984	310,116	501,601	121,008
18	Average charge per irrigated acre reporting.....dollars..	1.18	.....	1.33	0.21	0.47	1.40	1.50	1.59
19	Area against which charges were assessed.....acres....	1,065,494	4,000	86	860	282,885	248,610	423,829	105,224
20	Average annual charge per acre assessed.....dollars..	0.99	0.12	1.26	0.21	0.44	1.25	1.18	1.15
21	Total charges collected[3].....dollars..	729,103	.....	37	147	87,122	221,545	318,513	101,739
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[1].....number...	94	3	[2] 1	.....	32	40	17	1
23	(a) Area irrigated in these enterprises.....acres....	641,746	.....	81	.....	64,350	169,177	331,892	76,246
24	(b) Indebtedness.....dollars..	41,968,921	242,323	4,759	.....	748,005	5,851,508	26,190,845	8,931,481
25	(c) Average indebtedness per acre irrigated.....dollars..	65.40	.....	58.75	.....	11.62	34.59	78.91	117.14
26	(d) Cost of irrigation works and equipment.....dollars..	51,092,213	1,722,013	6,861	.....	1,593,987	10,539,130	29,213,797	8,016,425
27	(e) Investment in water rights.....dollars..	187,305	.....	.....	.....	43,810	42,680	100,815	.....
28	(f) Total investment.....dollars..	51,279,518	1,722,013	6,861	.....	1,637,797	10,581,810	29,314,612	8,016,425
29	(g) Maintenance and operation.....dollars..	714,838	.....	84	.....	28,689	171,875	424,576	89,614
30	(h) Total annual charges[3].....dollars..	942,262	.....	108	.....	53,114	271,391	496,641	121,008
31	(i) Total charges collected[3].....dollars..	656,750	.....	37	.....	37,678	203,743	313,553	101,739
32	(j) Area against which annual charges were assessed...acres....	791,462	.....	86	.....	72,999	192,424	420,729	105,224
33	(k) Average indebtedness per acre assessed.....dollars..	52.72	.....	55.34	.....	10.25	30.41	62.25	84.88
34	(l) Average charges per acre assessed.....dollars..	1.19	.....	1.26	.....	0.73	1.41	1.18	1.15
35	(m) Average charges per acre irrigated.....dollars..	1.47	.....	1.33	.....	0.83	1.60	1.50	1.59
36	Enterprises reporting arrearage[4].....number...	24	.....	[2] 1	.....	7	8	8	.....
37	(a) Area assessed in these enterprises.....acres....	314,973	.....	86	.....	9,810	47,183	257,894	.....
38	(b) Total arrearage.....dollars..	1,777,398	.....	149	.....	462,444	55,588	1,259,217	.....
39	(c) Average arrearage per acre assessed.....dollars..	5.64	.....	1.73	.....	47.14	1.18	4.88	.....
40	(d) Indebtedness.....dollars..	24,353,535	.....	4,759	.....	622,478	2,960,770	20,765,528	.....
	TYPE, 1940								
41	Individual and partnership.....number...	5,089	41	4,547	446	55	.....	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	242	4	20	14	167	31	6	.....
43	Irrigation district.....number...	25	2	.....	.....	9	12	2	.....
44	Commercial.....number...	15	1	.....	.....	9	4	1	.....
45	U. S. Bureau of Reclamation.....number...	18	1	1	.....	1	7	8	.....
46	U. S. Office of Indian Affairs.....number...	8	.....	1	1	.....	3	2	1
47	All other.....number...	104	50	49	4	.....	1	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	235	2	[2] 1	2	156	55	18	1
49	Wages and salaries paid and payable for 1939.....dollars..	1,487,290	([5])	42	([5])	54,505	214,651	381,407	266,035
50	Persons employed during week ending April 29, 1939.....number...	1,893	([5])	.....	([5])	325	279	621	205
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	4,427	77	3,613	437	234	49	17	.....
52	Streams, pumped.....number...	381	17	348	11	1	4	.....	.....
53	Wells, pumped.....number...	62	1	58	3	.....	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	24	.....	24	.....	.....	.....	.....	.....
55	Lakes, gravity or pumped.....number...	47	1	42	1	1	2	.....	.....
56	Streams and springs; or springs.....number...	368	1	357	9	1	.....	.....	.....
57	Mixed, streams and wells.....number...	70	2	59	2	1	3	2	1
58	Other mixed or stored storm water.....number...	122	.....	117	2	3	.....	.....	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	Total	IRRIGATED FARMS: No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	54	1	33	2	7	7	4	.....
2	Irrigated farms, 1939.....number...	1,219	.....	33	109		425	652	.....
3	Area irrigated, 1939.....acres....	168,863	.....	2,411	10,756		93,064	62,632	.....
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	5,469,527	503,099		114,767		1,426,857	3,424,804	.....
5	(a) Cost of irrigation works and equipment.....dollars..	5,466,626	502,615		112,850		1,426,357	3,424,804	.....
6	(b) Investment in water rights.....dollars..	2,901	.....	484	1,917		500	.....	.....
7	Area works were capable of supplying with water.....acres....	234,269	.....	3,205	16,126		111,895	103,043	.....
8	Average investment per acre irrigated.....dollars..	32.39	.....	9.57	10.67		15.33	54.68	.....
9	Average investment per acre which the works could supply with water.....dollars..	23.35	.....	7.20	7.12		12.75	33.24	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
99	3,179	1,268	819	113	22	[2]1	5,053	275	113	51	9	1
.....	3,374	1,702	3,091	2,971	4,734	1,222	6,452	1,388	2,035	3,399	3,820	2
.....	113,979	208,291	524,275	391,713	396,905	76,246	732,903	191,242	211,484	303,485	272,295	3
.....	99,418	177,023	459,088	351,988	354,109	60,252	633,090	169,324	187,234	263,980	248,250	4
.....	1,294	1,043	2,286	1,624	1,145	452	3,371	427	1,137	2,368	521	5
.....	13,267	30,225	62,901	38,101	41,651	15,542	96,442	21,491	23,113	37,117	23,524	6
2,765,763	1,749,738	1,630,444	6,331,452	10,905,996	30,483,160	8,016,425	3,560,515	2,107,713	3,718,816	20,006,049	32,489,885	7
2,763,213	1,690,199	1,543,683	6,219,277	10,753,141	30,377,845	8,016,425	3,376,821	1,987,067	3,620,426	19,939,584	32,439,885	8
2,550	59,539	86,761	112,175	152,855	105,315	.....	183,694	120,646	98,390	66,465	50,000	9
38,756	172,208	251,008	623,289	548,330	606,309	104,490	877,536	218,798	311,088	483,850	453,118	10
.....	15.35	7.83	12.08	27.84	76.80	105.14	4.86	11.02	17.58	65.92	119.32	11
71.36	10.16	6.50	10.16	19.89	50.28	76.72	4.06	9.63	11.95	41.35	71.70	12
21	2,737	1,159	769	110	21	[2]1	4,396	260	109	45	8	13
.....	100,648	190,814	499,047	386,713	396,905	76,246	683,942	185,187	210,464	298,485	272,295	14
1,657	107,893	92,418	193,089	257,951	437,567	89,614	269,497	80,085	115,887	345,176	369,544	15
.....	1.07	0.48	0.39	0.67	1.10	1.18	0.39	0.43	0.55	1.16	1.36	16
500	866	2,659	93,854	334,628	503,985	121,008	17,427	46,325	126,156	432,474	435,118	17
.....	1.61	0.56	0.59	1.21	1.32	1.59	0.22	0.55	0.67	1.58	1.60	18
4,000	716	5,451	168,824	313,800	467,479	105,224	80,995	88,589	197,794	314,283	383,533	19
0.12	1.21	0.49	0.56	1.07	1.08	1.15	0.22	0.52	0.64	1.38	1.13	20
.....	342	1,044	76,093	241,519	308,366	101,739	9,657	20,278	119,108	316,904	263,156	21
3	[2]1	.....	27	44	18	[2]1	2	13	35	36	8	22
.....	81	.....	28,718	173,196	363,505	76,246	19,058		96,731	253,662	272,295	23
242,323	4,759	.....	2,050,667	4,116,401	26,623,070	8,931,481	28,643		234,698	9,144,981	32,500,399	24
.....	58.75	.....	71.41	23.77	73.24	117.14	1.50		2.43	36.05	119.58	25
1,722,013	6,861	.....	2,487,991	8,777,888	30,081,035	8,016,425	126,341		1,353,068	17,172,929	32,439,875	26
.....	.....	.....	10,035	76,455	100,815	.....	.....		71,990	65,315	50,000	27
1,722,013	6,861	.....	2,498,026	8,854,343	30,181,850	8,016,425	126,341		1,425,058	17,238,244	32,489,875	28
.....	84	.....	32,490	158,020	434,630	89,614	9,118		54,397	281,779	369,544	29
.....	108	.....	38,945	280,397	501,804	121,008	20,778		77,686	409,280	435,118	30
.....	37	.....	32,052	217,211	305,711	101,739	9,894		74,687	309,013	263,156	31
.....	86	.....	32,015	205,058	449,079	105,224	20,788		101,541	285,600	383,533	32
.....	55.34	.....	64.06	20.07	59.28	84.88	1.38		2.17	31.22	84.90	33
.....	1.26	.....	1.22	1.37	1.12	1.15	1.00		0.76	1.43	1.13	34
.....	1.33	.....	1.36	1.62	1.38	1.59	1.09		0.80	1.61	1.60	35
.....	[2]1	.....	7	8	8	.....	4		3	12	5	36
.....	86	.....	7,801	52,127	254,959	.....	2,381		5,655	110,314	196,623	37
.....	149	.....	507,774	9,745	1,259,727	.....	936		9,805	646,764	1,119,893	38
.....	1.73	.....	65.09	0.19	4.94	.....	0.39		1.73	5.86	5.70	39
.....	4,759	.....	1,917,895	2,737,257	19,693,624	.....	10,546		33,805	5,035,578	19,273,605	40
41	3,112	1,242	655	38	1	.....	4,857	197	30	5	.....	41
4	23	18	137	53	7	.....	97	65	54	15	1	42
2	.....	.....	13	8	2	.....	1	4	11	9	.....	43
1	.....	.....	8	5	1	.....	1	2	7	5	.....	44
1	1	.....	.....	8	8	.....	.....	1	.....	11	6	45
.....	1	.....	3	.....	3	1	1	.....	.....	5	2	46
50	42	8	3	1	.....	.....	96	6	1	1	.....	47
2	5	15	127	65	20	[2]1	61	54	73	39	8	48
570,864		1,204	111,843	118,435	418,909	266,035	8,410	18,692	62,084	841,828	556,276	49
478		13	332	222	643	205	121	113	188	856	615	50
77	2,301	1,144	782	104	19	.....	4,027	250	103	40	7	51
17	313	38	9	3	1	.....	363	10	5	3	.....	52
1	60	1	.....	.....	.....	.....	62	.....	.....	.....	.....	53
.....	24	.....	.....	.....	.....	.....	24	.....	.....	.....	.....	54
1	38	5	2	1	.....	.....	43	2	.....	2	.....	55
1	316	39	9	3	.....	.....	362	5	1	.....	.....	56
2	36	19	9	1	2	1	58	2	3	5	2	57
.....	91	22	8	1	.....	.....	114	6	1	1	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
1	25	11	3	7	7	.....	38	2	5	9	.....	1
.....	26	26	39	232	896	.....	96	193		930	.....	2
.....	921	2,055	1,734	20,927	143,226	.....	6,395	12,242		150,226	.....	3
497,866		14,350	50,174	396,628	4,510,509	.....	32,365	185,244		5,251,918	.....	4
497,325		12,640	50,024	396,128	4,510,509	.....	31,564	183,144		5,251,918	.....	5
.....	541	1,710	150	500	.....	.....	801	2,100		.....	.....	6
.....	1,383	3,452	2,734	28,232	198,468	.....	7,349	17,452		209,468	.....	7
.....	19.37	6.98	28.94	18.95	31.49	.....	5.06	15.13		34.96	.....	8
.....	12.90	4.16	18.35	14.05	22.73	.....	4.40	10.61		25.07	.....	9

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	49	.....	29	2	7	7	4	.....
11	(a) Area irrigated in these enterprises.....acres....	168,762	.....	2,310	10,756		93,064	62,632	.....
12	(b) Cost of maintenance and operation.....dollars..	20,908	.....	1,195	2,316		10,537	6,860	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	0.12	.....	0.52	0.22		0.11	0.11	.....
14	Total annual charges[2].....dollars..	93,290	.....	.....	.....	2,595	31,655	59,040	.....
15	Average charge per acre irrigated.....dollars..	0.65	.....	.....	.....	0.25	0.34	1.47	.....
16	Area against which charges were assessed.....acres....	176,956	.....	.....	.....	14,692	93,264	69,000	.....
17	Average annual charge per acre assessed.....dollars..	0.53	.....	.....	.....	0.18	0.34	0.86	.....
18	Total charges collected[2].....dollars..	65,214	.....	.....	.....	771	35,635	28,808	.....
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[3].....number...	9	.....	.....	.....	.....	5	4	.....
20	(a) Area irrigated in these enterprises.....acres....	152,826	.....	.....	.....	.....	90,194	62,632	.....
21	(b) Indebtedness.....dollars..	2,573,360	.....	.....	.....	.....	687,852	1,885,508	.....
22	(c) Average indebtedness per acre irrigated.....dollars..	16.84	.....	.....	.....	.....	7.63	30.10	.....
23	(d) Cost of irrigation works and equipment.....dollars..	4,832,637	.....	.....	.....	.....	1,407,833	3,424,804	.....
24	(e) Investment in water rights.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
25	(f) Total investment.....dollars..	4,832,637	.....	.....	.....	.....	1,407,833	3,424,804	.....
26	(g) Maintenance and operation.....dollars..	17,257	.....	.....	.....	.....	10,397	6,860	.....
27	(h) Total annual charges[2].....dollars..	90,200	.....	.....	.....	.....	31,160	59,040	.....
28	(i) Total charges collected[2].....dollars..	63,971	.....	.....	.....	.....	35,163	28,808	.....
29	(j) Area against which annual charges were assessed...acres....	159,394	.....	.....	.....	.....	90,394	69,000	.....
30	(k) Average indebtedness per acre assessed.....dollars..	15.98	.....	.....	.....	.....	7.61	26.93	.....
31	(l) Average charges per acre assessed.....dollars..	0.57	.....	.....	.....	.....	0.34	0.86	.....
32	(m) Average charges per acre irrigated.....dollars..	0.69	.....	.....	.....	.....	0.35	1.47	.....
33	Enterprises reporting arrearage[3].....number...	3	.....	.....	.....	.....	1	2	.....
34	(a) Area assessed in these enterprises.....acres....	32,200	.....	.....	.....	.....	32,200		.....
35	(b) Total arrearage.....dollars..	42,671	.....	.....	.....	.....	42,671		.....
36	(c) Average arrearage per acre assessed.....dollars..	1.33	.....	.....	.....	.....	1.33		.....
37	(d) Indebtedness.....dollars..	676,729	.....	.....	.....	.....	676,729		.....
	TYPE, 1940								
38	Individual and partnership.....number...	34	.....	31	2	1	.....	.....	.....
39	Cooperative (incorporated and unincorporated).....number...	16	.....	2	.....	5	7	2	.....
40	Irrigation district.....number...	1	.....	.....	.....	1	.....	.....	.....
41	Commercial.....number...	2	.....	.....	.....	.....	.....	2	.....
42	All other.....number...	1	1	.....	.....	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
43	Enterprises reporting pay roll.....number...	13	.....	.....	.....	4	5	4	.....
44	Wages and salaries paid and payable for 1939.....dollars..	13,858	.....	.....	.....	1,256	5,866	6,736	.....
45	Persons employed during week ending April 29, 1939.....number...	11	.....	.....	.....	1	6	4	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939								
46	Streams, pumped.....number...	8	.....	8	.....	.....	.....	.....	.....
47	Wells, pumped or flowing.....number...	2	.....	2	.....	.....	.....	.....	.....
48	Streams, gravity or storage.....number...	44	1	23	2	7	7	4	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July.-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Missouri River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Lima	Beaverhead	6,265	13.63	+4.30	4.61	+3.05	1.07	+0.05	4.26	+0.17	3.69	+1.03	41.7	+2.7
Dillon	Beaverhead	5,228	12.67	-4.70	4.31	+1.65	0.89	-2.23	5.05	-2.25	2.42	-1.87	44.8	+0.7
Cut Bank	Glacier	3,762	7.96	-3.23	1.19	+0.03	0.72	-0.23	4.37	-0.76	1.68	-2.27	45.1	+4.3
Choteau	Teton	3,810	8.20	-4.39	1.04	-0.59	0.32	-1.30	5.00	-0.60	1.84	-1.90	46.2	+3.9
Helena	Lewis and Clark	4,090	10.71	-2.92	2.75	+0.34	1.37	-0.94	4.78	-0.97	1.81	-1.35	46.5	+3.2
Great Falls	Cascade	3,654	10.11	-5.69	1.89	-0.44	0.86	-1.25	4.81	-2.07	2.55	-1.93	48.5	+2.8
Agricultural College	Gallatin	4,900	16.94	-0.75	5.13	+1.70	2.28	-0.59	6.61	-0.50	2.92	-1.36	44.4	+2.6
Livingston	Park	4,485	11.22	-2.93	3.55	+0.93	0.98	-0.98	4.04	-1.67	2.65	-1.21	48.2	+2.3
Stanford	Judith Basin	4,229	14.65	+0.24	3.32	+1.14	1.26	-0.51	7.44	+1.39	2.63	-1.78	45.0	+1.7
Havre	Hill	2,488	11.19	-2.71	3.19	+1.30	1.07	-0.67	5.24	-0.65	1.69	-2.69	46.1	+4.5
Red Lodge	Carbon	5,254	18.43	-0.53	3.26	+0.01	2.59	-0.24	9.32	+0.89	3.26	-1.19	43.2	+3.1
Roundup	Musselshell	3,246	17.17	+4.68	3.13	+0.93	1.15	-0.38	9.85	+4.32	3.04	-0.19	48.8	+2.8
Billings	Yellowstone	3,570	15.88	+2.70	2.96	+0.69	1.67	-0.15	9.88	+4.28	1.37	-2.12	48.9	+2.4
Malta	Phillips	2,255	17.68	+3.72	4.40	+2.83	1.59	+0.02	9.61	+3.16	2.08	-2.29	44.0	+2.0
Jordan	Garfield	2,674	9.99	-1.55	2.30	+0.80	0.63	-1.08	6.58	+1.48	0.48	-2.75	47.2	+3.8
Frazer	Valley	2,068	15.81	+1.87	2.60	+0.80	0.87	-1.44	9.82	+3.85	2.52	-1.34	42.8	+2.9
Miles City	Custer	2,351	11.05	-2.74	1.65	-0.45	0.87	-1.14	6.40	+0.38	2.13	-1.53	48.1	+3.8
Outlook	Sheridan	2,342	14.30	+0.76	2.49	+1.21	0.79	-0.51	8.16	+2.63	2.86	-2.57	39.8	+1.5
Glendive	Dawson	2,090	11.89	-2.82	1.81	-0.02	1.34	-0.34	6.08	-0.41	2.66	-2.05	46.8	+2.8
Ekalaka	Carter	3,200	13.25	-0.44	0.85	-0.56	0.64	-0.79	6.88	+0.72	4.88	+0.19	45.8	+1.6
Clark Fork														
Missoula	Missoula	3,200	11.43	-3.16	1.81	-1.74	2.87	+0.10	5.28	+0.36	1.47	-1.88	48.5	+4.0
Hamilton	Ravalli	3,529	10.72	-0.30	3.27	+0.88	1.74	-0.48	3.81	-0.09	1.90	-0.61	48.5	+2.3
Kalispell	Flathead	2,956	13.24	-1.78	3.20	-0.66	3.04	-0.59	5.45	+1.13	1.55	-1.66	45.4	+2.9
Thompson Falls	Sanders	2,435	14.40	-7.98	5.44	-1.31	4.89	-1.26	2.70	-3.20	1.37	-2.21	49.3	+3.9
Kootenai River														
Libby	Lincoln	2,150	12.02	-7.20	4.64	1.92	3.76	-1.58	2.81	-1.18	0.81	-2.52	[2]	[2]

[1] Departure from normal.
[2] Not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940–Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	21	11	3	7	7	.....	34	2	5	8	.....	10
.....	820	2,055	1,734	20,927	143,226	.....	6,294	12,242		150,226	.....	11
.....	811	846	303	3,711	15,237	.....	1,972	2,979		15,957	.....	12
.....	0.99	0.41	0.17	0.18	0.11	.....	0.31	0.24		0.11	.....	13
.....	.....	410	570	12,170	80,140	.....	1,416	4,534		87,340	.....	14
.....	.....	0.83	0.42	0.58	0.66	.....	0.40	0.37		0.68	.....	15
.....	.....	1,560	1,370	24,432	149,594	.....	3,710	16,452		156,794	.....	16
.....	.....	0.26	0.42	0.50	0.54	.....	0.38	0.28		0.56	.....	17
.....	.....	331	552	10,220	54,111	.....	352	3,751		61,111	.....	18
.....	.....	.....	.....	2	7	.....	.....	.....	1	8	.....	19
.....	.....	.....	.....	152,826		.....	.....	.....	152,826		.....	20
.....	.....	.....	.....	2,573,360		.....	.....	.....	2,573,360		.....	21
.....	.....	.....	.....	16.84		.....	.....	.....	16.84		.....	22
.....	.....	.....	.....	4,832,637		.....	.....	.....	4,832,637		.....	23
.....	.....	.....	.....	.....		.....	.....	.....	.....		.....	24
.....	.....	.....	.....	4,832,637		.....	.....	.....	4,832,637		.....	25
.....	.....	.....	.....	17,257		.....	.....	.....	17,257		.....	26
.....	.....	.....	.....	90,200		.....	.....	.....	90,200		.....	27
.....	.....	.....	.....	63,971		.....	.....	.....	63,971		.....	28
.....	.....	.....	.....	159,394		.....	.....	.....	159,394		.....	29
.....	.....	.....	.....	15.98		.....	.....	.....	15.98		.....	30
.....	.....	.....	.....	0.57		.....	.....	.....	0.57		.....	31
.....	.....	.....	.....	0.69		.....	.....	.....	0.69		.....	32
.....	.....	.....	.....	1	2	.....	.....	.....	.....	3	.....	33
.....	.....	.....	.....	32,200		.....	.....	.....	.....	32,200	.....	34
.....	.....	.....	.....	42,671		.....	.....	.....	.....	42,671	.....	35
.....	.....	.....	.....	1.33		.....	.....	.....	.....	1.33	.....	36
.....	.....	.....	.....	676,729		.....	.....	.....	.....	676,729	.....	37
.....	24	8	1	1	.....	.....	34	.....	.....	.....	.....	38
.....	1	3	2	5	5	.....	4	2	4	6	.....	39
.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	40
.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2	.....	41
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	42
.....	.....	1	.....	5	7	.....	1	2	2	8	.....	45
.....	.....	(4)	.....	[4] 1,876	11,982	.....	1,376			12,482	.....	46
.....	.....	.....	.....	2	9	.....	1			10	.....	47
.....	8	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	46
.....	2	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	47
1	15	11	3	7	7	.....	28	2	5	9	.....	48

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for 1 enterprise from the "100 to 299 acres" group are included with the "1,800 to 7,499 acres" group.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

The average precipitation in Montana for the calendar year 1938 was 1.51 inches above normal and for the calendar year 1939 was 2.40 inches below, or 84 percent of a normal of 15.23 inches, as reported by the U. S. Weather Bureau. The average precipitation for the water year (October 1938 through September 1939) for the 25 typical stations tabulated above was 12.98 inches, showing an average departure of -1.50 inches for the water year at these stations. A deficiency for the calendar year 1939 of slightly more than three inches occurred in both the western and central divisions, and slightly more than one inch in the eastern division. All months were drier than normal with the exception of February, June, and December. June was abnormally wet, particularly in the eastern division, where it was the wettest of record. November was the driest of record.

The greatest 1939 precipitation was 25.88 inches at Trout Creek (near); the least was 6.13 inches at Lonepine. The greatest monthly amount, 7.07 inches, occurred at Billings No. 2 Station in June; the least monthly amount was none at 17 stations during November.

The trend to warmer and drier weather that has been characteristic of average conditions in Montana during the last decade continued in 1939. The year was the third warmest of record since 1895, the warmest year occurring in 1934 and the next warmest in 1931. The average temperature was above the normal for all months except February and June. January was exceptionally mild as were also November and December. Monthly record high temperatures were exceeded at many stations during the last parts of March and April and the first part of December. A new extreme high of 97° for the State for April was recorded at Winifred on the 29th of the month. February was unusually cold with two severe blizzards. No killing frosts of importance occurred after May 12 and before September 25. The average length of the frost-free season west of the Continental Divide was 129 days; central division, 135 days; and eastern division, 144 days. The fall season, September to November, inclusive, shared with 1922 the distinction of the second warmest fall of record.

Winter grain and perennial grass crops survived the winter of 1938-39 in good shape. Winter wheat matured satisfactorily but dryland spring grains were injured to considerable extent as a result of midsummer heat and drought despite excellent moisture conditions during June. Grasshoppers again caused much damage to grain crops and range grasses in the eastern part of the State. Farm operations got off to a good start and progressed satisfactorily throughout the year except as rains interfered with shearing and haying in May and June, and as drought conditions hindered plowing and seeding in the fall.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER	
			Total	Direct[1] (1)
	IRRIGATED FARMS AND AREAS			
1	Irrigated farms....1939...number....	17,094	11,970	751
2	Area irrigated....1939...acres....	1,711,409	1,369,536	73,035
3	(a) Cropland harvested....1939...acres....	1,501,878	1,221,347	68,007
4	(b) Crop failure....1939...acres....	7,344	6,048	511
5	(c) Pasture....1939...acres....	201,687	142,141	4,517
6	Area irrigated....1929...acres....	1,594,912	1,324,486	17,069
7	1919...acres....	1,681,729	1,389,763	15,635
8	Increase or decrease (-), 1929-1939....percent....	7.3	3.4	327.9
9	Irrigable area in enterprises....1940...acres....	2,588,214	2,132,881	155,579
10	1930...acres....	2,622,423	2,188,247	19,924
11	1920[2]...acres....	4,329,148	3,713,068	34,194
12	Excess of irrigable area over the area irrigated..1940...acres....	876,805	763,345	82,544
13	1930...acres....	1,027,511	863,761	2,855
14	1920[2]...acres....	2,647,419	2,323,305	18,559
15	Area works were capable of supplying with water...1940...acres....	2,344,390	1,939,940	111,831
16	1930...acres....	2,276,000	1,871,958	18,234
17	1920...acres....	2,753,498	2,299,910	28,174
18	Increase or decrease (-), 1930-1940....percent....	3.0	3.6	513.3
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	632,981	570,404	38,796
20	1930...acres....	681,088	547,472	1,165
21	1920...acres....	1,071,769	910,147	12,539
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	73.0	70.6	65.3
23	1929...percent....	70.1	70.8	93.6
24	1919...percent....	61.1	60.4	55.5
	CAPITAL INVESTED TO JANUARY 1			
25	Total investment in irrigation enterprises....1940...dollars....	67,352,505	53,905,460	2,804,932
26	(a) Cost of irrigation works and equipment....1940...dollars....	66,830,409	53,483,944	2,791,669
27	(b) Investment in water rights (reported)....1940...dollars....	522,096	421,516	13,263
28	Total investment in irrigation enterprises....1930...dollars....	50,319,204	41,092,294	288,910
29	1920...dollars....	52,143,363	43,507,296	440,345
30	Increase or decrease (-), 1930-1940....percent....	33.9	31.2	870.9
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	28.73	27.79	25.08
32	1930...dollars....	22.11	21.95	15.84
33	1920...dollars....	18.94	18.92	15.63
34	Average investment per acre irrigated....1939...dollars....	39.36	39.36	38.41
35	Estimated final investment in existing enterprises..1940...dollars....	75,174,645	60,540,833	3,637,019
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	29.04	28.38	23.38
	MAINTENANCE AND OPERATION, CHARGES[4] AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	4,823 / 49	3,244 / 37	473 / 2
38	Area irrigated in these enterprises....1939...acres....	1,650,373 / 168,762	1,324,720 / 149,301	70,138 / (3)
39	Cost of maintenance and operation....1939...dollars....	1,180,189 / 20,908	932,199 / 17,209	89,654 / (3)
40	Average cost, per acre irrigated....1939...dollars....	0.72 / 0.12	0.70 / 0.12	1.28 / (3)
41	Total annual charges (reported)[4 5]....1939...dollars....	1,057,500 / 93,290	817,150 / 66,896	18,427 / .....
42	Average annual charge per acre irrigated....1939...dollars....	1.18 / 0.65	1.12 / 0.54	0.77 / .....
43	Area against which charges were assessed....1939...acres....	1,065,494 / 176,956	863,777 / 140,454	27,335 / .....
44	Average annual charge per acre assessed....1939...dollars....	0.99 / 0.53	0.95 / 0.48	0.67 / .....
45	Total charges collected[4]....1939...dollars....	729,103 / 65,214	567,666 / 52,192	7,355 / .....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	41,968,921 / 2,573,360	30,971,749 / 2,074,852	1,433,333 / .....
	WATER DELIVERED TO IRRIGATORS, 1939			
47	Enterprises reporting water delivered....1939...number....	4,931 / 44	3,236 / 32	508 / 2
48	Area irrigated by these enterprises....1939...acres....	1,524,390 / 123,469	1,194,552 / 106,075	70,357 / (3)
49	Water delivered....1939...acre-feet..	3,214,146 / 155,543	2,347,100 / 136,702	156,282 / (3)
50	Average water delivered per acre irrigated....1939...acre-feet..	2.1 / 1.3	2.0 / 1.3	2.2 / (3)
51	Average cost of water per acre irrigated....1939...dollars....	0.84 / 0.70	0.82 / 0.57	0.67 / (3)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.40 / 0.56	0.41 / 0.44	0.30 / (3)
	DRAINAGE OF IRRIGATED LAND			
53	Enterprises reporting land drained or needing drainage....1939...number....	199 /	152 /	18 / .....
54	Irrigable area in these enterprises....1939...acres....	822,140 /	673,790 /	8,861 / .....
55	Irrigated area in these enterprises....1939...acres....	473,604 /	386,317 /	5,236 / .....
56	Area for which drains have been installed....1939...acres....	147,151 /	144,517 /	698 / .....
57	Additional area needing drainage....1939...acres....	52,071 /	49,307 /	1,258 / .....

[1] Data for 2 enterprises in Dog Creek Drainage Basin (17) (number refers to separate map) are included with Missouri River "Direct" Drainage Basin (1).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

MISSOURI RIVER—Continued													
Jefferson River													
Total		Direct (2)		Beaverhead River					Big Hole River (6)	Boulder River (7)			
				Total		Direct (3)		Blacktail Deer Creek (4)	Ruby River (5)				
2,206		343		523		305		5	213		293	136		1
431,027		35,079		143,159		111,515		3,074	28,570		124,532	15,974		2
383,850		32,111		123,146		95,595		3,037	24,414		118,152	14,534		3
237		22		109		14		.....	95		20	86		4
46,940		2,946		19,904		15,806		37	4,061		6,760	1,354		5
363,380		16,393		131,354		.....		.....	31,071		146,736	.....		6
425,685		21,276		145,673		.....		.....	34,474		184,355	.....		7
18.6		114.0		9.0		.....		.....	-8.0		-14.9	.....		8
510,750		47,716		169,939		133,924		3,093	32,922		127,910	22,791		9
476,421		19,882		155,916		.....		.....	36,901		166,846	.....		10
831,898		40,347		296,079		.....		.....	76,107		306,885	.....		11
79,723		12,637		26,780		22,409		19	4,352		2,978	6,817		12
113,041		3,489		24,562		.....		.....	5,830		20,110	.....		13
406,213		19,071		150,406		.....		.....	41,633		122,230	.....		14
498,857		17,410		163,988		128,939		3,093	31,956		127,550	18,355		15
403,325		18,940		142,333		.....		.....	33,526		162,503	.....		16
574,672		34,894		199,797		.....		.....	48,036		227,920	.....		17
23.7		150.3		15.2		.....		.....	-4.7		-21.5	.....		18
67,830		12,331		20,829		17,424		19	3,386		2,618	2,381		19
39,945		2,547		10,979		.....		.....	2,455		15,767	.....		20
148,987		13,618		54,124		.....		.....	13,562		43,265	.....		21
86.4		74.0		87.3		86.5		99.4	89.4		97.3	87.0		22
90.1		86.6		92.3		.....		.....	92.7		90.3	.....		23
74.1		61.0		72.9		.....		.....	71.8		81.0	.....		24
4,509,720		648,702		1,643,102		709,421		52,200	881,481		391,647	429,217		25
4,430,707		640,379		1,593,273		674,408		52,200	865,365		381,780	423,600		26
79,013		8,323		49,829		35,013		.....	14,816		9,867	5,617		27
2,417,277		125,116		987,324		.....		.....	212,595		699,070	.....		28
5,370,454		587,388		1,723,746		.....		.....	559,000		1,669,767	.....		29
86.6		418.5		66.4		.....		.....	314.6		-44.0	.....		30
9.04		13.68		10.02		5.50		16.88	27.58		3.07	23.38		31
5.99		6.61		6.94		.....		.....	6.34		4.30	.....		32
9.35		16.83		8.63		.....		.....	11.64		7.33	.....		33
10.46		18.49		11.48		6.36		16.98	30.85		3.13	26.87		34
4,568,705		650,952		1,661,812		727,481		52,200	882,131		407,002	446,267		35
8.95		13.64		9.78		5.43		16.88	26.79		3.18	19.58		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.	
979	17	140	4	324	6	187	5	4	133	1	203	75	2	37
412,130	87,857	34,887	7,811	133,182	74,420	104,964	61,406	2,957	25,261	(3)	123,096	15,797	(3)	38
127,121	9,726	14,147	1,335	52,711	7,409	33,277	5,809	470	18,964	(3)	17,836	9,081	(3)	39
0.31	0.11	0.41	0.17	0.40	0.10	0.32	0.09	0.16	0.75	(3)	0.14	0.57	(3)	40
55,850	22,546	8,188	10,800	7,473	10,500	4,835	8,900	.....	2,638	1,600	2,520	2,378	.....	41
0.41	0.26	0.39	1.42	0.42	0.14	0.39	0.15	.....	0.51	0.12	0.18	0.78	.....	42
145,074	86,654	21,338	7,580	18,432	74,014	13,240	61,000	.....	5,192	13,014	14,906	7,440	.....	43
0.38	0.26	0.38	1.42	0.41	0.14	0.37	0.15	.....	0.51	0.12	0.17	0.32	.....	44
46,584	25,503	5,708	7,366	5,251	18,137	3,472	8,989	.....	1,779	9,148	2,320	1,486	.....	45
26,040	495,047	.....	154,657	295	340,390	295	125,390	.....	.....	215,000	.....	.....	.....	46
967	16	120	5	339	6	196	5	5	138	1	210	77	2	47
377,467	82,972	28,723	7,826	124,572	74,420	95,914	61,406	3,074	25,584	(3)	119,995	15,691	(3)	48
941,174	112,307	74,090	6,286	350,739	104,850	265,898	97,475	14,340	70,501	(3)	301,501	30,299	(3)	49
2.5	1.4	2.6	0.8	2.8	1.4	2.8	1.6	4.7	2.8	(3)	2.5	1.9	(3)	50
0.34	0.26	0.36	1.39	0.42	0.14	0.34	0.15	0.16	0.75	(3)	0.15	0.55	(3)	51
0.14	0.19	0.14	1.73	0.15	0.10	0.12	0.09	0.03	0.27	(3)	0.06	0.29	(3)	52
28	.....	16	.....	2	.....	.....	.....	.....	2	.....	1	.....	.....	53
21,180	.....	9,326	.....	(3)	.....	.....	.....	.....	(3)	.....	(3)	.....	.....	54
14,471	.....	2,896	.....	(3)	.....	.....	.....	.....	(3)	.....	(3)	.....	.....	55
345	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
1,138	.....	345	.....	(3)	.....	.....	.....	.....	(3)	.....	(3)	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				
		Jefferson River—Continued				
		Madison River (8)	Gallatin River (9)	Smith River (10)	Sun River (11)	Belt River (12)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	134	777	89	936	16
2	Area irrigated....1939...acres....	24,234	87,649	27,139	87,025	334
3	(a) Cropland harvested....1939...acres....	19,357	76,550	26,389	67,585	334
4	(b) Crop failure....1939...acres....	.....	.....	.....	308	.....
5	(c) Pasture....1939...acres....	4,877	11,099	750	19,132	.....
6	Area irrigated....1929...acres....	30,368	93,753	25,461	28,070	.....
7	1919...acres....	34,425	95,063	16,861	31,785	.....
8	Increase or decrease (-), 1929-1939....percent....	-20.2	-6.5	6.6	210.0	.....
9	Irrigable area in enterprises....1940...acres....	28,728	113,666	28,057	134,879	458
10	1930...acres....	46,339	120,321	31,389	121,277	.....
11	1920[1]...acres....	88,524	228,056	38,369	244,071	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	4,494	26,017	918	47,854	124
13	1930...acres....	15,971	26,568	5,928	93,207	.....
14	1920[1]...acres....	54,099	132,993	21,508	212,286	.....
15	Area works were capable of supplying with water...1940...acres....	28,649	112,905	27,760	133,715	376
16	1930...acres....	37,004	114,408	31,259	67,566	.....
17	1920...acres....	62,065	152,515	29,691	95,522	.....
18	Increase or decrease (-), 1930-1940....percent....	-22.6	-1.3	-11.2	97.9	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	4,415	25,256	621	46,690	42
20	1930...acres....	6,636	20,655	5,798	39,496	.....
21	1920...acres....	27,640	57,452	12,830	63,737	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	84.6	77.6	97.8	65.1	88.8
23	1929...percent....	82.1	81.9	81.5	41.5	.....
24	1919...percent....	55.5	62.3	56.8	33.3	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	260,091	1,136,961	358,003	9,513,431	4,843
26	(a) Cost of irrigation works and equipment....1940...dollars....	259,025	1,132,650	349,549	9,510,556	4,815
27	(b) Investment in water rights (reported)....1940...dollars....	1,066	4,311	8,454	2,875	28
28	Total investment in irrigation enterprises....1930...dollars....	193,345	885,558	134,099	7,048,875	.....
29	1920...dollars....	460,823	977,786	190,836	4,709,303	.....
30	Increase or decrease (-), 1930-1940....percent....	34.5	28.4	167.0	35.0	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	9.08	10.07	12.90	71.15	12.88
32	1930...dollars....	5.22	7.74	4.29	104.33	.....
33	1920...dollars....	7.42	6.41	6.43	49.30	.....
34	Average investment per acre irrigated....1939...dollars....	10.73	12.97	13.19	109.32	14.50
35	Estimated final investment in existing enterprises..1940...dollars....	264,991	1,137,681	360,093	10,671,778	9,993
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	9.22	10.01	12.83	79.12	21.82
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	54	183	5	85	1	87	14
38	Area irrigated in these enterprises....1939...acres....	21,871	83,297	5,182	26,248	(2)	86,847	293
39	Cost of maintenance and operation....1939...dollars....	6,655	26,691	862	6,502	(2)	68,370	662
40	Average cost, per acre irrigated....1939...dollars....	0.30	0.32	0.17	0.25	(2)	0.79	2.26
41	Total annual charges (reported)[3] [4]....1939...dollars....	2,888	32,403	1,246	.....	7,200	58,049	.....
42	Average annual charge per acre irrigated....1939...dollars....	0.28	0.47	0.25	.....	1.03	0.90	.....
43	Area against which charges were assessed....1939...acres....	12,468	70,470	5,060	.....	7,200	69,698	.....
44	Average annual charge per acre assessed....1939...dollars....	0.23	0.46	0.25	.....	1.00	0.83	.....
45	Total charges collected[3]....1939...dollars....	2,320	29,499	.....	.....	7,000	36,710	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	.....	25,745	.....	.....	151,221	8,625,756	.....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number....	41	180	3	87	1	92	14
48	Area irrigated by these enterprises....1939...acres....	18,352	70,134	282	26,097	(2)	86,980	294
49	Water delivered....1939...acre-feet..	50,080	134,465	333	31,567	(2)	143,870	820
50	Average water delivered per acre irrigated....1939...acre-feet..	2.7	1.9	1.2	1.2	(2)	1.7	2.8
51	Average cost of water per acre irrigated....1939...dollars....	0.28	0.50	0.11	0.25	(2)	0.77	2.55
52	Average cost of water per acre-foot delivered..1939...dollars....	0.10	0.26	0.09	0.20	(2)	0.46	0.91
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number....	5	4	.....	.....	.....	5	.....
54	Irrigable area in these enterprises....1939...acres....	2,168	4,930	.....	.....	.....	103,451	.....
55	Irrigated area in these enterprises....1939...acres....	2,068	4,799	.....	.....	.....	63,874	.....
56	Area for which drains have been installed....1939...acres....	160	170	.....	.....	.....	48,046	.....
57	Additional area needing drainage....1939...acres....	205	245	.....	.....	.....	1,739	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSOURI RIVER—Continued										
Marias River			Arrow River	Judith River		Musselshell River			Dry Creek	
Total	Direct	Teton River				Total	Direct	Boxelder-Flat Willow Creeks		
	(13)	(14)	(15)	(16)			(18)	(19)	(20)	
867	543	324	26	123		315	224	91	8	1
124,176	71,833	52,343	4,275	10,320		56,460	43,613	12,847	505	2
108,406	61,796	46,610	4,075	9,951		51,496	39,380	12,116	286	3
727	689	38	.....	12		137	66	71	219	4
15,043	9,348	5,695	200	357		4,827	4,167	660	.....	5
102,334	.....	46,974	.....	7,435		59,286	.....	.....	.....	6
108,703	.....	44,945	.....	15,173		45,559	.....	.....	.....	7
21.3	.....	11.4	.....	38.8		-4.8	.....	.....	.....	8
250,549	181,358	69,191	4,601	19,752		88,692	57,747	30,945	3,300	9
169,513	.....	67,699	.....	14,603		96,570	.....	.....	.....	10
454,626	.....	146,468	.....	40,993		141,363	.....	.....	.....	11
126,373	109,525	16,848	326	9,432		32,232	14,134	18,098	2,795	12
67,179	.....	20,725	.....	7,168		37,284	.....	.....	.....	13
345,923	.....	101,523	.....	25,820		95,804	.....	.....	.....	14
209,602	140,624	68,978	4,468	18,644		83,900	55,921	27,979	1,630	15
166,723	.....	66,799	.....	13,075		84,738	.....	.....	.....	16
204,672	.....	82,241	.....	35,459		113,964	.....	.....	.....	17
25.7	.....	3.3	.....	42.6		-1.0	.....	.....	.....	18
85,426	68,791	16,635	193	8,324		27,440	12,308	15,132	1,125	19
64,389	.....	19,825	.....	5,640		25,452	.....	.....	.....	20
95,969	.....	37,296	.....	20,286		68,405	.....	.....	.....	21
59.2	51.1	75.9	95.7	55.4		67.3	78.0	45.9	31.0	22
61.4	.....	70.3	.....	56.9		70.0	.....	.....	.....	23
53.1	.....	54.7	.....	42.8		40.0	.....	.....	.....	24
5,877,681	4,249,340	1,628,341	14,705	383,014		716,804	342,162	374,642	21,322	25
5,796,139	4,194,740	1,601,398	14,705	380,699		660,171	335,601	324,570	21,296	26
81,543	54,600	26,943	.....	2,315		56,633	6,561	50,072	26	27
4,800,336	.....	1,160,236	.....	90,134		765,729	.....	.....	.....	28
6,753,900	.....	1,251,130	.....	281,842		986,755	.....	.....	.....	29
22.4	.....	40.3	.....	324.9		-6.4	.....	.....	.....	30
28.04	30.22	23.61	3.29	20.54		8.54	6.12	13.39	13.08	31
28.79	.....	17.37	.....	6.89		9.04	.....	.....	.....	32
33.00	.....	15.21	.....	7.95		8.66	.....	.....	.....	33
47.33	59.16	31.11	3.44	37.11		12.70	7.85	29.16	42.22	34
8,809,136	7,176,820	1,632,316	15,570	386,164		743,764	362,657	381,107	23,522	35
35.16	39.57	23.59	3.38	19.55		8.39	6.28	12.32	7.13	36
Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises				
173	1	91	82	1	26	53	1	233	153	80	3	37
122,352	(2)	71,205	51,147	(2)	4,275	9,219	(2)	54,295	41,687	12,608	115	38
90,031	(2)	74,729	15,302	(2)	1,650	5,141	(2)	36,213	26,555	9,658	307	39
0.74	(2)	1.05	0.30	(2)	0.39	0.56	(2)	0.67	0.64	0.77	2.67	40
114,218	.....	82,985	31,233	.....	.....	2,265	.....	4,673	4,673	.....	.....	41
1.19	.....	1.44	0.82	.....	.....	0.74	.....	0.70	0.70	.....	.....	42
124,285	.....	82,985	41,300	.....	.....	2,630	.....	7,440	7,440	.....	.....	43
0.92	.....	1.00	0.76	.....	.....	0.86	.....	0.63	0.63	.....	.....	44
93,394	350	68,439	24,955	350	.....	3,995	.....	325	325	.....	.....	45
5,234,272	27,000	4,968,825	265,447	27,000	.....	100,279	.....	38,022	22	38,000	.....	46
189	.....	93	96	.....	21	47	1	235	156	79	5	47
123,208	.....	71,268	51,940	.....	3,990	9,202	(2)	51,494	39,045	12,449	445	48
164,857	.....	107,201	57,656	.....	2,412	10,028	(2)	51,241	40,237	11,004	350	49
1.3	.....	1.5	1.1	.....	0.60	1.1	(2)	1.0	1.0	0.9	0.8	50
1.06	.....	1.31	0.72	.....	0.38	0.66	(2)	0.63	0.59	0.75	0.42	51
0.79	.....	0.87	0.65	.....	0.63	0.61	(2)	0.63	0.58	0.84	0.53	52
1	.....	.....	1	.....	.....	1	.....	5	5	.....	.....	53
(2)	.....	.....	(2)	.....	.....	(2)	.....	875	875	.....	.....	54
(2)	.....	.....	(2)	.....	.....	(2)	.....	485	485	.....	.....	55
(2)	.....	.....	(2)	.....	.....	.....	.....	25	25	.....	.....	56
(2)	.....	.....	(2)	.....	.....	(2)	.....	75	75	.....	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued					
		Milk River					
		Total	Direct (21)	Sandy Creek (22)	Clear Creek (23)	Lodge-Battle Creeks (24)	Snake Creek (25)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	1,178	1,061	12	18	37	6
2	Area irrigated....1939...acres....	110,125	82,327	2,871	1,825	3,720	914
3	(a) Cropland harvested....1939...acres....	94,067	68,788	1,892	1,825	3,153	486
4	(b) Crop failure....1939...acres....	1,576	1,189	313	.....	67	7
5	(c) Pasture....1939...acres....	14,482	12,350	666	.....	500	421
6	Area irrigated....1929...acres....	88,218	55,499	.....	.....	.....	60
7	1919...acres....	108,555	19,766	.....	.....	.....	910
8	Increase or decrease (-), 1929-1939....percent....	24.8	48.3	.....	.....	.....	(1)
9	Irrigable area in enterprises....1940...acres....	234,797	191,865	6,660	2,141	5,076	2,264
10	1930...acres....	216,998	169,716	.....	.....	.....	160
11	1920[2]..acres....	349,716	26,358	.....	.....	.....	3,130
12	Excess of irrigable area over the area irrigated..1940...acres....	124,672	109,538	3,789	316	1,356	1,350
13	1930...acres....	128,780	114,217	.....	.....	.....	100
14	1920[2]..acres....	241,161	6,592	.....	.....	.....	2,220
15	Area works were capable of supplying with water...1940...acres....	191,422	155,319	5,165	2,079	4,388	1,620
16	1930...acres....	190,218	148,661	.....	.....	.....	160
17	1920...acres....	179,063	23,443	.....	.....	.....	2,275
18	Increase or decrease (-), 1930-1940....percent....	0.6	4.5	.....	.....	.....	912.5
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	81,297	72,992	2,294	254	668	706
20	1930...acres....	102,000	93,162	.....	.....	.....	100
21	1920...acres....	70,508	3,677	.....	.....	.....	1,365
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	57.5	53.0	55.6	87.8	84.8	56.4
23	1929...percent....	46.4	37.3	.....	.....	.....	37.5
24	1919...percent....	60.6	84.3	.....	.....	.....	40.0
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	11,977,397	11,410,513	204,148	21,071	67,845	6,025
26	(a) Cost of irrigation works and equipment....1940...dollars....	11,967,538	11,401,423	204,123	21,045	67,375	5,950
27	(b) Investment in water rights (reported)....1940...dollars....	9,859	9,090	25	26	470	75
28	Total investment in irrigation enterprises....1930...dollars....	8,561,785	5,503,687	.....	.....	.....	800
29	1920...dollars....	7,271,098	154,208	.....	.....	.....	8,600
30	Increase or decrease (-), 1930-1940....percent....	39.9	107.3	.....	.....	.....	653.1
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	62.57	73.47	39.53	10.14	15.46	3.72
32	1930...dollars....	45.01	37.02	.....	.....	.....	5.00
33	1920...dollars....	40.61	6.58	.....	.....	.....	3.78
34	Average investment per acre irrigated....1939...dollars....	108.76	138.60	71.11	11.55	18.24	6.59
35	Estimated final investment in existing enterprises..1940...dollars....	12,173,094	11,473,553	222,155	21,321	76,645	7,825
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	51.85	59.80	33.36	9.96	15.10	3.46
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup.	Primary Enterprises / Sup.				
37	Enterprises reporting maintenance and operation...1939...number....	166 / 2	105 / 1	11	16	16	3
38	Area irrigated in these enterprises....1939...acres....	109,446 / (3)	81,929 / (3)	2,869	1,825	3,720	654
39	Cost of maintenance and operation....1939...dollars....	148,387 / (3)	137,294 / (3)	2,459	1,160	3,175	86
40	Average cost, per acre irrigated....1939...dollars....	1.36 / (3)	1.68 / (3)	0.86	0.64	0.85	0.13
41	Total annual charges (reported)[4] [5]....1939...dollars....	192,834	188,359	.....	.....	1,880	.....
42	Average annual charge per acre irrigated....1939...dollars....	2.28	2.60	.....	.....	0.94	.....
43	Area against which charges were assessed....1939...acres....	128,386	113,786	.....	.....	2,000	.....
44	Average annual charge per acre assessed....1939...dollars....	1.50	1.66	.....	.....	0.94	.....
45	Total charges collected[4]....1939...dollars....	41,139	37,618	.....	.....	1,880	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	8,052,472	8,045,272	.....	.....	6,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	170 / 2	108 / 1	11	16	16	4
48	Area irrigated by these enterprises....1939...acres....	85,852 / (3)	66,408 / (3)	2,871	1,825	3,720	740
49	Water delivered....1939...acre-feet..	82,814 / (3)	61,029 / (3)	2,807	1,302	9,705	300
50	Average water delivered per acre irrigated....1939...acre-feet..	1.0 / (3)	0.9 / (3)	1.0	0.7	2.6	0.4
51	Average cost of water per acre irrigated....1939...dollars....	2.16 / (3)	2.63 / (3)	0.86	0.64	0.93	0.13
52	Average cost of water per acre-foot delivered..1939...dollars....	2.24 / (3)	2.86 / (3)	0.88	0.89	0.36	0.32
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	23	18	2	.....	2	.....
54	Irrigable area in these enterprises....1939...acres....	172,902	170,342	(3)	.....	(3)	.....
55	Irrigated area in these enterprises....1939...acres....	68,336	67,747	(3)	.....	(3)	.....
56	Area for which drains have been installed....1939...acres....	4,924	3,984	(3)	.....	(3)	.....
57	Additional area needing drainage....1939...acres....	17,605	17,585	(3)	.....	.....	.....

[1] Less than one-tenth of 1 percent.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSOURI RIVER—Continued										
Milk River—Continued						Yellowstone River				
Frenchman Creek (26)	Beaver Creek (27)	Rock Creek (28)	Redwater Creek (29)	Poplar River (30)	Big Muddy Creek (31)	Total	Direct (33)	Shields River (34)	Boulder River (35)	
14	8	22	17	9	4	5,413	2,993	200	120	1
2,607	7,750	8,111	569	680	446	443,230	226,615	27,078	16,889	2
2,092	7,720	8,111	404	605	431	405,271	210,698	25,197	12,729	3
.....	.....	.....	5	.....	.....	2,316	1,657	.....	.....	4
515	30	.....	160	75	15	35,643	14,260	1,881	4,160	5
.....	.....	.....	.....	.....	.....	434,550	162,312	32,866	11,309	6
.....	.....	.....	.....	.....	.....	440,354	189,453	25,940	.....	7
.....	.....	.....	.....	.....	.....	2.0	39.6	-17.6	49.3	8
4,810	12,366	9,615	3,513	787	671	694,462	326,585	37,604	18,881	9
.....	.....	.....	.....	.....	.....	651,065	242,693	59,417	12,981	10
.....	.....	.....	.....	.....	.....	858,817	279,211	94,238	.....	11
2,203	4,616	1,504	2,944	107	225	251,232	99,970	10,526	1,992	12
.....	.....	.....	.....	.....	.....	216,515	80,381	26,551	1,672	13
.....	.....	.....	.....	.....	.....	418,463	89,758	68,298	.....	14
3,870	9,366	9,615	3,133	787	471	651,505	309,863	36,675	18,418	15
.....	.....	.....	.....	.....	.....	613,707	236,401	49,462	12,479	16
.....	.....	.....	.....	.....	.....	668,355	262,801	53,062	.....	17
.....	.....	.....	.....	.....	.....	6.2	31.1	-25.9	47.6	18
1,263	1,616	1,504	2,564	107	25	208,275	83,248	9,597	1,529	19
.....	.....	.....	.....	.....	.....	179,157	74,089	16,596	1,170	20
.....	.....	.....	.....	.....	.....	228,001	73,348	27,122	.....	21
67.4	82.7	84.4	18.2	86.4	94.7	68.0	73.1	73.8	91.7	22
.....	.....	.....	.....	.....	.....	70.8	68.7	66.4	90.6	23
.....	.....	.....	.....	.....	.....	65.9	72.1	48.9	.....	24
21,713	213,539	32,543	24,689	6,753	7,806	17,661,091	10,347,508	163,882	109,422	25
21,700	213,422	32,500	24,667	6,750	7,800	17,493,615	10,259,196	161,045	108,600	26
13	117	43	22	3	6	167,476	88,312	2,837	822	27
.....	.....	.....	.....	.....	.....	12,915,910	7,070,112	397,120	92,927	28
.....	.....	.....	.....	.....	.....	13,762,337	7,508,390	424,103	.....	29
.....	.....	.....	.....	.....	.....	36.7	46.4	-58.7	17.8	30
5.61	22.80	3.38	7.88	8.58	16.57	27.11	33.39	4.47	5.94	31
.....	.....	.....	.....	.....	.....	21.05	29.91	8.03	7.45	32
.....	.....	.....	.....	.....	.....	20.59	28.57	7.99	.....	33
8.33	27.55	4.01	43.39	9.93	17.50	39.85	45.66	6.05	6.48	34
24,713	314,339	32,543	26,489	6,753	8,756	19,073,603	10,662,694	168,282	111,122	35
5.14	25.42	3.38	7.54	8.58	13.05	27.47	32.65	4.48	5.89	36
		Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.	
6	7	2	1	7	7	4	929	13	394	5	108	44	37
2,607	7,732	(3)	(3)	67	605	446	428,150	31,505	221,257	2,919	23,541	16,138	38
1,205	2,072	(3)	(3)	550	248	380	356,758	6,100	204,664	1,571	7,567	3,294	39
0.46	0.27	(3)	(3)	8.21	0.41	0.85	0.83	0.19	0.93	0.54	0.32	0.20	40
675	.....	1,920	.....	.....	.....	.....	370,834	37,150	249,106	2,860	1,260	1,271	41
0.34	.....	0.24	.....	.....	.....	.....	1.17	1.21	1.43	1.10	0.29	0.12	42
3,000	.....	9,600	.....	.....	.....	.....	358,929	46,600	189,931	2,600	4,286	11,170	43
0.22	.....	0.20	.....	.....	.....	.....	1.03	0.80	1.31	1.10	0.29	0.11	44
.....	.....	1,641	.....	.....	.....	.....	338,164	19,339	264,183	2,860	564	710	45
200	.....	1,000	.....	.....	.....	.....	7,461,575	1,401,584	4,552,864	41,584	.....	.....	46
5	8	2	1	9	8	4	874	10	364	4	113	40	47
2,527	7,750	(3)	(3)	379	680	446	357,546	15,696	209,679	319	23,530	7,888	48
2,009	5,650	(3)	(3)	179	2,743	506	758,093	16,554	474,732	244	44,630	11,264	49
0.8	0.7	(3)	(3)	0.5	4.0	1.1	2.1	1.1	2.3	0.8	1.9	1.4	50
0.53	0.27	(3)	(3)	2.13	0.41	0.85	1.01	2.01	1.26	0.85	0.34	0.29	51
0.67	0.37	(3)	(3)	2.94	0.10	0.75	0.48	1.90	0.56	1.11	0.18	0.20	52
.....	1	.....	.....	1	.....	1	67	.....	34	.....	1	6	53
.....	(3)	.....	.....	(3)	.....	(3)	348,266	.....	170,664	.....	(3)	8,455	54
.....	(3)	.....	.....	(3)	.....	(3)	215,774	.....	134,026	.....	(3)	7,364	55
.....	(3)	.....	.....	(3)	.....	(3)	87,860	.....	64,925	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	26,249	.....	15,681	.....	(3)	2,560	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				
		Yellowstone River—Continued				
		Stillwater River				
		Total	Direct (36)	Fishtail-West Rosebud Creeks		
				Total	Direct (37)	East Rosebud Creek (38)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	248	90	158	84	74
2	Area irrigated....1939...acres....	22,163	7,907	14,256	7,449	6,807
3	(a) Cropland harvested....1939...acres....	17,180	6,766	10,414	4,949	5,465
4	(b) Crop failure....1939...acres....	38	38	.....	.....	.....
5	(c) Pasture....1939...acres....	4,945	1,103	3,842	2,500	1,342
6	Area irrigated....1929...acres....	22,162	.....	.....	.....	.....
7	1919...acres....	23,926	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939....percent....	(1)	.....	.....	.....	.....
9	Irrigable area in enterprises....1940...acres....	36,151	9,805	26,346	9,048	17,298
10	1930...acres....	32,327	.....	.....	.....	.....
11	1920[2]...acres....	35,643	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	13,988	1,898	12,090	1,599	10,491
13	1930...acres....	10,165	.....	.....	.....	.....
14	1920[2]...acres....	11,717	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres....	28,595	9,749	18,846	9,048	9,798
16	1930...acres....	31,087	.....	.....	.....	.....
17	1920...acres....	30,969	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940....percent....	-8.0	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	6,432	1,842	4,590	1,599	2,991
20	1930...acres....	8,925	.....	.....	.....	.....
21	1920...acres....	7,043	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	77.5	81.1	75.6	82.3	69.5
23	1929...percent....	71.3	.....	.....	.....	.....
24	1919...percent....	77.3	.....	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	602,510	94,406	508,104	32,235	475,869
26	(a) Cost of irrigation works and equipment....1940...dollars....	595,275	94,260	501,015	32,215	468,800
27	(b) Investment in water rights (reported)....1940...dollars....	7,235	146	7,089	20	7,069
28	Total investment in irrigation enterprises....1930...dollars....	674,220	.....	.....	.....	.....
29	1920...dollars....	307,873	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940....percent....	-10.6	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	21.07	9.68	26.96	3.56	48.57
32	1930...dollars....	21.69	.....	.....	.....	.....
33	1920...dollars....	9.94	.....	.....	.....	.....
34	Average investment per acre irrigated....1939...dollars....	27.19	11.94	35.64	4.33	69.91
35	Estimated final investment in existing enterprises..1940...dollars....	614,110	96,006	518,104	32,235	485,869
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	16.99	9.79	19.67	3.56	28.09
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises			
37	Enterprises reporting maintenance and operation...1939...number....	105 / 1	34 / 1	71	35	36
38	Area irrigated in these enterprises....1939...acres....	20,459 / (3)	7,096 / (3)	13,363	6,556	6,807
39	Cost of maintenance and operation....1939...dollars....	8,105 / (3)	3,065 / (3)	5,040	1,629	3,411
40	Average cost, per acre irrigated....1939...dollars....	0.40 / (3)	0.43 / (3)	0.38	0.25	0.50
41	Total annual charges (reported)[4 5]....1939...dollars....	2,837	1,739	1,098	398	700
42	Average annual charge per acre irrigated....1939...dollars....	0.36	0.43	0.30	0.27	0.32
43	Area against which charges were assessed....1939...acres....	8,235	4,085	4,150	1,550	2,600
44	Average annual charge per acre assessed....1939...dollars....	0.34	0.43	0.26	0.26	0.27
45	Total charges collected[4]....1939...dollars....	900	900	.....	.....	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	453,000	.....	453,000	.....	453,000
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number....	80	26	54	19	35
48	Area irrigated by these enterprises....1939...acres....	15,540	5,953	9,587	2,980	6,607
49	Water delivered....1939...acre-feet..	33,287	17,661	15,626	4,652	10,974
50	Average water delivered per acre irrigated....1939...acre-feet..	2.1	3.0	1.6	1.6	1.7
51	Average cost of water per acre irrigated....1939...dollars....	0.46	0.40	0.49	0.40	0.52
52	Average cost of water per acre-foot delivered..1939...dollars....	0.21	0.14	0.30	0.26	0.32
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number....	10	7	3	3	.....
54	Irrigable area in these enterprises....1939...acres....	1,643	467	1,176	1,176	.....
55	Irrigated area in these enterprises....1939...acres....	1,466	401	1,065	1,065	.....
56	Area for which drains have been installed....1939...acres....	273	273	.....	.....	.....
57	Additional area needing drainage....1939...acres....	138	7	131	131	.....

[7] Data for 2 enterprises in Little Powder River Drainage Basin (47) (number refers to separate map) are included with Powder River Drainage Basin (46).
[1] Less than one-tenth of 1 percent.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSOURI RIVER—Continued												
Yellowstone River—Continued												
Clarks Fork (Yellowstone)				Big Horn River				Rosebud Creek	Tongue River		Powder River[6]	
Total	Direct (39)		Red Lodge-Rock Creeks (40)	Total	Direct (41)	Shoshone River-Sage Creek (42)	Little Horn River (43)	(44)	(45)		(46)	
840	365		475	762	606	10	146	13	217		17	1
77,252	32,372		44,880	56,323	44,294	1,064	10,965	700	13,880		2,195	2
71,410	31,082		40,328	53,467	41,975	993	10,499	700	12,018		1,752	3
479	65		414	106	46	40	20	.....	11		25	4
5,363	1,225		4,138	2,750	2,273	31	446	.....	1,851		418	5
86,310	.....		.....	43,319	.....	.....	.....	.....	13,303		1,144	6
68,839	.....		.....	51,103	.....	.....	.....	.....	11,170		728	7
-10.5	.....		.....	30.0	.....	.....	.....	.....	4.3		91.9	8
97,533	37,217		60,316	147,539	123,178	1,245	23,116	1,648	23,377		4,129	9
102,285	.....		.....	87,171	.....	.....	.....	.....	18,604		1,672	10
125,367	.....		.....	92,036	.....	.....	.....	.....	31,396		5,871	11
20,281	4,845		15,436	91,216	78,884	181	12,151	948	9,497		1,934	12
15,975	.....		.....	43,852	.....	.....	.....	.....	5,301		528	13
56,528	.....		.....	40,933	.....	.....	.....	.....	20,226		5,143	14
96,097	36,105		59,992	136,641	116,252	1,245	19,144	1,111	19,271		3,819	15
100,548	.....		.....	77,447	.....	.....	.....	.....	18,497		1,217	16
116,506	.....		.....	66,206	.....	.....	.....	.....	21,403		4,841	17
-4.4	.....		.....	76.4	.....	.....	.....	.....	4.2		213.8	18
18,845	3,733		15,112	80,318	71,958	181	8,179	411	5,391		1,624	19
14,238	.....		.....	34,128	.....	.....	.....	.....	5,194		73	20
47,667	.....		.....	15,103	.....	.....	.....	.....	10,233		4,113	21
80.4	89.7		74.8	41.2	38.1	85.5	57.3	63.0	72.0		57.5	22
85.8	.....		.....	55.9	.....	.....	.....	.....	71.9		94.0	23
59.1	.....		.....	77.2	.....	.....	.....	.....	52.2		15.0	24
1,618,384	395,629		1,222,755	2,790,670	2,041,987	11,663	737,020	34,679	1,952,622		28,443	25
1,603,639	392,304		1,211,335	2,790,494	2,041,962	11,661	736,871	34,679	1,899,639		28,077	26
14,745	3,325		11,420	176	25	2	149	.....	52,983		366	27
856,462	.....		.....	2,385,806	.....	.....	.....	.....	483,979		7,200	28
1,108,191	.....		.....	2,339,457	.....	.....	.....	.....	608,504		35,402	29
89.0	.....		.....	17.0	.....	.....	.....	.....	303.5		295.0	30
16.84	10.96		20.38	20.42	17.57	9.37	38.50	31.21	101.32		7.45	31
8.52	.....		.....	30.81	.....	.....	.....	.....	26.17		5.92	32
9.51	.....		.....	35.34	.....	.....	.....	.....	28.43		7.31	33
20.95	12.22		27.24	49.55	46.10	10.96	67.22	49.54	140.68		12.96	34
1,624,084	401,329		1,222,755	3,824,038	2,757,353	11,713	1,054,972	38,872	1,984,302		30,878	35
16.65	10.78		20.27	25.92	22.39	9.41	45.64	23.59	84.88		7.48	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.				Primary Enterprises	Sup.		
188	6	38	2	150	4	37	13	6	18	6	35	1	11	37
75,626	15,377	32,369	(3)	43,257	15,322	55,763	44,294	504	10,965	695	13,258	(3)	1,343	38
38,135	2,339	20,605	(3)	17,530	2,214	85,529	62,910	334	22,285	991	7,084	(3)	1,364	39
0.50	0.15	0.64	(3)	0.41	0.14	1.53	1.42	0.66	2.03	1.43	0.53	(3)	1.02	40
32,970	31,000	23,141	.....	9,829	31,000	72,224	55,242	108	16,874	326	10,840	3,290	.....	41
0.57	2.07	0.77	.....	0.35	2.07	1.37	1.27	1.33	1.85	1.88	1.08	0.25	.....	42
59,607	31,000	30,663	.....	28,944	31,000	74,554	58,774	86	15,694	173	10,973	13,000	.....	43
0.55	1.00	0.75	.....	0.34	1.00	0.97	0.94	1.26	1.08	1.88	0.99	0.25	.....	44
32,563	14,973	17,561	.....	15,002	14,973	28,926	25,743	37	3,146	.....	10,318	1,506	.....	45
26,347	700,000	17,510	.....	8,837	700,000	2,301,364	1,598,375	4,759	698,230	9,288	118,712	660,000	.....	46
180	6	35	2	145	4	34	11	8	15	6	42	.....	14	47
61,499	15,377	24,857	(3)	36,642	15,322	23,036	20,294	1,021	1,721	524	13,770	.....	2,010	48
121,724	16,310	59,801	(3)	61,923	16,225	44,068	41,033	1,147	1,888	1,062	25,200	.....	2,046	49
2.0	1.1	2.4	(3)	1.7	1.1	1.9	2.0	1.1	1.1	2.0	1.8	.....	1.0	50
0.61	2.03	0.80	(3)	0.47	2.03	0.97	1.02	0.67	0.44	1.43	1.06	.....	0.94	51
0.31	1.91	0.33	(3)	0.28	1.92	0.50	0.50	0.59	0.40	0.70	0.58	.....	0.92	52
7	.....	2	.....	5	.....	4	3	.....	[6] 1	2	1	.....	2	53
14,800	.....	(3)	.....	5,200	.....	141,016	122,242	.....	18,774	(3)	(3)	.....	(3)	54
11,640	.....	(3)	.....	4,400	.....	51,722	43,500	.....	8,222	(3)	(3)	.....	(3)	55
160	.....	.....	.....	160	.....	21,752	21,368	.....	384	(3)	.....	.....	(3)	56
990	.....	(3)	.....	490	.....	6,415	4,934	.....	1,481	.....	(3)	.....	(3)	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				COLUMBIA RIVER	
		Yellowstone River—Con.	Little Missouri River				
		O'Fallon Creek (48)	Total	Direct[1] (49)	Beaver Creek (52)	Total	Kootenai River (54)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	3	12	8	4	5,124	202
2	Area irrigated....1939...acres....	135	190	152	38	341,873	7,163
3	(a) Cropland harvested....1939...acres....	120	190	152	38	280,531	6,558
4	(b) Crop failure....1939...acres....	.....	.....	.....	.....	1,796	8
5	(c) Pasture....1939...acres....	15	.....	.....	.....	59,546	597
6	Area irrigated....1929...acres....	.....	1,462	.....	.....	270,426	7,590
7	1919...acres....	.....	380	.....	.....	291,966	5,982
8	Increase or decrease (-), 1929-1939....percent....	.....	-87.0	.....	.....	26.4	-5.6
9	Irrigable area in enterprises....1940...acres....	1,015	2,034	1,619	415	455,333	10,035
10	1930...acres....	.....	2,127	.....	.....	434,176	10,330
11	1920[3]...acres....	.....	3,205	.....	.....	616,080	14,423
12	Excess of irrigable area over the area irrigated..1940...acres....	880	1,844	1,467	377	113,460	2,872
13	1930...acres....	.....	665	.....	.....	163,750	2,740
14	1920[3]...acres....	.....	2,825	.....	.....	324,114	8,441
15	Area works were capable of supplying with water...1940...acres....	1,015	1,839	1,479	360	404,450	8,835
16	1930...acres....	.....	1,962	.....	.....	404,042	9,432
17	1920...acres....	.....	1,480	.....	.....	453,588	9,724
18	Increase or decrease (-), 1930-1940....percent....	.....	-6.3	.....	.....	0.1	-6.3
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	880	1,649	1,327	322	62,577	1,672
20	1930...acres....	.....	500	.....	.....	133,616	1,842
21	1920...acres....	.....	1,100	.....	.....	161,622	3,742
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	13.3	10.3	10.3	10.6	84.5	81.1
23	1929...percent....	.....	74.5	.....	.....	66.9	80.5
24	1919...percent....	.....	25.7	.....	.....	64.4	61.5
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	12,971	23,269	7,154	16,115	13,447,045	222,549
26	(a) Cost of irrigation works and equipment....1940...dollars....	12,971	23,269	7,154	16,115	13,346,465	220,514
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....	.....	.....	100,580	2,035
28	Total investment in irrigation enterprises....1930...dollars....	.....	28,656	.....	.....	9,226,910	230,535
29	1920...dollars....	.....	15,064	.....	.....	8,636,067	221,976
30	Increase or decrease (-), 1930-1940....percent....	.....	-18.8	.....	.....	45.7	-3.5
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	12.78	12.65	4.84	44.76	33.25	25.19
32	1930...dollars....	.....	14.61	.....	.....	22.84	24.44
33	1920...dollars....	.....	10.18	.....	.....	19.04	22.83
34	Average investment per acre irrigated....1939...dollars....	96.08	122.47	47.07	424.08	39.33	31.07
35	Estimated final investment in existing enterprises..1940...dollars....	15,221	26,394	9,804	16,590	14,633,812	234,524
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	15.00	12.98	6.06	39.98	32.14	23.37
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	1	5	2	3	1,579	12	133
38	Area irrigated in these enterprises....1939...acres....	(4)	94	(4)	17	325,653	19,461	6,785
39	Cost of maintenance and operation....1939...dollars....	(4)	225	(4)	125	247,990	3,699	6,250
40	Average cost, per acre irrigated....1939...dollars....	(4)	2.39	(4)	7.35	0.76	0.19	0.92
41	Total annual charges (reported)[5] [6]....1939...dollars....	.....	.....	.....	.....	240,350	26,394	4,283
42	Average annual charge per acre irrigated....1939...dollars....	.....	.....	.....	.....	1.44	1.36	2.15
43	Area against which charges were assessed....1939...acres....	.....	.....	.....	.....	201,717	36,502	2,419
44	Average annual charge per acre assessed....1939...dollars....	.....	.....	.....	.....	1.19	0.72	1.77
45	Total charges collected[5]....1939...dollars....	.....	.....	.....	.....	161,437	13,022	3,668
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	.....	.....	.....	.....	10,997,172	498,508	13,000
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	1	6	2	4	1,695	12	158
48	Area irrigated by these enterprises....1939...acres....	(4)	115	(4)	38	329,838	17,394	7,163
49	Water delivered....1939...acre-feet..	(4)	164	(4)	59	867,046	18,841	24,474
50	Average water delivered per acre irrigated....1939...acre-feet..	(4)	1.4	(4)	1.6	2.6	1.1	3.4
51	Average cost of water per acre irrigated....1939...dollars....	(4)	1.86	(4)	2.14	0.92	1.51	1.17
52	Average cost of water per acre-foot delivered..1939...dollars....	(4)	1.31	(4)	2.50	0.35	1.39	0.34
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	2	.....	2	47	.....	4
54	Irrigable area in these enterprises....1939...acres....	.....	(4)	.....	(4)	148,350	.....	520
55	Irrigated area in these enterprises....1939...acres....	.....	(4)	.....	(4)	87,287	.....	442
56	Area for which drains have been installed....1939...acres....	.....	(4)	.....	(4)	2,634	.....	100
57	Additional area needing drainage....1939...acres....	.....	(4)	.....	(4)	2,764	.....	44

[1] Data for 2 enterprises in Boxelder Creek Drainage Basin (50) (number refers to separate map) and 1 enterprise in Little Beaver Creek Drainage Basin (51) are included with Little Missouri River "Direct" Drainage Basin (49).

[2] Data for the 1930 and 1920 Censuses for Upper Clark Fork Drainage Basin (58) (number refers to separate map) are included with Lower Clark Fork "Direct" Drainage Basin (55).

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued																
Lower Clark Fork																
Total		Direct[2] (55)		Upper Clark Fork[2] (56)		Blackfoot River (57)	Bitterroot River (58)		Flathead River							
									Total		Direct (59)		Swan River (60)	Little Bitterroot River (61)		
4,922		535		789		174	1,786		1,638		1,402		26	210		1
334,710		22,865		83,073		30,062	113,822		84,888		75,139		887	8,862		2
273,973		20,655		72,337		28,821	84,248		67,912		59,574		867	7,451		3
1,788		46		668		200	356		518		482	.....		36		4
58,949		2,164		10,068		1,041	29,218		16,458		15,083	.....		1,375		5
262,836		12,771	.....		.....	32,435	89,762		50,787	.....	.....	.....	.....	.....	.....	6
285,984		5,432	.....		.....	40,604	112,622		44,333	.....	.....	.....	.....	.....	.....	7
27.3		79.0	.....		.....	-7.3	26.8		67.1	.....	.....	.....	.....	.....	.....	8
445,298		37,931		91,519		40,962	126,827		148,059		131,024		1,165	15,870		9
423,846		16,919	.....		.....	45,246	114,631		143,787	.....	.....	.....	.....	.....	.....	10
601,657		14,403	.....		.....	83,716	158,241		154,233	.....	.....	.....	.....	.....	.....	11
110,588		15,066		8,446		10,900	13,005		63,171		55,885		278	7,008		12
161,010		4,148	.....		.....	12,811	24,869		93,000	.....	.....	.....	.....	.....	.....	13
315,673		8,971	.....		.....	43,112	45,619		109,900	.....	.....	.....	.....	.....	.....	14
395,615		31,986		90,271		40,053	120,292		113,013		98,970		943	13,100		15
394,610		15,417	.....		.....	43,572	109,782		128,588	.....	.....	.....	.....	.....	.....	16
443,864		10,499	.....		.....	61,476	139,481		113,150	.....	.....	.....	.....	.....	.....	17
0.3		107.5	.....		.....	-8.1	9.6		-12.1	.....	.....	.....	.....	.....	.....	18
60,905		9,121		7,198		9,991	6,470		28,125		23,831		56	4,238		19
131,774		2,646	.....		.....	11,137	20,020		77,801	.....	.....	.....	.....	.....	.....	20
157,880		5,067	.....		.....	20,872	26,859		68,817	.....	.....	.....	.....	.....	.....	21
84.6		71.5		92.0		75.1	94.6		75.1		75.9		94.1	67.6		22
66.6		82.9	.....		.....	74.4	81.8		39.5	.....	.....	.....	.....	.....	.....	23
64.4		51.7	.....		.....	66.0	80.7		39.2	.....	.....	.....	.....	.....	.....	24
13,224,496		715,657		1,607,241		474,512	2,340,188		8,086,898		6,701,159		9,212	1,376,527		25
13,125,951		704,762		1,548,773		462,913	2,325,717		8,083,786		6,698,316		8,985	1,376,485		26
98,545		10,895		58,468		11,599	14,471		3,112		2,843		227	42		27
8,996,375		453,769	.....		.....	233,832	1,935,651		5,603,512	.....	.....	.....	.....	.....	.....	28
8,414,091		362,027	.....		.....	624,291	1,138,329		4,737,311	.....	.....	.....	.....	.....	.....	29
47.0		57.7	.....		.....	102.9	20.9		44.3	.....	.....	.....	.....	.....	.....	30
33.43		22.37		17.80		11.85	19.45		71.56		67.71		9.77	105.08		31
22.80		29.43	.....		.....	5.37	17.63		43.58	.....	.....	.....	.....	.....	.....	32
18.96		34.48	.....		.....	10.16	8.16		41.87	.....	.....	.....	.....	.....	.....	33
39.51		31.30		19.35		15.78	20.56		95.27		89.18		10.39	155.33		34
14,399,288		887,297		1,614,893		487,687	2,344,838		9,064,573		7,582,019		11,327	1,471,227		35
32.34		23.39		17.65		11.91	18.49		61.22		57.87		9.72	92.70		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.				Primary Enterprises	Sup.	
1,446	12	250	3	379	1	114	473	8	230	.....	205		14	11	.....	37
318,868	19,461	22,113	381	79,322	(4)	23,558	111,054	6,980	82,821	.....	74,312		281	8,228	.....	38
241,740	3,699	15,038	75	37,494	(4)	8,460	83,550	1,325	97,198	.....	84,804		165	12,229	.....	39
0.76	0.19	0.68	0.20	0.47	(4)	0.36	0.75	0.19	1.17	.....	1.14		0.59	1.49	.....	40
236,067	26,394	14,616	370	8,474	24,750	6,000	83,959	1,274	123,018	.....	109,477	.....		13,541	.....	41
1.43	1.36	1.30	1.00	0.87	2.05	1.20	1.35	0.18	1.60	.....	1.59	.....		1.73	.....	42
199,298	36,502	14,461	370	10,046	25,000	5,000	64,171	11,132	105,620	.....	93,845	.....		11,775	.....	43
1.18	0.72	1.01	1.00	0.84	0.99	1.2	1.31	0.11	1.16	.....	1.17	.....		1.15	.....	44
157,769	13,022	9,276	352	7,212	11,979	.....	36,387	691	104,894	.....	93,625	.....		11,269	.....	45
10,984,172	498,508	497,525	.....	3,000	498,508	220,234	1,507,567	.....	8,755,846	.....	7,314,232	.....		1,441,614	.....	46
1,537	12	278	4	399	1	129	481	7	250	.....	212		23	15	.....	47
322,675	17,394	22,592	386	80,918	(4)	29,859	106,892	4,908	82,414	.....	73,270		887	8,257	.....	48
842,572	18,841	61,579	513	271,680	(4)	63,687	320,784	6,228	124,842	.....	109,505		3,471	11,866	.....	49
2.6	1.1	2.7	1.3	3.4	(4)	2.1	3.0	1.3	1.5	.....	1.5		3.9	1.4	.....	50
0.91	1.51	0.98	1.12	0.51	(4)	0.51	0.79	0.22	1.58	.....	1.57		0.59	1.71	.....	51
0.35	1.39	0.36	0.84	0.15	(4)	0.24	0.26	0.17	1.05	.....	1.05		0.15	1.19	.....	52
43	.....	.....	.....	27	.....	2	8	.....	6	.....	4		1	[7] 1	.....	53
147,830	.....	.....	.....	8,740	.....	(4)	4,308	.....	134,347	.....	119,674		(4)	14,641	.....	54
86,845	.....	.....	.....	8,195	.....	(4)	3,778	.....	74,437	.....	66,614		(4)	7,811	.....	55
2,534	.....	.....	.....	1,664	.....	(4)	.....	.....	760	.....	760	.....		.....	.....	56
2,720	.....	.....	.....	433	.....	.....	237	.....	2,050	.....	1,230		(4)	800	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER					
			Total	Direct[1] (1)	Jefferson River		Beaverhead River	
					Total	Direct (2)	Total	Direct (3)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	[2] 5,560	3,759	540	1,138	152	379	226
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	422	516	207	438	312	433	571
3	Diversion dams....1940..total number	6,136	4,013	464	1,588	128	695	561
4	1930..total number	2,856	2,377	6	728	22	298	.....
5	1920..total number	3,545	2,805	19	1,174	23	516	.....
6	(a) Concrete and masonry....1940..number	254	220	26	78	2	49	15
7	(b) Timber....1940..number	1,067	611	55	368	79	96	35
8	(c) Earth and rock....1940..number	3,217	2,200	229	901	27	468	445
9	(d) Other, mixed, and not reported..1940..number	1,598	982	154	241	20	82	66
10	Main canals and laterals....1940..total length, miles	15,702.5	11,822.7	1,128.9	2,537.2	379.1	807.2	440.8
11	1930..total length, miles	15,957	12,468	131	2,369	142	930	.....
12	1920..total length, miles	22,496	18,150	511	4,312	228	1,373	.....
13	(a) Earth....1940..length, miles	15,555	11,736	1,122	2,510	372	798	437
14	(b) Lined....1940..length, miles	147.5	86.7	6.9	27.2	7.1	9.2	3.8
15	1940..capacity, c.f.s.[3]	66,745	55,287	4,446	20,526	1,823	5,350	3,937
16	1930..capacity, c.f.s.[3]	53,253	45,956	543	9,440	766	3,258	.....
17	1920..capacity, c.f.s.[3]	94,429	78,815	778	25,319	1,331	5,340	.....
18	Pipe lines[4]....1940..total length, miles	148.1	91.8	11.4	4.7	1.1	0.9	0.3
19	1930..total length, miles	64.9	26.7	0.7	0.5	.....	.....	.....
20	1920..total length, miles	48.0	17.6	4.0	0.1	0.1	.....	.....
21	(a) Concrete....1940..length, miles	14.5	9.9	0.4	0.1	.....	.....	.....
22	(b) Metal....1940..length, miles	78.7	42.5	9.5	2.1	0.1	0.4	0.3
23	(c) Wood-stave....1940..length, miles	26.1	10.8	1.5	2.5	1.0	0.5	.....
24	(d) Other....1940..length, miles	28.8	28.6	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	468	358	45	37	1	15	4
26	1930..total number	326	263	.....	41	.....	12	.....
27	1920..total number	523	414	11	45	2	15	.....
28	(a) Concrete and masonry....1940..number	19	9	.....	1	.....	.....	.....
29	(b) Earth and rock....1940..number	385	311	42	25	1	13	2
30	(c) Other, mixed, and not reported..1940..number	64	38	3	11	.....	2	2
31	Reservoirs....1940..total number	517	402	51	39	1	14	3
32	(a) 1-99 acre-feet capacity....1940..number	294	236	38	15	.....	3	.....
33	(b) 100-999 acre-feet capacity....1940..number	149	116	12	16	.....	8	1
34	(c) 1,000 and over acre-feet capacity....1940..number	74	50	1	8	1	3	2
35	1940..total capacity, ac.-ft.[5]	1,301,422	1,061,682	7,093	209,094	([6])	168,229	127,160
36	1930..total number	282	227	.....	40	.....	13	.....
37	1930..total capacity, ac.-ft.	857,067	694,023	.....	65,327	.....	54,025	.....
38	Wells, flowing....1940..number	44	5	1	.....	.....	.....	.....
39	1930..number	40	3	.....	.....	.....	.....	.....
40	1920..number	41	28	.....	2	.....	1	.....
41	1940..yield, g.p.m.	9,834	234	([6])	.....	.....	.....	.....
42	1930..yield, g.p.m.	4,106	308	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	4,608	1,245	.....	2	.....	.....	.....
44	Wells, pumped....1940..number	102	65	29	2	.....	.....	.....
45	1930..number	49	32	.....	7	.....	.....	.....
46	1920..number	22	19	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	33,883	23,145	8,105	([6])	.....	.....	.....
48	1930..yield, g.p.m.	18,653	12,750	.....	978	.....	.....	.....
49	1920..yield, g.p.m.	11,085	11,005	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	651	526	134	8	1	2	.....
51	1930..total number	198	154	9	7	2	.....	.....
52	Prime movers....1940..capacity, hp	29,110	18,996	6,829	105	([6])	([6])	.....
53	1930..capacity, hp	9,095	8,755	646	64	40	.....	.....
54	1920..capacity, hp	10,341	10,058	4,494	135	25	.....	.....
55	(a) Electric....1940..number	165	103	35	2	.....	.....	.....
56	1940..capacity, hp	19,413	9,835	4,745	([6])	.....	.....	.....
57	(b) Internal-combustion....1940..number	460	403	97	6	1	2	.....
58	1940..capacity, hp	8,223	7,802	1,994	102	([6])	([6])	.....
59	(c) Other....1940..number	26	20	2	.....	.....	.....	.....
60	1940..capacity, hp	1,474	1,359	([6])	.....	.....	.....	.....
61	Pumps....1940..total number	680	556	143	8	1	2	.....
62	1930..number	233	188	9	9	2	.....	.....
63	1920..number	299	271	34	4	2	.....	.....
64	1940..capacity, g.p.m.	1,309,014	1,152,731	335,840	12,796	([6])	([6])	.....
65	1930..capacity, g.p.m.	523,494	498,089	42,310	3,230	2,250	.....	.....
66	1920..capacity, g.p.m.	453,231	440,779	115,975	4,968	1,968	.....	.....
67	(a) Centrifugal....1940..number	595	504	128	4	1	2	.....
68	1940..capacity, g.p.m.	1,192,870	1,061,611	322,828	7,000	([6])	([6])	.....
69	1940..average capacity, g.p.m..	2,005	2,106	2,522	1,750	([6])	([6])	.....
70	(b) Turbine....1940..number	27	21	9	2	.....	.....	.....
71	1940..capacity, g.p.m.	66,084	54,872	10,602	([6])	.....	.....	.....
72	1940..average capacity, g.p.m..	2,448	2,613	1,178	([6])	.....	.....	.....
73	(c) Plunger....1940..number	34	16	5	2	.....	.....	.....
74	1940..capacity, g.p.m.	1,869	607	210	([6])	.....	.....	.....
75	1940..average capacity, g.p.m..	55	38	42	([6])	.....	.....	.....
76	(d) Other....1940..number	24	15	1	.....	.....	.....	.....
77	1940..capacity, g.p.m.	48,191	35,641	([6])	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	21	18	22	18	([6])	([6])	.....
79	1930..average, feet	22	19	31	31	6	.....	.....
80	1920..average, feet	20	19	24	25	24	.....	.....
81	from pumped wells....1940..average, feet	24	20	23	([6])	.....	.....	.....
82	from surface sources...1940..average, feet	20	18	22	14	([6])	([6])	.....

[1] Data for 4 enterprises in Dog Creek Drainage Basin (17) (number refers to separate map) are included with Missouri River "Direct" Drainage Basin (1).
[2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

MISSOURI RIVER—Continued														
Jefferson River—Continued									Marias River					
Beaverhead River—Con.														
Blacktail Deer Creek (4)	Ruby River (5)	Big Hole River (6)	Boulder River (7)	Madison River (8)	Gallatin River (9)	Smith River (10)	Sun River (11)	Belt River (12)	Total	Direct (13)	Teton River (14)	Arrow River (15)	Judith River (16)	
5	148	217	86	74	230	90	96	16	198	97	101	26	66	1
619	216	588	213	387	491	308	1,393	24	1,059	1,450	683	172	282	2
36	98	432	74	71	188	105	67	14	197	107	90	32	57	3
.....	41	287	.....	23	159	34	27	.....	49	.....	19	.....	38	4
.....	54	442	48	100	88	66	91	.....	59	.....	21	.....	147	5
30	4	1	1	10	15	.....	1	.....	5	4	1	.....	2	6
6	55	104	6	28	55	.....	3	2	24	7	17	.....	4	7
.....	23	269	38	27	73	92	53	8	139	73	66	6	37	8
.....	16	59	29	6	45	13	10	4	29	23	6	26	14	9
68.0	298.4	470.8	203.5	183.6	493.0	169.8	837.3	10.5	1,406.4	1,015.4	391.0	29.0	159.2	10
.....	203	674	.....	283	818	225	471	.....	901	.....	291	.....	155	11
.....	359	1,612	187	672	1,113	449	512	.....	1,324	.....	378	.....	395	12
68	293	468	202	180	490	169	830	10	1,404	1,013	391	29	157	13
.....	5.4	2.8	1.5	3.6	3.0	0.8	7.3	0.5	2.4	2.4	.....	.....	2.2	14
106	1,307	8,812	688	845	3,008	274	2,604	30	3,938	1,990	1,948	245	732	15
.....	793	3,612	.....	1,005	3,040	603	1,829	.....	2,830	.....	1,383	.....	423	16
.....	1,456	7,171	649	2,709	4,243	983	2,467	.....	5,200	.....	2,566	.....	1,479	17
0.5	0.1	0.2	.....	.....	2.5	1.3	7.8	.....	11.0	9.9	1.1	1.0	.....	18
.....	.....	.....	.....	0.2	0.2	.....	3.3	.....	1.0	.....	.....	.....	1.1	19
.....	.....	.....	.....	.....	0.5	.....	1.2	.....	2.1	.....	0.5	.....	2.4	20
.....	.....	.....	.....	.....	0.1	.....	0.3	.....	3.0	3.0	.....	.....	.....	21
.....	0.1	0.2	.....	.....	1.4	0.2	6.3	.....	7.0	5.9	1.1	.....	.....	22
0.5	.....	.....	.....	.....	1.0	1.1	1.2	.....	1.0	1.0	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	.....	24
.....	11	8	10	1	2	7	3	.....	32	19	13	4	2	25
.....	7	9	.....	6	1	1	5	.....	19	.....	4	.....	3	26
.....	7	8	3	10	5	4	14	.....	22	.....	7	.....	5	27
.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	28
.....	11	2	7	1	1	3	2	.....	28	15	13	4	2	29
.....	.....	6	2	.....	1	4	.....	.....	4	4	.....	.....	.....	30
.....	11	8	12	1	3	7	3	.....	34	20	14	5	3	31
.....	3	.....	10	1	1	7	2	.....	14	10	4	5	2	32
.....	7	8	.....	.....	.....	.....	.....	.....	12	6	6	.....	.....	33
.....	1	.....	2	.....	2	.....	1	.....	8	4	4	.....	1	34
.....	41,069	4,418	10,092	(8)	9,501	31	90,011	.....	277,892	179,839	98,053	130	6,016	35
.....	7	8	.....	7	.....	2	4	.....	22	.....	4	.....	1	36
.....	985	2,965	.....	791	.....	700	127,600	.....	238,320	.....	96,001	.....	1	37
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	3	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	(8)	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000	.....	1,000	.....	.....	43
.....	.....	.....	.....	1	1	.....	.....	.....	4	1	3	.....	1	44
.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	2	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	1	.....	1	46
.....	.....	.....	.....	(8)	(8)	.....	.....	.....	1,995	(8)	1,815	.....	(8)	47
.....	.....	.....	.....	.....	.....	.....	660	.....	1,600	.....	1,600	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	8,010	.....	10	.....	1,500	49
.....	2	.....	1	2	2	.....	41	1	52	36	16	.....	7	50
.....	.....	.....	.....	.....	1	.....	12	.....	15	.....	10	.....	2	51
.....	(8)	.....	(8)	(8)	(8)	.....	640	(8)	1,118	826	292	.....	110	52
.....	.....	.....	.....	.....	15	.....	74	.....	295	.....	112	.....	16	53
.....	.....	.....	110	.....	70	18	326	.....	753	.....	130	.....	72	54
.....	.....	.....	.....	1	1	.....	31	.....	6	2	4	.....	1	55
.....	.....	.....	.....	(8)	(8)	.....	432	.....	87	(8)	52	.....	(8)	56
.....	2	.....	1	1	1	.....	8	1	42	31	11	.....	6	57
.....	(8)	.....	(8)	(8)	(8)	.....	68	(8)	889	651	238	.....	102	58
.....	.....	.....	.....	.....	.....	.....	2	.....	4	3	1	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	(8)	.....	142	140	(8)	.....	.....	60
.....	2	.....	1	2	2	.....	42	1	56	37	19	.....	7	61
.....	.....	.....	.....	.....	1	.....	16	.....	18	.....	13	.....	2	62
.....	.....	.....	2	.....	4	1	20	.....	30	.....	8	.....	16	63
.....	(8)	.....	(8)	(8)	(8)	.....	41,190	(8)	88,916	61,880	27,036	.....	9,260	64
.....	.....	.....	.....	.....	2,300	.....	5,358	.....	16,340	.....	7,800	.....	2,450	65
.....	.....	.....	3,000	.....	5,329	6,000	20,210	.....	50,575	.....	13,410	.....	10,600	66
.....	2	.....	.....	1	.....	.....	41	1	52	36	16	.....	7	67
.....	(8)	.....	.....	(8)	.....	.....	41,115	(8)	86,506	60,480	26,026	.....	9,260	68
.....	(8)	.....	.....	(8)	.....	.....	1,003	(8)	1,664	1,680	1,627	.....	1,323	69
.....	.....	.....	1	.....	1	.....	.....	.....	1	1	.....	.....	.....	70
.....	.....	.....	(8)	.....	(8)	.....	.....	.....	(8)	(8)	.....	.....	.....	71
.....	.....	.....	(8)	.....	(8)	.....	.....	.....	(8)	(8)	.....	.....	.....	72
.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	1	.....	.....	73
.....	.....	.....	.....	(8)	(8)	.....	.....	.....	(8)	.....	(8)	.....	.....	74
.....	.....	.....	.....	(8)	(8)	.....	.....	.....	(8)	.....	(8)	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	1	.....	2	.....	2	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	(8)	.....	(8)	.....	(8)	.....	.....	77
.....	(8)	.....	(8)	(8)	(8)	.....	17	(8)	16	17	15	.....	14	78
.....	.....	.....	.....	.....	13	.....	16	.....	17	.....	17	.....	8	79
.....	.....	.....	24	.....	16	9	15	.....	16	.....	17	.....	11	80
.....	.....	.....	.....	(8)	(8)	.....	.....	.....	7	.....	7	.....	.....	81
.....	(8)	.....	(8)	(8)	(8)	.....	17	(8)	17	17	16	.....	14	82

[4] Includes siphons and farm pipe lines reported.
[5] Total capacity of all reservoirs regardless of size.
[8] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued						
		Musselshell River				Milk River		
		Total	Direct	Boxelder-Flat Willow Creeks	Dry Creek	Total	Direct	Sandy Creek
			(18)	(19)	(20)		(21)	(22)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	255	168	87	12	187	120	12
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	329	333	322	136	1,024	1,294	430
3	Diversion dams....1940..total number	300	180	120	12	175	101	12
4	1930..total number	202	.....	.....	.....	151	25	.....
5	1920..total number	192	.....	.....	.....	201	5	.....
6	(a) Concrete and masonry....1940..number	6	6	.....	.....	32	25	2
7	(b) Timber....1940..number	3	3	.....	.....	3	.....	.....
8	(c) Earth and rock....1940..number	175	72	103	12	116	66	4
9	(d) Other, mixed, and not reported..1940..number	116	99	17	.....	24	10	6
10	Main canals and laterals....1940..total length, miles	680.2	504.2	176.0	20.0	958.0	768.0	36.0
11	1930..total length, miles	615	.....	.....	.....	1,051	748	.....
12	1920..total length, miles	1,152	.....	.....	.....	1,246	33	.....
13	(a) Earth....1940..length, miles	677	501	176	20	951	762	36
14	(b) Lined....1940..length, miles	3.2	3.2	.....	.....	7.0	6.0	.....
15	1940..capacity, c.f.s.[1]	2,920	1,658	1,262	95	3,728	2,360	95
16	1930..capacity, c.f.s.[1]	3,153	.....	.....	.....	4,429	2,230	.....
17	1920..capacity, c.f.s.[1]	4,277	.....	.....	.....	7,416	200	.....
18	Pipe lines[2]....1940..total length, miles	1.1	0.6	0.5	1.1	32.2	31.5	0.2
19	1930..total length, miles	0.4	.....	.....	.....	10.2	10.2	.....
20	1920..total length, miles	.....	.....	.....	.....	1.2	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	3.3	3.1	.....
22	(b) Metal....1940..length, miles	1.1	0.6	0.5	1.1	3.1	2.6	0.2
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	25.8	25.8	.....
25	Storage dams....1940..total number	26	8	18	8	73	34	8
26	1930..total number	14	.....	.....	.....	74	9	.....
27	1920..total number	35	.....	.....	.....	104	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	7	5	1
29	(b) Earth and rock....1940..number	19	7	12	7	66	29	7
30	(c) Other, mixed, and not reported..1940..number	7	1	6	1	.....	.....	.....
31	Reservoirs....1940..total number	35	13	22	8	82	38	8
32	(a) 1-99 acre-feet capacity....1940..number	24	11	13	4	35	19	4
33	(b) 100-999 acre-feet capacity....1940..number	8	1	7	4	28	11	4
34	(c) 1,000 and over acre-feet capacity....1940..number	3	1	2	.....	19	8	.....
35	1940..total capacity, ac.-ft.[3]	32,665	3,809	28,856	1,102	297,423	271,782	2,098
36	1930..total number	9	.....	.....	.....	63	6	.....
37	1930..total capacity, ac.-ft.	30,164	.....	.....	.....	181,490	80,870	.....
38	Wells, flowing....1940..number	1	.....	1	.....	1	.....	.....
39	1930..number	.....	.....	.....	.....	1	.....	.....
40	1920..number	.....	.....	.....	.....	1	.....	.....
41	1940..yield, g.p.m.	(4)	.....	(4)	.....	(4)	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	8	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	50	.....	.....
44	Wells, pumped....1940..number	11	11	.....	.....	11	4	2
45	1930..number	5	.....	.....	.....	3	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	3,785	3,785	.....	.....	6,226	2,826	(4)
48	1930..yield, g.p.m.	2,765	.....	.....	.....	4,176	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	46	37	9	.....	78	55	5
51	1930..total number	19	.....	.....	.....	19	7	.....
52	Prime movers....1940..capacity, hp.	708	511	197	.....	1,379	1,092	39
53	1930..capacity, hp.	234	.....	.....	.....	454	230	.....
54	1920..capacity, hp.	178	.....	.....	.....	377	70	.....
55	(a) Electric....1940..number	8	8	.....	.....	8	7	.....
56	1940..capacity, hp.	91	91	.....	.....	314	284	.....
57	(b) Internal-combustion....1940..number	37	29	8	.....	68	48	5
58	1940..capacity, hp.	581	420	161	.....	1,063	808	39
59	(c) Other....1940..number	1	.....	1	.....	2	.....	.....
60	1940..capacity, hp.	(4)	.....	(4)	.....	.....	.....	.....
61	Pumps....1940..total number	48	39	9	.....	83	59	5
62	1930..number	19	.....	.....	.....	23	11	.....
63	1920..number	12	.....	.....	.....	23	4	.....
64	1940..capacity, g.p.m.	62,275	47,525	14,750	.....	134,310	110,802	4,400
65	1930..capacity, g.p.m.	18,713	.....	.....	.....	56,654	35,810	.....
66	1920..capacity, g.p.m.	16,250	.....	.....	.....	24,345	2,570	.....
67	(a) Centrifugal....1940..number	44	35	9	.....	73	55	3
68	1940..capacity, g.p.m.	55,325	40,575	14,750	.....	131,326	109,326	4,200
69	1940..average capacity, g.p.m.	1,257	1,159	1,639	.....	1,799	1,988	1,400
70	(b) Turbine....1940..number	.....	.....	.....	.....	2	1	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	(4)	(4)	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	(4)	(4)	.....
73	(c) Plunger....1940..number	1	1	.....	.....	6	1	2
74	1940..capacity, g.p.m.	(4)	(4)	.....	.....	288	(4)	(4)
75	1940..average capacity, g.p.m.	(4)	(4)	.....	.....	48	(4)	(4)
76	(d) Other....1940..number	3	3	.....	.....	2	2	.....
77	1940..capacity, g.p.m.	6,900	6,900	.....	.....	(4)	(4)	.....
78	Pumping lift, from all sources....1940..average, feet	14	14	17	.....	18	17	23
79	1930..average, feet	14	.....	.....	.....	17	14	.....
80	1920..average, feet	19	.....	.....	.....	16	18	.....
81	from pumped wells....1940..average, feet	14	14	.....	.....	27	19	(4)
82	from surface sources...1940..average, feet	14	14	17	.....	17	17	24

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued												
Milk River—Continued									Yellowstone River			
Clear Creek (23)	Lodge-Battle Creeks (24)	Snake Creek (25)	Frenchman Creek (26)	Beaver Creek (27)	Rock Creek (28)	Redwater Creek (29)	Poplar River (30)	Big Muddy Creek (31)	Total	Direct (33)	Shields River (34)	
16	16	5	6	8	4	22	8	4	1,085	466	122	1
130	274	324	645	1,171	2,404	142	98	118	600	665	301	2
13	29	6	6	7	1	6	3	5	983	379	193	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	598	23	161	4
.....	.....	13	.....	.....	.....	.....	.....	.....	449	14	88	5
2	2	.....	1	.....	.....	.....	.....	.....	70	21	1	6
.....	.....	3	.....	.....	.....	.....	.....	.....	149	54	39	7
7	27	.....	5	7	.....	6	3	5	415	158	55	8
4	.....	3	.....	.....	1	.....	.....	.....	349	146	98	9
35.6	53.2	5.1	12.0	34.1	14.0	22.0	7.0	4.0	3,845.2	1,714.7	263.6	10
.....	.....	.....	.....	.....	.....	.....	.....	.....	3,995	1,096	453	11
.....	.....	61	.....	.....	.....	.....	.....	.....	4,683	1,167	532	12
35	53	5	12	34	14	22	7	4	3,816	1,699	255	13
0.6	0.2	0.1	.....	0.1	.....	.....	.....	.....	29.2	15.7	8.6	14
53	341	37	29	70	743	98	40	13	15,547	7,769	905	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	15,936	5,349	1,166	16
.....	.....	72	.....	.....	.....	.....	.....	.....	19,605	5,508	1,620	17
.....	0.3	0.2	.....	.....	.....	.....	.....	.....	20.1	15.3	0.1	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	2.4	1.0	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	2.7	2.0	.....	20
.....	.....	0.2	.....	.....	.....	.....	.....	.....	2.8	2.7	.....	21
.....	0.3	.....	.....	.....	.....	.....	.....	.....	12.0	8.4	0.1	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	3.5	2.4	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	1.8	1.8	.....	24
2	10	2	.....	16	1	17	1	1	92	60	2	25
.....	.....	1	.....	.....	.....	.....	.....	.....	40	2	2	26
.....	.....	6	.....	.....	.....	.....	.....	.....	86	11	1	27
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
2	9	2	.....	16	1	16	1	.....	87	57	2	29
.....	.....	.....	.....	.....	.....	1	.....	1	5	3	.....	30
3	14	2	.....	16	1	21	1	1	98	61	2	31
1	7	1	.....	2	1	17	1	.....	62	37	1	32
2	5	1	.....	5	.....	4	.....	1	27	18	1	33
.....	2	.....	.....	9	.....	.....	.....	.....	9	6	.....	34
571	10,908	(4)	.....	11,809	(4)	2,145	(4)	(4)	136,697	42,364	(4)	35
.....	.....	1	.....	.....	.....	.....	.....	.....	29	2	1	36
.....	.....	5	.....	.....	.....	.....	.....	.....	17,068	1,700	800	37
.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	18	3	.....	40
.....	.....	(4)	.....	.....	.....	.....	.....	.....	(4)	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	300	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	188	69	.....	43
.....	.....	.....	2	3	.....	.....	.....	.....	7	6	1	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	46
.....	.....	.....	(4)	100	.....	.....	.....	.....	2,538	2,238	(4)	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	555	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	40	49
.....	6	.....	5	5	2	2	4	2	150	113	1	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	46	27	1	51
.....	80	.....	88	40	(4)	(4)	26	(4)	8,000	7,327	(4)	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	3,136	2,952	20	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	3,173	2,501	.....	54
.....	.....	.....	.....	.....	1	.....	.....	.....	12	11	.....	55
.....	.....	.....	.....	.....	(4)	.....	.....	.....	4,155	4,125	.....	56
.....	6	.....	5	3	1	2	4	2	129	93	1	57
.....	80	.....	88	38	(4)	(4)	26	(4)	2,896	2,253	(4)	58
.....	.....	.....	.....	2	.....	.....	.....	.....	9	9	.....	59
.....	.....	.....	.....	(4)	.....	.....	.....	.....	949	949	.....	60
.....	6	.....	6	5	2	2	4	2	159	121	1	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	58	36	1	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	90	45	.....	63
.....	7,180	.....	6,500	2,378	(4)	(4)	2,330	(4)	458,204	408,524	(4)	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	261,894	245,249	4,000	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	166,553	127,662	.....	66
.....	5	.....	6	2	2	2	4	2	145	110	1	67
.....	5,900	.....	6,500	(4)	(4)	(4)	2,330	(4)	398,311	353,531	(4)	68
.....	1,180	.....	1,083	(4)	(4)	(4)	582	(4)	2,747	3,214	(4)	69
.....	1	.....	.....	.....	.....	.....	.....	.....	7	5	.....	70
.....	(4)	.....	.....	.....	.....	.....	.....	.....	34,690	31,090	.....	71
.....	(4)	.....	.....	.....	.....	.....	.....	.....	4,956	6,218	.....	72
.....	.....	.....	.....	3	.....	.....	.....	.....	1	1	.....	73
.....	.....	.....	.....	28	.....	.....	.....	.....	(4)	(4)	.....	74
.....	.....	.....	.....	9	.....	.....	.....	.....	(4)	(4)	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	6	5	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	25,200	23,900	.....	77
.....	13	.....	18	35	(4)	(4)	16	(4)	17	19	(4)	78
.....	.....	.....	.....	.....	.....	.....	.....	.....	18	22	14	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	19	24	.....	80
.....	.....	.....	(4)	66	.....	.....	.....	.....	13	16	(4)	81
.....	13	.....	18	19	(4)	(4)	16	(4)	18	19	.....	82

[3]Total capacity of all reservoirs regardless of size.
[4]Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued					
		Yellowstone River—Continued					
			Stillwater River				
					Fishtail-West Rosebud Creeks		
		Boulder River (35)	Total	Direct (36)	Total	Direct (37)	East Rosebud Creek (38)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	46	118	42	76	40	36
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	400	242	232	248	226	272
3	Diversion dams....1940..total number	14	101	32	69	27	42
4	1930..total number	3	57	.....	.....	.....	.....
5	1920..total number	.....	16	.....	.....	.....	.....
6	(a) Concrete and masonry....1940..number	2	16	1	15	.....	15
7	(b) Timber....1940..number	4	11	2	9	1	8
8	(c) Earth and rock....1940..number	5	53	22	31	25	6
9	(d) Other, mixed, and not reported..1940..number	3	21	7	14	1	13
10	Main canals and laterals....1940..total length, miles	127.0	358.0	74.4	283.6	51.0	232.6
11	1930..total length, miles	93	332	.....	.....	.....	.....
12	1920..total length, miles	.....	346	.....	.....	.....	.....
13	(a) Earth....1940..length, miles	127	357	74	283	51	232
14	(b) Lined....1940..length, miles	.....	1.0	0.4	0.6	.....	0.6
15	1940..capacity, c.f.s.[1]	686	1,019	379	640	248	392
16	1930..capacity, c.f.s.[1]	524	1,168	.....	.....	.....	.....
17	1920..capacity, c.f.s.[1]	.....	1,357	.....	.....	.....	.....
18	Pipe lines[2]....1940..total length, miles	.....	0.9	.....	0.9	.....	0.9
19	1930..total length, miles	.....	.....	.....	.....	.....	.....
20	1920..total length, miles	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	.....	.....	.....	.....	.....
23	(c) Wood-stave....1940..length, miles	.....	0.9	.....	0.9	.....	0.9
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	.....	.....	.....	.....	.....	.....
26	1930..total number	.....	1	.....	.....	.....	.....
27	1920..total number	.....	2	.....	.....	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	.....	.....	.....	.....	.....	.....
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	.....	.....	.....	.....	.....	.....
32	(a) 1-99 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]	.....	.....	.....	.....	.....	.....
36	1930..total number	.....	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	.....	.....	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	.....	.....	.....	.....
45	1930..number	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	1	.....	.....	.....	.....	.....
51	1930..total number	.....	1	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp.	(4)	.....	.....	.....	.....	.....
53	1930..capacity, hp.	.....	9	.....	.....	.....	.....
54	1920..capacity, hp.	.....	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp.	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	1	.....	.....	.....	.....	.....
58	1940..capacity, hp.	(4)	.....	.....	.....	.....	.....
59	(c) Other....1940..number	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp.	.....	.....	.....	.....	.....	.....
61	Pumps....1940..total number	1	.....	.....	.....	.....	.....
62	1930..number	.....	1	.....	.....	.....	.....
63	1920..number	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.	(4)	.....	.....	.....	.....	.....
65	1930..capacity, g.p.m.	.....	160	.....	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	1	.....	.....	.....	.....	.....
68	1940..capacity, g.p.m.	(4)	.....	.....	.....	.....	.....
69	1940..average capacity, g.p.m.	(4)	.....	.....	.....	.....	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	(4)	.....	.....	.....	.....	.....
79	1930..average, feet	.....	12	.....	.....	.....	.....
80	1920..average, feet	.....	.....	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	(4)	.....	.....	.....	.....	.....

[*] Data for 2 enterprises in Little Powder River Drainage Basin (47) (number refers to separate map) are included with Powder River Drainage Basin (46).
[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued												
Yellowstone River—Continued												
Clarks Fork (Yellowstone)			Big Horn River				Rosebud Creek	Tongue River	Powder River[3]		O'Fallon Creek	
Total	Direct (39)	Red Lodge-Rock Creeks (40)	Total	Direct (41)	Shoshone River-Sage Creek (42)	Little Horn River (43)	(44)	(45)	Total	Direct (46)	(48)	
207	41	166	40	13	9	18	7	47	25	25	7	1
464	881	361	3,416	8,942	138	1,064	159	410	153	153	145	2
176	28	148	24	7	3	14	6	65	22	22	3	3
47	.....	.....	18	.....	.....	.....	.....	28	8	.....	.....	4
101	.....	.....	45	.....	.....	.....	.....	23	17	.....	.....	5
27	3	24	.....	.....	.....	.....	2	1	.....	.....	.....	6
36	.....	36	3	.....	2	1	.....	2	.....	.....	.....	7
66	14	52	10	4	.....	6	2	43	22	22	1	8
47	11	36	11	3	1	7	2	19	.....	.....	2	9
746.0	153.6	592.4	434.6	292.4	22.2	120.0	21.0	153.2	21.1	21.1	6.0	10
727	.....	.....	439	.....	.....	.....	.....	93	3	.....	.....	11
924	.....	.....	416	.....	.....	.....	.....	158	26	.....	.....	12
745	153	592	433	291	22	120	21	152	21	21	6	13
1.0	0.6	0.4	1.6	1.4	0.2	.....	.....	1.2	0.1	0.1	.....	14
2,698	1,067	1,631	1,340	977	38	325	68	929	102	102	31	15
3,693	.....	.....	1,110	.....	.....	.....	.....	429	18	.....	.....	16
3,139	.....	.....	1,675	.....	.....	.....	.....	974	111	.....	.....	17
0.9	0.5	0.4	0.3	0.2	.....	0.1	.....	0.3	2.3	2.3	.....	18
0.4	.....	.....	.....	.....	.....	.....	.....	1.0	.....	.....	.....	19
.....	.....	.....	0.1	.....	.....	.....	.....	0.1	.....	.....	.....	20
0.1	0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
0.6	0.2	0.4	0.3	0.2	.....	0.1	.....	0.3	2.3	2.3	.....	22
0.2	0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
4	2	2	2	.....	.....	2	.....	8	12	12	4	25
.....	.....	.....	.....	.....	.....	.....	.....	4	3	.....	.....	26
5	.....	.....	1	.....	.....	.....	.....	12	13	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
2	2	.....	2	.....	.....	2	.....	8	12	12	4	29
2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
4	2	2	2	.....	.....	2	.....	10	14	14	5	31
2	2	.....	1	.....	.....	1	.....	8	10	10	3	32
.....	.....	.....	1	.....	.....	1	.....	1	4	4	2	33
2	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	34
31,020	(4)	(4)	(4)	.....	.....	(4)	.....	60,535	1,044	1,044	904	35
.....	.....	.....	1	.....	.....	.....	.....	2	4	.....	.....	36
.....	.....	.....	2	.....	.....	.....	.....	10	60	.....	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	38
1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	15	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	(4)	(4)	.....	41
100	.....	.....	.....	.....	.....	.....	.....	.....	200	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	119	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	49
4	4	.....	4	2	.....	2	3	20	4	4	.....	50
2	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	51
86	86	.....	50	(4)	.....	(4)	60	307	142	142	.....	52
12	.....	.....	.....	.....	.....	.....	.....	96	.....	.....	.....	53
10	.....	.....	38	.....	.....	.....	.....	286	221	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	.....	.....	56
4	4	.....	4	2	.....	2	3	19	4	4	.....	57
86	86	.....	50	(4)	.....	(4)	60	277	142	142	.....	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
4	4	.....	4	2	.....	2	3	20	5	5	.....	61
2	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	62
2	.....	.....	3	.....	.....	.....	.....	16	13	.....	.....	63
3,995	3,995	.....	5,400	(4)	.....	(4)	2,040	24,000	12,745	12,745	.....	64
1,410	.....	.....	.....	.....	.....	.....	.....	5,900	.....	.....	.....	65
470	.....	.....	1,850	.....	.....	.....	.....	14,575	13,365	.....	.....	66
4	4	.....	3	1	.....	2	3	18	5	5	.....	67
3,995	3,995	.....	4,200	(4)	.....	(4)	2,040	20,300	12,745	12,745	.....	68
999	999	.....	1,400	(4)	.....	(4)	680	1,128	2,549	2,549	.....	69
.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	70
.....	.....	.....	(4)	(4)	.....	.....	.....	(4)	.....	.....	.....	71
.....	.....	.....	(4)	(4)	.....	.....	.....	(4)	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	.....	.....	77
22	22	.....	13	(4)	.....	(4)	18	14	12	12	.....	78
9	.....	.....	.....	.....	.....	.....	.....	12	.....	.....	.....	79
8	.....	.....	17	.....	.....	.....	.....	15	15	.....	.....	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
22	22	.....	13	(4)	.....	(4)	18	14	12	12	.....	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION – MONTANA

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		MISSOURI RIVER—Continued			COLUMBIA RIVER			
			Little Missouri River					Lower Clark Fork	
			Total	Direct[1] (49)	Beaver Creek (52)	Total	Kootenai River (54)	Total	Direct[2] (55)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	16	9	7	1,801	162	1,639	294
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	115	164	51	225	55	241	109
3	Diversion dams	1940..total number	5	3	2	2,123	164	1,959	327
4		1930..total number	14	.....	.....	479	85	394	6
5		1920..total number	12	.....	.....	740	30	710	1
6	(a) Concrete and masonry	1940..number	.....	.....	.....	34	6	28	8
7	(b) Timber	1940..number	.....	.....	.....	456	78	378	89
8	(c) Earth and rock	1940..number	3	1	2	1,017	52	965	176
9	(d) Other, mixed, and not reported	1940..number	2	2	.....	616	28	588	54
10	Main canals and laterals	1940..total length, miles	8.0	5.0	3.0	3,879.8	148.3	3,731.5	343.4
11		1930..total length, miles	5	.....	.....	3,489	106	3,383	118
12		1920..total length, miles	29	.....	.....	4,346	119	4,227	74
13	(a) Earth	1940..length, miles	8	5	3	3,819	140	3,679	335
14	(b) Lined	1940..length, miles	.....	.....	.....	60.8	8.3	52.5	8.4
15		1940..capacity, c.f.s.[3]	51	33	18	11,458	437	11,021	1,307
16		1930..capacity, c.f.s.[3]	54	.....	.....	7,297	266	7,031	426
17		1920..capacity, c.f.s.[3]	70	.....	.....	15,614	1,095	14,519	1,300
18	Pipe lines[4]	1940..total length, miles	0.1	.....	0.1	56.3	8.8	47.5	13.1
19		1930..total length, miles	2.0	.....	.....	38.2	4.9	33.3	0.3
20		1920..total length, miles	.....	.....	.....	30.4	3.6	26.8	1.5
21	(a) Concrete	1940..length, miles	.....	.....	.....	4.6	.....	4.6	.....
22	(b) Metal	1940..length, miles	0.1	.....	0.1	36.2	3.2	33.0	8.5
23	(c) Wood-stave	1940..length, miles	.....	.....	.....	15.3	5.6	9.7	4.5
24	(d) Other	1940..length, miles	.....	.....	.....	0.2	.....	0.2	0.1
25	Storage dams	1940..total number	10	5	5	110	12	98	15
26		1930..total number	12	.....	.....	63	6	57	2
27		1920..total number	7	.....	.....	109	7	102	.....
28	(a) Concrete and masonry	1940..number	.....	.....	.....	10	.....	10	.....
29	(b) Earth and rock	1940..number	9	4	5	74	4	70	12
30	(c) Other, mixed, and not reported	1940..number	1	1	.....	26	8	18	.....
31	Reservoirs	1940..total number	14	5	9	115	10	105	16
32	(a) 1-99 acre-feet capacity	1940..number	10	2	8	58	9	49	11
33	(b) 100-999 acre-feet capacity	1940..number	4	3	1	33	.....	33	5
34	(c) 1,000 and over acre-feet capacity	1940..number	.....	.....	.....	24	1	23	.....
35		1940..total capacity, ac.-ft.[5]	1,183	914	269	239,740	3,107	236,633	822
36		1930..total number	4	.....	.....	55	3	52	1
37		1930..total capacity, ac.-ft.	120	.....	.....	163,044	6,503	156,541	500
38	Wells, flowing	1940..number	.....	.....	.....	39	.....	39	1
39		1930..number	.....	.....	.....	37	.....	37	.....
40		1920..number	.....	.....	.....	13	2	11	.....
41		1940..yield, g.p.m.	.....	.....	.....	9,600	.....	9,600	(6)
42		1930..yield, g.p.m.	.....	.....	.....	3,798	.....	3,798	.....
43		1920..yield, g.p.m.	.....	.....	.....	3,363	30	3,333	.....
44	Wells, pumped	1940..number	.....	.....	.....	37	3	34	14
45		1930..number	.....	.....	.....	17	.....	17	7
46		1920..number	.....	.....	.....	3	.....	3	.....
47		1940..yield, g.p.m.	.....	.....	.....	10,738	740	9,998	3,888
48		1930..yield, g.p.m.	.....	.....	.....	5,903	.....	5,903	1,200
49		1920..yield, g.p.m.	.....	.....	.....	80	.....	80	.....
50	Pumping plants	1940..total number	1	1	.....	125	8	117	32
51		1930..total number	.....	.....	.....	44	4	40	5
52	Prime movers	1940..capacity, hp.	(6)	(6)	.....	10,114	39	10,075	243
53		1930..capacity, hp.	.....	.....	.....	340	11	329	53
54		1920..capacity, hp.	.....	.....	.....	283	.....	283	.....
55	(a) Electric	1940..number	.....	.....	.....	62	.....	62	16
56		1940..capacity, hp.	.....	.....	.....	9,578	.....	9,578	103
57	(b) Internal-combustion	1940..number	1	1	.....	57	6	51	15
58		1940..capacity, hp.	(6)	(6)	.....	421	32	389	125
59	(c) Other	1940..number	.....	.....	.....	6	2	4	1
60		1940..capacity, hp.	.....	.....	.....	115	(6)	108	(6)
61	Pumps	1940..total number	1	1	.....	124	8	116	31
62		1930..number	.....	.....	.....	45	4	41	5
63		1920..number	.....	.....	.....	28	1	27	.....
64		1940..capacity, g.p.m.	(6)	(6)	.....	156,283	2,480	153,803	16,168
65		1930..capacity, g.p.m.	.....	.....	.....	25,405	4,650	20,755	1,930
66		1920..capacity, g.p.m.	.....	.....	.....	12,452	5	12,447	.....
67	(a) Centrifugal	1940..number	1	1	.....	91	5	86	21
68		1940..capacity, g.p.m.	(6)	(6)	.....	131,259	1,880	129,379	9,930
69		1940..average capacity, g.p.m.	(6)	(6)	.....	1,442	376	1,504	473
70	(b) Turbine	1940..number	.....	.....	.....	6	.....	6	4
71		1940..capacity, g.p.m.	.....	.....	.....	11,212	.....	11,212	5,740
72		1940..average capacity, g.p.m.	.....	.....	.....	1,869	.....	1,869	1,435
73	(c) Plunger	1940..number	.....	.....	.....	18	2	16	3
74		1940..capacity, g.p.m.	.....	.....	.....	1,262	(6)	1,112	280
75		1940..average capacity, g.p.m.	.....	.....	.....	70	(6)	70	93
76	(d) Other	1940..number	.....	.....	.....	9	1	8	3
77		1940..capacity, g.p.m.	.....	.....	.....	12,550	(6)	12,100	218
78	Pumping lift, from all sources	1940..average, feet	(6)	(6)	.....	32	15	33	26
79		1930..average, feet	.....	.....	.....	28	15	29	30
80		1920..average, feet	.....	.....	.....	31	10	8	8
81	from pumped wells	1940..average, feet	.....	.....	.....	29	15	30	36
82	from surface sources	1940..average, feet	(6)	(6)	.....	33	15	34	20

[1] Data for 2 enterprises in Boxelder Creek Drainage Basin (50) (number refers to separate map) and 1 enterprise in Little Beaver Creek Drainage Basin (51) are included with Little Missouri River "Direct" Drainage Basin (49). [2] Data for the 1930 and 1920 Censuses for Upper Clark Fork Drainage Basin (58) (number refers to separate map) are included with Lower Clark Fork "Direct" Drainage Basin (55). [3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4] Includes siphons and farm pipe lines reported. [5] Total capacity of all reservoirs regardless of size. [6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued						
		Lower Clark Fork—Continued						
					Flathead River			
		Upper Clark Fork[1] (56)	Blackfoot River (57)	Bitterroot River (58)	Total	Direct (59)	Swan River (60)	Little Bitterroot River (61)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	412	131	505	297	239	23	35
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	219	306	238	381	414	41	374
3	Diversion dams....1940..total number	696	208	556	172	133	22	17
4	1930..total number	.....	78	67	87	.....	.....	.....
5	1920..total number	.....	137	173	100	.....	.....	.....
6	(a) Concrete and masonry....1940..number	4	3	4	9	7	1	1
7	(b) Timber....1940..number	100	71	47	71	49	20	2
8	(c) Earth and rock....1940..number	329	93	306	61	48	1	12
9	(d) Other, mixed, and not reported..1940..number	263	41	199	31	29	.....	2
10	Main canals and laterals....1940..total length, miles	1,046.8	222.7	918.9	1,199.7	1,046.1	18.0	135.6
11	1930..total length, miles	.....	272	963	1,089	.....	.....	.....
12	1920..total length, miles	.....	412	1,028	1,131	.....	.....	.....
13	(a) Earth....1940..length, miles	1,040	221	906	1,177	1,027	18	132
14	(b) Lined....1940..length, miles	6.8	1.7	12.9	22.7	19.1	.....	3.6
15	1940..capacity, c.f.s.[2]	3,644	1,025	3,475	1,570	1,276	70	224
16	1930..capacity, c.f.s.[2]	.....	751	2,689	1,115	.....	.....	.....
17	1920..capacity, c.f.s.[2]	.....	2,378	4,073	1,221	.....	.....	.....
18	Pipe lines[3]....1940..total length, miles	3.4	1.3	3.1	26.6	24.3	2.2	0.1
19	1930..total length, miles	.....	0.8	2.9	21.8	.....	.....	.....
20	1920..total length, miles	.....	0.4	3.4	8.1	.....	.....	.....
21	(a) Concrete....1940..length, miles	0.2	.....	0.2	4.2	4.2	.....	.....
22	(b) Metal....1940..length, miles	1.8	1.1	2.7	18.9	17.4	1.4	0.1
23	(c) Wood-stave....1940..length, miles	1.4	0.2	0.2	3.4	2.6	0.8	.....
24	(d) Other....1940..length, miles	.....	.....	.....	0.1	0.1	.....	.....
25	Storage dams....1940..total number	29	5	22	27	20	4	3
26	1930..total number	.....	1	18	17	.....	.....	.....
27	1920..total number	.....	10	37	23	.....	.....	.....
28	(a) Concrete and masonry....1940..number	1	.....	1	5	3	2	.....
29	(b) Earth and rock....1940..number	26	4	12	16	13	.....	3
30	(c) Other, mixed, and not reported..1940..number	2	1	9	6	4	2	.....
31	Reservoirs....1940..total number	29	5	22	33	24	5	4
32	(a) 1-99 acre-feet capacity....1940..number	15	4	2	17	12	5	.....
33	(b) 100-999 acre-feet capacity....1940..number	12	.....	16	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	2	1	4	16	12	.....	4
35	1940..total capacity, ac.-ft.[4]	25,483	12,099	46,297	151,932	115,062	45	36,825
36	1930..total number	.....	1	14	18	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	40	46,453	104,828	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	38	2	.....	36
39	1930..number	.....	1	.....	36	.....	.....	.....
40	1920..number	.....	.....	.....	10	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	9,500	(5)	.....	8,950
42	1930..yield, g.p.m.	.....	125	.....	3,673	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	1,083	.....	.....	.....
44	Wells, pumped....1940..number	7	.....	2	11	10	.....	1
45	1930..number	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	3,410	.....	(5)	1,975	1,475	.....	(5)
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	12	2	5	66	64	.....	2
51	1930..total number	.....	2	.....	18	.....	.....	.....
52	Prime movers....1940..capacity, hp	120	(5)	21	9,626	9,521	.....	(5)
53	1930..capacity, hp	.....	26	.....	160	.....	.....	.....
54	1920..capacity, hp	.....	16	12	177	.....	.....	.....
55	(a) Electric....1940..number	7	1	.....	38	37	.....	1
56	1940..capacity, hp	54	(5)	.....	9,361	9,261	.....	(5)
57	(b) Internal-combustion....1940..number	4	1	5	26	25	.....	1
58	1940..capacity, hp	65	(5)	21	173	168	.....	(5)
59	(c) Other....1940..number	1	.....	.....	2	2	.....	.....
60	1940..capacity, hp	(5)	.....	.....	(5)	(5)	.....	.....
61	Pumps....1940..total number	11	2	5	67	65	.....	2
62	1930..number	.....	2	.....	18	.....	.....	.....
63	1920..number	.....	1	1	16	.....	.....	.....
64	1940..capacity, g.p.m.	9,160	(5)	1,695	124,780	120,308	.....	(5)
65	1930..capacity, g.p.m.	.....	1,702	.....	11,160	.....	.....	.....
66	1920..capacity, g.p.m.	.....	650	1,406	9,165	.....	.....	.....
67	(a) Centrifugal....1940..number	11	1	3	50	49	.....	1
68	1940..capacity, g.p.m.	9,160	(5)	1,300	108,489	107,989	.....	(5)
69	1940..average capacity, g.p.m.	833	(5)	433	2,170	2,204	.....	(5)
70	(b) Turbine....1940..number	.....	1	.....	1	.....	.....	1
71	1940..capacity, g.p.m.	.....	(5)	.....	(5)	.....	.....	(5)
72	1940..average capacity, g.p.m.	.....	(5)	.....	.....	.....	.....	(5)
73	(c) Plunger....1940..number	.....	.....	1	12	12	.....	.....
74	1940..capacity, g.p.m.	.....	.....	(5)	562	562	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	(5)	47	47	.....	.....
76	(d) Other....1940..number	.....	.....	1	4	4	.....	.....
77	1940..capacity, g.p.m.	.....	.....	(5)	11,757	11,757	.....	.....
78	Pumping lift, from all sources....1940..average, feet	24	(5)	13	39	39	.....	(5)
79	1930..average, feet	.....	42	.....	23	.....	.....	.....
80	1920..average, feet	.....	12	7	37	.....	.....	.....
81	from pumped wells....1940..average, feet	32	.....	(5)	23	23	.....	(5)
82	from surface sources...1940..average, feet	14	(5)	15	42	42	.....	(5)

[1] Data for the 1930 and 1920 Censuses for Upper Clark Fork Drainage Basin (58) (number refers to separate map) are included with Lower Clark Fork "Direct" Drainage Basin (55). [2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [3] Includes siphons and farm pipe lines reported. [4] Total capacity of all reservoirs regardless of size. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Beaverhead		Big Horn	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms.....1940...number.....	41,823		457		1,103	
2	1930...number.....	47,495		581		1,086	
3	Irrigated farms.....1940...number.....	15,087		407		511	
4	1930...number.....	11,925		481		420	
5	Increase or decrease (-), 1930-1940.....percent....	26.5		-15.4		21.7	
	Operated by—						
6	(a) Owners and managers.....1940...number.....	10,858		341		196	
7	1930...number.....	8,701		410		231	
8	(b) Tenants.....1940...number.....	4,229		66		315	
9	1930...number.....	3,224		71		189	
10	Land in all farms.....1940...acres.....	46,451,594		1,294,488		1,646,014	
11	Land in irrigated farms.....1940...acres.....	16,022,060		1,257,327		448,528	
12	Average per farm.....1940...acres.....	1,062		3,089		878	
13	(a) Operated by owners and managers.....1940...acres.....	14,015,361		1,193,301		363,149	
14	Average per farm.....1940...acres.....	1,291		3,499		1,853	
15	(b) Operated by tenants.....1940...acres.....	2,006,699		64,026		85,379	
16	Average per farm.....1940...acres.....	475		970		271	
17	Approximate land area.....1940...acres.....	[2] 93,642,240		3,555,840		3,221,120	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	1,711,409		209,548		56,380	
19	(a) Cropland harvested.....1939...acres.....	1,501,878		192,414		53,523	
20	(b) Crop failure.....1939...acres.....	7,844		25		69	
21	(c) Pasture.....1939...acres.....	201,687		17,109		2,788	
22	Area irrigated.....1929...acres.....	1,594,912		250,895		43,492	
23	1919...acres.....	1,681,729		302,375		48,306	
24	Increase or decrease (-), 1929-1939.....percent....	7.3		-16.5		29.6	
25	Irrigable area in enterprises.....1940...acres.....	2,588,214		230,743		149,446	
26	1930...acres.....	2,622,423		289,704		86,437	
27	1920[3]..acres.....	4,329,148		525,181		87,765	
28	Excess of irrigable area over the area irrigated..1940...acres.....	876,805		21,195		93,066	
29	1930...acres.....	1,027,511		38,809		42,945	
30	Area works were capable of supplying with water...1940...acres.....	2,344,390		226,343		138,167	
31	1930...acres.....	2,276,000		275,300		76,773	
32	1920...acres.....	2,753,498		385,619		60,591	
33	Increase or decrease (-), 1930-1940.....percent....	3.0		-17.8		80.0	
34	Excess, capability of works over area irrigated...1940...acres.....	632,981		16,795		81,787	
35	1930...acres.....	681,088		24,405		33,281	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	10.7		16.7		12.6	
37	1929...percent....	13.3		26.2		6.8	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	73.0		92.6		40.8	
39	1929...percent....	70.1		91.1		56.7	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	67,352,505		992,068		2,891,329	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	66,830,409		949,008		2,888,753	
42	(b) Investment in water rights (reported).....1940...dollars....	522,096		43,060		2,576	
43	Total investment in all enterprises.....1930...dollars....	50,319,204		1,489,426		2,360,156	
44	1920...dollars....	52,143,363		2,385,045		2,311,418	
45	Increase or decrease (-), 1930-1940.....percent....	33.9		-33.4		22.5	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	28.73		4.38		20.93	
47	1930...dollars....	22.11		5.41		30.74	
48	1920...dollars....	18.94		6.18		38.15	
49	Average investment per acre irrigated.....1939...dollars....	39.36		4.73		51.28	
50	Estimated final investment in existing enterprises..1940...dollars....	75,174,645		1,020,538		3,964,348	
51	1930...dollars....	58,489,575		1,494,726		2,967,656	
52	1920...dollars....	70,079,028		2,433,395		2,686,470	
53	Increase or decrease (-), 1930-1940.....percent....	28.5		-31.7		33.6	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	29.04		4.42		26.53	
55	1930...dollars....	22.30		5.16		34.33	
56	1920[3]..dollars....	16.19		4.63		30.61	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental	Primary Enterprises	Supplemental	Primary Enterprises	Supplemental
57	Enterprises reporting maintenance and operation...1939...number.....	4,837	53	297	3	34	1
58	Area irrigated in these enterprises.....1939...acres.....	1,650,373	168,762	201,865	61,160	56,330	([5])
59	Cost of maintenance and operation.....1939...dollars....	1,180,189	20,908	40,559	5,699	87,602	([5])
60	Average cost, per acre irrigated.....1939...dollars....	0.72	0.12	0.20	0.09	1.56	([5])
61	1929...dollars....	0.87	.....	0.32	.....	1.86	.....
62	Total annual charges (reported)[6] [7].....1939...dollars....	1,057,500	93,290	6,069	8,900	73,959	30
63	Average annual charge per acre irrigated.....1939...dollars....	1.18	0.65	0.45	0.15	1.37	0.10
64	Area against which charges were assessed.....1939...acres.....	1,065,494	176,956	15,060	61,000	76,454	300
65	Average annual charge per acre assessed.....1939...dollars....	0.99	0.53	0.40	0.15	0.97	0.10
66	Total charges collected[6].....1939...dollars....	729,103	65,214	5,022	8,989	29,078	13
67	Indebtedness to December 31 (reported)[7].....1939...dollars....	41,968,921	2,573,360	295	125,390	2,383,795	5,663
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	4,945	45	326	3	30	.....
69	Area irrigated in these enterprises.....1939...acres.....	1,524,390	123,469	195,192	61,160	22,058	.....
70	Water delivered in these enterprises.....1939...acre-feet..	3,214,146	155,543	515,029	96,940	43,361	.....
71	Average water delivered per acre irrigated....1939...acre-feet..	2.1	1.3	2.6	1.6	2.0	.....
72	Average cost of water per acre irrigated.....1939...dollars....	0.84	0.70	0.21	0.15	0.98	.....
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	205	.....	.....	.....	3	.....
74	Irrigable area in these enterprises.....1939...acres.....	822,140	.....	.....	.....	143,360	.....
75	Irrigated area in these enterprises.....1939...acres.....	473,604	.....	.....	.....	52,750	.....
76	Area for which drains have been installed.....1939...acres.....	147,151	.....	.....	.....	21,800	.....
77	Additional area needing drainage.....1939...acres.....	52,071	.....	.....	.....	6,600	.....

*Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[2] Includes 172,100 acres in Yellowstone National Park (part of) not shown in detail.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Blaine	Broadwater		Carbon		Carter	Cascade		Chouteau	Custer		Daniels	Dawson	Deer Lodge	
1,078	268		1,074		637	1,401		1,383	496		804	834	179	1
1,288	328		1,170		848	1,404		1,587	715		906	1,018	142	2
464	204		799		4	381		84	146		2	36	137	3
290	198		746		12	227		49	116		2	16	104	4
60.0	3.0		7.1		-66.7	67.8		71.4	25.9		.....	125.0	31.7	5
360	148		528		3	288		65	110		(1)	29	110	6
216	140		518		11	169		44	97		.....	12	85	7
104	56		271		1	93		19	36		.....	7	27	8
74	58		228		1	58		5	19		.....	4	19	9
1,628,690	326,993		583,341		1,272,843	1,276,707		2,074,470	1,306,480		699,978	942,918	59,605	10
770,170	270,489		393,709		17,552	417,895		259,819	355,994		(1)	64,903	53,049	11
1,660	1,326		493		4,388	1,097		3,093	2,438		(1)	1,803	387	12
719,685	240,892		316,487		(1)	370,960		231,523	327,702		(1)	52,283	43,087	13
1,999	1,628		599		(1)	1,288		3,562	2,979		(1)	1,803	392	14
50,485	29,597		77,222		(1)	46,935		28,296	28,292		.....	12,620	9,962	15
485	529		285		(1)	505		1,489	786		.....	1,803	369	16
2,730,880	795,520		1,324,800		2,120,320	1,701,120		2,508,800	2,409,600		923,520	1,509,120	472,320	17
48,917	27,617		84,179		127	31,515		5,085	14,851		487	1,705	18,371	18
38,076	25,445		77,214		127	27,728		4,520	13,815		412	1,682	15,032	19
1,132	48		519		.....	190		241	217		.....	3	227	20
9,709	2,124		6,446		.....	3,597		324	819		75	20	3,112	21
41,734	35,745		90,514		1,407	13,638		7,638	13,385		.....	1,728	19,048	22
59,119	25,733		99,336		380	14,864		6,029	8,469		.....	1,674	13,474	23
17.2	-22.7		-7.0		-91.0	131.1		-33.4	11.0		.....	-1.3	-3.6	24
90,449	54,269		114,904		1,246	50,120		10,837	29,516		500	21,102	21,593	25
86,828	43,735		112,872		1,927	66,574		10,042	23,263		.....	4,638	27,351	26
190,347	109,435		156,675		3,045	144,376		40,244	25,872		.....	7,663	40,125	27
41,532	26,652		30,725		1,119	18,605		5,752	14,665		13	19,397	3,222	28
45,094	7,990		22,358		520	52,936		2,404	9,878		.....	2,910	8,303	29
67,525	32,638		105,965		1,106	49,096		9,494	22,163		500	14,096	20,727	30
74,441	43,735		109,995		1,762	37,247		9,461	21,404		.....	3,336	26,562	31
99,764	61,175		147,195		1,320	53,163		18,790	21,960		.....	6,860	24,271	32
-9.3	-25.4		-3.7		-37.2	31.8		0.3	3.5		.....	322.5	-22.0	33
18,608	5,021		21,786		979	17,581		4,409	7,312		13	12,391	2,356	34
32,707	7,990		19,481		355	23,609		1,823	8,019		.....	1,608	7,514	35
6.4	10.2		21.4		0.7	7.5		2.0	4.2		15.1	2.6	34.6	36
15.3	13.2		36.5		4.6	6.0		2.9	6.4		.....	3.1	17.0	37
72.4	84.6		79.4		11.5	64.2		53.6	67.0		97.4	12.1	88.6	38
56.1	81.7		82.3		79.9	36.6		80.7	62.5		.....	51.8	71.7	39
4,396,820	824,671		2,120,840		6,078	2,597,353		111,215	1,134,899		3,403	1,141,772	177,967	40
4,387,692	822,269		2,098,771		6,078	2,594,859		110,775	1,082,593		3,400	1,141,758	160,555	41
9,128	2,402		22,069		.....	2,494		440	52,306		3	14	17,412	42
2,125,834	254,171		1,269,627		22,656	799,292		107,372	613,502		.....	28,484	148,485	43
2,549,735	476,675		1,456,985		14,095	2,555,563		640,656	299,355		.....	154,334	354,148	44
106.8	224.5		67.0		-73.2	225.0		3.6	85.0		.....	(4)	19.9	45
65.11	25.27		20.01		5.50	52.90		11.71	51.21		6.81	81.00	8.59	46
28.56	5.81		11.54		12.86	21.46		11.35	28.66		.....	8.54	5.59	47
25.56	7.79		9.90		10.68	48.07		34.10	13.63		.....	22.50	14.59	48
89.88	29.86		25.19		47.86	82.42		21.87	76.42		6.99	669.66	9.69	49
4,430,620	1,196,052		2,136,590		6,228	2,820,003		136,475	1,231,117		3,403	1,289,026	180,967	50
2,489,334	254,171		1,362,127		22,756	805,445		113,422	638,002		.....	28,484	148,485	51
2,737,185	482,625		1,463,610		18,095	5,120,595		1,051,398	376,180		.....	189,070	356,338	52
78.0	370.6		56.9		-72.6	250.1		20.3	93.0		.....	(4)	21.9	53
48.98	22.04		18.59		5.0	56.27		12.59	41.71		6.81	61.09	8.38	54
28.67	5.61		12.07		11.81	12.10		11.29	27.42		.....	6.14	5.43	55
14.38	4.41		9.34		5.94	35.47		26.13	14.54		.....	24.67	8.88	56
	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.				
56	122	1	229	6	2	82	1	70	36	1	2	14	77	57
48,522	26,264	(5)	81,977	15,377	(5)	31,163	(5)	4,931	13,318	(6)	(5)	1,390	17,268	58
85,340	11,342	(5)	42,456	2,339	(5)	32,334	(5)	8,109	7,913	(6)	(5)	1,487	9,548	59
1.76	0.43	(5)	0.52	0.15	(5)	1.04	(5)	1.64	0.59	(6)	(5)	1.07	0.55	60
1.70	0.45	.....	0.68	.....	0.92	1.14	.....	0.86	2.39	.....	.....	0.33	0.70	61
103,696	1,244	.....	33,134	31,000	.....	23,796	.....	.....	8,814	1,476	.....	787	75	62
2.49	0.15	.....	0.56	2.07	.....	0.85	.....	.....	1.00	0.30	.....	1.21	0.15	63
55,309	8,320	.....	61,649	31,000	.....	29,389	.....	.....	9,793	4,862	.....	787	500	64
1.87	0.15	.....	0.54	1.00	.....	0.81	.....	.....	0.90	0.30	.....	1.00	0.15	65
24,267	4,422	.....	31,956	14,973	.....	16,052	.....	.....	10,246	726	.....	911	.....	66
2,041,959	4,000	.....	484,106	700,000	.....	1,896,974	.....	.....	63,000	317,968	.....	152,389	.....	67
60	134	1	224	6	2	90	1	72	49	.....	3	17	78	68
39,622	26,767	(5)	68,183	15,377	(5)	31,502	(5)	5,078	14,716	.....	487	1,545	18,222	69
56,517	81,730	(5)	134,433	16,310	(5)	57,209	(5)	5,892	27,540	.....	203	2,044	52,001	70
1.4	3.1	(5)	2.0	1.1	(5)	1.8	(5)	1.2	1.9	.....	0.4	1.3	2.9	71
2.34	0.35	(5)	0.61	2.03	(5)	1.02	(5)	1.62	1.12	.....	0.29	1.06	0.55	72
12	.....	.....	7	.....	.....	5	.....	3	4	.....	.....	2	7	73
73,945	.....	.....	14,800	.....	.....	39,945	.....	2,141	10,703	.....	.....	(5)	1,495	74
36,699	.....	.....	11,640	.....	.....	23,356	.....	392	9,234	.....	.....	(5)	995	75
965	.....	.....	160	.....	.....	12,431	.....	721	500	.....	.....	(5)	1,495	76
15,420	.....	.....	990	.....	.....	1,700	.....	20	530	.....	.....	.....	.....	77

[4] Percent not shown when more than 1,000.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Fallon	Fergus	Flathead	Gallatin	Garfield
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*					
1	All farms....1940...number	510	1,486	1,701	1,242	587
2	1930...number	650	2,073	1,349	1,336	1,077
3	Irrigated farms....1940...number	.....	148	212	856	8
4	1930...number	2	99	97	840	6
5	Increase or decrease (-), 1930-1940....percent	.....	49.5	118.6	1.9	33.3
	Operated by—					
6	(a) Owners and managers....1940...number	.....	104	179	537	7
7	1930...number	.....	75	77	523	5
8	(b) Tenants....1940...number	.....	44	33	319	1
9	1930...number	.....	24	20	317	1
10	Land in all farms....1940...acres	770,487	1,718,623	281,018	853,033	887,075
11	Land in irrigated farms....1940...acres	.....	398,285	53,917	622,731	9,644
12	Average per farm....1940...acres	.....	2,691	254	727	1,206
13	(a) Operated by owners and managers....1940...acres	.....	328,501	45,331	429,111	(2)
14	Average per farm....1940...acres	.....	3,159	253	799	(2)
15	(b) Operated by tenants....1940...acres	.....	69,784	8,586	193,620	(2)
16	Average per farm....1940...acres	.....	1,586	260	607	(2)
17	Approximate land area....1940...acres	1,045,120	2,720,000	3,313,280	1,610,880	3,067,520
	IRRIGATED AND IRRIGABLE AREAS					
18	Area irrigated....1939...acres	90	14,435	7,376	104,705	313
19	(a) Cropland harvested....1939...acres	90	13,597	6,532	88,863	253
20	(b) Crop failure....1939...acres	.....	12	30	.....	60
21	(c) Pasture....1939...acres	.....	826	814	15,842	.....
22	Area irrigated....1929...acres	.....	9,857	3,703	112,792	145
23	1919...acres	.....	33,499	11,244	103,975	370
24	Increase or decrease (-), 1929-1939....percent	.....	46.4	99.2	-7.2	115.9
25	Irrigable area in enterprises....1940...acres	1,308	24,978	9,234	139,964	3,300
26	1930...acres	.....	17,333	7,792	147,838	783
27	1920[3]...acres	.....	96,690	33,787	287,590	4,090
28	Excess of irrigable area over the area irrigated...1940...acres	1,218	10,543	1,848	35,259	2,987
29	1930...acres	.....	7,476	4,089	35,046	638
30	Area works were capable of supplying with water...1940...acres	1,308	22,625	8,502	138,918	1,563
31	1930...acres	.....	16,395	7,177	136,621	600
32	1920...acres	.....	82,521	24,642	174,906	390
33	Increase or decrease (-), 1930-1940....percent	.....	38.0	18.5	1.7	160.5
34	Excess, capability of works over area irrigated...1940...acres	1,218	8,190	1,126	34,213	1,250
35	1930...acres	.....	6,538	3,474	23,829	455
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	.....	3.6	13.7	16.8	3.2
37	1929...percent	.....	5.2	17.3	31.6	1.4
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	6.9	63.8	86.8	75.4	20.0
39	1929...percent	.....	60.1	51.6	82.6	24.2
	CAPITAL INVESTED TO JANUARY 1					
40	Total investment in all enterprises....1940...dollars	11,810	359,401	149,240	1,359,186	30,686
41	(a) Cost of irrigation works and equipment....1940...dollars	11,810	309,319	147,993	1,351,664	30,476
42	(b) Investment in water rights (reported)....1940...dollars	.....	50,082	1,247	7,522	210
43	Total investment in all enterprises....1930...dollars	.....	165,382	146,533	930,207	20,687
44	1920...dollars	.....	729,436	836,723	1,176,492	50,385
45	Increase or decrease (-), 1930-1940....percent	.....	117.3	1.8	46.1	48.3
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	9.03	15.89	17.55	9.78	19.63
47	1930...dollars	.....	10.09	20.42	6.81	34.48
48	1920...dollars	.....	8.84	33.96	6.73	129.19
49	Average investment per acre irrigated....1939...dollars	131.22	24.90	20.23	12.98	98.04
50	Estimated final investment in existing enterprises...1940...dollars	16,310	369,379	158,993	1,362,056	35,306
51	1930...dollars	.....	173,442	147,383	930,527	22,687
52	1920...dollars	.....	743,186	1,234,620	1,211,747	50,865
53	Increase or decrease (-), 1930-1940....percent	.....	113.0	7.9	46.4	55.6
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	12.47	14.79	17.24	9.73	10.70
55	1930...dollars	.....	10.01	18.91	6.29	28.97
56	1920[3]...dollars	.....	7.69	36.54	4.21	12.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises / Supplemental Enterprises		Primary Enterprises / Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number	.....	105 / 1	111	237 / 8	9
58	Area irrigated in these enterprises....1939...acres	.....	13,996 / (4)	6,956	99,163 / 9,150	176
59	Cost of maintenance and operation....1939...dollars	.....	11,269 / (4)	8,205	30,418 / 1,553	1,467
60	Average cost, per acre irrigated....1939...dollars	.....	0.81 / (4)	1.18	0.31 / 0.17	8.34
61	1929...dollars	.....	0.82 /	1.53	0.56 /	4.30
62	Total annual charges (reported)[5] [6]....1939...dollars	.....	705 /	5,011	33,464 / 6,761	.....
63	Average annual charge per acre irrigated....1939...dollars	.....	0.66 /	3.97	0.45 / 0.77	.....
64	Area against which charges were assessed....1939...acres	.....	1,070 /	1,960	75,810 / 8,931	.....
65	Average annual charge per acre assessed....1939...dollars	.....	0.66 /	2.56	0.44 / 0.76	.....
66	Total charges collected[5]....1939...dollars	.....	455 /	4,005	29,609 / 3,708	.....
67	Indebtedness to December 31 (reported)[6] ....1939...dollars	.....	17,305 /	25,515	25,745 / 78,983	.....
	WATER DELIVERED TO IRRIGATORS					
68	Enterprises reporting water delivered....1939...number	.....	92 / 1	134	230 / 7	7
69	Area irrigated in these enterprises....1939...acres	.....	13,047 / (4)	7,106	83,825 / 4,265	212
70	Water delivered in these enterprises....1939...acre-feet	.....	13,449 / (4)	13,302	157,895 / 3,550	383
71	**Average water delivered per acre irrigated**....1939...acre-feet	.....	1.0 / (4)	1.9	1.9 / 0.8	1.8
72	**Average cost of water per acre irrigated**....1939...dollars	.....	0.83 / (4)	1.36	0.46 / 1.31	6.43
	DRAINAGE OF IRRIGATED LAND					
73	Enterprises reporting land drained or needing drainage....1939...number	.....	1 /	3	7 /	2
74	Irrigable area in these enterprises....1939...acres	.....	(4) /	425	13,090 /	(4)
75	Irrigated area in these enterprises....1939...acres	.....	(4) /	400	6,674 /	(4)
76	Area for which drains have been installed....1939...acres	.....	..... /	60	185 /	.....
77	Additional area needing drainage....1939...acres	.....	(4) /	40	410 /	(4)

*Census of Agriculture.
[1]Percent not shown when more than 1,000.
[2]Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Glacier	Golden Valley	Granite	Hill	Jefferson	Judith Basin	Lake	Lewis and Clark	Liberty	Lincoln	McCone	
495	268	205	1,245	331	599	1,673	532	420	534	754	1
455	387	247	1,423	385	776	1,197	612	402	503	1,041	2
64	63	173	66	191	51	1,211	374	4	197	29	3
21	47	177	49	207	41	723	308	10	125	2	4
204.8	34.0	-2.3	34.7	-7.7	24.4	67.5	21.4	-60.0	57.6	(1)	5
53	51	144	48	144	38	918	288	4	162	22	6
18	37	128	35	163	30	553	235	10	99	.....	7
11	12	29	18	47	13	293	86	.....	35	7	8
3	10	49	14	44	11	170	73	.....	26	.....	9
822,373	611,842	297,103	1,416,912	296,337	825,076	472,296	938,186	810,386	105,377	1,012,434	10
149,093	213,486	283,969	139,680	211,921	180,804	272,482	807,305	20,910	52,556	51,121	11
2,330	3,389	1,641	2,116	1,110	3,545	225	2,159	5,228	267	1,763	12
143,286	206,059	254,444	121,642	149,460	162,851	228,658	748,919	20,910	43,780	40,597	13
2,704	4,040	1,767	2,534	1,038	4,286	249	2,600	5,228	270	1,845	14
5,807	7,427	29,525	18,038	62,461	17,953	43,824	58,386	.....	8,876	10,524	15
528	619	1,018	1,002	1,329	1,381	150	679	.....	254	1,503	16
1,903,360	753,920	1,098,880	1,884,160	1,056,640	1,203,200	960,000	2,225,920	933,760	2,377,600	1,688,320	17
7,822	3,459	24,004	6,592	22,869	7,984	71,193	37,268	355	6,408	1,440	18
7,444	2,882	20,429	4,790	20,989	7,724	56,280	36,126	355	5,883	992	19
12	15	329	388	86	.....	485	130	.....	8	248	20
366	562	3,246	1,414	1,794	260	14,428	1,012	.....	517	200	21
5,760	3,561	24,503	6,641	25,783	6,617	41,237	33,709	751	6,960	.....	22
9,767	.....	31,177	2,528	24,946	.....	.....	33,226	.....	5,923	.....	23
35.8	-2.9	-2.0	-0.7	-11.3	20.7	72.6	10.6	-52.7	-7.9	.....	24
53,239	4,307	25,681	10,795	32,529	12,336	125,625	56,555	1,005	9,219	5,563	25
82,602	6,011	28,556	8,063	81,771	10,194	121,502	52,122	1,151	9,200	.....	26
118,500	.....	58,394	14,824	86,086	.....	.....	94,133	.....	13,737	.....	27
45,417	848	1,677	4,203	9,660	4,352	54,432	19,287	650	2,811	4,123	28
76,842	2,450	4,053	1,422	55,988	3,577	80,265	18,413	400	2,240	.....	29
22,804	4,097	25,169	7,418	28,093	11,418	94,035	48,157	955	8,019	4,701	30
23,467	5,472	26,384	7,563	31,314	8,744	108,452	46,327	1,001	8,302	.....	31
25,600	.....	38,500	12,033	45,553	.....	.....	69,907	.....	9,353	.....	32
-2.8	-25.1	-4.6	-1.9	-10.3	30.6	-13.3	4.0	4.6	-3.4	.....	33
14,982	638	1,165	826	5,224	3,434	22,842	10,889	600	1,611	3,261	34
17,707	1,911	1,881	922	5,531	2,127	67,215	12,618	250	1,342	.....	35
5.2	1.6	8.5	4.7	10.8	4.4	26.1	4.6	1.7	12.2	2.8	36
8.7	2.4	12.0	7.6	17.7	4.8	16.5	5.4	0.8	19.6	.....	37
34.3	84.4	95.4	88.9	81.4	69.9	75.7	77.4	37.2	79.9	30.6	38
24.5	65.1	92.9	87.8	82.3	75.7	38.0	72.8	75.0	83.8	.....	39
733,246	17,049	914,321	280,768	504,512	151,489	6,575,603	486,891	9,750	219,869	47,913	40
733,244	17,045	889,564	280,233	492,825	149,284	6,573,618	477,261	9,750	217,924	46,266	41
2	4	24,757	535	11,687	2,205	1,985	9,630	.....	1,945	72	42
3,603,416	46,115	303,573	87,342	359,178	56,526	4,358,604	711,720	23,237	217,635	.....	43
3,545,069	.....	344,544	188,822	685,014	.....	.....	784,413	.....	195,752	.....	44
-79.7	-63.0	201.2	221.5	40.5	168.0	50.9	-31.6	-58.0	1.0	.....	45
32.15	4.16	36.33	37.85	17.96	13.27	69.93	10.11	10.21	27.42	8.98	46
153.55	8.43	11.50	11.55	11.47	6.46	40.19	15.36	23.21	26.21	.....	47
138.48	.....	8.95	15.69	15.04	.....	.....	11.22	.....	20.93	.....	48
93.74	4.93	38.09	42.59	22.06	18.97	92.36	13.06	27.46	34.31	23.43	49
3,107,566	19,349	915,571	304,475	521,662	151,854	7,448,840	492,099	9,750	231,829	56,563	50
5,216,072	49,265	318,773	87,467	569,628	59,376	6,605,429	723,570	24,437	222,135	.....	51
7,219,059	.....	355,744	208,222	699,764	.....	.....	819,113	.....	197,902	.....	52
-40.4	-60.7	187.2	248.1	- 8.4	155.7	12.8	-32.0	-60.1	4.4	.....	53
58.37	4.49	35.65	28.21	16.04	12.31	59.29	8.70	9.70	25.15	9.13	54
63.15	8.20	11.16	10.85	6.97	5.82	54.36	13.88	21.23	24.14	.....	55
60.92	.....	6.09	14.05	8.13	.....	.....	8.70	.....	14.41	.....	56
		Primary Enterprises / Sup.		Primary Enterprises / Sup.			Primary Enterprises / Sup.				
3	27	103 / 1	44	108 / 2	34	120 /	268	4	126	18	57
7,822	3,399	23,340 / (4)	6,456	22,371 / (4)	7,427	69,768 /	35,145	340	6,056	796	58
5,207	1,734	6,698 / (4)	6,819	13,899 / (4)	2,566	77,512 /	58,900	800	5,852	1,480	59
0.67	0.51	0.29 / (4)	1.06	0.58 / (4)	0.35	1.11 /	1.68	2.35	0.97	1.86	60
4.59	1.27	0.84 /	0.99	0.62 /	1.90	1.28 /	1.47	4.41	1.73	.....	61
7,748	348	190 / 24,750	651	4,779 /	1,560	104,466 /	14,813	.....	4,283	.....	62
1.00	0.63	0.08 / 2.05	0.31	0.58 /	0.78	1.54 /	1.41	.....	2.15	.....	63
7,748	1,160	2,450 / 25,000	2,100	12,892 /	1,560	91,885 /	13,891	.....	2,419	.....	64
1.00	0.30	0.08 / 0.99	0.31	0.37 /	1.00	1.14 /	1.07	.....	1.77	.....	65
.....	325	..... / 11,979	631	3,363 /	3,540	89,620 /	800	.....	3,668	.....	66
714,324	22	..... / 498,508	4,000	..... /	82,974	7,288,717 /	30	.....	13,000	.....	67
3	27	108 / 1	45	113 / 2	33	126 /	294	4	149	22	68
7,822	3,206	23,304 / (4)	4,489	22,564 / (4)	7,669	69,509 /	37,023	340	6,408	1,315	69
7,879	4,042	91,103 / (4)	5,040	50,003 / (4)	6,031	103,501 /	69,241	698	22,974	1,749	70
1.0	1.3	3.9 / (4)	1.1	2.2 / (4)	0.8	1.5 /	1.9	2.1	3.6	1.3	71
1.00	0.54	0.29 / (4)	1.42	0.56 / (4)	0.45	1.55 /	0.80	2.35	1.24	1.38	72
.....	.....	13 /	.....	..... /	.....	3 /	8	.....	3	3	73
.....	.....	5,130 /	.....	..... /	.....	119,621 /	7,781	.....	180	510	74
.....	.....	5,089 /	.....	..... /	.....	66,566 /	4,733	.....	102	259	75
.....	.....	75 /	.....	..... /	.....	700 /	188	.....	100	168	76
.....	.....	182 /	.....	..... /	.....	1,250 /	1,115	.....	4	45	77

(4) Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
(5) Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
(6) Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Madison	Meagher	Mineral	Missoula
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]				
1	All farms....1940...number....	655	228	112	776
2	1930...number....	748	276	96	688
3	Irrigated farms....1940...number....	576	126	49	619
4	1930...number....	576	111	30	500
5	Increase or decrease (-), 1930-1940....percent....	.....	13.5	63.3	23.8
	Operated by—				
6	(a) Owners and managers....1940...number....	419	117	43	496
7	1930...number....	461	101	25	401
8	(b) Tenants....1940...number....	157	9	6	123
9	1930...number....	115	10	5	99
10	Land in all farms....1940...acres....	810,416	900,573	28,155	251,684
11	Land in irrigated farms....1940...acres....	746,775	815,040	14,882	205,805
12	Average per farm....1940...acres....	1,296	6,469	304	332
13	(a) Operated by owners and managers....1940...acres....	671,338	756,992	13,220	177,546
14	Average per farm....1940...acres....	1,602	6,470	307	358
15	(b) Operated by tenants....1940...acres....	75,437	58,048	1,662	28,259
16	Average per farm....1940...acres....	480	6,450	277	230
17	Approximate land area....1940...acres....	2,259,200	1,506,560	782,720	1,682,560
	IRRIGATED AND IRRIGABLE AREAS				
18	Area irrigated....1939...acres....	88,007	40,056	1,241	30,867
19	(a) Cropland harvested....1939...acres....	76,196	39,186	987	28,405
20	(b) Crop failure....1939...acres....	123	50	.....	145
21	(c) Pasture....1939...acres....	11,688	820	254	2,317
22	Area irrigated....1929...acres....	96,296	39,633	1,039	19,038
23	1919...acres....	115,598	25,075	967	50,237
24	Increase or decrease (-), 1929-1939....percent....	-8.6	1.1	19.4	62.1
25	Irrigable area in enterprises....1940...acres....	102,614	44,787	1,761	44,277
26	1930...acres....	123,497	50,027	1,214	29,956
27	1920[2]..acres....	265,103	60,348	6,690	156,883
28	Excess of irrigable area over the area irrigated..1940...acres....	14,607	4,731	520	13,410
29	1930...acres....	27,201	10,394	175	10,918
30	Area works were capable of supplying with water...1940...acres....	100,963	44,226	1,549	38,922
31	1930...acres....	111,105	45,772	1,184	27,472
32	1920...acres....	172,083	48,175	2,105	120,456
33	Increase or decrease (-), 1930-1940....percent....	-9.1	-3.4	30.8	41.7
34	Excess, capability of works over area irrigated...1940...acres....	12,956	4,170	308	8,055
35	1930...acres....	14,809	6,139	145	8,434
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	11.8	4.9	8.3	15.0
37	1929...percent....	18.3	6.0	14.2	10.8
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	87.2	90.6	80.1	79.3
39	1929...percent....	86.7	86.6	87.8	69.3
	CAPITAL INVESTED TO JANUARY 1				
40	Total investment in all enterprises....1940...dollars....	1,604,247	419,048	25,734	767,176
41	(a) Cost of irrigation works and equipment....1940...dollars....	1,587,645	411,044	25,280	753,625
42	(b) Investment in water rights (reported)....1940...dollars....	18,177	8,004	454	13,551
43	Total investment in all enterprises....1930...dollars....	649,263	301,941	19,880	595,095
44	1920...dollars....	2,566,017	346,257	41,481	3,975,483
45	Increase or decrease (-), 1930-1940....percent....	147.1	38.8	29.4	28.9
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	15.99	9.48	16.61	19.71
47	1930...dollars....	5.84	6.60	16.79	21.66
48	1920...dollars....	14.91	7.19	19.71	33.00
49	Average investment per acre irrigated....1939...dollars....	18.35	10.46	20.74	24.85
50	Estimated final investment in existing enterprises..1940...dollars....	1,609,797	430,598	28,359	930,201
51	1930...dollars....	656,613	301,941	19,980	625,945
52	1920...dollars....	2,587,647	363,507	47,646	5,909,973
53	Increase or decrease (-), 1930-1940....percent....	145.2	42.6	41.9	48.6
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	15.79	9.61	16.1	21.01
55	1930...dollars....	5.32	6.04	16.46	20.90
56	1920[2]..dollars....	9.76	6.02	7.12	37.67
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises		Primary / Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number....	332 / 5	117 / 1	43	197 / 4
58	Area irrigated in these enterprises....1939...acres....	83,336 / 17,103	39,165 / (4)	1,196	29,510 / 596
59	Cost of maintenance and operation....1939...dollars....	40,305 / 2,354	12,947 / (4)	1,242	19,279 / 362
60	Average cost, per acre irrigated....1939...dollars....	0.48 / 0.14	0.33 / (4)	1.04	0.65 / 0.61
61	1929...dollars....	0.41 /	0.50 /	0.92	1.53 / .....
62	Total annual charges (reported)[5] [6]....1939...dollars....	11,557 / 6,885	..... / 7,200	.....	20,233 / 630
63	Average annual charge per acre irrigated....1939...dollars....	0.29 / 0.41	..... / 1.03	.....	1.43 / 1.08
64	Area against which charges were assessed....1939...acres....	41,362 / 16,723	..... / 7,200	.....	17,696 / 1,650
65	Average annual charge per acre assessed....1939...dollars....	0.28 / 0.41	..... / 1.00	.....	1.14 / 0.38
66	Total charges collected[5]....1939...dollars....	8,590 / 12,806	..... / 7,000	.....	14,893 / 683
67	Indebtedness to December 31 (reported)[6]....1939...dollars....	..... / 290,674	..... / 151,221	.....	485,525 / .....
	WATER DELIVERED TO IRRIGATORS				
68	Enterprises reporting water delivered....1939...number....	292 / 5	119 / 1	45	211 / 5
69	Area irrigated in these enterprises....1939...acres....	69,980 / 17,103	39,014 / (4)	1,241	30,431 / 601
70	Water delivered in these enterprises....1939...acre-feet..	205,832 / 10,979	44,337 / (4)	2,799	104,860 / 833
71	Average water delivered per acre irrigated....1939...acre-feet..	2.9 / 0.6	1.1 / (4)	2.3	3.4 / 1.4
72	Average cost of water per acre irrigated....1939...dollars....	0.48 / 0.41	0.33 / (4)	1.00	0.93 / 1.15
	DRAINAGE OF IRRIGATED LAND				
73	Enterprises reporting land drained or needing drainage....1939...number....	21 /	..... /	.....	2 / .....
74	Irrigable area in these enterprises....1939...acres....	8,090 /	..... /	.....	(4) / .....
75	Irrigated area in these enterprises....1939...acres....	7,797 /	..... /	.....	(4) / .....
76	Area for which drains have been installed....1939...acres....	160 /	..... /	.....	(4) / .....
77	Additional area needing drainage....1939...acres....	728 /	..... /	.....	..... / .....

[a] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Percent not shown when more than 1,000.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Mussel-shell	Park		Petroleum	Phillips	Pondera		Powder River	Powell	Prairie	Ravalli		Richland	Roosevelt	
314	623		180	1,046	879		688	309	257	1,501		1,218	1,043	1
525	656		363	1,476	919		896	343	559	1,286		1,341	1,276	2
50	480		26	304	415		23	261	9	1,427		393	16	3
30	462		24	157	377		4	231	3	1,154		274	7	4
66.7	3.9		8.3	93.6	10.1		475.0	13.0	200.0	23.7		43.4	128.6	5
40	311		19	225	282		21	213	9	1,082		266	14	6
25	334		13	121	252		.....	195	3	850		183	6	7
10	169		7	79	133		2	48	.....	345		127	2	8
5	128		11	36	125		.....	36	.....	304		91	1	9
724,016	714,116		268,171	1,371,941	826,512		1,347,101	645,243	388,234	318,633		901,588	801,804	10
147,173	626,406		77,270	539,755	449,641		86,047	603,462	27,594	305,833		138,095	6,937	11
2,943	1,305		2,972	1,776	1,083		3,741	2,312	3,066	214		351	434	12
121,094	514,362		57,270	511,408	367,007		(1)	542,509	27,594	246,213		103,109	(1)	13
3,027	1,654		3,014	2,273	1,301		(1)	2,547	3,066	228		388	(1)	14
26,079	112,044		20,000	28,347	82,634		(1)	60,953	.....	59,620		34,986	(1)	15
2,608	663		2,857	359	621		(1)	1,270	.....	173		275	(1)	16
1,207,040	1,681,280		1,064,960	3,368,960	1,051,520		2,102,400	1,495,680	1,105,280	1,525,760		1,321,600	1,526,400	17
4,400	51,047		5,320	36,567	57,245		1,156	60,630	736	109,752		30,024	360	18
3,256	46,356		5,049	34,308	52,291		737	57,386	579	80,830		30,007	326	19
41	1		71	31	678		29	217	.....	352		.....	5	20
1,103	4,690		200	2,228	4,276		390	3,027	157	28,570		17	29	21
2,381	55,165		5,412	29,839	54,366		.....	58,045	515	87,058		18,157	3,713	22
4,138	52,854		.....	28,047	55,754		.....	64,045	486	107,028		15,450	1,190	23
84.8	-7.5		-1.7	22.5	5.3		.....	4.5	42.9	26.1		65.4	-90.3	24
5,934	70,356		18,336	90,559	125,944		2,986	73,728	1,953	121,182		38,609	21,732	25
5,734	89,623		16,527	84,694	100,205		.....	74,614	737	110,132		38,380	42,000	26
19,255	125,767		.....	85,132	212,743		.....	134,742	834	143,892		41,385	115,955	27
1,534	19,309		13,016	53,992	68,699		1,830	13,098	1,217	11,430		8,585	21,372	28
3,353	34,458		11,115	54,855	45,839		.....	16,569	222	23,074		20,223	38,287	29
5,416	69,181		17,365	74,627	116,076		2,810	73,313	1,953	114,838		37,941	14,937	30
4,539	77,005		15,427	75,209	98,465		.....	73,681	720	105,395		38,380	16,890	31
11,659	88,940		.....	43,748	103,411		.....	93,120	834	126,401		35,835	7,537	32
19.3	-10.2		12.6	-0.8	17.9		.....	-0.5	171.2	9.0		-1.1	-11.6	33
1,016	18,134		12,045	38,060	58,831		1,654	12,683	1,217	5,086		7,917	14,577	34
2,158	21,840		10,015	45,370	44,099		.....	15,636	205	18,337		20,223	13,177	35
3.0	8.1		6.9	6.8	12.7		1.3	10.0	2.7	35.9		21.7	5.2	36
3.7	9.9		7.8	8.0	16.5		.....	8.9	6.5	33.4		25.3	39.3	37
81.2	73.8		30.6	49.0	49.3		41.1	82.7	37.7	95.6		79.1	2.4	38
52.5	71.6		35.1	39.7	55.2		.....	78.8	71.5	82.6		47.3	22.0	39
69,410	549,970		266,896	4,485,191	3,769,440		20,359	926,306	445,760	2,286,758		2,531,900	455,292	40
68,935	517,707		266,896	4,845,017	3,719,375		20,227	899,739	445,749	2,275,367		2,531,249	455,292	41
475	32,263		.....	174	50,065		132	26,567	11	11,391		651	.....	42
75,362	753,057		226,045	2,759,930	3,600,100		.....	401,212	10,827	1,904,534		2,266,671	469,208	43
155,259	672,677		.....	1,417,559	4,919,860		.....	877,108	66,866	994,246		2,442,376	713,197	44
-7.9	-27.0		18.1	75.6	4.7		.....	1,309	(3)	20.1		11.7	3.0	45
12.82	7.95		15.37	64.93	32.47		7.25	12.63	228.24	19.91		66.73	30.48	46
16.60	9.78		14.65	36.70	36.56		.....	5.44	15.04	18.07		59.06	27.78	47
13.32	7.56		.....	32.40	47.58		.....	9.42	80.18	7.87		68.16	94.63	48
15.78	10.77		50.17	132.50	65.85		17.61	15.28	605.65	20.84		84.33	1,264.70	49
73,210	555,410		267,133	4,964,681	4,313,660		21,074	941,358	460,393	2,290,308		2,539,075	760,189	50
78,012	766,442		226,045	2,957,815	3,602,600		.....	401,812	10,827	2,190,617		2,404,069	469,208	51
160,209	691,027		.....	1,430,709	5,264,860		.....	929,633	66,866	998,697		2,664,392	4,327,335	52
-6.2	-27.5		18.2	67.8	19.7		.....	134.3	(3)	4.6		5.6	62.0	53
12.34	7.89		14.57	54.82	34.25		7.06	12.77	235.74	18.90		65.76	34.98	54
13.60	8.55		13.68	34.92	35.95		.....	5.38	14.69	19.89		62.64	11.17	55
8.32	5.49		.....	16.81	24.75		.....	6.90	80.18	6.94		64.38	37.32	56
	Primary	Sup.			Primary	Sup.				Primary	Sup.			
	Enterprises				Enterprises					Enterprises				
36	221	1	25	36	22	1	14	223	7	427	7	17	12	57
3,815	46,020	(4)	5,181	36,450	56,939	(4)	795	55,538	736	107,430	6,765	29,688	310	58
3,204	13,972	(4)	3,003	40,334	66,143	(4)	1,085	22,108	721	82,064	1,038	36,124	2,721	59
0.84	0.30	(4)	0.58	1.11	1.16	(4)	136	0.40	0.98	0.76	0.15	1.22	8.78	60
3.12	0.76	.....	1.23	1.09	1.52	.....	.....	0.47	1.26	0.87	.....	1.72	2.40	61
325	8,085	2,860	.....	59,175	93,325	.....	.....	8,567	.....	83,959	1,014	30,992	155	62
0.16	0.62	1.10	.....	2.41	1.77	.....	.....	0.97	.....	1.35	0.15	1.06	1.00	63
2,280	15,146	2,600	.....	42,517	81,327	.....	.....	8,810	.....	64,171	9,852	30,992	155	64
0.14	0.53	1.10	.....	1.39	1.15	.....	.....	0.97	.....	1.31	0.10	1.00	1.00	65
.....	4,662	2,860	.....	9,000	85,939	126	.....	1,570	.....	36,387	360	49,035	290	66
.....	67,000	41,584	38,000	4,080,449	4,263,901	9,720	.....	220,234	84,323	1,507,567	.....	1,951,428	580,805	67
37	199	.....	24	33	24	.....	17	226	6	434	6	18	13	68
4,230	42,678	.....	5,112	31,692	57,045	.....	971	60,326	868	103,258	4,693	29,892	205	69
4,712	89,496	.....	4,206	17,215	92,331	.....	1,069	147,275	381	310,588	5,908	59,104	169	70
1.1	2.1	.....	0.8	0.5	1.6	.....	1.1	2.4	0.6	3.0	1.3	2.0	0.8	71
0.84	0.43	.....	0.55	1.79	1.67	.....	1.24	0.48	1.05	0.81	0.17	1.08	1.34	72
2	1	.....	.....	8	.....	.....	.....	4	.....	8	.....	2	1	73
(4)	(4)	.....	.....	68,109	.....	.....	.....	2,046	.....	4,308	.....	(4)	(4)	74
(4)	(4)	.....	.....	23,374	.....	.....	.....	2,042	.....	8,778	.....	(4)	(4)	75
(4)	.....	.....	.....	2,001	.....	.....	.....	25	.....	.....	.....	(4)	(4)	76
(4)	(4)	.....	.....	2,120	.....	.....	.....	251	.....	237	.....	.....	.....	77

[4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms; and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Rosebud		Sanders	Sheridan	Silver Bow	Stillwater	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number	690		854	1,238	202	796	
2	1930...number	940		663	1,492	212	962	
3	Irrigated farms....1940...number	188		365	7	96	360	
4	1930...number	94		234	5	88	283	
5	Increase or decrease (-), 1930-1940....percent	100.0		56.0	40.0	9.1	27.2	
	Operated by—							
6	(a) Owners and managers....1940...number	122		287	6	73	249	
7	1930...number	54		197	.....	68	207	
8	(b) Tenants....1940...number	66		78	1	23	111	
9	1930...number	40		37	.....	20	76	
10	Land in all farms....1940...acres	1,664,342		307,775	873,137	86,842	808,439	
11	Land in irrigated farms....1940...acres	325,500		142,698	12,830	59,849	257,079	
12	Average per farm....1940...acres	1,731		391	1,833	623	714	
13	(a) Operated by owners and managers....1940...acres	290,222		130,515	[3]	42,924	209,430	
14	Average per farm....1940...acres	2,379		455	[3]	588	841	
15	(b) Operated by tenants....1940...acres	35,278		12,183	[3]	16,925	47,649	
16	Average per farm....1940...acres	535		156	[3]	736	429	
17	Approximate land area....1940...acres	3,220,480		1,799,040	1,088,000	458,240	1,150,080	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	20,712		11,785	431	7,873	32,382	
19	(a) Cropland harvested....1939...acres	17,059		10,095	431	5,402	28,203	
20	(b) Crop failure....1939...acres	1,300		3	.....	3	38	
21	(c) Pasture....1939...acres	2,353		1,687	.....	2,468	4,141	
22	Area irrigated....1929...acres	15,428		9,243	.....	9,468	31,890	
23	1919...acres	20,814		6,373	.....	11,519	33,039	
24	Increase or decrease (-), 1929-1939....percent	34.2		27.5	.....	-16.8	1.5	
25	Irrigable area in enterprises....1940...acres	33,829		22,028	1,112	8,461	38,545	
26	1930...acres	21,689		20,123	.....	10,483	36,487	
27	1920[4]...acres	36,733		26,537	.....	20,386	49,432	
28	Excess of irrigable area over the area irrigated...1940...acres	13,117		10,243	681	588	6,163	
29	1930...acres	6,261		10,680	.....	1,015	4,597	
30	Area works were capable of supplying with water...1940...acres	28,906		18,701	912	8,361	38,339	
31	1930...acres	20,289		17,466	.....	9,613	36,243	
32	1920...acres	29,670		13,291	.....	15,521	44,926	
33	Increase or decrease (-), 1930-1940....percent	42.5		7.1	.....	-13.0	5.8	
34	Excess, capability of works over area irrigated...1940...acres	8,194		6,916	481	488	5,957	
35	1930...acres	4,861		8,223	.....	145	4,353	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	6.4		8.3	3.4	13.2	12.6	
37	1929...percent	7.2		7.0	.....	16.4	16.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	71.7		63.0	47.3	94.2	84.5	
39	1929...percent	76.0		52.9	.....	98.5	88.0	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	1,934,760		1,447,805	41,918	30,252	378,671	
41	(a) Cost of irrigation works and equipment....1940...dollars	1,934,531		1,445,620	41,912	30,140	378,456	
42	(b) Investment in water rights (reported)....1940...dollars	229		2,185	6	112	215	
43	Total investment in all enterprises....1930...dollars	681,945		1,160,384	.....	70,238	461,808	
44	1920...dollars	1,024,981		595,212	.....	292,302	402,941	
45	Increase or decrease (-), 1930-1940....percent	183.7		24.7	.....	-56.9	-18.0	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	66.93		77.42	45.96	3.62	9.88	
47	1930...dollars	33.61		66.44	.....	7.31	12.74	
48	1920...dollars	34.55		44.78	.....	18.83	8.97	
49	Average investment per acre irrigated....1939...dollars	93.41		122.85	97.26	3.84	11.69	
50	Estimated final investment in existing enterprises...1940...dollars	1,974,228		1,549,620	42,868	34,197	381,571	
51	1930...dollars	687,195		1,228,134	.....	70,363	467,008	
52	1920...dollars	1,040,341		854,850	.....	296,827	407,541	
53	Increase or decrease (-), 1930-1940....percent	187.3		26.2	.....	-51.4	-18.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	58.36		70.35	38.55	4.04	9.90	
55	1930...dollars	31.68		61.03	.....	6.71	12.80	
56	1920[4]...dollars	28.32		32.21	.....	14.56	8.24	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental				Primary Enterprises	Supplemental
57	Enterprises reporting maintenance and operation...1939...number	47	1	124	3	66	93	1
58	Area irrigated in these enterprises....1939...acres	20,240	([5])	11,266	431	5,220	30,115	([5])
59	Cost of maintenance and operation....1939...dollars	26,365	([5])	14,477	375	4,994	12,497	([5])
60	Average cost, per acre irrigated....1939...dollars	1.30	([5])	1.29	0.87	0.96	0.41	([5])
61	1929...dollars	1.43	.....	1.60	.....	0.94	0.62	.....
62	Total annual charges (reported)[6] [7]....1939...dollars	26,392	1,784	13,566	.....	.....	12,533	.....
63	Average annual charge per acre irrigated....1939...dollars	1.86	0.23	1.73	.....	.....	0.63	.....
64	Area against which charges were assessed....1939...acres	16,835	7,838	11,826	.....	.....	20,935	.....
65	Average annual charge per acre assessed....1939...dollars	1.57	0.23	1.15	.....	.....	0.60	.....
66	Total charges collected[6]....1939...dollars	42,966	767	11,294	.....	.....	10,836	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars	436,504	336,369	1,456,614	34,212	.....	30,200	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	45	.....	138	3	77	71	.....
69	Area irrigated in these enterprises....1939...acres	19,129	.....	10,992	431	6,588	25,823	.....
70	Water delivered in these enterprises....1939...acre-feet	48,772	.....	19,689	491	14,749	51,184	.....
71	Average water delivered per acre irrigated....1939...acre-feet	2.5	.....	1.8	1.1	2.2	2.0	.....
72	Average cost of water per acre irrigated....1939...dollars	1.79	.....	1.53	0.87	0.97	0.59	.....
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	14	.....	1	1	3	12	.....
74	Irrigable area in these enterprises....1939...acres	15,299	.....	([5])	([5])	69	5,930	.....
75	Irrigated area in these enterprises....1939...acres	11,032	.....	([5])	([5])	69	4,666	.....
76	Area for which drains have been installed....1939...acres	3,484	.....	.....	([5])	69	873	.....
77	Additional area needing drainage....1939...acres	2,245	.....	([5])	.....	.....	448	.....

* Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Percent not shown when more than 1,000.
[3] Data are included only in State totals because less than 3 farms reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Wibaux	Yellowstone	All other counties[1]	
463	1,081	569	203	1,297	229	373	1,703	.....	1
532	1,023	597	266	1,833	324	469	1,748	.....	2
294	529	55	97	159	70	14	1,257	.....	3
260	236	9	80	88	90	1	1,102	.....	4
13.1	124.2	511.1	21.2	80.7	-22.2	(2)	14.1	.....	5
194	387	49	60	132	58	11	794	.....	6
180	188	7	52	73	69	.....	701	14	7
100	142	6	37	27	12	3	463	.....	8
80	48	2	28	15	21	.....	401	2	9
1,045,591	1,101,546	1,042,688	299,702	1,253,311	820,384	365,542	1,253,023	.....	10
795,400	590,729	214,970	116,485	148,631	474,304	12,232	299,966	.....	11
2,705	1,117	3,909	1,201	935	6,776	874	239	.....	12
693,213	507,801	193,209	104,495	141,562	461,465	10,792	207,050	.....	13
3,573	1,312	3,943	1,742	1,072	7,956	981	261	.....	14
102,187	82,928	21,761	11,990	7,069	12,839	1,440	92,916	.....	15
1,022	584	3,627	324	262	1,070	480	201	.....	16
1,181,440	1,468,160	1,257,600	629,760	3,252,480	912,000	568,960	1,686,400	.....	17
44,883	105,477	8,130	8,331	19,318	24,759	98	94,727	.....	18
35,391	83,017	2,832	7,782	19,027	22,357	98	91,068	.....	19
7	15	2	102	72	.....	.....	85	.....	20
9,485	22,445	5,296	447	219	2,402	.....	3,574	.....	21
49,060	58,241	438	9,350	12,185	29,744	.....	97,116	849	22
47,306	55,433	839	7,788	20,800	14,478	.....	101,378	4,679	23
-8.5	81.1	(2)	-10.9	58.5	-16.8	.....	-2.5	.....	24
63,735	142,640	9,788	9,222	53,880	31,963	490	117,410	.....	25
67,452	119,213	653	13,150	45,794	42,749	.....	145,591	3,410	26
146,265	222,521	1,291	21,462	93,308	48,091	.....	135,190	20,644	27
18,852	37,163	1,658	891	34,562	7,204	392	22,683	.....	28
18,392	60,972	215	3,800	33,609	13,005	.....	48,475	2,561	29
63,135	142,343	9,326	9,107	47,194	31,492	420	116,435	.....	30
62,745	92,786	653	12,150	41,119	38,086	.....	144,431	1,340	31
79,069	119,323	976	21,017	36,336	36,946	.....	123,506	14,500	32
0.6	53.4	(2)	-25.0	14.8	-17.3	.....	-19.4	.....	33
18,252	36,866	1,196	776	27,676	6,733	322	21,708	.....	34
13,685	34,545	215	2,800	28,934	8,342	.....	47,315	491	35
5.6	17.9	3.8	7.2	13.0	5.2	0.8	31.6	.....	36
11.2	17.5	1.0	13.4	4.8	4.9	.....	40.7	2.2	37
71.1	74.1	87.2	91.5	40.9	78.6	23.3	81.4	.....	38
78.2	62.8	67.1	77.0	29.6	78.1	.....	67.2	63.4	39
652,079	8,281,810	99,010	493,781	3,204,986	161,145	21,422	3,371,230	.....	40
617,102	8,255,045	94,401	474,512	3,204,596	155,273	21,422	3,369,465	.....	41
34,977	26,765	4,609	19,269	390	5,872	.....	1,765	.....	42
692,702	7,499,377	18,050	413,225	1,456,828	162,070	.....	3,351,972	68,320	43
1,032,451	2,698,814	26,231	483,790	1,006,823	234,750	.....	3,303,880	118,143	44
-5.9	10.4	448.5	19.5	120.0	-0.6	.....	0.6	.....	45
10.33	58.18	10.62	54.22	67.91	5.12	51.00	28.95	.....	46
11.04	80.82	27.64	34.01	35.43	4.26	.....	23.21	50.98	47
13.06	22.62	26.88	23.02	27.71	6.35	.....	26.75	8.15	48
14.53	78.52	12.18	59.27	165.91	6.51	218.59	35.59	.....	49
663,029	9,226,488	110,700	494,651	3,338,836	161,170	22,022	3,372,850	.....	50
695,552	9,549,433	18,050	413,225	1,521,528	187,070	.....	3,393,472	71,820	51
1,032,951	4,731,005	26,731	485,340	2,097,253	246,350	.....	3,491,298	270,837	52
-4.7	-3.4	513.3	19.7	119.4	-13.8	.....	-0.6	.....	53
10.40	64.68	11.31	53.64	61.97	5.04	44.94	28.73	.....	54
10.31	80.10	27.64	31.42	33.22	4.38	.....	23.31	21.06	55
7.06	21.26	20.71	22.61	22.48	5.12	.....	25.83	13.12	56
Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises					
149 / 1	84 / 1	55	10 / 3	35 / 2	50	5	49	.....	57
42,582 / (5)	103,941 / (5)	8,130	8,331 / 144	19,243 / (5)	23,545	77	94,415	.....	58
14,737 / (5)	46,031 / (5)	6,653	10,583 / 206	24,554 / (5)	13,542	180	101,213	.....	59
0.35 / (5)	0.44 / (5)	0.82	1.27 / 1.43	1.28 / (5)	0.58	2.34	1.07	.....	60
0.54 /	0.47 /	1.90	1.18 /	1.63 /	0.55	.....	1.28	0.98	61
7,201 /	48,398 /	.....	15,673 /	30,508 /	4,000	.....	153,264	.....	62
0.40 /	0.64 /	.....	2.08 /	1.73 /	1.00	.....	1.66	.....	63
19,772 /	79,332 /	.....	8,024 /	29,656 /	4,000	.....	98,542	.....	64
0.36 /	0.61 /	.....	1.95 /	1.03 /	1.00	.....	1.56	.....	65
6,071 /	28,113 / 224	.....	11,294 /	9,084 /	.....	.....	141,109	.....	66
3,775 /	6,984,229 / 17,280	.....	72,983 /	2,740,350 /	.....	.....	1,732,072	.....	67
143 / 1	97 /	55	10 / 3	36 / 2	52	5	43	.....	68
33,827 / (5)	104,679 /	8,130	8,331 / 144	10,022 / (5)	20,655	68	87,666	.....	69
49,843 / (5)	140,456 /	7,737	19,673 / 148	5,560 / (5)	18,306	89	229,869	.....	70
1.5 / (5)	1.3 /	1.0	2.4 / 1.0	0.5 / (5)	0.9	1.3	2.6	.....	71
0.41 / (5)	0.51 /	0.82	2.12 / 1.4	3.02 / (5)	0.49	2.23	1.63	.....	72
8 /	3 /	.....	3 /	8 /	1	3	13	.....	73
9,822 /	81,506 /	.....	7,954 /	29,275 /	(5)	110	102,521	.....	74
8,531 /	58,518 /	.....	7,525 /	8,113 /	(5)	46	80,361	.....	75
80 /	38,115 /	.....	1,792 /	1,577 /	.....	39	49,627	.....	76
2,606 /	1,239 /	.....	3,120 /	143 /	(5)	51	9,680	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Beaverhead	Big Horn	Blaine	Broadwater	Carbon	Carter
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	350,178,461	9,224,365	11,865,291	9,024,697	3,060,747	8,297,067	3,416,128
2	Land and buildings, irrigated farms....dollars..	163,836,136	9,003,680	4,927,444	4,479,584	2,648,697	6,964,651	72,580
	Operated by—							
3	(a) Owners and managers....dollars..	129,225,314	8,198,230	2,780,510	3,856,267	2,101,171	4,917,916	(1)
4	(b) Tenants....dollars..	34,610,822	805,450	2,146,934	623,317	547,526	2,046,735	(1)
5	Average, land and buildings, per farm....dollars..	10,859.42	22,122.06	9,642.75	9,654.28	12,983.81	8,716.71	18,145.00
6	per acre in farms....dollars..	10.23	7.16	10.99	5.82	9.79	17.69	4.14
7	Buildings, irrigated farms reporting value....number...	14,813	402	500	440	202	789	4
8	Total reported....dollars..	33,750,271	1,439,938	773,522	799,027	505,323	1,440,865	8,800
9	Average, per irrigated farm reporting....dollars..	2,278.42	3,581.94	1,547.04	1,815.97	2,501.60	1,826.19	2,200.00
10	per acre on all irrigated farms....dollars..	2.11	1.15	1.72	1.04	1.87	3.66	0.50
11	Buildings, nonirrigated farms reporting value....number...	25,333	49	568	579	61	264	621
12	Total reported....dollars..	32,860,604	82,745	614,551	689,200	87,400	247,867	576,460
13	Average, per nonirrigated farm reporting....dollars..	1,297.15	1,688.67	1,081.96	1,190.33	1,432.79	938.89	928.28
14	per acre on all nonirrigated farms....dollars..	1.08	2.23	0.51	0.80	1.55	1.31	0.46
15	Implements and machinery, irrigated farms reporting value..number...	13,990	392	451	438	200	763	4
16	Total reported....dollars..	16,967,155	707,545	749,167	642,255	255,064	827,031	8,200
17	Average, per irrigated farm reporting....dollars..	1,212.81	1,804.96	1,661.12	1,466.34	1,275.32	1,083.92	2,050.00
18	per acre, on all irrigated farms....dollars..	1.06	0.56	1.67	0.83	0.94	2.10	0.47
19	Implements and machinery, nonirrigated farms reporting value....number...	24,144	36	510	573	56	244	589
20	Total reported....dollars..	26,226,447	19,455	537,725	595,620	59,550	195,375	305,866
21	Average, per acre, on all nonirrigated farms....dollars..	0.86	0.52	0.45	0.69	1.05	1.03	0.24
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	[2] 5,581	345	36	63	139	253	8
23	1930...number....	[2] 4,474	427	37	47	143	220	14
24	1920...number....	6,035	521	38	87	211	258	10
25	Average size of enterprise based on irrigable area....1940...acres....	464	669	4,151	1,436	390	454	156
26	1930...acres....	586	678	2,336	1,847	306	513	138
27	1920[3]...acres....	717	1,008	2,310	2,188	519	607	304
28	Diversion dams....1940...number....	6,136	922	31	75	195	217	3
29	Main canals and laterals....1940...length, miles....	15,702.5	762.8	416.4	325.5	396.8	1,009.8	3.0
30	1930...length, miles....	15,957	1,399	413	449	339	899	5
31	1920...length, miles....	22,496	2,673	413	657	640	1,061	26
32	1940...capacity, c.f.s.[4]....	66,745	11,746	1,683	851	1,763	3,164	22
33	1930...capacity, c.f.s.[4]....	53,253	5,809	1,080	1,145	1,107	4,088	54
34	1920...capacity, c.f.s.[4]....	94,429	10,119	1,540	2,110	1,883	3,772	70
35	Pipe lines[5]....1940...length, miles....	148.1	1.0	0.3	0.6	0.1	2.1	.....
36	Storage dams....1940...number....	468	11	3	23	2	4	4
37	Reservoirs....1940...number....	517	10	3	25	2	4	5
38	1930...number....	282	19	2	21	1	2	3
39	1920...number....	468	25	8	45	4	1	13
40	1940...capacity, acre-feet..	1,301,422	131,441	60,580	17,144	(6)	31,020	850
41	1930...capacity, acre-feet..	857,067	56,947	10	15,434	1	3	113
42	1920...capacity, acre-feet..	1,571,720	136,446	128	15,671	211	91	1,513
43	Wells, flowing....1940...number....	44	.....	.....	1	.....	.....	.....
44	1930...number....	40	.....	.....	.....	.....	1	.....
45	1920...number....	41	1	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	9,834	.....	.....	(6)	.....	.....	.....
47	1930...yield, g.p.m....	4,106	.....	.....	.....	.....	100	.....
48	1920...yield, g.p.m....	4,608	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	102	.....	.....	.....	.....	.....	.....
50	1930...number....	49	.....	.....	.....	.....	.....	.....
51	1920...number....	22	.....	.....	.....	5	.....	.....
52	1940...yield, g.p.m....	33,883	.....	.....	.....	.....	.....	.....
53	1930...yield, g.p.m....	18,653	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m....	11,085	.....	.....	.....	.....	.....	.....
55	Pumping plants....1940...number....	651	.....	6	22	2	7	1
56	1930...number....	198	.....	4	4	.....	2	.....
57	1920...number....	253	.....	9	7	8	4	.....
58	Prime movers....1940...capacity, hp....	29,110	.....	85	636	(6)	121	(6)
59	1930...capacity, hp....	9,095	.....	46	145	.....	12	.....
60	1920...capacity, hp....	10,341	.....	172	136	94	26	.....
61	Pumps....1940...capacity, g.p.m....	1,309,014	.....	7,600	76,356	(6)	5,895	(6)
62	1930...capacity, g.p.m....	523,494	.....	2,600	29,150	.....	1,410	.....
63	1920...capacity, g.p.m....	453,231	.....	10,225	8,785	2,688	1,741	.....
64	Pumping lift, from all sources....1940...average, feet....	21	.....	14	14	(6)	18	(6)
65	1930...average, feet....	22	.....	9	10	.....	9	.....
66	1920...average, feet....	20	.....	14	20	16	10	.....
67	from pumped wells....1940...average, feet....	24	.....	.....	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll....number...	269	6	6	8	3	36	.....
69	Irrigated area in these enterprises....acres....	827,767	13,360	53,797	41,606	6,170	48,003	.....
70	Wages and salaries paid and payable....dollars..	1,501,148	6,581	107,603	39,399	1,287	20,527	.....
71	Persons employed during week ending April 29....number...	1,904	18	164	49	6	125	.....

*Census of Agriculture. [1]Data are included only in State totals because less than 3 farms reported in the 1940 Census. [2]Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1. [3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [5]Includes siphons and farm pipe lines reported. [6]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [7]Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Cascade	Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon	Fergus
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	14,353,419	15,298,607	4,490,508	5,338,365	4,149,392	1,362,225	3,472,845	14,126,965
2	Land and buildings, irrigated farms.....dollars..	3,894,956	1,492,594	1,778,771	(1)	289,276	1,204,065	.....	2,570,593
	Operated by—								
3	(a) Owners and managers.....dollars..	3,287,696	1,342,294	1,583,741	(1)	235,276	1,023,505	.....	2,139,302
4	(b) Tenants.....dollars..	607,260	150,300	195,030	.....	54,000	180,560	.....	431,291
5	Average, land and buildings, per farm.....dollars..	10,222.98	17,768.98	12,183.36	(1)	8,035.44	8,788.80	.....	17,368.87
6	per acre in farms.....dollars..	9.32	5.74	5.00	(1)	4.46	22.70	.....	6.45
7	Buildings, irrigated farms reporting value.....number...	376	84	143	(1)	36	136	.....	147
8	Total reported.....dollars..	910,905	190,835	425,540	(1)	60,691	366,250	.....	428,678
9	Average, per irrigated farm reporting.....dollars..	2,422.62	2,271.85	2,975.80	(1)	1,685.86	2,693.01	.....	2,916.18
10	per acre on all irrigated farms.....dollars..	2.18	0.73	1.20	(1)	0.94	6.90	.....	1.08
11	Buildings, nonirrigated farms reporting value.....number...	987	1,217	345	(1)	734	42	474	1,295
12	Total reported.....dollars..	2,223,910	1,695,202	475,152	(1)	875,295	89,220	571,875	1,909,145
13	Average, per nonirrigated farm reporting.....dollars..	2,253.23	1,392.94	1,377.25	(1)	1,192.50	2,124.29	1,206.49	1,474.47
14	per acre on all nonirrigated farms.....dollars..	2.59	0.93	0.50	(1)	1.00	13.61	0.74	1.45
15	Implements and machinery, irrigated farms reporting value..number...	363	80	114	(1)	35	106	.....	146
16	Total reported.....dollars..	448,402	145,478	155,426	(1)	43,450	128,680	.....	266,487
17	Average, per irrigated farm reporting.....dollars..	1,235.27	1,818.48	1,363.39	(1)	1,241.43	1,213.96	.....	1,825.25
18	per acre, on all irrigated farms.....dollars..	1.07	0.56	0.44	(1)	0.67	2.43	.....	0.67
19	Implements and machinery, nonirrigated farms reporting value.....number...	946	1,232	334	(1)	699	22	465	1,295
20	Total reported.....dollars..	1,238,465	2,072,724	208,300	(1)	635,641	18,910	414,526	1,495,646
21	Average, per acre, on all nonirrigated farms.....dollars..	1.44	1.14	0.22	(1)	0.72	2.88	0.54	1.13
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1 –								
22	Enterprises.....1940...number.....	97	77	62	3	27	81	7	116
23	1930...number.....	36	58	25	1	11	75	1	84
24	1920...number.....	100	98	44	.....	14	90	.....	232
25	Average size of enterprise based on irrigable area.....1940...acres.....	517	141	476	167	782	267	187	215
26	1930...acres.....	1,849	173	931	.....	422	365	.....	206
27	1920[2]...acres.....	1,444	411	588	.....	547	446	.....	417
28	Diversion dams.....1940...number.....	51	50	57	2	11	109	3	129
29	Main canals and laterals.....1940...length, miles.....	286.3	132.6	122.6	5.0	101.0	214.2	7.0	194.1
30	1930...length, miles.....	198	240	57	.....	15	266	.....	185
31	1920...length, miles.....	260	692	92	.....	20	350	.....	775
32	1940...capacity, c.f.s.[3]....	657	261	757	25	951	714	38	691
33	1930...capacity, c.f.s.[3]....	411	238	463	.....	66	690	.....	469
34	1920...capacity, c.f.s.[3]....	1,264	972	882	.....	83	1,304	.....	3,283
35	Pipe lines[4].....1940...length, miles.....	12.5	0.3	3.5	.....	1.9	0.5	.....	0.5
36	Storage dams.....1940...number.....	8	20	24	1	17	10	4	12
37	Reservoirs.....1940...number.....	8	25	27	1	19	9	4	17
38	1930...number.....	2	11	3	.....	4	2	.....	2
39	1920...number.....	15	27	18	.....	2	9	.....	16
40	1940...capacity, acre-feet..	57	1,031	2,587	(5)	1,655	1,691	717	587
41	1930...capacity, acre-feet..	16,600	3,170	177	.....	18	61	.....	201
42	1920...capacity, acre-feet..	218,086	3,124	844	.....	2	109	.....	31,638
43	Wells, flowing.....1940...number.....	1	.....	1	.....	.....	.....	.....	1
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	1	.....	.....	1	.....	.....
46	1940...yield, g.p.m.....	(5)	.....	(5)	.....	.....	.....	.....	(5)
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	1	.....	.....	2,250	.....	.....
49	Wells, pumped.....1940...number.....	.....	3	.....	.....	5	2	.....	1
50	1930...number.....	2	2	.....	.....	.....	.....	.....	.....
51	1920...number.....	.....	1	.....	.....	.....	.....	.....	1
52	1940...yield, g.p.m.....	.....	380	.....	.....	1,238	(5)	.....	(5)
53	1930...yield, g.p.m.....	660	1,600	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	.....	10	.....	.....	.....	.....	.....	1,500
55	Pumping plants.....1940...number.....	63	47	21	.....	10	2	.....	13
56	1930...number.....	13	17	8	.....	.....	1	.....	3
57	1920...number.....	22	26	12	.....	4	.....	.....	14
58	Prime movers.....1940...capacity, hp.....	915	1,095	683	.....	82	(5)	.....	225
59	1930...capacity, hp.....	115	247	446	.....	.....	8	.....	24
60	1920...capacity, hp.....	565	577	375	.....	487	.....	.....	204
61	Pumps.....1940...capacity, g.p.m.....	61,590	84,876	78,635	.....	5,028	(5)	.....	18,410
62	1930...capacity, g.p.m.....	9,613	17,400	62,097	.....	.....	75	.....	2,635
63	1920...capacity, g.p.m.....	32,310	42,260	28,250	.....	7,750	.....	.....	16,180
64	Pumping lift, from all sources.....1940...average, feet.....	19	19	15	.....	19	(5)	.....	16
65	1930...average, feet.....	20	16	17	.....	.....	180	.....	7
66	1920...average, feet.....	18	18	14	.....	41	.....	.....	14
67	from pumped wells.....1940...average, feet.....	.....	18	.....	.....	18	(5)	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll.....number...	4	.....	2	.....	2	1	.....	1
69	Irrigated area in these enterprises.....acres...	24,138	.....	(5)	.....	(5)	(5)	.....	(5)
70	Wages and salaries paid and payable.....dollars..	22,500	.....	(5)	.....	(5)	(5)	.....	(5)
71	Persons employed during week ending April 29.....number...	25	.....	(5)	.....	(5)	.....	.....	.....

*Census of Agriculture. [1]Data are included only in State totals because less than 3 farms reported in the 1940 Census. [2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4]Includes siphons and farm pipe lines reported. [5]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [6]Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Flathead	Gallatin	Garfield	Glacier	Golden Valley	Granite	Hill
	FARM VALUES, 1940[c]							
1	Land and buildings, all farms.....dollars..	9,580,230	18,125,465	1,657,211	4,809,140	1,536,919	2,991,917	9,195,041
2	Land and buildings, irrigated farms.....dollars..	1,456,955	14,621,463	30,060	792,836	614,640	2,871,862	1,098,043
	Operated by—							
3	(a) Owners and managers.....dollars..	1,270,475	7,858,518	[1]	732,486	571,303	2,540,602	924,243
4	(b) Tenants.....dollars..	186,480	6,762,945	[1]	60,350	43,337	331,260	173,800
5	Average, land and buildings, per farm.....dollars..	6,872.43	17,081.15	3,757.50	12,388.06	9,756.19	16,600.36	16,637.02
6	per acre in farms.....dollars..	27.02	23.48	3.12	5.32	2.88	10.11	7.86
7	Buildings, irrigated farms reporting value.....number...	210	844	8	64	61	171	65
8	Total reported.....dollars..	434,700	2,554,182	2,950	115,725	107,210	586,712	212,000
9	Average, per irrigated farm reporting.....dollars..	2,070.00	3,026.28	368.75	1,808.20	1,757.54	3,431.06	3,261.54
10	per acre on all irrigated farms.....dollars..	8.06	4.10	0.31	0.78	0.50	2.07	1.52
11	Buildings, nonirrigated farms reporting value.....number...	1,474	361	548	398	200	30	1,130
12	Total reported.....dollars..	2,486,189	789,540	338,820	591,684	176,085	27,190	1,313,605
13	Average, per nonirrigated farm reporting.....dollars..	1,686.70	2,187.09	618.28	1,486.64	880.42	906.33	1,162.48
14	per acre on all nonirrigated farms.....dollars..	10.95	3.43	0.39	0.88	0.44	2.07	1.03
15	Implements and machinery, irrigated farms reporting value..number...	188	785	8	60	63	166	62
16	Total reported.....dollars..	149,045	1,202,227	6,300	83,683	74,410	210,836	111,850
17	Average, per irrigated farm reporting.....dollars..	792.79	1,531.50	787.50	1,394.72	1,181.11	1,270.10	1,804.03
18	per acre, on all irrigated farms.....dollars..	2.76	1.93	0.66	0.56	0.35	0.74	0.80
19	Implements and machinery, nonirrigated farms reporting value.....number...	1,229	315	526	404	196	30	1,117
20	Total reported.....dollars..	743,031	456,818	265,775	549,388	147,170	10,450	1,563,739
21	Average, per acre, on all nonirrigated farms.....dollars..	3.27	1.98	0.30	0.82	0.37	0.80	1.22
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	135	301	19	5	28	110	48
23	1930...number.....	55	272	9	5	34	146	29
24	1920...number.....	129	463	2	2	.....	170	42
25	Average size of enterprise based on irrigable area.....1940...acres.....	68	465	174	10,648	154	233	225
26	1930...acres.....	142	544	87	16,520	177	196	278
27	1920[2]...acres.....	252	621	2,045	59,250	.....	343	353
28	Diversion dams.....1940...number.....	118	254	8	2	19	230	36
29	Main canals and laterals.....1940...length, miles.....	127.5	618.1	28.0	209.8	37.0	360.6	48.4
30	1930...length, miles.....	88	978	11	390	81	383	68
31	1920...length, miles.....	422	1,396	15	114	.....	316	186
32	1940...capacity, c.f.s.[3]....	425	3,790	109	1,201	80	1,290	212
33	1930...capacity, c.f.s.[3]....	255	3,540	59	1,220	233	745	163
34	1920...capacity, c.f.s.[3]....	1,292	5,315	3	341	.....	1,822	235
35	Pipe lines[4].....1940...length, miles.....	11.2	2.5	1.1	1.1	.....	0.9	0.3
36	Storage dams.....1940...number.....	14	2	10	2	1	2	24
37	Reservoirs.....1940...number.....	11	3	11	2	4	2	30
38	1930...number.....	4	1	6	3	.....	2	20
39	1920...number.....	11	4	.....	3	.....	2	31
40	1940...capacity, acre-feet..	7,622	9,501	1,060	[5]82,000	85	(6)	132,200
41	1930...capacity, acre-feet..	12,103	3	322	98,000	.....	5	1,355
42	1920...capacity, acre-feet..	38,101	2,199	.....	95,000	.....	330	7,205
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	1
45	1920...number.....	9	.....	.....	.....	.....	.....	1
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	8
48	1920...yield, g.p.m.....	1,083	.....	.....	.....	.....	.....	50
49	Wells, pumped.....1940...number.....	7	1	.....	1	.....	1	2
50	1930...number.....	.....	.....	.....	.....	.....	1	2
51	1920...number.....	.....	.....	.....	.....	.....	.....	1
52	1940...yield, g.p.m.....	1,640	(6)	.....	(6)	.....	(6)	(6)
53	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	500	4,171
54	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	3,000
55	Pumping plants.....1940...number.....	39	4	5	2	5	3	12
56	1930...number.....	17	1	2	.....	1	1	5
57	1920...number.....	15	6	.....	.....	.....	.....	12
58	Prime movers.....1940...capacity, hp.....	332	46	125	(6)	87	26	108
59	1930...capacity, hp.....	158	15	7	.....	5	15	127
60	1920...capacity, hp.....	170	115	.....	.....	.....	.....	352
61	Pumps.....1940...capacity, g.p.m.....	18,427	5,956	8,200	(6)	7,800	3,260	15,516
62	1930...capacity, g.p.m.....	11,080	2,300	1,270	.....	900	500	15,009
63	1920...capacity, g.p.m.....	9,165	6,729	.....	.....	.....	.....	21,335
64	Pumping lift, from all sources.....1940...average, feet.....	21	18	16	(6)	13	13	11
65	1930...average, feet.....	22	13	12	.....	10	3	17
66	1920...average, feet.....	38	14	.....	.....	.....	.....	16
67	from pumped wells.....1940...average, feet.....	18	(6)	.....	(6)	.....	(6)	(6)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	1	33	.....	1	1	1	1
69	Irrigated area in these enterprises.....acres....	(6)	70,209	.....	(6)	(6)	(6)	(6)
70	Wages and salaries paid and payable.....dollars..	(6)	17,444	.....	(6)	(6)	(6)	(6)
71	Persons employed during week ending April 29.....number...	(6)	29	.....	(6)	.....	(6)	(6)

[c] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Jefferson	Judith Basin	Lake	Lewis and Clark	Liberty	Lincoln	McCone	Madison	Meagher	Mineral	Missoula	Mussel-shell	Park	Petroleum	
2,274,761	6,265,977	9,031,603	6,023,476	5,419,827	1,645,218	3,550,602	8,033,051	4,862,099	463,800	5,529,990	1,654,156	7,335,009	842,890	1
1,607,926	1,133,104	6,919,710	5,261,603	77,810	819,035	223,375	7,659,124	4,352,924	256,250	4,913,350	399,493	6,518,158	314,540	2
1,324,831	1,015,468	5,694,625	4,747,353	77,810	728,615	160,335	6,489,349	4,103,464	226,450	4,148,890	344,393	4,972,293	243,940	3
283,095	117,636	1,225,085	514,250	.....	90,420	63,040	1,169,775	249,460	29,800	764,460	55,100	1,545,865	70,600	4
8,418.46	22,217.73	5,714.05	14,068.46	19,452.50	4,157.54	7,702.59	13,297.09	34,547.02	5,229.59	7,937.56	7,989.86	13,579.50	12,097.69	5
7.59	6.27	25.40	6.52	3.72	15.55	4.37	10.26	5.34	17.22	23.87	2.71	10.41	4.07	6
187	50	1,192	370	4	192	29	567	124	49	610	50	475	24	7
436,950	151,263	1,823,191	1,108,686	4,300	198,375	38,350	1,635,995	442,920	82,650	1,542,661	72,100	1,276,574	29,300	8
2,336.63	3,025.26	1,529.52	2,996.45	1,075.00	1,033.20	1,322.41	2,885.35	3,571.94	1,686.73	2,528.95	1,442.00	2,687.52	1,220.83	9
2.06	0.84	6.69	1.37	0.21	3.77	0.75	2.19	0.54	5.55	7.50	0.49	2.04	0.38	10
136	524	458	152	375	328	672	77	96	61	152	259	139	151	11
186,625	836,407	556,929	207,402	752,650	262,579	549,159	95,795	85,915	52,890	243,270	204,880	228,300	80,385	12
1,372.24	1,596.20	1,216.00	1,364.49	2,007.07	800.55	817.20	1,244.09	894.95	867.05	1,600.46	791.04	1,642.45	532.35	13
2.21	1.30	2.79	1.58	0.95	4.98	0.57	1.51	1.00	3.98	5.30	0.36	2.60	0.42	14
171	50	1,114	356	4	169	29	554	123	48	588	47	427	26	15
163,971	114,015	821,813	392,624	5,700	92,762	36,165	798,473	233,460	23,345	387,686	42,019	581,066	27,430	16
958.89	2,280.30	737.71	1,102.88	1,425.00	548.89	1,247.07	1,441.29	1,898.05	486.35	659.33	894.02	1,360.81	1,055.00	17
0.77	0.63	3.02	0.49	0.27	1.76	0.71	1.07	0.29	1.57	1.88	0.29	0.93	0.35	18
109	509	395	129	399	274	658	52	90	55	130	247	110	146	19
88,460	765,530	155,866	74,205	1,046,120	101,196	566,179	40,675	50,910	18,625	60,875	187,433	87,051	69,954	20
1.05	1.19	0.78	0.57	1.33	1.92	0.59	0.64	0.60	1.40	1.33	0.32	0.99	0.37	21
123	39	158	304	5	153	38	365	122	46	219	41	251	28	22
124	43	98	180	9	92	2	358	125	31	193	22	282	17	23
175	.....	.....	311	.....	64	.....	517	137	57	253	47	314	.....	24
264	316	795	186	201	60	146	281	367	38	202	145	280	655	25
659	237	1,240	290	128	100	.....	345	400	39	155	261	318	972	26
492	.....	.....	303	.....	215	.....	513	440	117	620	410	401	.....	27
103	44	76	264	3	156	12	299	125	59	240	18	260	37	28
271.5	71.1	965.6	383.6	3.0	132.3	44.0	841.8	344.7	38.7	432.2	57.2	448.4	97.0	29
286	89	896	323	19	96	.....	785	353	11	232	32	788	90	30
492	.....	.....	742	.....	105	.....	1,561	617	43	1,189	204	878	.....	31
1,021	497	996	2,129	32	411	153	3,688	664	116	1,404	201	2,242	1,050	32
756	211	669	880	23	258	.....	3,069	1,067	24	866	185	2,727	1,091	33
9,547	.....	.....	2,356	.....	577	.....	6,290	1,546	239	2,404	671	3,180	.....	34
0.5	1.0	15.9	3.4	6.0	8.2	.....	1.2	1.1	3.3	6.9	0.4	1.0	.....	35
11	5	17	6	.....	6	20	13	6	2	13	1	3	7	36
13	6	23	6	1	6	23	13	5	2	15	2	3	7	37
10	.....	11	14	12	1	.....	17	2	2	5	2	1	3	38
11	.....	.....	31	.....	10	.....	37	7	6	8	2	7	.....	39
10,094	6,130	107,596	16,826	(6)	3,096	2,276	57,923	906	(6)	1,114	(6)	375	28,285	40
6,072	.....	60,638	74	669	6,500	.....	3,083	700	81	336	205	800	27,001	41
8,288	.....	.....	651,071	.....	313	.....	24,879	181	129	43,297	129	8,029	.....	42
.....	.....	27	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	43
.....	.....	20	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	44
.....	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	7,100	(6)	.....	.....	.....	.....	.....	.....	(6)	.....	.....	.....	46
.....	.....	1,960	.....	.....	.....	.....	.....	.....	.....	125	.....	.....	.....	47
.....	.....	.....	5	.....	30	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	6	29	.....	2	.....	1	.....	1	7	10	1	.....	49
7	.....	.....	8	1	.....	.....	.....	.....	.....	4	4	3	1	50
.....	.....	.....	7	.....	.....	.....	.....	.....	.....	2	.....	1	.....	51
.....	.....	285	8,105	.....	(6)	.....	(6)	.....	(6)	1,120	3,725	(6)	.....	52
978	.....	.....	1,896	5	.....	.....	.....	.....	.....	598	2,265	465	500	53
.....	.....	.....	1,445	.....	.....	.....	.....	.....	.....	.....	.....	40	.....	54
2	.....	26	51	6	7	8	3	.....	2	20	26	2	7	55
5	.....	1	20	3	4	.....	2	.....	.....	13	12	9	3	56
1	.....	.....	14	.....	1	.....	.....	.....	3	5	5	1	.....	57
(6)	.....	9,195	4,036	235	33	232	29	.....	(6)	235	296	(6)	170	58
24	.....	2	3,882	121	11	.....	40	.....	.....	93	155	311	32	59
10	.....	.....	3,884	.....	.....	.....	.....	.....	43	32	86	15	.....	60
(6)	.....	102,331	105,295	14,500	2,030	17,810	1,840	.....	(6)	13,195	31,475	(6)	13,100	61
980	.....	80	89,365	3,645	4,650	.....	2,250	.....	.....	5,530	13,550	18,715	3,600	62
280	.....	.....	77,949	.....	5	.....	.....	.....	361	2,141	11,970	.....	.....	63
(6)	.....	63	24	22	15	20	19	.....	(6)	37	13	(6)	17	64
44	.....	35	34	35	15	.....	6	.....	.....	36	16	20	13	65
33	.....	.....	45	.....	10	.....	.....	.....	28	22	20	18	.....	66
.....	.....	32	23	.....	(6)	.....	(6)	.....	(6)	53	14	(6)	.....	67
8	1	5	3	.....	2	.....	21	1	.....	11	.....	5	.....	68
5,838	(6)	67,634	10,503	.....	(6)	.....	26,340	.....	.....	14,584	.....	8,297	.....	69
2,661	(6)	227,832	13,247	.....	(6)	.....	7,859	(6)	.....	9,403	.....	1,825	.....	70
1	(6)	301	22	.....	(6)	.....	15	(6)	.....	24	.....	17	.....	71

[4] Includes siphons and farm pipe lines reported.
[5] Data for less than 3 enterprises shown with permission of the enterprises involved.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

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COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Phillips	Pondera	Powder River	Powell	Prairie	Ravalli	Richland
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	6,581,800	11,306,414	3,462,844	5,761,632	1,757,440	8,773,891	7,211,866
2	Land and buildings, irrigated farms....dollars..	2,919,098	6,301,741	230,500	5,454,528	100,334	8,582,811	2,989,037
	Operated by—							
3	(a) Owners and managers....dollars..	2,434,425	4,943,137	(2)	4,901,508	100,334	6,959,238	2,072,327
4	(b) Tenants....dollars..	484,673	1,358,604	(2)	553,020	.....	1,623,573	916,710
5	Average, land and buildings, per farm....dollars..	9,602.30	15,184.92	10,021.74	20,898.57	11,148.22	6,014.58	7,605.69
6	per acre in farms....dollars..	6.64	14.02	2.68	9.04	3.64	28.06	21.64
7	Buildings, irrigated farms reporting value....number...	298	391	23	258	9	1,388	385
8	Total reported....dollars..	648,963	840,183	42,050	1,066,381	25,980	2,463,931	746,410
9	Average, per irrigated farm reporting....dollars..	2,177.73	2,148.81	1,828.26	4,133.26	2,886.67	1,775.17	1,938.73
10	per acre on all irrigated farms....dollars..	1.20	1.87	0.49	1.77	0.94	8.06	5.40
11	Buildings, nonirrigated farms reporting value....number...	705	404	653	45	235	67	769
12	Total reported....dollars..	614,917	749,435	631,310	58,100	313,580	68,930	962,882
13	Average, per nonirrigated farm reporting....dollars..	872.22	1,855.04	966.78	1,291.11	1,334.38	1,028.81	1,252.12
14	per acre on all nonirrigated farms....dollars..	0.74	1.99	0.50	1.09	0.67	5.39	1.26
15	Implements and machinery, irrigated farms reporting value..number...	290	393	21	251	9	1,274	375
16	Total reported....dollars..	362,197	823,469	24,595	384,889	9,710	886,035	575,870
17	Average, per irrigated farm reporting....dollars..	1,248.96	2,095.34	1,171.19	1,533.42	1,078.89	695.47	1,535.65
18	per acre, on all irrigated farms....dollars..	0.67	1.83	0.29	0.64	0.35	2.90	4.17
19	Implements and machinery, nonirrigated farms reporting value....number...	681	416	615	36	240	46	753
20	Total reported....dollars..	526,617	794,174	377,081	19,760	224,698	16,186	745,800
21	Average, per acre, on all nonirrigated farms....dollars..	0.63	2.11	0.30	0.47	0.62	1.26	0.98
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	39	26	25	229	8	455	29
23	1930...number....	38	22	5	196	5	295	4
24	1920...number....	36	30	.....	272	10	449	9
25	Average size of enterprise based on irrigable area....1940...acres....	2,322	4,844	119	322	244	266	1,331
26	1930...acres....	2,229	4,555	.....	381	147	373	9,595
27	1920[3]...acres....	2,365	7,091	.....	495	83	320	4,598
28	Diversion dams....1940...number....	37	28	44	445	4	503	9
29	Main canals and laterals....1940...length, miles....	331.4	639.1	15.1	577.3	14.0	809.2	196.2
30	1930...length, miles....	367	593	.....	411	2	927	212
31	1920...length, miles....	244	642	.....	871	9	892	138
32	1940...capacity, c.f.s.[4]....	695	1,163	55	2,110	361	3,176	69
33	1930...capacity, c.f.s.[4]....	1,172	1,429	.....	1,149	30	2,448	872
34	1920...capacity, c.f.s.[4]....	852	3,184	.....	3,233	55	3,430	672
35	Pipe lines[5]....1940...length, miles....	14.2	2.8	.....	0.4	0.3	3.1	.....
36	Storage dams....1940...number....	23	8	6	15	6	19	14
37	Reservoirs....1940...number....	23	8	8	16	6	19	16
38	1930...number....	19	11	.....	7	3	14	.....
39	1920...number....	8	6	.....	8	3	10	4
40	1940...capacity, acre-feet..	81,829	162,707	325	19,015	35	45,916	955
41	1930...capacity, acre-feet..	84,710	141,760	.....	4,675	43	46,453	.....
42	1920...capacity, acre-feet..	48,221	62,800	.....	276	8	7,634	395
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	3	.....	.....	5	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	1,000	.....	.....	104	.....	.....
49	Wells, pumped....1940...number....	3	.....	.....	2	.....	2	.....
50	1930...number....	.....	.....	.....	6	.....	.....	.....
51	1920...number....	.....	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m....	3,350	.....	.....	(6)	.....	(6)	.....
53	1930...yield, g.p.m....	.....	.....	.....	700	.....	.....	.....
54	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
55	Pumping plants....1940...number....	15	2	4	4	3	4	10
56	1930...number....	3	.....	.....	1	1	.....	1
57	1920...number....	6	.....	.....	1	3	.....	3
58	Prime movers....1940...capacity, hp....	206	(6)	70	41	3,015	17	422
59	1930...capacity, hp....	100	.....	.....	4	15	.....	220
60	1920...capacity, hp....	154	.....	.....	16	462	.....	125
61	Pumps....1940...capacity, g.p.m....	14,650	(6)	6,900	4,200	99,336	1,245	34,000
62	1930...capacity, g.p.m....	5,000	.....	.....	700	500	.....	20,000
63	1920...capacity, g.p.m....	10,420	.....	.....	650	19,015	.....	9,750
64	Pumping lift, from all sources....1940...average, feet....	19	(6)	10	16	68	16	20
65	1930...average, feet....	14	.....	.....	10	30	.....	31
66	1920...average, feet....	18	.....	.....	12	24	.....	20
67	from pumped wells....1940...average, feet....	20	.....	.....	(6)	.....	(6)	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll....number...	3	4	.....	4	1	34	1
69	Irrigated area in these enterprises....acres....	24,525	52,784	.....	3,010	.....	57,623	(6)
70	Wages and salaries paid and payable....dollars..	29,740	63,309	.....	1,570	(6)	43,292	(6)
71	Persons employed during week ending April 29....number...	23	41	.....	20	(6)	196	(6)

*Census of Agriculture.
[1]Data between census years not comparable (see headnote).
[2]Data are included only in State totals because less than 3 farms reported in the 1940 Census.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Roosevelt	Rosebud	Sanders	Sheridan	Silver Bow	Stillwater	Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Wibaux	Yellow-stone	All other counties[1]	
6,580,128	7,027,992	3,610,256	7,112,214	881,760	6,424,124	5,748,036	13,362,114	7,000,987	1,329,938	8,522,999	3,070,000	2,152,871	14,190,152	.....	1
68,890	1,986,079	1,781,352	76,323	570,755	3,630,955	4,756,905	5,837,559	1,561,647	811,324	1,696,388	1,999,860	86,630	11,092,008	.....	2
(2)	1,541,969	1,536,752	(2)	433,255	2,597,830	3,869,630	4,727,744	1,466,079	623,919	1,566,625	1,919,460	69,630	7,330,918	.....	3
(2)	444,110	244,600	(2)	137,500	1,033,125	887,275	1,109,815	95,568	187,405	129,763	80,400	17,000	3,761,090	.....	4
4,305.62	10,564.25	4,880.42	10,903.29	5,945.36	10,085.99	16,179.95	11,035.08	25,393.58	8,364.16	10,669.41	28,569.43	6,187.86	8,824.19	.....	5
9.93	6.10	12.48	5.95	9.54	14.12	5.98	9.88	7.26	6.97	11.41	4.22	7.08	36.98	.....	6
12	185	354	7	91	356	294	511	55	97	155	70	13	1,254	.....	7
16,290	387,384	481,643	18,086	164,275	721,265	824,948	1,268,912	230,225	180,540	278,070	324,270	32,000	2,770,597	.....	8
1,357.50	2,093.97	1,360.57	2,583.71	1,805.22	2,026.03	2,805.95	2,483.19	4,185.91	1,861.24	1,794.00	4,632.43	2,461.54	2,209.41	.....	9
2.35	1.19	3.38	1.41	2.74	2.81	1.04	2.15	1.07	1.55	1.87	0.68	2.62	9.24	.....	10
977	486	474	1,091	100	419	167	517	482	101	1,076	154	326	431	.....	11
1,124,425	511,190	475,477	1,316,930	139,565	548,851	240,609	1,039,245	732,500	90,450	1,077,140	138,835	462,464	502,947	.....	12
1,150.90	1,051.83	1,003.12	1,207.09	1,395.65	1,309.91	1,440.77	2,010.15	1,519.71	895.54	1,001.06	901.53	1,418.60	1,166.93	.....	13
1.41	0.38	2.88	1.53	5.17	1.00	0.96	2.03	0.88	0.49	0.98	0.40	1.31	0.53	.....	14
10	186	323	7	82	335	284	498	55	95	157	67	14	1,132	.....	15
8,745	332,389	179,245	10,698	57,565	291,355	302,625	773,059	134,788	162,670	226,683	125,232	18,195	1,337,876	.....	16
874.50	1,787.04	554.94	1,528.29	702.01	869.72	1,065.58	1,552.33	2,450.69	1,712.32	1,443.84	1,869.13	1,299.64	1,181.87	.....	17
1.26	1.02	1.26	0.83	0.96	1.13	0.38	1.31	0.63	1.40	1.53	0.26	1.49	4.46	.....	18
897	458	426	1,126	78	393	153	500	481	103	1,063	142	327	389	.....	19
1,184,292	307,041	173,562	1,271,003	51,015	426,819	98,166	1,102,869	1,028,432	83,765	1,146,460	107,369	369,427	471,658	.....	20
1.49	0.23	1.05	1.48	1.89	0.77	0.39	2.16	1.24	0.46	1.04	0.31	1.05	0.49	.....	21
14	60	162	4	85	111	155	104	55	14	41	54	9	50	.....	22
2	26	106	5	79	114	101	15	5	5	19	86	1	40	.....	23
8	36	83	.....	144	128	164	62	10	15	30	61	.....	48	54	24
1,552	564	136	278	100	347	411	1,372	178	659	1,314	592	54	2,348	.....	25
21,000	834	190	.....	133	320	668	7,948	131	2,630	2,410	497	.....	3,640	.....	26
14,494	1,020	320	.....	142	386	892	3,589	129	1,431	3,110	788	.....	2,816	382	27
4	100	153	5	74	81	108	97	77	2	16	110	2	19	.....	28
123.2	193.5	240.1	8.1	59.1	199.5	520.3	914.9	223.1	55.7	265.1	234.0	3.1	542.9	.....	29
150	114	166	.....	76	247	442	572	7	60	227	216	.....	688	16	30
111	138	158	.....	256	364	706	527	17	74	175	391	.....	758	86	31
126	876	553	112	561	1,852	1,511	3,710	396	388	1,410	996	21	1,570	.....	32
313	526	310	.....	226	971	1,697	2,756	13	368	1,201	1,048	.....	2,996	67	33
287	1,540	1,343	.....	720	1,600	3,173	2,239	46	397	4,324	1,179	.....	2,545	510	34
0.1	0.4	4.2	0.1	1.6	1.2	0.2	1.4	1.1	1.1	18.0	0.2	0.1	8.3	.....	35
.....	11	8	1	5	.....	5	15	8	2	4	2	7	1	.....	36
.....	10	8	1	5	.....	3	16	8	2	5	2	11	3	.....	37
.....	5	6	.....	3	2	5	5	1	.....	5	2	.....	3	3	38
6	1	1	.....	6	3	9	6	7	.....	13	5	.....	3	16	39
.....	690	36,840	(6)	154	.....	18,840	188,058	521	(6)	4,515	(6)	389	2,800	.....	40
.....	100	32,092	.....	143	175	14,070	207,000	50	.....	10,661	2,723	.....	1,707	23	41
50,095	40	3,778	.....	12	2	18,153	85,718	60	.....	1,546	2,803	.....	2,509	656	42
.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	44
.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	45
.....	.....	2,400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	1,713	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	200	47
.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	83	48
.....	.....	7	.....	2	.....	1	3	.....	.....	3	1	.....	.....	.....	49
.....	.....	5	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	50
.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	.....	1	51
.....	.....	2,368	.....	(6)	.....	(6)	1,815	.....	.....	100	(6)	.....	.....	.....	52
.....	.....	4,100	.....	5	90	.....	.....	.....	.....	.....	.....	.....	.....	120	53
.....	.....	.....	.....	80	.....	.....	.....	5,000	.....	.....	.....	.....	.....	10	54
9	43	16	2	2	2	6	8	18	13	35	1	.....	30	.....	55
2	5	5	.....	1	2	.....	.....	2	3	6	1	.....	11	3	56
1	10	1	.....	2	1	.....	.....	5	14	7	1	.....	11	18	57
126	1,137	153	(6)	(6)	(6)	48	90	301	405	1,678	(6)	.....	2,085	.....	58
400	233	48	.....	1	10	.....	.....	48	245	81	32	.....	1,598	19	59
50	269	7	.....	10	45	.....	.....	258	434	137	20	.....	767	239	60
8,530	102,800	8,670	(6)	(6)	(6)	4,200	8,575	26,340	25,800	148,778	(6)	.....	93,660	.....	61
27,000	54,850	2,785	.....	5	250	.....	.....	3,700	26,952	7,490	8	.....	74,520	1,330	62
4,500	13,100	.....	.....	130	.....	.....	.....	12,100	71,870	9,020	1,000	.....	5,102	16,450	63
17	14	18	(6)	(6)	(6)	17	12	15	21	21	(6)	.....	17	.....	64
20	12	15	.....	25	16	.....	.....	14	20	14	4	.....	26	21	65
22	16	10	.....	58	63	.....	.....	16	18	14	30	.....	26	.....	66
.....	.....	18	.....	(6)	.....	(6)	7	.....	.....	66	.....	.....	.....	.....	67
1	5	2	.....	.....	8	8	7	.....	3	5	.....	.....	19	.....	68
(6)	14,181	(6)	.....	.....	15,035	13,731	75,818	.....	7,525	17,638	.....	.....	92,555	.....	69
(6)	23,920	(6)	.....	.....	5,338	4,725	56,689	.....	6,038	63,724	.....	.....	58,919	.....	70
(6)	38	(6)	.....	.....	14	26	76	.....	7	48	.....	.....	165	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	*49,057,920	49,157,120	49,157,120	49,157,120	49,157,120	49,157,120	49,157,120
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	121,062	133,616	129,458	124,417	129,678	121,525	113,608
Land in all farms.....acres....	47,343,981	46,615,762	44,708,565	42,225,475	38,622,021	29,911,779	21,583,444
Farms irrigated:[1]							
Farms.....number...	6,913	5,140	4,602	3,021	1,852	1,932	214
Increase or decrease (-) over preceding census....percent..	[2] 50.2	.....	52.3	63.1	-4.1	802.8	.....
Proportion of all farms.....percent..	5.7	3.8	3.6	2.4	1.4	1.6	0.2
Land in farms.....acres....	3,577,439	([3])	1,648,339	([3])	([3])	([3])	([3])
Proportion of all farm land.....percent..	7.6	([3])	3.7	([3])	([3])	([3])	([3])
Area irrigated.....acres....	[4] 473,775	[5] 345,417	[6] 404,481	([7])	([7])	148,538	11,744
Increase or decrease (-) over preceding census....percent..	[2] 17.1	.....	.....	.....	.....	([8])	.....
Proportion of total land area of State.....percent..	1.0	0.7	0.8	.....	.....	0.3	([9])
Proportion of all farm land.....percent..	1.0	0.7	0.9	.....	.....	0.5	0.1
Value of irrigated farms (land and buildings).....dollars..	92,846,541	([3])	85,097,442	([3])	([3])	([3])	([3])
Average per farm.....dollars..	13,430.72	([3])	18,491.40	([3])	([3])	([3])	([3])
Average per acre.....dollars..	25.95	([3])	51.63	([3])	([3])	([3])	([3])
Value of farm implements and machinery[10].....dollars..	9,398,048	([3])	6,676,291	([3])	([3])	([3])	([3])
Average per farm[10].....dollars..	1,359.47	([3])	1,450.74	([3])	([3])	([3])	([3])
Average per acre[10].....dollars..	2.63	([3])	4.05	([3])	([3])	([3])	([3])
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	2,717	([3])	721	470	474	([3])	([3])
Farms irrigated.....number...	9,156	([3])	([3])	([3])	([3])	([3])	([3])
Area irrigated.....acres....	610,379	([3])	532,617	442,690	255,950	([3])	([3])
Area existing works were capable of supplying with water.....acres....	992,967	([3])	703,641	562,468	429,225	([3])	([3])
Area irrigable.....acres....	1,095,567	([3])	763,039	[11] 766,768	[11] 680,133	([3])	([3])
Additional area existing works were capable of supplying with water.....acres....	382,578	([3])	171,024	119,778	173,275	([3])	([3])
Additional irrigable area in enterprises not supplied with water.....acres....	485,188	([3])	230,422	[11] 324,078	[11] 424,183	([3])	([3])
Investment in irrigation enterprises.....dollars..	39,056,207	([3])	21,386,319	13,909,185	7,798,310	1,310,698	[12] 47,798
Increase or decrease (-) over preceding census.....percent..	[2] 82.6	([3])	53.8	78.4	495.0	([3])	.....
Average per acre based on area works were capable of supplying with water.....dollars..	39.33	([3])	30.39	24.73	18.17	([3])	([3])
Increase or decrease (-) over preceding census....percent..	[2] 29.4	([3])	22.9	36.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	41,995,361	([3])	21,465,772	18,030,154	9,485,231	([3])	([3])
Average per acre based on irrigable area in enterprises.....dollars..	38.33	([3])	28.13	[11] 23.51	[11] 13.95	([3])	([3])
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	1.59	([3])	1.54	1.48	1.09	([3])	([3])

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 10,869 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Percent not shown when more than 1,000. [9] Less than one-tenth of 1 percent. [10] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [11] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [12] Based on average for "subhumid" region. Average for Nebraska not shown separately in 1890. *The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	121,062	47,343,981	17,304,802	462,906	10,869	1,137,808,019	24.03	256,753,804	5.42	97,645,085	2.06
Owners and managers.....	57,115	28,964,009	8,919,421	225,958	7,082	616,275,106	21.28	148,403,334	5.12	52,831,318	1.82
Tenants.....	63,947	18,379,972	8,385,381	236,948	3,787	521,532,913	28.38	108,350,470	5.90	44,813,767	2.44
Irrigated farms, total.....	6,913	3,577,439	1,025,290	462,906	10,869	92,846,541	25.95	17,318,057	4.84	9,398,048	2.63
Owners and managers.....	3,342	2,600,098	585,574	225,958	7,082	54,397,486	20.92	10,685,061	4.11	5,101,064	1.96
Tenants.....	3,571	977,341	439,716	236,948	3,787	38,449,055	39.34	6,632,996	6.79	4,296,984	4.40
Wholly irrigated farms.....	2,761	607,112	236,324	236,324	4,826	28,717,583	47.30	6,022,194	9.92	3,730,037	6.14
Owners and managers.....	1,194	355,003	102,051	102,051	2,788	13,656,110	38.47	3,357,432	9.46	1,659,145	4.67
Tenants.....	1,567	252,109	134,273	134,273	2,038	15,061,473	59.74	2,664,762	10.57	2,070,892	8.21
Partly irrigated farms.....	4,152	2,970,327	788,966	226,582	6,043	64,128,958	21.59	11,295,863	3.80	5,668,011	1.91
Owners and managers.....	2,148	2,245,095	483,523	123,907	4,294	40,741,376	18.15	7,327,629	3.26	3,441,919	1.53
Tenants.....	2,004	725,232	305,443	102,675	1,749	23,387,582	32.25	3,968,234	5.47	2,226,092	3.07
Nonirrigated farms, total.....	114,149	43,766,542	16,279,512	.....	.....	1,044,961,478	23.88	239,435,747	5.47	88,247,037	2.02

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	2,717	1,095,567	992,957	610,379	532,617	442,690	14.6	573,110	602,671	567,998	2.1	1.94	0.93
Primary sources:													
Streams, gravity	247	883,349	792,703	488,499	501,195	435,567	-2.5	457,848	483,459	454,785	2.0	1.37	0.68
Streams, pumped	311	21,053	19,482	10,176	2,458	1,115	314.0	10,055	9,851	9,663	1.3	3.26	2.49
Streams, gravity and pumped	7	29,301	26,301	12,814	.....	850	.....	12,694	12,814	12,694	2.3	2.45	1.06
Wells, pumped	1,707	132,966	126,423	80,673	23,452	546	244.0	80,155	79,114	79,023	1.5	3.48	2.31
Wells, flowing	14	465	465	361	.....	.....	.....	25	66	10	1.0	0.50	0.50
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	81	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	13	596	589	251	255	.....	-1.6	251	251	251	2.2	4.90	2.27
Springs	27	4,981	4,957	2,113	414	2,050	410.4	2,022	2,107	2,016	0.7	0.35	0.49
Springs and streams	4	260	260	117	.....	.....	.....	92	117	92	2.2	1.68	0.77
Stored storm water	59	2,038	1,433	711	1,245	1,200	-42.9	489	448	260	1.1	1.34	1.21
City water	2	84	84	74	.....	7	.....	71	71	68	2.0	1.63	0.80
Sewage	2				.....	120	.....						
Streams, gravity; wells, pumped	28	5,979	5,866	5,019	70	115	(2)	3,565	5,019	3,565	2.2	1.63	0.74
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	11	1,092	1,038	529	.....	.....	.....	529	449	449	2.3	3.77	1.66
Waste water, seepage or drainage	8	6,634	6,590	4,362	.....	.....	.....	4,362	4,285	4,285	1.3	2.55	1.94
Other mixed	15	6,769	6,766	4,680	2,259	1,120	107.2	952	4,620	837	4.6	3.12	0.67
Other and not reported	.....	.....	.....	.....	1,188	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	4	301,387	289,567	153,377	.....	.....	.....	153,377	153,377	153,377	0.5	0.63	1.28
Streams, pumped	47	3,554	3,413	2,708	.....	.....	.....	2,634	2,668	2,594	1.0	2.55	2.54
Wells, pumped	211	24,179	23,750	15,548	.....	.....	.....	15,508	15,403	15,363	0.8	1.41	1.82
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered.
[2]Percent not shown when more than 1,000.
[3]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	39,056,207	100.0	39.33	21,386,319	100.0	30.39	8.94	602,582	1.59	524,260	1.54	0.05	394,392	1.48
Primary sources:														
Streams, gravity	32,147,527	82.3	40.55	20,581,922	96.2	31.24	9.31	483,370	0.99	495,259	1.41	-0.42	389,699	1.48
Streams, pumped	219,587	0.6	11.27	71,933	0.3	13.11	-1.84	9,851	3.33	2,248	3.85	-0.52	572	2.86
Streams, gravity and pumped	1,515,810	3.9	57.63	.....	.....	.....	.....	12,814	2.08	.....	.....	.....	850	1.04
Wells, pumped	1,989,248	5.1	15.73	616,939	2.9	19.95	-4.22	79,114	3.49	22,432	4.03	-0.54	436	5.16
Wells, flowing	2,205	(3)	4.74	.....	.....	.....	.....	66	0.24	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	17,000	0.1	209.88	.....	.....	.....	81	2.94	.....	.....	.....
Lakes, pumped	4,325	(3)	7.34	5,000	(3)	9.26	-1.92	251	4.90	255	5.88	-0.98	.....	.....
Springs	35,099	0.1	7.08	6,460	(3)	15.60	-8.52	2,107	0.55	413	2.42	-1.87	1,700	1.14
Springs and streams	7,360	(3)	28.31	.....	.....	.....	.....	117	1.75	.....	.....	.....	.....	.....
Stored storm water	31,666	0.1	22.10	33,565	0.2	13.06	9.04	448	1.11	1,245	2.87	-1.76	895	0.36
City water	1,845	(3)	21.96	.....	.....	.....	.....	71	1.63	.....	.....	.....	.....	.....
Sewage				.....	.....	.....	.....			.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	85,477	0.2	14.57	2,330	(3)	33.29	-18.72	5,019	1.38	70	2.86	-1.48	10	3.00
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	16,425	(3)	15.82	.....	.....	.....	.....	449	3.77	.....	.....	.....	.....	.....
Waste water, seepage or drainage	77,595	0.2	11.77	.....	.....	.....	.....	4,285	2.71	.....	.....	.....	.....	.....
Other mixed	57,617	0.1	8.52	21,470	0.1	6.12	2.40	4,620	0.94	2,257	1.20	-0.26	230	2.63
Other and not reported	.....	.....	.....	29,700	0.1	25.00	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]														
Streams, gravity and/or storage	2,565,407	6.6	8.86	.....	.....	.....	.....	153,377	0.59	.....	.....	.....	.....	.....
Streams, pumped	30,370	0.1	8.90	.....	.....	.....	.....	2,668	2.65	.....	.....	.....	.....	.....
Wells, pumped	268,644	0.7	11.31	.....	.....	.....	.....	15,403	1.44	.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Based on irrigated area in enterprises reporting cost of maintenance and operation.
[2]Based on area works were capable of supplying with water.
[3]Less than one-tenth of 1 percent.
[4]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED					
Total	Acres 610,379	Acres 171,633	Acres 532,617	Acres 442,690	Percent 14.6
Individual and partnership	123,979	17,986	57,472	68,140	115.7
Cooperative, incorporated	53,488	365	54,811	55,408	11.8
Cooperative, unincorporated	7,764				
Irrigation district	234,688	56,680	219,590	206,206	6.9
Commercial	28,723	.....	53,574	25,335	46.4
Bureau of Reclamation[2] [5]	160,799	96,602	147,026	[3]87,558	9.4
State	762	.....	134	.....	468.7
Other	176	.....	10	43	[4]
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	992,957	316,730	703,641	562,468	41.1
Individual and partnership	197,075	26,893	77,296	96,465	155.0
Cooperative, incorporated	76,509	[5]8,365	77,324	102,242	11.6
Cooperative, unincorporated	9,821				

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued					
Irrigation district	Acres 400,674	Acres 175,476	Acres 254,033	Acres 220,859	Percent 57.7
Commercial	126,673	[5]	114,361	27,332	10.8
Bureau of Reclamation[2] [5]	181,155	105,996	180,458	[3]115,487	0.4
State	874	.....	149	.....	486.6
Other	176	.....	20	83	780.0
IRRIGABLE AREA[6]					
Total	1,095,567	329,120	763,039	766,768	43.6
Individual and partnership	209,914	27,463	82,193	124,098	155.4
Cooperative, incorporated	82,329	[5]8,365	88,361	145,444	5.5
Cooperative, unincorporated	10,904				
Irrigation district	483,522	187,296	254,327	244,383	90.1
Commercial	126,673	[5]	155,753	76,925	-18.7
Bureau of Reclamation[2] [5]	181,155	105,996	182,185	[3]175,820	-0.6
State	894	.....	200	.....	347.0
Other	176	.....	20	98	780.0

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises." See text, p. 4, for explanation. [2] U. S. Dept. of the Interior. [3] Does not include land supplied with stored water under the Warren Act. [4] Percent not shown when more than 1,000. [5] Data for 1 "Commercial" enterprise are included with "Cooperative" enterprises in the 1940 Census. [6] For 1920 relates to total area. Irrigable area for that year was not reported. [7] For explanation of areas, see text, p. 358.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	Serving 5 or more farms	AREAS Irrigable	Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	Primary enterprises: Maintenance and operation per acre[3]	Supplemental enterprises: Works and equipment per acre[2]	Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
Total	Number 2,717	Number 69	Acres 1,095,567	Acres 992,957	Dollars 36.14	Dollars 1.39	Dollars 9.04	Dollars 0.70	Number 9,156	Acres 610,379	Acres 579,535	Acres 10,717	Acres 20,127
Individual and partnership	2,620	3	209,914	197,075	13.46	2.77	10.99	1.64	2,317	123,979	116,495	3,443	4,041
Cooperative, incorporated	24	16	82,329	76,509	11.50	0.62	[4]3.33	0.64	614	53,488	50,850	520	2,118
Cooperative, unincorporated	15	3	10,904	9,821	10.85	0.45			47	7,764	6,772	402	590
Irrigation district	38	38	483,522	400,674	44.03	1.04	8.49	0.40	3,194	234,688	226,807	3,039	4,842
Commercial	5	5	126,673	126,673	7.52	1.49	[4]	.....	826	28,723	28,723	.....	.....
U. S. Bureau of Reclamation[5]	4	4	181,155	181,155	75.09	1.13	9.91	0.70	2,146	160,799	149,072	3,249	8,478
State	7	.....	894	874	42.67	4.55	.....	.....	8	762	640	64	58
Other	4	.....	176	176	72.35	4.85	.....	.....	4	176	176	.....	.....

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "Commercial" enterprise are included with "Cooperative" enterprises in the 1940 Census. [5] For explanation of areas and investment, see text, p. 358.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	Dollars 39,056,207	Dollars 36,191,786	Dollars 2,864,421	Dollars 38,749,216	Dollars 306,991	Dollars 21,386,319	Dollars 13,909,185	Percent 82.6	Dollars 36.45	Dollars 9.04	Dollars 4,344,324	Dollars 2,939,154
Individual and partnership	2,967,486	2,671,642	295,844	2,948,350	19,136	1,041,547	1,146,227	184.9	13.56	11.00	384	147,924
Cooperative, incorporated	1,036,557	[2]2,144,788	[2]28,370	880,642	155,915	751,302	547,104	52.6	13.54	[2]3.39	825	6,000
Cooperative, unincorporated	109,591			108,900	691				10.91		800	110
Irrigation district	19,205,720	17,716,079	1,489,641	19,129,996	75,724	5,082,366	2,811,474	277.9	44.22	8.49	4,327,525	2,784,823
Commercial	1,027,010	[2]	[2]	977,010	50,000	899,054	726,560	14.2	7.91	[2]	11,079	.....
U. S. Bureau of Reclamation[5]	14,659,810	13,609,244	1,050,566	14,654,295	5,515	13,603,568	8,674,250	7.8	75.12	9.91	3,710	.....
State	37,300	37,300	.....	37,290	10	7,482	.....	398.5	42.68	.....	.....	.....
Other	12,733	12,733	.....	12,733	.....	1,000	3,570	[3]	72.35	.....	.....	297

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "Commercial" enterprise are included with "Cooperative" enterprises in the 1940 Census. [3] Percent not shown when more than 1,000. [5] For explanation of investment, see text, p. 358.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area		Total indebtedness 1940	Average per acre assessed 1938[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages		Average per acre assessed 1939[6]	Area assessed 1939	Charges made 1939	Charges collected 1939
		Irrigable 1940	Works were capable of supplying with water 1940					Dec. 31 1939	Dec. 31 1938				
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	34	917,675	825,817	21,727,368	52.08	31.46	11	178,738	57,871	2.44	674,574	770,745	576,412
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,149	1,284	764
Cooperative, incorporated	3	29,153	25,963	13,968	1.07	0.54	.....	.....	.....	.....	56,377	35,952	32,225
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,868	1,174	634
Irrigation district	27	[6] 707,367	[6] 618,699	[6] 11,957,098	[6] 49.25	[6] 24.11	9	[6] 149,106	25,858	[6] 2.61	323,013	432,704	416,815
Commercial	1	(6)	(6)	(6)	(6)	(6)	1	(6)	.....	(6)	28,723	40,423	46,483
Bureau of Reclamation[7] [8]	3	181,155	181,155	[9] 9,756,302	59.91	53.86	[9] 1	[6] 29,632	[6] 32,013	1.83	259,444	259,208	79,471
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $22.42. [4] Based on primary enterprises only; State average for supplemental enterprises is $7.24. [5] Based on primary enterprises only; no supplemental enterprises reported arrearage. [6] Data for 1 "Commercial" enterprise are included with "Irrigation district" enterprises in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] Data for less than 3 enterprises shown with permission of the enterprise involved. [6] For explanation of areas and investment, see text, p. 358.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	602,582	839,682	171,448	119,770	1.39	0.70	56	308,746	685
Individual and partnership	120,099	332,936	17,801	29,186	2.77	1.64	1	(2)	.....
Cooperative, incorporated	50,191	30,998	} 365	235	{ 0.62	} 0.64	12	20,336	60
Cooperative, unincorporated	7,144	3,245			{ 0.45		1	(2)	.....
Irrigation district	234,688	244,153	56,680	22,756	1.04	0.40	35	164,034	317
Commercial	28,723	42,873	.....	.....	1.49	.....	4	14,352	34
U. S. Bureau of Reclamation[3]	160,799	181,154	96,662	67,593	1.13	0.70	3	109,749	277
State	762	3,470	.....	.....	4.55	.....	.....	.....	.....
Other	176	853	.....	.....	4.85	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[3] For explanation of areas and investment, see text, p. 358.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	351	156	14,256	3,287	44.3	164	2,306,159	126.1	19	370	2,412	2,053,184	2,664	53,572	2,848	2,528,669
Individual and partnership	278	146	2,054	395	4.0	153	8,226	68.3	19	370	2,385	2,036,874	2,626	52,811	2,810	2,498,246
Cooperative, incorporated	21	.....	1,960	236	.....	.....	.....	.....	....	.....	6	5,950	6	140	6	6,350
Cooperative, unincorporated	7	.....	208	47	.....	1	1,700	0.6	....	.....	5	3,200	7	120	7	4,000
Irrigation district	40	5	8,923	1,275	12.0	5	2,213,448	37.2	....	.....	.....	.....	2	75	2	5,000
Commercial	4	2	1,098	215	.....	2	7,625	1.0	....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3]	.....	3	.....	1,117	28.3	3	75,160	14.3	....	.....	.....	.....	.....	.....	.....	.....
State	1	.....	11	2	.....	.....	.....	1.7	....	.....	13	6,060	14	331	14	11,490
Other	.....	.....	2	.....	.....	.....	.....	3.0	....	.....	3	1,100	9	95	9	3,583

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	351	156	185	28	Earth and rock	165	146	.....	20
					Other and mixed	[1]80	2	[1]102	3
Concrete or masonry	76	4	61	3	Not reported	6	4	4	2
Timber	24	.....	18	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
Total, 1940	*Number* 2,848	*Percent* 100.0	*G.p.m.* 2,528,669	*Percent* 100.0	*Feet* 32	Total, 1940	*Number* 2,664	*Percent* 100.0	*Hp.* 53,572	*Percent* 100.0
Electric motor	**180**	**6.3**	**160,030**	**6.3**	**36**	**Centrifugal pump**	**1,409**	**52.9**	**25,448**	**47.5**
Centrifugal	93	3.3	81,085	3.2	31	Electric	106	4.0	1,407	2.6
Turbine	78	2.7	75,020	3.0	42	Internal-combustion	1,288	48.3	23,732	44.3
Plunger	4	0.1	1,125	(1)	42	Other	15	0.6	309	0.6
Other	5	0.2	2,800	0.1	23					
						Turbine pump	**979**	**36.7**	**23,367**	**43.6**
Internal-combustion engine	**2,485**	**87.3**	**2,228,395**	**88.1**	**32**	Electric	91	3.4	1,661	3.1
Centrifugal	1,456	51.1	1,272,366	50.3	25	Internal-combustion	882	33.1	21,624	40.4
Turbine	966	33.9	913,045	36.1	42	Other	6	0.2	82	0.1
Plunger	16	0.6	2,794	0.1	32					
Other	47	1.7	40,190	1.6	29	**Plunger pump**	**46**	**1.8**	**214**	**0.4**
						Electric	5	0.2	50	0.1
Other kinds of motive power	**37**	**1.3**	**17,457**	**0.7**	**37**	Internal-combustion	21	0.8	143	0.3
Centrifugal	16	0.6	13,160	0.5	21	Other	20	0.8	21	(1)
Turbine	6	0.2	4,000	0.2	26					
Plunger	14	0.5	282	(1)	58	**Other and mixed types of pumps**	**230**	**8.6**	**4,543**	**8.5**
Other	1	(1)	15	(1)	25	Electric	44	1.6	1,092	2.0
						Internal-combustion	184	6.9	3,415	6.4
Mixed kinds of motive power	**146**	**5.1**	**122,787**	**4.9**	**33**	Other	2	0.1	36	0.1
Centrifugal	57	2.0	49,450	2.0	28					
Turbine	78	2.7	70,670	2.8	33	Total, 1930	[2]610	.....	10,991	.....
Plunger	8	0.3	217	(1)	66					
Other	3	0.1	2,450	0.1	30	Increase or decrease (-) 1930-1940	2,054	.....	42,581	.....
Total, 1930	636	.....	536,752	.....	29					
Increase or decrease (-) 1930-1940	2,212	.....	1,991,917	.....	3					

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]			1940[1]	1930[2]	
Total	*Miles* 126.1	*Miles* 27.5	*Percent* 358.5	Wood-stave:	*Miles*	*Miles*	*Percent*
				1 to 12 inches	5.1	1.2	325.0
Concrete:				13 to 24 inches	1.3	6.3	17.5
1 to 12 inches	3.1	.....	.....	Over 24 inches	6.1		
13 to 24 inches	2.8	6.6	174.2	Clay and other:			
Over 24 inches	15.3			1 to 12 inches	2.7	.....	.....
Metal:				13 to 24 inches	1.5	9.5	-31.6
1 to 12 inches	65.8	2.3	(3)	Over 24 inches	5.0		
13 to 24 inches	4.2	1.6	987.5				
Over 24 inches	13.2						

[1] Includes siphons and farm pipe lines reported.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

[3] Percent not shown when more than 1,000.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 160,799 acres irrigated in 1939 and related areas within the Pathfinder, Gering-Fort Laramie, and Northport Irrigation Districts of the North Platte Project, which are tabulated as separate enterprises of the Bureau of Reclamation. This acreage is not duplicated under any other classification. The 96,602 acres shown as having received supplemental service from the Bureau of Reclamation are included in the primary enterprise listings in the irrigation district classification.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 includes the cost of the irrigation and power facilities of the North Platte Project located in Wyoming which are charged to Nebraska lands in the primary classification. Under existing contracts, net power revenues will pay a substantial part of the irrigation costs of the North Platte Project. The irrigation investment reported for the North Platte Project does not include costs for drainage. Indebtedness and arrearages shown under Bureau of Reclamation in State table 8 represent obligations of three irrigation districts to the United States Government.

Data relating to the Mirage Flats Project being constructed on the Niobrara River under the Water Conservation and Utilization Program are not included in the 1940 Census of Irrigation.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	65	40	24	Ratio of area drained to area irrigated in—			
Area irrigable in these enterprises.....acres...	338,461	434,969	[1] 376,518	(a) Enterprises reporting lands drained and/or needing drainage...percent..	16.8	[3] 28.1	[1] 2.9
Area irrigated in these enterprises.....acres...	284,658	([2])	([2])	(b) All irrigation enterprises.....percent..	7.9	22.9	2.4
Area for which drains have been installed...acres...	47,960	122,101	10,793	Ratio of area drained plus area needing drainage to—			
Additional area needing drainage.....acres...	10,305	51,505	26,606	(a) Irrigable area reporting.....percent..	17.2	39.9	[1] 9.9
				(b) Irrigated area reporting.....percent..	20.5	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	1,122,742	1,583,615	975,071	915,024	1,559,187	894,316	207,718	24,428	80,755
Area irrigated by these enterprises.....acres.....	298,973	384,900	232,620	273,139	371,623	199,650	25,834	13,277	32,970
Average water per acre irrigated.....acre-feet..	3.8	4.1	4.2	3.4	4.2	4.5	8.0	1.8	2.4
Total water delivered to irrigators.....acre-feet..	971,526	704,085	445,585	511,857	668,636	188,089	459,669	35,449	257,496
Area irrigated by these enterprises.....acres.....	486,085	233,244	185,795	265,655	213,512	76,987	220,430	19,732	108,808
Average water per acre irrigated.....acre-feet..	2.0	3.0	2.4	1.9	3.1	2.4	2.1	1.8	2.4
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	134,170	.....	.....	.....	.....	.....	134,170	.....	.....
Area irrigated by these enterprises.....acres.....	87,025	.....	.....	.....	.....	.....	87,025	.....	.....
Average water per acre irrigated.....acre-feet..	1.5	.....	.....	.....	.....	.....	1.5	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	275,945	.....	.....	275,945	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	56,680	.....	.....	56,680	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	4.9	.....	.....	4.9	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	77,812	.....	.....	26,721	.....	.....	51,091	.....	.....
Area irrigated by these enterprises.....acres.....	156,011	.....	.....	56,680	.....	.....	99,331	.....	.....
Average water per acre irrigated.....acre-feet..	0.5	.....	.....	0.5	.....	.....	0.5	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	12,033	.....	.....	.....	.....	.....	12,033	.....	.....
Area irrigated by these enterprises.....acres.....	15,508	.....	.....	.....	.....	.....	15,508	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	.....	.....	.....	0.8	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	610,379	100.0	171,633	532,617	100.0	442,690	100.0
Appropriation[2]	507,786	83.3	154,395	385,601	72.4	411,424	93.0
Riparian	4,426	0.7	787	.....	.....	618	0.1
Appropriation and riparian	696	0.1	.....	.....	.....	.....	.....
Underground	81,339	13.3	15,485	23,452	4.4	546	0.1
Appropriation and underground	1,825	0.3	.....	.....	.....	.....	.....
Riparian and underground	1,830	0.3	.....	.....	.....	.....	.....
Adjudicated by court	9,370	1.5	63	118,916	22.3	9,280	2.1
Other mixed and not reported	3,107	0.5	903	4,648	0.9	20,822	4.7

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	2,455	165	2,136	89	28	20	16	[2]1
2	Irrigated farms, 1939.....number...	9,156	.....	2,136	211	330	1,086	4,102	1,291
3	Area irrigated, 1939.....acres....	610,379	.....	112,059	15,566	33,542	100,221	256,916	92,075
4	(a) From which crops were harvested.....acres....	579,535	.....	105,197	14,707	30,905	93,872	247,236	87,618
5	(b) On which crops failed.....acres....	10,717	.....	3,187	272	720	3,289	3,249	.....
6	(c) Irrigated pasture.....acres....	20,127	.....	3,675	587	1,917	3,060	6,431	4,457
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	36,191,786	146,335	2,308,414	320,722	514,749	1,919,793	22,865,382	8,116,391
8	(a) Cost of irrigation works and equipment.....dollars..	35,885,746	146,133	2,294,056	318,670	492,993	1,859,870	22,661,573	8,112,451
9	(b) Investment in water rights.....dollars..	306,040	202	14,358	2,052	21,756	59,923	203,809	3,940
10	Area works were capable of supplying with water.....acres....	992,957	12,888	164,573	22,766	49,829	126,480	506,281	110,140
11	Average investment per acre irrigated.....dollars..	59.29	.....	20.60	20.60	15.35	19.16	89.00	88.15
12	Average investment per acre which the works could supply with water.....dollars..	36.45	11.35	14.03	14.09	10.33	15.18	45.16	73.69
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	2,345	164	2,033	84	28	19	16	[2]1
14	(a) Area irrigated in these enterprises.....acres....	602,582	.....	107,879	13,433	33,542	98,737	256,916	92,075
15	(b) Cost of maintenance and operation.....dollars..	839,682	753	311,255	27,689	15,729	73,396	293,200	117,660
16	(c) Average cost per irrigated acre reporting.....dollars..	1.39	.....	2.89	2.06	0.47	0.74	1.14	1.28
17	Total annual charges[3].....dollars..	674,403	.....	.....	.....	25,607	102,787	425,771	120,238
18	Average charge per irrigated acre reporting.....dollars..	1.40	.....	.....	.....	0.76	1.03	1.66	1.31
19	Area against which charges were assessed.....acres....	521,292	.....	.....	.....	40,528	116,906	271,783	92,075
20	Average annual charge per acre assessed.....dollars..	1.29	.....	.....	.....	0.63	0.88	1.57	1.31
21	Total charges collected[3].....dollars..	575,579	.....	.....	.....	19,502	98,537	425,614	31,926
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4].....number...	33	.....	.....	.....	11	10	11	[2]1
23	(a) Area irrigated in these enterprises.....acres....	358,702	.....	.....	.....	14,346	58,384	193,897	92,075
24	(b) Indebtedness.....dollars..	20,456,809	.....	.....	.....	135,710	476,612	14,369,187	5,475,300
25	(c) Average indebtedness per acre irrigated.....dollars..	57.03	.....	.....	.....	9.46	8.16	74.11	59.47
26	(d) Cost of irrigation works and equipment.....dollars..	31,652,544	.....	.....	.....	268,320	1,266,410	22,005,363	8,112,451
27	(e) Investment in water rights.....dollars..	262,751	.....	.....	.....	16,340	40,171	202,300	3,940
28	(f) Total investment.....dollars..	31,915,295	.....	.....	.....	284,660	1,306,581	22,207,663	8,116,391
29	(g) Maintenance and operation.....dollars..	399,040	.....	.....	.....	8,135	47,187	226,058	117,660
30	(h) Total annual charges[3].....dollars..	580,615	.....	.....	.....	15,831	73,867	370,679	120,238
31	(i) Total charges collected[3].....dollars..	466,358	.....	.....	.....	12,531	61,739	360,162	31,926
32	(j) Area against which annual charges were assessed.....acres....	392,831	.....	.....	.....	21,255	70,737	208,764	92,075
33	(k) Average indebtedness per acre assessed.....dollars..	52.08	.....	.....	.....	6.38	6.74	68.83	59.47
34	(l) Average charges per acre assessed.....dollars..	1.48	.....	.....	.....	0.74	1.04	1.78	1.31
35	(m) Average charges per acre irrigated.....dollars..	1.62	.....	.....	.....	1.10	1.27	1.91	1.31
36	Enterprises reporting arrearage[4].....number...	11	.....	.....	.....	5	2	4	.....
37	(a) Area assessed in these enterprises.....acres....	73,376	.....	.....	.....	9,091	(5)	48,569	.....
38	(b) Total arreage.....dollars..	178,738	.....	.....	.....	16,879	(5)	150,299	.....
39	(c) Average arrearage per acre assessed.....dollars..	2.44	.....	.....	.....	1.86	(5)	3.09	.....
40	(d) Indebtedness.....dollars..	3,031,921	.....	.....	.....	102,374	(5)	2,774,347	.....
	TYPE, 1940								
41	Individual and partnership.....number...	2,363	164	2,118	78	3	.....	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	37	1	8	10	12	4	2	.....
43	Irrigation district.....number...	37	.....	.....	.....	12	15	10	.....
44	Commercial.....number...	4	.....	.....	.....	1	1	2	.....
45	U. S. Bureau of Reclamation.....number...	3	.....	.....	.....	.....	.....	2	1
46	All other.....number...	11	.....	10	1	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
47	Enterprises reporting pay roll.....number...	[6]56	.....	.....	.....	19	19	16	[2]1
48	Wages and salaries paid and payable for 1939.....dollars..	308,746	.....	.....	.....	8,634	45,759	184,433	69,870
49	Persons employed during week ending April 29, 1939.....number...	688	.....	.....	.....	54	131	317	185
	SOURCE OF WATER SUPPLY, 1939								
50	Streams, gravity.....number...	247	12	155	22	24	19	14	1
51	Streams, pumped.....number...	311	13	287	11	.....	.....	.....	.....
52	Wells, pumped.....number...	1,707	130	1,530	47	.....	.....	.....	.....
53	Wells, pumped and flowing; or wells flowing.....number...	14	.....	13	1	.....	.....	.....	.....
54	Lakes, gravity or pumped.....number...	13	.....	13	.....	.....	.....	.....	.....
55	Streams and springs; or springs.....number...	31	1	27	2	1	.....	.....	.....
56	Mixed, streams and wells.....number...	46	1	39	4	1	.....	1	.....
57	Other mixed or stored storm water.....number...	86	8	72	2	2	1	1	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprise, 1940.....number...	262	29	221	10	.....	.....	.....	[2]2
2	Irrigated farms, 1939.....number...	2,787	.....	221	22	.....	.....	.....	2,544
3	Area irrigated, 1939.....acres....	171,633	.....	16,665	1,686	.....	.....	.....	153,282
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	2,864,421	56,843	249,971	17,400	.....	.....	.....	2,540,207
5	(a) Cost of irrigation works and equipment.....dollars..	2,863,470	56,838	249,131	17,400	.....	.....	.....	2,540,101
6	(b) Investment in water rights.....dollars..	951	5	840	.....	.....	.....	.....	106
7	Area works were capable of supplying with water.....acres....	316,730	11,224	21,895	2,139	.....	.....	.....	281,472
8	Average investment per acre irrigated.....dollars..	16.69	.....	15.00	10.32	.....	.....	.....	16.57
9	Average investment per acre which the works could supply with water.....dollars..	9.04	5.06	11.42	8.13	.....	.....	.....	9.02

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
165	1,946	240	63	25	15	[2]1	2,326	70	37	18	4	1
.....	1,999	319	321	1,415	3,811	1,291	2,289	206	1,300	2,595	2,766	2
.....	68,457	36,174	45,075	103,811	264,787	92,075	112,862	26,346	109,478	153,713	207,980	3
.....	65,301	33,534	42,655	94,055	256,372	87,618	106,939	23,314	103,561	144,649	201,072	4
.....	2,022	1,045	462	3,550	3,638	.....	2,954	509	2,516	4,538	200	5
.....	1,134	1,595	1,958	6,206	4,777	4,457	2,969	2,523	3,401	4,526	6,708	6
146,335	1,744,885	679,780	629,504	2,878,956	21,995,935	8,116,391	2,189,652	502,826	1,421,776	6,802,650	25,274,880	7
146,133	1,732,666	677,404	613,239	2,815,622	21,788,231	8,112,451	2,174,242	500,999	1,213,481	6,739,625	25,257,399	8
202	12,219	2,376	16,265	63,334	207,704	3,940	15,410	1,827	208,297	63,025	17,481	9
12,888	112,922	51,716	61,862	153,494	489,935	110,140	180,925	33,093	151,992	301,818	325,129	10
.....	25.49	18.79	13.97	27.73	83.07	88.15	19.40	19.09	12.99	44.26	121.53	11
11.35	15.45	13.14	10.18	18.76	44.90	73.69	12.10	15.19	9.35	22.54	77.74	12
164	1,851	231	58	25	15	[2]1	2,222	65	36	18	4	13
.....	66,308	34,599	41,002	103,811	264,787	92,075	108,355	24,540	107,994	153,713	207,980	14
753	239,565	75,551	35,830	90,598	279,725	117,660	309,451	23,403	90,487	184,229	232,112	15
.....	3.61	2.18	0.87	0.87	1.06	1.28	2.86	0.95	0.84	1.20	1.12	16
.....	.....	2,923	18,920	113,615	418,707	120,238	1,597	5,578	95,177	207,686	364,365	17
.....	.....	5.85	0.88	1.09	1.58	1.31	0.43	0.57	0.89	1.35	1.75	18
.....	.....	3,159	25,428	123,176	277,454	92,075	3,832	11,342	120,237	168,779	217,102	19
.....	.....	0.93	0.74	0.92	1.51	1.31	0.42	0.49	0.79	1.23	1.68	20
.....	.....	600	12,651	115,057	415,345	31,926	1,033	12,428	81,026	198,777	282,315	21
.....	.....	1	6	16	9	[2]1	.....	2	17	10	4	22
.....	.....	(5)	4,601	73,058	188,768	92,075	.....	(5)	58,768	89,474	207,980	23
.....	.....	(5)	54,853	1,650,031	13,258,625	5,475,300	.....	(5)	253,522	3,225,224	16,974,714	24
.....	.....	(5)	11.92	22.59	70.24	59.47	.....	(5)	4.31	36.05	81.62	25
.....	.....	(5)	161,450	2,243,622	21,112,021	8,112,451	.....	(5)	671,330	5,169,615	25,796,199	26
.....	.....	(5)	8,940	43,776	205,995	3,940	.....	(5)	188,281	56,964	17,481	27
.....	.....	(5)	170,390	2,287,398	21,318,016	8,116,391	.....	(5)	859,611	5,226,579	25,813,680	28
.....	.....	(5)	3,788	69,089	207,583	117,660	.....	(5)	49,744	116,341	232,112	29
.....	.....	(5)	7,608	91,781	358,415	120,238	.....	(5)	62,806	151,738	364,365	30
.....	.....	(5)	5,680	83,459	344,693	31,926	.....	(5)	53,556	128,845	282,315	31
.....	.....	(5)	8,371	88,091	201,435	92,075	.....	(5)	70,485	102,082	217,102	32
.....	.....	(5)	6.55	18.73	65.82	59.47	.....	(5)	3.60	31.59	78.19	33
.....	.....	(5)	0.91	1.04	1.78	1.31	.....	(5)	0.89	1.49	1.68	34
.....	.....	(5)	1.65	1.26	1.90	1.31	.....	(5)	1.07	1.70	1.75	35
.....	.....	.....	3	4	4	.....	.....	1	5	5	.....	36
.....	.....	.....	4,082	16,275	53,019	.....	.....	(5)	14,150	58,144	.....	37
.....	.....	.....	15,000	38,546	125,192	.....	.....	(5)	17,379	158,359	.....	38
.....	.....	.....	3.67	2.37	2.36	.....	.....	(5)	1.23	2.72	.....	39
.....	.....	.....	41,354	1,246,907	1,743,660	.....	.....	(5)	103,574	2,925,347	.....	40
164	1,927	232	40	.....	.....	.....	2,302	55	6	.....	.....	41
1	11	4	14	5	2	.....	15	9	10	3	.....	42
.....	.....	1	8	19	9	.....	2	2	20	11	2	43
.....	.....	1	.....	1	2	.....	.....	.....	1	3	.....	44
.....	.....	.....	.....	.....	2	1	.....	.....	.....	1	2	45
.....	8	2	1	.....	.....	.....	7	4	.....	.....	.....	46
.....	.....	1	14	24	15	[2]1	3	6	24	18	4	47
.....	.....	(5)	5,492	74,079	158,655	69,870	579	2,876	42,337	116,385	146,519	48
.....	.....	.....	41	187	274	185	9	31	119	247	281	49
12	103	49	45	23	14	1	166	30	30	17	4	50
13	281	17	.....	.....	.....	.....	304	7	.....	.....	.....	51
130	1,409	161	7	.....	.....	.....	1,683	21	3	.....	.....	52
.....	13	1	.....	.....	.....	.....	14	.....	.....	.....	.....	53
.....	13	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	54
1	28	.....	2	.....	.....	.....	30	.....	1	.....	.....	55
1	32	6	6	.....	1	.....	38	6	1	1	.....	56
8	67	6	3	2	.....	.....	78	6	2	.....	.....	57

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
29	176	49	6	.....	[2]1	[2]1	259	.....	1	[2]2	1
.....	181	53	9	.....	1,222	1,322	243	.....	.....	2,544	2
.....	8,842	7,437	2,072	.....	56,680	96,602	18,351	.....	.....	153,282	3
56,843	169,704	84,802	12,865	.....	1,489,641	1,050,566	299,214	.....	(5)	2,540,207	4
56,838	168,864	84,802	12,865	.....	1,489,535	1,050,566	298,369	.....	(5)	2,540,101	5
5	840	.....	.....	.....	106	.....	845	.....	.....	106	6
11,224	13,235	8,540	2,259	.....	175,476	105,996	27,258	.....	(5)	281,472	7
.....	19.19	11.40	6.21	.....	26.28	10.88	16.31	.....	.....	16.57	8
5.06	12.82	9.93	5.69	.....	8.49	9.91	10.98	.....	(5)	9.02	9

[4]Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6]Data for 1 supplemental enterprise included in State totals but not shown in detail.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS.

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	258	28	218	10	.....	.....	.....	[2]2
11	(a) Area irrigated in these enterprises.....acres....	171,448	.....	16,480	1,686	.....	.....	.....	153,282
12	(b) Cost of maintenance and operation.....dollars..	119,770	324	27,737	1,360	.....	.....	.....	90,349
13	(c) Average cost per irrigated acre reporting.....dollars..	0.70	.....	1.68	0.81	.....	.....	.....	0.59
14	Total annual charges[4].....dollars..	96,342	.....	.....	.....	.....	.....	.....	96,342
15	Average charge per irrigated acre reporting.....dollars..	0.63	.....	.....	.....	.....	.....	.....	0.63
16	Area against which charges were assessed.....acres....	153,282	.....	.....	.....	.....	.....	.....	153,282
17	Average annual charge per acre assessed.....dollars..	0.63	.....	.....	.....	.....	.....	.....	0.63
18	Total charges collected[4].....dollars..	833	.....	.....	.....	.....	.....	.....	833
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[5].....number...	[2]1	.....	.....	.....	.....	.....	.....	[2]1
20	(a) Area irrigated in these enterprises.....acres....	56,680	.....	.....	.....	.....	.....	.....	56,680
21	(b) Indebtedness.....dollars..	1,270,559	.....	.....	.....	.....	.....	.....	1,270,551
22	(c) Average indebtedness per acre irrigated.....dollars..	22.42	.....	.....	.....	.....	.....	.....	22.42
23	(d) Cost of irrigation works and equipment.....dollars..	1,489,535	.....	.....	.....	.....	.....	.....	1,489,535
24	(e) Investment in water rights.....dollars..	106	.....	.....	.....	.....	.....	.....	106
25	(f) Total investment.....dollars..	1,489,641	.....	.....	.....	.....	.....	.....	1,489,641
26	(g) Maintenance and operation.....dollars..	22,756	.....	.....	.....	.....	.....	.....	22,756
27	(h) Total annual charges[4].....dollars..	26,721	.....	.....	.....	.....	.....	.....	26,721
28	(i) Total charges collected[4].....dollars..	833	.....	.....	.....	.....	.....	.....	833
29	(j) Area against which annual charges were assessed...acres....	56,680	.....	.....	.....	.....	.....	.....	56,680
30	(k) Average indebtedness per acre assessed.....dollars..	22.42	.....	.....	.....	.....	.....	.....	22.42
31	(l) Average charges per acre assessed.....dollars..	0.47	.....	.....	.....	.....	.....	.....	0.47
32	(m) Average charges per acre irrigated.....dollars..	0.47	.....	.....	.....	.....	.....	.....	0.47
	TYPE, 1940								
33	Individual and partnership.....number...	257	28	220	9	.....	.....	.....	.....
34	Cooperative (incorporated and unincorporated).....number...	2	.....	1	1	.....	.....	.....	.....
35	Irrigation district.....number...	1	.....	.....	.....	.....	.....	.....	1
36	Commercial.....number...	1	1	.....	.....	.....	.....	.....	.....
37	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	.....	1
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
38	Streams, pumped.....number...	47	2	45	.....	.....	.....	.....	.....
39	Wells, pumped or flowing.....number...	211	26	175	10	.....	.....	.....	.....
40	Streams, gravity or storage.....number...	4	1	1	.....	.....	.....	.....	2

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND WEATHER STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
White River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Harrison	Sioux	4,849	11.51	-8.36	1.12	-1.67	2.35	-0.18	4.67	-4.62	3.37	-1.89	46.8	+2.5
Chadron	Dawes	3,371	14.39	-3.88	1.01	-1.69	1.75	-0.56	6.01	-1.73	5.62	+0.10	52.6	+4.0
Average*	.....	.....	12.95	-6.12	1.06	-1.68	2.05	-0.37	5.34	-3.18	4.50	-0.90	49.7	+3.2
Niobrara River														
Kirtley, Wyo. (near)	Niobrara	5,200	18.43	+2.48	3.97	+1.66	2.45	+0.95	6.38	-0.87	5.63	+0.74	46.8	+3.4
Gordon	Sheridan	3,550	14.61	-2.85	1.40	-1.04	2.37	+0.48	5.77	-1.84	5.07	-0.45	[2]	[2]
Valentine	Cherry	2,581	16.22	-2.12	0.29	-1.98	2.49	+0.44	8.36	+0.82	5.08	-1.40	49.9	+3.4
Ainsworth	Brown	2,521	16.73	-6.91	0.22	-2.88	1.86	-0.88	7.43	-2.20	7.22	-0.95	51.2	+3.1
Average*	.....	.....	16.50	-2.35	1.47	-1.06	2.29	+0.25	6.98	-1.02	5.75	-0.52	49.3	+3.3
Platte River														
Scotts Bluff	Scotts Bluff	3,888	10.19	-6.23	1.38	-0.84	2.39	+0.61	4.56	-2.80	1.86	-3.20	51.8	+3.4
Alliance	Box Butte	3,971	12.23	-4.50	1.77	-0.20	2.88	+1.27	4.52	-2.80	3.06	-2.77	50.3	+3.5
Sidney	Cheyenne	4,085	9.74	-6.40	1.19	-0.59	3.08	+1.54	4.09	-3.46	1.38	-3.89	49.9	+0.7
Ogallala	Keith	3,216	13.96	-5.83	0.71	-1.23	3.58	+1.87	6.77	-1.97	2.90	-4.50	52.0	+2.2
North Platte	Lincoln	2,805	11.15	-7.24	0.42	-1.65	1.73	-0.05	7.28	-0.78	1.72	-4.76	52.6	+4.3
Lexington	Dawson	2,385	19.41	-3.50	0.53	-2.68	2.51	+0.30	13.73	+4.45	2.64	-5.57	53.9	+3.7
Kearney	Buffalo	2,146	17.02	-6.93	0.52	-2.68	2.75	+0.74	10.54	+0.61	3.21	-5.60	53.2	+2.6
Columbus	Platte	1,442	18.62	-8.97	0.64	-3.08	2.43	-0.20	7.27	-3.67	8.28	-2.12	53.8	+3.8
Lincoln (University Campus)	Lancaster	1,180	19.98	-7.96	2.64	-1.11	4.23	+1.37	7.43	-3.50	5.68	-4.72	54.9	+4.1
Average*	.....	.....	14.70	-6.40	1.09	-1.56	2.84	+0.83	7.35	-1.54	3.41	-4.13	52.5	+3.1
Loup River														
Hyannis	Grant	3,735	13.81	-2.38	0.42	-1.07	2.64	+0.56	6.60	-0.59	4.15	-1.28	[2]	[2]
Halsey	Thomas	2,695	17.38	-3.84	0.51	-2.12	2.33	+0.47	10.44	+1.63	4.10	-3.82	49.3	+1.1
North Loup	Valley	1,961	15.04	-10.46	2.63	-0.48	1.67	-0.59	7.84	-3.23	2.90	-6.16	51.8	+2.8
Average*	.....	.....	15.41	-5.56	1.19	-1.22	2.21	+0.15	8.29	-0.73	3.72	-3.75	50.6	+2.0
Elkhorn River														
Newport	Rock	2,234	18.61	-5.03	0.58	-2.29	2.86	+0.65	8.14	-1.74	7.03	-1.65	51.0	+3.7
Oakdale	Antelope	1,722	18.82	-6.71	1.81	-1.42	3.51	+1.16	8.27	-2.20	5.23	-4.25	50.3	+3.1
Stanton	Stanton	1,472	16.67	-10.40	0.86	-2.83	3.99	+1.30	5.16	-5.50	6.66	-3.37	53.0	+4.4
Fremont	Dodge	1,203	18.54	-11.25	1.85	-2.49	3.27	+0.33	6.06	-5.49	7.36	-3.60	53.9	+4.1
Average*	.....	.....	18.16	-8.35	1.28	-2.26	3.41	+0.86	6.91	-3.73	6.57	-3.22	52.0	+3.8
Republican River														
Benkelman	Dundy	2,968	15.15	-4.24	0.18	-2.34	2.14	+0.33	8.19	+0.33	4.64	-2.56	54.3	+2.6
McCook	Red Willow	2,506	13.90	-5.74	0.17	-2.32	2.65	+0.77	7.78	-0.12	3.30	-4.07	55.5	+3.4
Franklin	Franklin	1,820	14.64	-8.85	0.36	-2.83	2.50	+0.35	7.63	-1.91	4.15	-4.46	55.7	+3.9
Average*	.....	.....	14.56	-6.28	0.24	-2.50	2.43	+0.48	7.87	-0.57	4.03	-3.70	55.2	+3.3

[1] Departure from normal. [2] Data not available. * Average for drainage basin.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940 – Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
28	174	48	6	.....	[2]1	[2]1	255	.....	1	[2]2	10
.....	8,802	7,292	2,072	.....	56,680	96,602	18,166	.....	.....	153,282	11
324	20,767	6,850	1,480	.....	22,756	67,593	29,371	.....	(3)	90,349	12
.....	2.36	0.94	0.71	.....	0.40	0.70	1.62	.....	.....	0.59	13
.....	.....	.....	.....	.....	26,721	69,621	.....	.....	.....	96,342	14
.....	.....	.....	.....	.....	0.47	0.72	.....	.....	.....	0.63	15
.....	.....	.....	.....	.....	56,680	96,602	.....	.....	.....	153,282	16
.....	.....	.....	.....	.....	0.47	0.72	.....	.....	.....	0.63	17
.....	.....	.....	.....	.....	.....	833	.....	.....	.....	833	18
.....	.....	.....	.....	.....	[2]1	.....	.....	.....	.....	[2]1	19
.....	.....	.....	.....	.....	56,680	.....	.....	.....	.....	56,680	20
.....	.....	.....	.....	.....	1,270,559	.....	.....	.....	.....	1,270,559	21
.....	.....	.....	.....	.....	22.42	.....	.....	.....	.....	22.42	22
.....	.....	.....	.....	.....	1,489,535	.....	.....	.....	.....	1,489,535	23
.....	.....	.....	.....	.....	106	.....	.....	.....	.....	106	24
.....	.....	.....	.....	.....	1,489,641	.....	.....	.....	.....	1,489,641	25
.....	.....	.....	.....	.....	22,756	.....	.....	.....	.....	22,756	26
.....	.....	.....	.....	.....	26,721	.....	.....	.....	.....	26,721	27
.....	.....	.....	.....	.....	833	.....	.....	.....	.....	833	28
.....	.....	.....	.....	.....	56,680	.....	.....	.....	.....	56,680	29
.....	.....	.....	.....	.....	22.42	.....	.....	.....	.....	22.42	30
.....	.....	.....	.....	.....	0.47	.....	.....	.....	.....	0.47	31
.....	.....	.....	.....	.....	0.47	.....	.....	.....	.....	0.47	32
28	175	48	6	.....	.....	.....	257	.....	.....	.....	33
.....	1	1	.....	.....	.....	.....	2	.....	.....	.....	34
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	35
1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	36
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	37
2	40	4	1	.....	.....	.....	47	.....	.....	.....	38
26	135	45	5	.....	.....	.....	211	.....	.....	.....	39
1	1	.....	.....	.....	1	1	1	.....	1	2	40

[4]Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5]Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

According to the U. S. Weather Bureau, the calendar year 1939 for Nebraska was warm and dry, only two years in the State-wide period of record having been warmer, while only three had been drier. Much of the extreme western portion of the State received only about half the normal rainfall. Exceptional dryness also characterized November and December of the preceding year. Weather conditions were similar in mountainous sections of southern Wyoming and northern Colorado which are contributors of run-off to the Platte River Drainage Basin in Nebraska. Owing to high temperatures and low humidity during the spring months of 1939, snow in the higher mountains melted and the moisture evaporated instead of finding its way into the streams. As a result, the usual run-off did not occur and it was only on account of the large carry-over in the reservoirs from the 1938 season that there was sufficient water for irrigation in the North Platte Valley. In fact, water supplies ran low before the end of the 1939 season, resulting in some reduction of the harvested acreage of certain irrigated crops.

In comparison the year 1929, when the last previous irrigation census was taken, averaged slightly colder and drier than normal in Nebraska, mean annual temperature being 0.8° below normal and precipitation 0.45 inch below normal. In the western and northwestern counties, however, precipitation was above normal, although of the growing months, May and August were marked by fairly general deficiencies.

Precipitation.—The average annual precipitation in Nebraska for the calendar year 1939 was—eastern division 18.88 inches, central division 16.67 inches, western division 13.31 inches, and for the State 16.28 inches, a departure from a State normal, based on records since 1876, of -6.28 inches.

The average precipitation for the water year (October 1938 through September 1939) at 25 Weather Bureau stations, representative of the major drainage basins in the State (listed in State table 18) was 15.47 inches, a departure of -5.92 inches from the normal precipitation at these stations.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER (Missouri River drains entire State; therefore, Missouri River total for Nebraska is identical with State total)					
		STATE TOTAL[1]	Direct (1)	South Fork Cheyenne River (Hat Creek) (12)	White River (3)	Niobrara River[2] (2)	Platte River Total
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	9,156	13	19	85	88	8,442
2	Area irrigated....1939...acres....	610,379	385	1,933	12,083	10,259	554,445
3	(a) Cropland harvested....1939...acres....	579,535	377	1,557	11,074	9,318	527,200
4	(b) Crop failure....1939...acres....	10,717	8	92	791	310	9,099
5	(c) Pasture....1939...acres....	20,127	.....	284	218	631	18,146
6	Area irrigated....1929...acres....	532,617	.....	.....	8,678	3,498	496,867
7	1919...acres....	442,690	.....	2,938	8,008	5,693	400,623
8	Increase or decrease (-), 1929-1939....percent....	14.6	.....	.....	39.2	193.3	11.6
9	Irrigable area in enterprises....1940...acres....	1,095,567	633	3,895	18,258	14,371	1,017,264
10	1930...acres....	763,039	.....	.....	13,791	4,198	713,490
11	1920[3]...acres....	766,768	.....	3,755	21,922	28,511	678,053
12	Excess of irrigable area over the area irrigated..1940...acres....	485,188	248	1,962	6,175	4,112	462,819
13	1930...acres....	230,422	.....	.....	5,113	700	216,623
14	1920[3]...acres....	324,078	.....	817	13,914	22,818	277,430
15	Area works were capable of supplying with water...1940...acres....	992,957	544	3,469	14,028	13,042	922,215
16	1930...acres....	703,641	.....	.....	13,106	4,195	656,966
17	1920...acres....	562,468	.....	3,705	16,939	9,820	501,435
18	Increase or decrease (-), 1930-1940....percent....	41.1	.....	.....	7.0	210.9	40.4
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	382,578	159	1,536	1,945	2,783	367,770
20	1930...acres....	171,024	.....	.....	4,428	697	160,099
21	1920...acres....	119,778	.....	767	8,931	4,127	100,812
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	61.5	70.8	55.7	86.1	78.7	60.1
23	1929...percent....	75.7	.....	.....	66.2	83.4	75.6
24	1919...percent....	78.7	.....	79.3	47.3	58.0	79.9
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	39,056,207	19,558	79,278	498,915	136,355	37,537,335
26	(a) Cost of irrigation works and equipment....1940...dollars....	38,749,216	19,508	78,250	489,745	135,235	37,256,761
27	(b) Investment in water rights (reported)....1940...dollars....	306,991	50	1,028	9,170	1,120	280,574
28	Total investment in irrigation enterprises....1930...dollars....	21,386,319	.....	.....	478,185	23,775	20,372,920
29	1920...dollars....	13,909,185	.....	85,243	183,349	349,874	12,894,088
30	Increase or decrease (-), 1930-1940....percent....	82.6	.....	.....	4.3	473.5	84.3
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	39.33	35.95	22.85	35.57	10.46	40.70
32	1930...dollars....	30.39	.....	.....	36.49	5.67	31.01
33	1920...dollars....	24.73	.....	23.01	10.82	35.63	25.71
34	Average investment per acre irrigated....1939...dollars....	63.99	50.80	41.01	41.29	13.29	67.70
35	Estimated final investment in existing enterprises..1940...dollars....	41,995,361	20,705	88,778	604,065	141,630	40,340,488
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	38.33	32.71	22.79	33.08	9.86	39.66
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises				Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	2,346	258	11	22	31	76	1,930	255
38	Area irrigated in these enterprises....1939...acres....	602,582	171,448	384	1,888	12,003	10,118	547,673	171,436
39	Cost of maintenance and operation....1939...dollars....	839,682	119,770	2,054	2,176	18,411	8,390	747,268	119,699
40	Average cost, per acre irrigated....1939...dollars....	1.39	0.70	5.35	1.15	1.53	0.83	1.36	0.70
41	Total annual charges (reported)[4] [5]....1939...dollars....	674,403	96,342	.....	.....	16,784	.....	640,250	96,342
42	Average annual charge per acre irrigated....1939...dollars....	1.40	0.63	.....	.....	1.59	.....	1.41	0.63
43	Area against which charges were assessed....1939...acres....	521,292	153,282	.....	.....	10,575	.....	493,919	153,282
44	Average annual charge per acre assessed....1939...dollars....	1.29	0.63	.....	.....	1.59	.....	1.30	0.63
45	Total charges collected[4]....1939...dollars....	575,579	833	.....	.....	15,613	.....	540,806	833
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	20,456,809	1,270,559	.....	.....	151,000	.....	20,295,389	1,270,559
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	2,182	231	11	15	30	78	1,788	230
48	Area irrigated by these enterprises....1939...acres....	573,110	171,519	360	1,213	12,057	8,699	521,657	171,507
49	Water delivered....1939...acre-feet..	1,105,696	89,845	246	1,303	7,455	16,517	1,016,186	89,837
50	Average water delivered per acre irrigated....1939...acre-feet..	1.9	0.5	0.7	1.1	0.6	1.9	1.9	0.5
51	Average cost of water per acre irrigated....1939...dollars....	1.73	0.73	5.58	1.13	1.58	0.91	1.73	0.73
52	Average cost of water per acre-foot delivered..1939...dollars....	0.90	1.39	8.18	1.05	2.55	0.48	0.89	1.39
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	65	.....	1	1	1	3	44	.....
54	Irrigable area in these enterprises....1939...acres....	338,461	.....	(6)	(6)	(6)	626	324,755	.....
55	Irrigated area in these enterprises....1939...acres....	284,658	.....	(6)	(6)	(6)	604	273,746	.....
56	Area for which drains have been installed....1939...acres....	47,960	.....	(6)	(6)	(6)	1	47,532	.....
57	Additional area needing drainage....1939...acres....	10,305	.....	(6)	(6)	.....	83	9,619	.....

[1] Data for unidentified tributaries of the Missouri River for the 1930 Census are included only in State totals. [2] Data for 1 enterprise in Keya Paha River Drainage Basin (13) (number refers to separate map) are included with Niobrara River Drainage Basin (2). [3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				
		PLATTE RIVER—Continued				
		North Platte River				South Platte River
		Direct (8)	Total	Direct (4)	Blue Creek (5)	Total
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	2,784	4,505	4,394	111	360
2	Area irrigated....1939...acres....	128,586	363,084	354,844	8,240	34,577
3	(a) Cropland harvested....1939...acres....	125,403	341,857	334,047	7,810	32,412
4	(b) Crop failure....1939...acres....	2,217	5,327	5,147	180	1,295
5	(c) Pasture....1939...acres....	966	15,900	15,650	250	870
6	Area irrigated....1929...acres....	71,290	373,692	352,480	.....	26,841
7	1919...acres....	37,532	326,045	291,736	7,376	35,290
8	Increase or decrease (-), 1929-1939....percent....	80.4	-2.8	0.7	.....	28.8
9	Irrigable area in enterprises....1940...acres....	458,091	437,407	424,286	13,121	42,226
10	1930...acres....	179,011	465,531	435,442	.....	34,240
11	1920[1]...acres....	151,377	479,258	436,013	7,391	42,262
12	Excess of irrigable area over the area irrigated..1940...acres....	329,505	74,323	69,442	4,881	7,649
13	1930...acres....	107,721	91,839	82,962	.....	7,399
14	1920[1]..acres....	113,845	153,213	144,277	15	6,972
15	Area works were capable of supplying with water...1940...acres....	376,465	434,465	422,718	11,747	41,169
16	1930...acres....	140,456	450,970	421,121	.....	32,813
17	1920...acres....	68,732	389,140	349,766	7,391	40,542
18	Increase or decrease (-), 1930-1940....percent....	168.0	-3.7	0.4	.....	25.5
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	247,879	71,381	67,874	3,507	6,592
20	1930...acres....	69,166	77,278	68,641	.....	5,972
21	1920...acres....	31,200	63,095	58,030	15	5,252
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	34.2	83.6	83.9	70.1	84.0
23	1929...percent....	50.8	82.9	83.7	.....	81.8
24	1919...percent....	54.6	83.8	83.4	99.8	87.0
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	14,001,510	20,032,273	19,926,141	106,132	602,546
26	(a) Cost of irrigation works and equipment....1940...dollars....	13,795,794	19,961,893	19,856,311	105,582	600,025
27	(b) Investment in water rights (reported)....1940...dollars....	205,716	70,380	69,830	550	2,521
28	Total investment in irrigation enterprises....1930...dollars....	989,656	18,288,605	18,037,289	.....	501,300
29	1920...dollars....	488,642	11,934,733	11,661,937	31,050	444,413
30	Increase or decrease (-), 1930-1940....percent....	(2)	9.5	10.5	.....	20.2
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	37.19	46.11	47.14	9.03	14.64
32	1930...dollars....	7.05	40.55	42.83	.....	15.28
33	1920...dollars....	7.11	30.67	33.34	.....	10.96
34	Average investment per acre irrigated....1939...dollars....	108.89	55.17	56.15	12.88	17.43
35	Estimated final investment in existing enterprises..1940...dollars....	16,662,253	20,076,338	19,962,071	114,267	637,221
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	36.37	45.90	47.05	8.71	15.09
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	1,328	52	177	170	151	170	26	200	31
38	Area irrigated in these enterprises....1939...acres....	125,598	57,938	360,178	110,168	352,508	110,168	7,670	33,820	3,246
39	Cost of maintenance and operation....1939...dollars....	270,102	27,094	360,837	87,930	354,879	87,930	5,958	43,779	4,390
40	Average cost, per acre irrigated....1939...dollars....	2.15	0.47	1.00	0.80	1.01	0.80	0.78	1.29	1.35
41	Total annual charges (reported)[3] [4]....1939...dollars....	70,538	26,335	508,233	70,007	503,852	70,007	4,381	14,706	.....
42	Average annual charge per acre irrigated....1939...dollars....	1.04	0.48	1.46	0.72	1.47	0.72	0.70	0.77	.....
43	Area against which charges were assessed....1939...acres....	69,452	55,434	385,229	97,848	377,374	97,848	7,855	19,139	.....
44	Average annual charge per acre assessed....1939...dollars....	1.02	0.48	1.32	0.72	1.34	0.72	0.56	0.77	.....
45	Total charges collected[3]....1939...dollars....	74,153	.....	404,872	833	393,613	833	11,259	14,690	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	7,771,892	.....	10,315,456	1,270,559	10,312,456	1,270,559	3,000	82,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered....1939...number....	1,252	41	150	157	134	157	16	188	30
48	Area irrigated by these enterprises....1939...acres....	126,528	58,083	333,689	110,094	329,301	110,094	4,388	34,002	3,246
49	Water delivered....1939...acre-feet..	231,637	28,415	688,222	58,807	678,464	58,807	9,758	40,987	2,563
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	0.5	2.1	0.5	2.1	0.5	2.2	1.2	0.8
51	Average cost of water per acre irrigated....1939...dollars....	2.18	0.53	1.51	0.81	1.51	0.81	1.33	1.45	1.35
52	Average cost of water per acre-foot delivered..1939...dollars....	1.19	1.09	0.73	1.52	0.73	1.52	0.60	1.21	1.71
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage....1939...number....	19	.....	15	.....	14	.....	1	4	.....
54	Irrigable area in these enterprises....1939...acres....	7,742	.....	288,570	.....	286,484	.....	(5)	1,099	.....
55	Irrigated area in these enterprises....1939...acres....	3,043	.....	258,173	.....	256,419	.....	(5)	509	.....
56	Area for which drains have been installed....1939...acres....	3,192	.....	42,991	.....	42,991	.....	.....	950	.....
57	Additional area needing drainage....1939...acres....	49	.....	9,441	.....	9,429	.....	(6)	41	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2] Percent not shown when more than 1,000. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				
		Platte River—Continued				Kansas River
		South Platte River—Continued		Loup River (6)	Elkhorn River (7)	Total
		Direct (9)	Lodgepole Creek (10)			
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	183	177	719	74	509
2	Area irrigated....1939...acres	21,454	13,123	25,130	3,068	31,274
3	(a) Cropland harvested....1939...acres	21,180	11,232	24,583	2,945	30,009
4	(b) Crop failure....1939...acres	53	1,242	236	24	417
5	(c) Pasture....1939...acres	221	649	311	99	848
6	Area irrigated....1929...acres	13,975	11,830	291	.....	21,340
7	1919...acres	17,061	18,229	1,177	.....	25,428
8	Increase or decrease (-), 1929-1939....percent	53.5	10.9	(1)	.....	46.6
9	Irrigable area in enterprises....1940...acres	25,181	17,045	74,379	5,161	41,146
10	1930...acres	16,590	15,978	732	.....	27,903
11	1920[2]...acres	18,623	23,639	4,512	.....	34,527
12	Excess of irrigable area over the area irrigated...1940...acres	3,727	3,922	49,249	2,093	9,872
13	1930...acres	2,615	4,148	441	.....	6,563
14	1920[2]...acres	1,562	5,410	3,335	.....	9,099
15	Area works were capable of supplying with water...1940...acres	24,691	16,478	65,442	4,674	39,659
16	1930...acres	15,745	15,486	672	.....	25,952
17	1920...acres	18,590	21,952	2,377	.....	30,569
18	Increase or decrease (-), 1930-1940....percent	56.8	6.4	(1)	.....	52.8
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	3,237	3,355	40,312	1,606	8,385
20	1930...acres	1,770	3,656	381	.....	4,612
21	1920...acres	1,529	3,723	1,200	.....	5,141
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	86.9	79.6	38.4	65.6	78.9
23	1929...percent	88.8	76.4	43.3	.....	82.2
24	1919...percent	91.8	83.0	49.5	.....	83.2
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	231,179	371,367	2,842,945	58,061	784,766
26	(a) Cost of irrigation works and equipment....1940...dollars	230,818	369,207	2,841,285	57,764	769,717
27	(b) Investment in water rights (reported)....1940...dollars	361	2,160	1,660	297	15,049
28	Total investment in irrigation enterprises....1930...dollars	147,400	322,405	10,000	.....	479,214
29	1920...dollars	87,712	356,701	21,300	.....	396,631
30	Increase or decrease (-), 1930-1940....percent	56.8	15.2	(1)	.....	63.8
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	9.36	22.54	43.44	12.42	19.79
32	1930...dollars	9.36	20.82	14.88	.....	18.47
33	1920...dollars	4.72	16.25	8.96	.....	12.97
34	Average investment per acre irrigated....1939...dollars	10.78	28.30	113.13	18.92	25.09
35	Estimated final investment in existing enterprises...1940...dollars	243,934	393,287	2,900,280	64,396	799,695
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	9.69	23.07	38.99	12.48	19.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number	85 / 28	115 / 3	158 / 2	67	276 / 3
38	Area irrigated in these enterprises....1939...acres	21,086 / 2,988	12,734 / 258	25,127 / (3)	2,950	30,516 / 12
39	Cost of maintenance and operation....1939...dollars	23,658 / 4,140	20,121 / 250	62,457 / (3)	10,093	61,383 / 71
40	Average cost, per acre irrigated....1939...dollars	1.12 / 1.39	1.58 / 0.97	2.49 / (3)	3.42	2.01 / 5.92
41	Total annual charges (reported)[4] [5]....1939...dollars	5,708 /	8,998 /	46,773 /	.....	17,369 / .....
42	Average annual charge per acre irrigated....1939...dollars	0.39 /	2.00 /	2.33 /	.....	1.03 / .....
43	Area against which charges were assessed....1939...acres	14,640 /	4,499 /	20,099 /	.....	16,798 / .....
44	Average annual charge per acre assessed....1939...dollars	0.39 /	2.00 /	2.33 /	.....	1.03 / .....
45	Total charges collected[4]....1939...dollars	5,690 /	9,000 /	47,091 /	.....	18,160 / .....
46	Indebtedness to December 31 (reported)[5]....1939...dollars	..... /	82,000 /	2,126,041 /	.....	10,420 / .....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number	83 / 27	105 / 3	130 / 2	68	260 / 1
48	Area irrigated by these enterprises....1939...acres	21,454 / 2,988	12,548 / 258	24,398 / (3)	3,040	28,124 / (3)
49	Water delivered....1939...acre-feet	28,141 / 2,322	12,846 / 241	50,647 / (3)	4,693	63,989 / (3)
50	Average water delivered per acre irrigated....1939...acre-feet	1.3 / 0.8	1.0 / 0.9	2.1 / (3)	1.5	2.2 / (3)
51	Average cost of water per acre irrigated....1939...dollars	1.13 / 1.39	2.01 / 0.97	2.56 / (3)	3.37	2.07 / (3)
52	Average cost of water per acre-foot delivered...1939...dollars	0.86 / 1.78	1.97 / 1.04	1.23 / (3)	2.18	0.94 / (3)
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number	4 /	..... /	2 /	4	15 / .....
54	Irrigable area in these enterprises....1939...acres	1,099 /	..... /	(3) /	395	426 / .....
55	Irrigated area in these enterprises....1939...acres	509 /	..... /	(3) /	194	271 / .....
56	Area for which drains have been installed....1939...acres	950 /	..... /	(3) /	375	282 / .....
57	Additional area needing drainage....1939...acres	41 /	..... /	(3) /	20	102 / .....

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				
		Kansas River—Continued				
		Republican River				
		Total	Direct (11)	Arikaree River (17)	Frenchman Creek (16)	Big Blue River (15)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	397	167	40	190	112
2	Area irrigated....1939...acres	27,202	8,200	4,457	14,545	4,072
3	(a) Cropland harvested....1939...acres	26,028	7,938	3,637	14,453	3,981
4	(b) Crop failure....1939...acres	409	163	204	42	8
5	(c) Pasture....1939...acres	765	99	616	50	83
6	Area irrigated....1929...acres	19,523	.....	.....	.....	.....
7	1919...acres	25,409	.....	.....	.....	19
8	Increase or decrease (-), 1929-1939....percent	39.3	.....	.....	.....	.....
9	Irrigable area in enterprises....1940...acres	34,597	12,264	6,527	15,806	6,549
10	1930...acres	25,441	.....	.....	.....	.....
11	1920[1]...acres	34,483	.....	.....	.....	44
12	Excess of irrigable area over the area irrigated...1940...acres	7,395	4,064	2,070	1,261	2,477
13	1930...acres	5,918	.....	.....	.....	.....
14	1920[1]...acres	9,074	.....	.....	.....	25
15	Area works were capable of supplying with water...1940...acres	33,632	11,641	6,393	15,598	6,027
16	1930...acres	23,541	.....	.....	.....	.....
17	1920...acres	30,525	.....	.....	.....	44
18	Increase or decrease (-), 1930-1940....percent	42.9	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	6,430	3,441	1,936	1,053	1,955
20	1930...acres	4,018	.....	.....	.....	.....
21	1920...acres	5,116	.....	.....	.....	25
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	80.9	70.4	69.7	93.2	67.6
23	1929...percent	82.9	.....	.....	.....	.....
24	1919...percent	83.2	.....	.....	.....	43.2
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	618,456	247,641	77,775	293,040	166,310
26	(a) Cost of irrigation works and equipment....1940...dollars	604,327	245,087	67,520	291,720	165,390
27	(b) Investment in water rights (reported)....1940...dollars	14,129	2,554	10,255	1,320	920
28	Total investment in irrigation enterprises....1930...dollars	421,664	.....	.....	.....	.....
29	1920...dollars	395,006	.....	.....	.....	1,625
30	Increase or decrease (-), 1930-1940....percent	46.7	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	18.39	21.27	12.17	18.79	27.59
32	1930...dollars	17.91	.....	.....	.....	.....
33	1920...dollars	12.94	.....	.....	.....	36.93
34	Average investment per acre irrigated....1939...dollars	22.74	30.20	17.45	20.15	40.84
35	Estimated final investment in existing enterprises..1940...dollars	630,426	257,631	79,255	293,540	169,269
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	18.22	21.01	12.14	18.57	25.85
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises			
37	Enterprises reporting maintenance and operation...1939...number	179 / 3	140 / 3	9	30	97
38	Area irrigated in these enterprises....1939...acres	26,621 / 12	7,833 / 12	4,247	14,541	3,895
39	Cost of maintenance and operation....1939...dollars	39,993 / 71	19,507 / 71	2,138	18,348	21,390
40	Average cost, per acre irrigated....1939...dollars	1.50 / 5.92	2.49 / 5.92	0.50	1.26	5.49
41	Total annual charges (reported)[2] [3]....1939...dollars	17,369 /	4,500 /	1,283	11,586	.....
42	Average annual charge per acre irrigated....1939...dollars	1.03 /	1.58 /	0.44	1.05	.....
43	Area against which charges were assessed....1939...acres	16,798 /	2,850 /	2,924	11,024	.....
44	Average annual charge per acre assessed....1939...dollars	1.03 /	1.58 /	0.44	1.05	.....
45	Total charges collected[2]....1939...dollars	19,160 /	5,100 /	2,707	11,353	.....
46	Indebtedness to December 31 (reported)[3]....1939...dollars	10,420 /	..... /	10,420	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number	168 / 1	130 / 1	10	28	92
48	Area irrigated by these enterprises....1939...acres	25,184 / [4]	8,195 / [4]	3,491	13,498	3,940
49	Water delivered....1939...acre-feet	58,911 / [4]	16,793 / [4]	6,521	35,597	5,078
50	Average water delivered per acre irrigated....1939...acre-feet	2.3 / [4]	2.0 / [4]	1.9	2.6	1.3
51	Average cost of water per acre irrigated....1939...dollars	1.55 / [4]	2.45 / [4]	0.56	1.28	5.51
52	Average cost of water per acre-foot delivered..1939...dollars	0.66 / [4]	1.20 / [4]	0.30	0.48	4.28
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number	6 /	5 /	1	.....	9
54	Irrigable area in these enterprises....1939...acres	212 /	92 /	[4]	.....	214
55	Irrigated area in these enterprises....1939...acres	93 /	53 /	[4]	.....	178
56	Area for which drains have been installed....1939...acres	76 /	36 /	[4]	.....	206
57	Additional area needing drainage....1939...acres	102 /	22 /	[4]	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER (Missouri River drains entire State; therefore, Missouri River total for Nebraska is identical with State total)						
		STATE TOTAL[1]	Direct (1)	South Fork Cheyenne River (Hat Creek) (12)	White River (3)	Niobrara River[2] (2)	Platte River	
							Total	Direct (8)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises.....1940..number.....	[3]2,718	12	23	33	88	2,262	1,434
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	365	45	151	425	148	408	263
3	Diversion dams.....1940..total number.....	351	1	29	32	77	174	13
4	1930..total number.....	185	.....	.....	21	15	119	3
5	1920..total number.....	260	.....	11	63	27	131	4
6	(a) Concrete and masonry.....1940..number.....	76	.....	.....	2	14	54	4
7	(b) Timber.....1940..number.....	24	.....	.....	3	3	14	2
8	(c) Earth and rock.....1940..number.....	165	.....	22	23	36	62	5
9	(d) Other, mixed, and not reported..1940..number.....	86	1	7	4	24	44	2
10	Main canals and laterals.....1940..total length, miles.....	3,331.3	.....	23.1	54.0	97.2	3,005.7	682.7
11	1930..total length, miles.....	3,465	.....	.....	76	42	3,202	493
12	1920..total length, miles.....	3,325	.....	45	197	124	2,791	344
13	(a) Earth.....1940..length, miles.....	3,287	.....	23	54	97	2,962	681
14	(b) Lined.....1940..length, miles.....	44.3	.....	0.1	.....	0.2	43.7	1.7
15	1940..capacity, c.f.s.[4].....	14,256	10	53	187	243	13,065	4,347
16	1930..capacity, c.f.s.[4].....	13,108	.....	.....	98	37	12,540	3,375
17	1920..capacity, c.f.s.[4].....	11,665	.....	25	237	204	10,593	1,776
18	Pipe lines[5].....1940..total length, miles.....	126.1	2.7	.....	18.5	3.0	89.6	39.6
19	1930..total length, miles.....	27.5	.....	.....	5.5	.....	20.7	1.0
20	1920..total length, miles.....	3.8	.....	.....	0.4	0.1	0.9	.....
21	(a) Concrete.....1940..length, miles.....	21.2	.....	.....	.....	1.1	19.8	1.2
22	(b) Metal.....1940..length, miles.....	83.2	2.5	.....	11.0	0.2	59.9	37.8
23	(c) Wood-stave.....1940..length, miles.....	12.5	0.2	.....	7.0	1.2	3.3	0.6
24	(d) Other.....1940..length, miles.....	9.2	.....	.....	0.5	0.5	6.6	.....
25	Storage dams.....1940..total number.....	156	1	23	8	4	104	48
26	1930..total number.....	28	.....	.....	3	.....	17	2
27	1920..total number.....	73	.....	2	23	10	29	1
28	(a) Concrete and masonry.....1940..number.....	4	1	.....	.....	.....	2	.....
29	(b) Earth and rock.....1940..number.....	146	.....	23	6	4	99	48
30	(c) Other, mixed, and not reported..1940..number.....	6	.....	.....	2	.....	3	.....
31	Reservoirs.....1940..total number.....	164	1	24	9	4	110	47
32	(a) 1-99 acre-feet capacity.....1940..number.....	137	1	20	3	4	96	45
33	(b) 100-999 acre-feet capacity....1940..number.....	15	.....	4	3	.....	5	2
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	12	.....	.....	3	.....	9	.....
35	1940..total capacity, ac.-ft.[6]..	2,306,159	(7)	1,172	14,570	42	2,289,015	526
36	1930..total number.....	40	.....	.....	1	.....	29	4
37	1930..total capacity, ac.-ft....	199,185	.....	.....	12,000	.....	186,803	189
38	Wells, flowing.....1940..number.....	19	.....	.....	.....	.....	.....	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	370	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	2,412	7	.....	4	13	2,228	1,655
45	1930..number.....	537	.....	.....	.....	.....	491	4
46	1920..number.....	34	.....	.....	2	.....	19	14
47	1940..yield, g.p.m.....	2,053,184	2,010	.....	1,235	13,840	1,915,664	1,411,279
48	1930..yield, g.p.m.....	428,058	.....	.....	.....	.....	396,668	990
49	1920..yield, g.p.m.....	24,701	.....	.....	2,200	.....	14,501	10,551
50	Pumping plants.....1940..total number.....	2,664	12	1	6	28	2,334	1,591
51	1930..total number.....	610	.....	.....	.....	.....	528	6
52	Prime movers.....1940..capacity, hp.....	53,572	142	(7)	78	616	46,016	30,596
53	1930..capacity, hp.....	10,991	.....	.....	.....	.....	9,632	37
54	1920..capacity, hp.....	959	.....	.....	53	8	437	180
55	(a) Electric.....1940..number.....	246	3	.....	.....	.....	211	113
56	1940..capacity, hp.....	4,210	16	.....	.....	.....	3,055	1,425
57	(b) Internal-combustion.....1940..number.....	2,375	7	1	5	28	2,090	1,463
58	1940..capacity, hp.....	48,914	124	(7)	46	616	42,585	29,002
59	(c) Other.....1940..number.....	43	2	.....	1	.....	33	15
60	1940..capacity, hp.....	448	(7)	.....	(7)	.....	366	169
61	Pumps.....1940..total number.....	2,848	12	1	6	29	2,508	1,734
62	1930..number.....	636	.....	.....	.....	.....	551	6
63	1920..number.....	54	.....	.....	3	1	36	14
64	1940..capacity, g.p.m.....	2,528,669	3,779	(7)	3,385	24,655	2,229,055	1,506,089
65	1930..capacity, g.p.m.....	536,752	.....	.....	.....	.....	459,623	3,290
66	1920..capacity, g.p.m.....	73,686	.....	.....	4,000	480	36,003	14,580
67	(a) Centrifugal.....1940..number.....	1,622	5	1	6	24	1,389	935
68	1940..capacity, g.p.m.....	1,416,061	2,670	(7)	3,385	19,025	1,211,166	780,430
69	1940..average capacity, g.p.m..	873	534	(7)	564	793	872	835
70	(b) Turbine.....1940..number.....	1,128	3	.....	.....	4	1,039	759
71	1940..capacity, g.p.m.....	1,062,735	890	.....	.....	4,630	973,980	703,025
72	1940..average capacity, g.p.m..	942	297	.....	.....	1,158	937	926
73	(c) Plunger.....1940..number.....	42	4	.....	.....	.....	29	14
74	1940..capacity, g.p.m.....	4,418	219	.....	.....	.....	2,744	934
75	1940..average capacity, g.p.m..	105	55	.....	.....	.....	95	67
76	(d) Other.....1940..number.....	56	.....	.....	.....	1	51	26
77	1940..capacity, g.p.m.....	45,455	.....	.....	.....	(7)	41,165	21,700
78	Pumping lift, from all sources.....1940..average, feet.....	32	55	(7)	34	31	31	31
79	1930..average, feet.....	29	.....	.....	.....	.....	29	9
80	1920..average, feet.....	24	.....	.....	35	8	27	31
81	from pumped wells.....1940..average, feet.....	34	44	.....	36	50	33	31
82	from surface sources...1940..average, feet.....	22	65	(7)	32	18	19	19

[1] Data for unidentified tributaries of the Missouri River for the 1930 Census are included only in State totals.
[2] Data for 1 enterprise in Keya Paha River Drainage Basin (13) (number refers to separate map) are included with Niobrara River Drainage Basin (2).
[3] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

MISSOURI RIVER—Continued														
Platte River—Continued								Kansas River						
North Platte River			South Platte River						Republican River					
Total	Direct (4)	Blue Creek (5)	Total	Direct (9)	Lodgepole Creek (10)	Loup River (6)	Elkhorn River (7)	Total	Total	Direct (11)	Arikaree River (17)	Frenchman Creek (16)	Big Blue River (15)	
359	331	28	237	117	120	161	71	300	191	148	12	31	109	1
1,210	1,277	120	174	211	137	406	66	132	176	79	533	503	55	2
79	73	6	55	4	61	17	.....	38	30	10	5	15	8	3
63	26	.....	49	4	45	.....	.....	21	16	.....	.....	.....	.....	4
66	25	3	57	3	54	3	.....	28	28	.....	.....	.....	.....	5
40	36	4	7	2	5	3	.....	6	3	.....	1	2	3	6
12	12	.....	.....	.....	.....	.....	.....	4	3	.....	2	1	1	7
14	12	2	38	2	36	5	.....	22	20	8	1	11	2	8
13	13	.....	20	.....	20	9	.....	6	4	2	1	1	2	9
1,928.1	1,886.0	42.1	104.5	40.0	64.5	286.1	4.3	151.3	144.2	26.2	26.0	92.0	7.1	10
2,554	2,407	.....	152	38	113	.....	.....	108	96	.....	.....	.....	.....	11
2,147	1,869	27	275	57	218	22	.....	158	167	.....	.....	.....	1	12
1,891	1,849	42	103	39	54	283	4	151	144	26	26	92	7	13
37.1	37.0	0.1	1.5	1.0	0.5	3.1	0.3	0.3	0.2	0.2	.....	.....	0.1	14
6,758	6,609	149	631	417	214	1,215	114	698	545	228	67	250	153	15
8,641	8,056	.....	516	306	210	.....	.....	380	354	.....	.....	.....	.....	16
7,769	7,052	139	949	598	351	91	.....	606	601	.....	.....	.....	5	17
20.2	20.1	0.1	3.8	0.5	3.3	24.3	1.7	12.3	5.7	3.1	0.3	2.3	6.6	18
18.0	18.0	.....	0.5	.....	.....	.....	.....	1.1	0.6	.....	.....	.....	.....	19
0.5	0.5	.....	0.1	0.1	.....	.....	.....	2.4	2.0	.....	.....	.....	0.4	20
10.5	10.5	.....	0.3	0.1	0.2	7.8	.....	0.3	0.3	0.3	.....	.....	.....	21
2.5	2.4	0.1	2.6	0.3	2.3	16.3	0.7	9.6	3.7	2.1	0.3	1.3	5.9	22
2.2	2.2	.....	0.3	.....	0.3	0.2	.....	0.8	0.1	0.1	.....	.....	0.7	23
5.0	5.0	.....	0.6	0.1	0.5	.....	1.0	1.6	1.6	0.6	.....	1.0	.....	24
18	16	2	6	1	5	32	.....	16	10	6	3	1	6	25
6	4	.....	5	.....	5	1	.....	2	1	.....	.....	.....	.....	26
17	5	.....	5	.....	5	5	.....	9	9	.....	.....	.....	.....	27
1	.....	1	1	.....	1	.....	.....	1	.....	.....	.....	.....	1	28
15	14	1	4	1	3	32	.....	14	10	6	3	1	4	29
2	2	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	1	30
22	19	3	9	3	6	32	.....	16	8	6	1	1	8	31
13	12	1	7	3	4	31	.....	13	5	5	.....	.....	8	32
1	1	.....	1	.....	1	1	.....	3	3	1	1	1	.....	33
8	6	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	34
2,281,733	2,272,513	9,220	6,282	7	6,275	474	.....	1,359	1,154	354	(7)	(7)	205	35
8	5	.....	8	.....	6	1	.....	4	3	.....	.....	.....	.....	36
179,655	77,950	.....	6,710	.....	6,707	28	.....	46	45	.....	.....	.....	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	19	.....	.....	.....	.....	19	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	370	.....	.....	.....	.....	370	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
240	218	22	247	159	88	46	40	160	123	106	4	13	37	44
9	.....	.....	40	3	4	.....	.....	42	38	.....	.....	.....	.....	45
.....	.....	.....	5	4	1	.....	.....	13	13	.....	.....	.....	.....	46
225,461	207,138	18,323	217,114	145,540	71,574	31,285	30,525	120,435	96,170	76,420	4,550	15,500	23,965	47
950	.....	.....	32,850	2,750	5,300	.....	.....	27,990	23,485	.....	.....	.....	.....	48
.....	.....	.....	3,950	1,850	2,100	.....	.....	8,000	8,000	.....	.....	.....	.....	49
280	258	22	242	148	94	141	80	283	176	149	5	22	107	50
5	.....	.....	42	3	9	6	.....	76	60	.....	.....	.....	.....	51
5,982	5,012	970	5,174	2,946	2,228	2,600	1,664	6,695	4,082	3,157	140	785	2,613	52
21	.....	.....	674	50	139	155	.....	1,237	1,018	.....	.....	.....	.....	53
81	71	.....	106	36	70	49	.....	461	431	.....	.....	.....	30	54
26	25	1	62	57	5	8	2	32	12	8	.....	4	20	55
480	450	(7)	983	915	68	137	(7)	1,129	277	127	.....	150	852	56
250	230	20	174	91	83	125	78	244	160	138	5	17	84	57
5,429	4,490	939	4,185	2,031	2,154	2,345	1,624	5,518	3,770	3,010	140	620	1,748	58
4	3	1	6	.....	6	8	.....	7	4	3	.....	1	3	59
73	72	(7)	6	.....	6	118	.....	48	35	20	.....	(7)	13	60
295	273	22	242	151	91	147	90	292	182	154	5	23	110	61
5	.....	.....	44	3	9	6	.....	78	61	.....	.....	.....	.....	62
6	5	.....	5	2	3	7	.....	14	12	.....	.....	.....	2	63
282,814	264,391	18,423	226,204	148,480	77,724	131,798	82,150	266,395	175,855	139,385	5,370	31,100	90,840	64
1,000	.....	.....	43,850	2,750	14,300	7,725	.....	73,359	56,550	.....	.....	.....	.....	65
7,000	6,400	.....	9,682	1,850	7,832	4,280	.....	33,203	32,203	.....	.....	.....	1,000	66
190	190	.....	73	58	15	107	84	197	113	100	2	11	84	67
181,716	181,716	.....	71,307	58,750	12,557	100,813	76,900	178,715	107,475	90,905	(7)	15,450	71,240	68
956	956	.....	977	1,013	837	942	915	907	951	909	(7)	1,405	848	69
87	68	19	157	88	69	30	6	82	62	47	3	12	20	70
90,725	72,325	18,400	148,830	84,480	64,350	26,150	5,250	83,235	67,010	47,110	4,250	15,650	16,225	71
1,043	1,064	968	948	960	933	872	875	1,015	1,081	1,002	1,417	1,304	811	72
5	2	3	6	.....	6	4	.....	9	6	6	.....	.....	3	73
1,523	(7)	23	17	.....	17	270	.....	1,455	370	370	.....	.....	1,085	74
305	(7)	8	3	.....	3	68	.....	162	62	62	.....	.....	362	75
13	13	.....	6	5	1	6	.....	4	1	1	.....	.....	3	76
8,850	8,850	.....	6,050	5,250	(7)	4,565	.....	3,290	(7)	(7)	.....	.....	2,290	77
30	26	74	42	33	55	31	24	36	35	31	55	53	39	78
21	.....	.....	27	23	33	23	.....	27	28	.....	.....	.....	.....	79
15	8	.....	17	25	11	17	.....	26	27	.....	.....	.....	18	80
33	28	74	42	33	55	47	31	49	42	37	65	73	75	81
17	17	.....	.....	.....	.....	21	19	24	23	21	14	35	25	82

[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Adams	Antelope	Banner	Boone	Box Butte
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	121,062		1,456	1,940	323	1,672	854
2	1930...number....	129,458		1,715	2,154	342	1,985	914
3	Irrigated farms....1940...number....	6,913		10	14	4	22	27
4	1930...number....	4,602		5	1	1	2	6
5	Increase or decrease (-), 1930-1940....percent....	50.2		100.0	(1)	300.0	1,000.0	350.0
	Operated by—							
6	(a) Owners and managers....1940...number....	3,342		5	10	4	12	20
7	1930...number....	2,276		.....	.....	.....	.....	6
8	(b) Tenants....1940...number....	3,571		5	4	.....	10	7
9	1930...number....	2,326		.....	.....	.....	.....	.....
10	Land in all farms....1940...acres....	47,343,981		338,644	533,405	453,119	427,341	[2] 699,008
11	Land in irrigated farms....1940...acres....	3,577,439		2,937	3,037	20,060	7,157	66,289
12	Average per farm....1940...acres....	517		294	217	5,015	325	2,455
13	(a) Operated by owners and managers....1940...acres....	2,600,098		2,310	2,202	20,060	4,750	61,679
14	Average per farm....1940...acres....	778		462	220	5,015	396	3,084
15	(b) Operated by tenants....1940...acres....	977,341		627	835	.....	2,407	4,610
16	Average per farm....1940...acres....	274		125	209	.....	241	659
17	Approximate land area....1940...acres....	49,057,920		359,680	545,920	472,320	437,120	682,240
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	610,379		513	238	645	1,100	3,435
19	(a) Cropland harvested....1939...acres....	579,535		485	238	340	1,100	3,255
20	(b) Crop failure....1939...acres....	10,717		8	.....	305	.....	180
21	(c) Pasture....1939...acres....	20,127		20	.....	.....	.....	.....
22	Area irrigated....1929...acres....	532,617		.....	.....	.....	.....	2,400
23	1919...acres....	442,690		.....	.....	.....	.....	2,162
24	Increase or decrease (-), 1929-1939....percent....	14.6		.....	.....	.....	.....	43.1
25	Irrigable area in enterprises....1940...acres....	1,095,567		774	430	1,271	2,185	6,348
26	1930...acres....	763,039		.....	.....	.....	.....	3,740
27	1920[4]...acres....	766,768		.....	.....	.....	.....	3,802
28	Excess of irrigable area over the area irrigated...1940...acres....	485,188		261	192	626	1,085	2,913
29	1930...acres....	230,422		.....	.....	.....	.....	1,340
30	Area works were capable of supplying with water...1940...acres....	992,957		655	398	1,271	2,055	4,974
31	1930...acres....	703,641		.....	.....	.....	.....	3,740
32	1920...acres....	562,468		.....	.....	.....	.....	3,062
33	Increase or decrease (-), 1930-1940....percent....	41.1		.....	.....	.....	.....	33.0
34	Excess, capability of works over area irrigated...1940...acres....	382,578		142	160	626	955	1,539
35	1930...acres....	171,024		.....	.....	.....	.....	1,340
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	17.1		17.5	7.8	3.2	15.4	5.2
37	1929...percent....	32.3		.....	.....	.....	.....	4.3
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	61.5		78.3	59.8	50.7	53.5	69.1
39	1929...percent....	75.7		.....	.....	.....	.....	64.2
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	39,056,207		24,475	3,185	10,700	17,427	51,250
41	(a) Cost of irrigation works and equipment....1940...dollars....	38,749,216		24,420	3,128	10,700	17,302	50,850
42	(b) Investment in water rights (reported)....1940...dollars....	306,991		55	57	.....	125	400
43	Total investment in all enterprises....1930...dollars....	21,386,319		.....	.....	.....	.....	36,675
44	1920...dollars....	13,909,185		.....	.....	.....	.....	32,410
45	Increase or decrease (-), 1930-1940....percent....	82.6		.....	.....	.....	.....	39.7
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	39.33		37.37	8.00	8.42	8.48	10.30
47	1930...dollars....	30.39		.....	.....	.....	.....	9.81
48	1920...dollars....	24.73		.....	.....	.....	.....	10.58
49	Average investment per acre irrigated....1939...dollars....	63.99		47.71	13.38	16.59	15.84	14.92
50	Estimated final investment in existing enterprises...1940...dollars....	41,995,361		24,975	4,685	10,700	21,927	59,425
51	1930...dollars....	21,465,772		.....	.....	.....	.....	36,675
52	1920...dollars....	18,030,154		.....	.....	.....	.....	32,410
53	Increase or decrease (-), 1930-1940....percent....	95.6		.....	.....	.....	.....	62.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	38.33		32.27	10.90	8.42	10.04	9.36
55	1930...dollars....	28.13		.....	.....	.....	.....	9.81
56	1920[4]...dollars....	23.51		.....	.....	.....	.....	8.52
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental					
		Enterprises						
57	Enterprises reporting maintenance and operation...1939...number....	2,367	262	12	7	5	21	21
58	Area irrigated in these enterprises....1939...acres....	602,582	171,448	511	166	645	1,100	2,865
59	Cost of maintenance and operation....1939...dollars....	839,682	119,770	3,512	445	420	3,750	3,679
60	Average cost, per acre irrigated....1939...dollars....	1.39	0.70	6.87	2.68	0.65	3.41	1.28
61	1929...dollars....	1.54	.....	.....	.....	.....	.....	2.32
62	Total annual charges (reported)[5] [6]....1939...dollars....	674,403	96,342	.....	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars....	1.40	0.63	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres....	521,292	153,282	.....	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars....	1.29	0.63	.....	.....	.....	.....	.....
66	Total charges collected[5]....1939...dollars....	575,579	833	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars....	20,456,809	1,270,559	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	2,222	208	11	9	2	19	10
69	Area irrigated in these enterprises....1939...acres....	573,110	171,519	513	238	(3)	1,100	1,411
70	Water delivered in these enterprises....1939...acre-feet..	1,105,696	89,845	1,076	568	(3)	1,196	2,105
71	Average water delivered per acre irrigated....1939...acre-feet..	1.9	0.5	2.1	2.4	(3)	1.1	1.5
72	Average cost of water per acre irrigated....1939...dollars....	1.73	0.73	6.87	2.68	(3)	3.41	2.24
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	69	.....	.....	.....	.....	.....	.....
74	Irrigable area in these enterprises....1939...acres....	338,461	.....	.....	.....	.....	.....	.....
75	Irrigated area in these enterprises....1939...acres....	284,658	.....	.....	.....	.....	.....	.....
76	Area for which drains have been installed....1939...acres....	47,960	.....	.....	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres....	10,305	.....	.....	.....	.....	.....	.....

*Census of Agriculture.

[1]Percent not shown when more than 1,000.

[2]The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Brown	Buffalo	Butler	Chase	Cherry	Cheyenne	Clay	Colfax	Cuming	Custer	Dawes	Dawson	
733	2,276	1,896	768	1,217	1,167	1,551	1,416	1,925	3,413	844	1,919	1
706	2,429	1,883	766	1,480	1,116	1,782	1,393	1,943	3,735	870	2,086	2
40	460	12	21	31	215	5	33	16	88	78	870	3
2	250	.....	19	4	17	4	1	.....	6	60	781	4
(1)	84.0	.....	10.5	675.0	(1)	25.0	(1)	.....	(1)	30.0	11.4	5
19	215	8	13	25	111	4	20	7	51	46	420	6
.....	149	.....	11	.....	13	.....	.....	.....	.....	35	363	7
21	245	4	8	6	104	1	13	9	37	32	450	8
.....	101	.....	8	.....	4	.....	.....	.....	.....	25	418	9
758,793	592,714	365,312	545,773	3,572,549	753,082	357,918	253,620	360,421	[2] 1,676,166	853,756	601,343	10
63,333	94,316	2,744	56,898	237,019	179,485	2,207	8,961	3,244	48,201	120,761	274,175	11
1,583	205	229	2,709	7,646	835	441	272	203	548	1,548	315	12
34,133	48,757	2,024	52,508	216,484	111,877	(3)	6,464	1,589	36,084	95,501	171,068	13
1,796	227	253	4,039	8,659	1,008	(3)	323	227	708	2,076	407	14
29,200	45,561	720	4,390	20,535	67,608	(3)	2,497	1,655	12,117	25,260	103,107	15
1,390	186	180	549	3,422	650	(3)	192	184	327	789	229	16
779,520	609,280	372,480	572,160	3,828,480	759,040	364,800	259,200	365,440	1,639,680	888,960	629,120	17
635	24,076	399	2,520	1,837	4,178	251	1,169	421	3,797	14,301	70,308	18
630	23,362	389	2,500	1,524	3,662	243	1,145	421	3,553	12,834	69,012	19
5	454	.....	20	.....	320	.....	24	.....	209	829	1,106	20
.....	260	10	.....	313	196	8	.....	.....	35	638	190	21
.....	12,236	.....	2,060	.....	1,901	.....	.....	.....	.....	9,911	69,702	22
.....	3,019	.....	2,292	.....	5,247	.....	.....	.....	.....	9,005	33,700	23
.....	96.8	.....	22.3	.....	119.8	.....	.....	.....	.....	44.3	0.9	24
860	45,917	1,101	3,227	2,442	5,998	350	2,640	623	11,400	21,253	206,444	25
.....	33,227	.....	2,135	.....	2,694	.....	.....	.....	.....	15,379	173,775	26
.....	6,419	.....	4,491	.....	5,958	.....	.....	.....	.....	24,326	141,610	27
225	21,841	702	707	605	1,820	99	1,471	202	7,603	6,952	136,136	28
.....	20,991	.....	75	.....	793	.....	.....	.....	.....	5,468	104,073	29
809	37,956	976	3,104	2,369	5,694	283	2,570	568	9,507	16,685	200,544	30
.....	24,019	.....	2,135	.....	2,664	.....	.....	.....	.....	14,694	134,986	31
.....	3,059	.....	4,311	.....	5,778	.....	.....	.....	.....	19,052	64,725	32
.....	58.0	.....	45.4	.....	113.7	.....	.....	.....	.....	13.5	48.6	33
174	13,880	577	584	532	1,516	32	1,401	147	5,710	2,384	130,236	34
.....	11,783	.....	75	.....	763	.....	.....	.....	.....	4,783	65,284	35
1.0	25.5	14.5	4.4	0.8	2.3	11.4	13.0	13.0	7.9	11.8	25.3	36
.....	25.6	.....	10.3	.....	10.1	.....	.....	.....	.....	14.8	32.4	37
78.5	63.4	40.9	81.2	77.5	73.4	88.7	45.5	74.1	39.9	85.7	35.1	38
.....	50.9	.....	96.5	.....	.....	.....	.....	.....	.....	67.4	51.6	39
13,331	644,778	12,946	97,350	12,400	72,217	6,430	18,963	3,957	376,042	553,140	3,392,313	40
13,206	643,695	12,901	96,150	12,115	70,167	6,310	18,608	3,902	375,463	543,975	3,200,717	41
125	1,083	45	1,200	285	2,050	120	355	55	579	9,165	191,596	42
.....	315,314	.....	62,550	.....	24,600	.....	.....	.....	.....	484,760	866,645	43
.....	301,750	.....	39,095	.....	49,137	.....	.....	.....	.....	211,145	170,435	44
.....	104.5	.....	55.6	.....	193.6	.....	.....	.....	.....	14.1	291.4	45
16.48	16.99	13.26	31.36	5.23	12.68	22.72	7.38	6.97	39.55	33.15	16.92	46
.....	13.13	.....	29.30	.....	9.23	.....	.....	.....	.....	32.99	6.42	47
.....	98.64	.....	9.07	.....	8.50	.....	.....	.....	.....	11.08	2.63	48
20.99	26.78	32.45	38.63	6.75	17.29	25.62	16.22	9.40	99.04	38.68	48.25	49
14,806	661,212	12,996	97,350	13,250	86,117	6,430	21,758	4,057	388,032	659,790	3,413,474	50
.....	366,317	.....	62,550	.....	24,600	.....	.....	.....	.....	484,760	866,895	51
.....	301,750	.....	41,095	.....	49,437	.....	.....	.....	.....	243,245	270,435	52
.....	80.5	.....	55.6	.....	250.1	.....	.....	.....	.....	36.1	293.8	53
17.22	14.40	11.80	30.17	5.43	14.36	18.37	8.24	6.51	34.04	31.04	16.53	54
.....	11.02	.....	29.30	.....	9.13	.....	.....	.....	.....	31.52	4.99	55
.....	47.01	.....	9.15	.....	8.30	.....	.....	.....	.....	10.00	1.91	56
	Primary Enterprises	Sup.									Primary Enterprises	Sup.	
23	450	4	16	11	19	58	4	30	11	37	36	411	48	57
618	22,337	4,030	399	2,520	1,777	3,789	245	1,169	399	3,794	14,181	69,561	53,868	58
1,306	76,740	1,161	1,146	4,261	801	7,196	831	2,756	705	10,444	20,056	114,744	25,882	59
2.11	3.44	0.29	2.87	1.69	0.45	1.90	3.39	2.36	1.77	2.75	1.41	1.65	0.48	60
.....	3.92	.....	.....	0.63	.....	3.24	.....	.....	.....	.....	1.08	1.51	.....	61
.....	4,736	1,059	.....	695	.....	.....	.....	.....	.....	6,250	16,784	57,199	25,276	62
.....	1.19	0.27	.....	0.65	.....	.....	.....	.....	.....	2.50	1.59	1.11	0.49	63
.....	3,994	3,994	.....	1,070	.....	.....	.....	.....	.....	2,500	10,575	52,832	51,440	64
.....	1.19	0.27	.....	0.65	.....	.....	.....	.....	.....	2.50	1.59	1.08	0.49	65
.....	2,475	35	.....	.....	.....	.....	.....	.....	.....	3,939	15,613	62,588	792	66
.....	.....	53,581	.....	.....	.....	.....	.....	.....	.....	354,506	151,000	66,120	1,207,957	67
25	416	3	9	9	18	55	4	30	11	32	36	397	39	68
635	22,497	4,030	356	2,057	1,647	3,826	245	1,169	399	3,377	14,275	70,029	54,013	69
1,149	39,065	1,111	795	3,658	2,513	4,128	399	1,061	471	5,406	11,060	140,727	27,275	70
1.8	1.7	0.3	2.2	1.8	1.5	1.1	1.6	0.9	1.2	1.6	0.8	2.0	0.5	71
2.11	3.47	0.31	3.09	1.90	0.44	1.94	3.39	2.36	1.77	3.15	1.45	1.67	0.55	72
.....	.....	.....	.....	.....	3	.....	.....	7	1	.....	1	10	.....	73
.....	.....	.....	.....	.....	626	.....	.....	744	(3)	.....	(3)	6,858	.....	74
.....	.....	.....	.....	.....	604	.....	.....	282	(3)	.....	(3)	2,707	.....	75
.....	.....	.....	.....	.....	1	.....	.....	704	(3)	.....	(3)	2,353	.....	76
.....	.....	.....	.....	.....	83	.....	.....	40	.....	.....	.....	4	.....	77

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929, LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Deuel	Dodge	Douglas	Dundy	Fillmore	Franklin	Frontier
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[9]							
1	All farms....1940...number	515	1,793	1,761	652	1,768	1,201	1,169
2	1930...number	500	1,878	1,883	709	1,872	1,398	1,367
3	Irrigated farms....1940...number	72	29	24	43	4	22	10
4	1930...number	40	.....	.....	22	1	10	.....
5	Increase or decrease (-), 1930-1940....percent	80.0	.....	.....	95.5	300.0	120.0	.....
	Operated by—							
6	(a) Owners and managers....1940...number	33	20	7	22	3	14	10
7	1930...number	21	.....	.....	14	.....	.....	.....
8	(b) Tenants....1940...number	39	9	17	21	1	8	.....
9	1930...number	19	.....	.....	8	.....	.....	.....
10	Land in all farms....1940...acres	277,685	327,031	170,927	567,413	358,740	349,668	[2] 618,775
11	Land in irrigated farms....1940...acres	31,840	7,287	2,597	42,912	758	8,141	10,836
12	Average per farm....1940...acres	442	251	108	998	190	370	1,084
13	(a) Operated by owners and managers....1940...acres	20,098	4,791	972	33,324	[3]	5,098	10,836
14	Average per farm....1940...acres	609	240	139	1,515	[3]	364	1,084
15	(b) Operated by tenants....1940...acres	11,742	2,496	1,625	9,588	[3]	3,043	.....
16	Average per farm....1940...acres	301	277	96	457	[3]	380	.....
17	Approximate land area....1940...acres	278,400	338,560	214,400	589,440	369,280	369,920	618,240
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	8,585	1,289	410	4,487	122	1,088	72
19	(a) Cropland harvested....1939...acres	8,423	1,289	410	3,647	122	1,042	72
20	(b) Crop failure....1939...acres	67	.....	.....	204	.....	.....	.....
21	(c) Pasture....1939...acres	95	.....	.....	636	.....	46	.....
22	Area irrigated....1929...acres	6,857	.....	.....	3,470	.....	.....	.....
23	1919...acres	10,317	.....	.....	9,045	.....	.....	.....
24	Increase or decrease (-), 1929-1939....percent	25.2	.....	.....	29.3	.....	.....	.....
25	Irrigable area in enterprises....1940...acres	10,629	1,515	510	6,627	210	1,516	259
26	1930...acres	8,240	.....	.....	5,470	.....	.....	.....
27	1920[4]...acres	13,155	.....	.....	14,118	.....	.....	.....
28	Excess of irrigable area over the area irrigated..1940...acres	2,044	226	100	2,140	88	428	187
29	1930...acres	1,383	.....	.....	2,000	.....	.....	.....
30	Area works were capable of supplying with water...1940...acres	10,393	1,308	410	6,453	190	1,478	259
31	1930...acres	8,150	.....	.....	4,770	.....	.....	.....
32	1920...acres	11,755	.....	.....	10,918	.....	.....	.....
33	Increase or decrease (-), 1930-1940....percent	27.5	.....	.....	35.3	.....	.....	.....
34	Excess, capability of works over area irrigated...1940...acres	1,808	19	.....	1,966	68	390	187
35	1930...acres	1,293	.....	.....	1,300	.....	.....	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	27.0	17.7	15.8	10.5	16.1	13.4	0.7
37	1929...percent	32.9	.....	.....	15.4	.....	.....	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	82.6	98.5	100.0	69.5	64.2	73.6	27.8
39	1929...percent	84.1	.....	.....	72.7	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	76,174	8,194	5,600	79,775	5,000	22,313	1,167
41	(a) Cost of irrigation works and equipment....1940...dollars	75,994	8,194	5,600	69,520	5,000	22,100	1,160
42	(b) Investment in water rights (reported)....1940...dollars	180	.....	.....	10,255	.....	213	7
43	Total investment in all enterprises....1930...dollars	111,715	.....	.....	69,010	.....	.....	.....
44	1920...dollars	59,613	.....	.....	111,800	.....	.....	.....
45	Increase or decrease (-), 1930-1940....percent	-31.8	.....	.....	15.6	.....	.....	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	7.33	6.26	13.66	12.36	26.32	15.10	4.51
47	1930...dollars	13.71	.....	.....	14.47	.....	.....	.....
48	1920...dollars	5.07	.....	.....	10.24	.....	.....	.....
49	Average investment per acre irrigated....1939...dollars	8.87	6.36	13.66	17.78	40.98	20.51	16.21
50	Estimated final investment in existing enterprises..1940...dollars	77,484	8,934	6,600	81,755	5,000	23,468	2,367
51	1930...dollars	111,715	.....	.....	69,010	.....	.....	.....
52	1920...dollars	59,613	.....	.....	112,300	.....	.....	.....
53	Increase or decrease (-), 1930-1940....percent	-30.6	.....	.....	18.5	.....	.....	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	7.29	5.90	12.94	12.34	23.81	15.48	9.14
55	1930...dollars	13.56	.....	.....	12.62	.....	.....	.....
56	1920[4]...dollars	4.53	.....	.....	7.95	.....	.....	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises					
57	Enterprises reporting maintenance and operation...1939...number	52	6	30	3	10	3	15	5
58	Area irrigated in these enterprises....1939...acres	8,585	717	1,289	410	4,277	122	907	72
59	Cost of maintenance and operation....1939...dollars	8,285	772	1,797	1,170	2,338	469	1,745	221
60	Average cost, per acre irrigated....1939...dollars	0.96	1.08	1.39	2.85	0.55	3.84	1.92	3.07
61	1929...dollars	1.24	.....	.....	.....	0.74	.....	.....	.....
62	Total annual charges (reported)[5] [6]....1939...dollars	2,308	.....	.....	.....	1,283	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	0.38	.....	.....	.....	0.44	.....	.....	.....
64	Area against which charges were assessed....1939...acres	6,140	.....	.....	.....	2,924	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	0.38	.....	.....	.....	0.44	.....	.....	.....
66	Total charges collected[5]....1939...dollars	2,310	.....	.....	.....	2,707	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	.....	.....	.....	.....	10,420	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	50	1	30	3	11	3	17	4
69	Area irrigated in these enterprises....1939...acres	8,585	[3]	1,289	410	3,521	122	1,088	72
70	Water delivered in these enterprises....1939...acre-feet	8,974	[3]	1,976	453	6,379	235	1,402	59
71	Average water delivered per acre irrigated....1939...acre-feet	1.0	[3]	1.5	1.1	1.8	1.9	1.3	0.8
72	Average cost of water per acre irrigated....1939...dollars	0.93	[3]	1.39	2.85	0.61	3.84	1.92	3.06
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	1	.....	.....	.....	1	1	1	.....
74	Irrigable area in these enterprises....1939...acres	[3]	.....	.....	.....	[3]	[3]	[3]	.....
75	Irrigated area in these enterprises....1939...acres	[3]	.....	.....	.....	[3]	[3]	[3]	.....
76	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	[3]	[3]	[3]	.....
77	Additional area needing drainage....1939...acres	[3]	.....	.....	.....	[3]	.....	.....	.....

[9] Census of Agriculture.
[1] Percent not shown when more than 1,000.
[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Furnas	Gage	Garden	Garfield	Gosper	Greeley	Hall	Hamilton	Harlan	Hayes	Hitchcock	Holt	Howard	Jefferson	
1,334	2,870	653	490	767	956	1,567	1,623	1,121	561	802	2,305	1,402	1,611	1
1,549	2,898	710	445	846	1,173	1,628	1,766	1,257	646	942	2,410	1,553	1,716	2
17	11	117	57	13	20	233	9	21	14	114	6	23	4	3
4	.....	146	1	1	1	91	5	13	3	118	3	1	2	4
325.0	.....	-19.9	(1)	(1)	(1)	156.0	80.0	61.5	366.7	-3.4	100.0	(1)	100.0	5
10	9	58	26	8	9	110	8	13	9	69	5	10	1	6
.....	.....	73	.....	.....	.....	51	.....	.....	.....	68	.....	.....	.....	7
7	2	59	31	5	11	123	1	8	5	45	1	13	3	8
.....	.....	73	.....	.....	.....	40	.....	.....	.....	50	.....	.....	.....	9
451,156	532,014	[2]1,084,381	363,308	276,712	345,569	323,951	337,120	348,768	436,177	451,727	1,427,299	337,725	349,211	10
8,314	1,908	195,629	18,534	8,543	6,116	61,387	3,564	10,623	10,231	54,662	5,518	7,537	1,340	11
489	173	1,672	325	657	306	263	396	506	731	479	920	328	335	12
6,432	(3)	177,170	9,036	7,178	2,412	33,933	(3)	6,008	6,877	40,373	(3)	4,339	(3)	13
643	(3)	3,055	348	897	268	308	(3)	462	764	585	(3)	434	(3)	14
1,882	(3)	18,459	9,498	1,365	3,704	27,454	(3)	4,615	3,354	14,289	(3)	3,198	(3)	15
269	(3)	313	306	273	337	223	(3)	577	671	318	(3)	246	(3)	16
462,080	549,120	1,078,400	364,800	298,240	364,800	345,600	346,240	368,000	455,040	462,080	1,541,120	362,240	369,280	17
699	306	11,804	2,187	937	601	10,875	1,341	624	744	11,366	49	511	87	18
615	306	11,168	2,187	914	597	10,530	1,316	616	722	11,321	37	501	87	19
81	.....	150	.....	15	.....	214	.....	5	22	22	12	.....	.....	20
3	.....	486	.....	8	4	131	25	3	.....	23	.....	10	.....	21
.....	.....	24,077	.....	.....	.....	6,425	.....	.....	.....	10,974	.....	.....	.....	22
.....	.....	20,488	.....	.....	.....	.....	.....	.....	.....	9,786	.....	.....	.....	23
.....	.....	-51.0	.....	.....	.....	69.3	.....	.....	.....	3.6	.....	.....	.....	24
1,364	478	19,843	4,923	9,243	1,405	17,833	1,557	1,463	1,018	11,628	49	825	167	25
.....	.....	28,112	.....	.....	.....	10,012	.....	.....	.....	12,507	.....	.....	.....	26
.....	.....	26,714	.....	.....	.....	.....	.....	.....	.....	10,576	.....	.....	.....	27
665	172	8,039	2,736	8,306	804	6,958	216	839	274	262	.....	314	80	28
.....	.....	4,035	.....	.....	.....	3,587	.....	.....	.....	1,533	.....	.....	.....	29
1,309	458	19,843	4,389	1,436	1,291	17,128	1,557	1,314	968	11,548	49	676	167	30
.....	.....	28,111	.....	.....	.....	9,114	.....	.....	.....	11,794	.....	.....	.....	31
.....	.....	25,554	.....	.....	.....	.....	.....	.....	.....	10,226	.....	.....	.....	32
.....	.....	-29.4	.....	.....	.....	87.9	.....	.....	.....	-2.1	.....	.....	.....	33
610	152	8,039	2,202	499	690	6,253	216	690	224	182	.....	165	80	34
.....	.....	4,034	.....	.....	.....	2,699	.....	.....	.....	820	.....	.....	.....	35
8.4	16.0	6.0	11.8	11.0	9.8	17.7	37.6	5.9	7.3	20.8	0.9	6.8	6.5	36
.....	.....	19.2	.....	.....	.....	33.7	.....	.....	.....	33.5	.....	.....	.....	37
53.4	66.8	59.5	49.8	65.3	46.6	63.5	86.1	47.5	76.9	98.4	100.0	75.6	52.1	38
.....	.....	85.6	.....	.....	.....	70.5	.....	.....	.....	93.0	.....	.....	.....	39
20,123	21,170	135,159	263,388	19,077	60,558	273,884	59,550	23,295	12,443	191,615	1,310	12,745	5,250	40
20,047	21,150	132,422	263,383	19,032	60,456	273,884	59,550	23,250	12,408	191,477	1,300	12,355	5,250	41
76	20	2,737	5	45	102	.....	.....	45	35	138	10	390	.....	42
.....	.....	252,706	.....	.....	.....	218,000	.....	.....	.....	185,905	.....	.....	.....	43
.....	.....	229,001	.....	.....	.....	.....	.....	.....	.....	162,500	.....	.....	.....	44
.....	.....	-46.5	.....	.....	.....	25.6	.....	.....	.....	3.1	.....	.....	.....	45
15.37	46.22	6.81	60.01	13.28	46.91	15.99	38.25	17.73	12.85	16.59	26.73	18.85	31.44	46
.....	.....	8.99	.....	.....	.....	23.92	.....	.....	.....	15.76	.....	.....	.....	47
.....	.....	8.96	.....	.....	.....	.....	.....	.....	.....	15.89	.....	.....	.....	48
28.79	69.18	11.45	120.43	20.36	100.76	25.18	44.41	37.33	16.72	16.86	26.73	24.94	60.34	49
20,348	21,424	135,359	265,927	19,077	61,135	276,601	59,550	26,705	12,523	192,115	1,310	12,845	5,950	50
.....	.....	252,706	.....	.....	.....	218,350	.....	.....	.....	189,905	.....	.....	.....	51
.....	.....	270,201	.....	.....	.....	.....	.....	.....	.....	162,500	.....	.....	.....	52
.....	.....	-46.4	.....	.....	.....	26.7	.....	.....	.....	1.2	.....	.....	.....	53
14.92	44.82	6.82	54.02	2.06	43.51	15.51	38.25	18.25	12.30	16.52	26.73	15.57	35.63	54
.....	.....	8.99	.....	.....	.....	21.81	.....	.....	.....	15.18	.....	.....	.....	55
.....	.....	10.11	.....	.....	.....	.....	.....	.....	.....	15.36	.....	.....	.....	56
		Primary Enterprises	Sup.											
25	7	17	5	4	15	5	251	6	18	10	15	3	16	4	57
699	247	11,804	354	2,187	937	601	10,710	1,341	604	718	11,366	49	511	77	58
2,726	1,165	5,704	870	4,732	2,477	1,557	42,051	7,760	2,120	1,157	13,538	122	1,525	239	59
3.90	4.72	0.48	2.46	2.16	2.64	2.59	3.93	5.79	3.51	1.61	1.19	2.49	2.98	3.10	60
.....	.....	0.49	.....	.....	.....	.....	3.35	.....	.....	.....	1.44	.....	.....	.....	61
.....	.....	9,434	.....	5,202	.....	1,178	.....	.....	.....	.....	10,891	.....	.....	.....	62
.....	.....	0.97	.....	2.50	.....	2.50	.....	.....	.....	.....	1.09	.....	.....	.....	63
.....	.....	15,807	.....	2,081	.....	471	.....	.....	.....	.....	9,954	.....	.....	.....	64
.....	.....	0.60	.....	2.50	.....	2.50	.....	.....	.....	.....	1.09	.....	.....	.....	65
.....	.....	14,622	.....	5,202	.....	1,178	.....	.....	.....	.....	11,353	.....	.....	.....	66
.....	.....	25,101	.....	155,300	.....	35,150	.....	.....	.....	.....	.....	.....	.....	.....	67
22	8	10	4	4	13	3	222	6	18	11	14	2	15	4	68
699	246	6,227	354	2,187	937	536	10,875	1,341	624	744	10,782	(3)	509	77	69
1,027	169	11,140	319	5,025	1,113	1,196	15,177	1,539	1,438	1,448	30,858	(3)	1,204	78	70
1.5	0.7	1.8	0.9	2.3	1.2	2.2	1.4	1.1	2.3	1.9	2.9	(3)	2.4	1.0	71
3.88	3.29	0.82	2.32	2.53	2.64	2.76	3.92	5.79	3.51	1.61	1.18	(3)	2.97	3.10	72
.....	2	1	.....	1	1	.....	1	.....	1	.....	.....	.....	.....	.....	73
.....	(3)	(3)	.....	(3)	(3)	.....	(3)	.....	(3)	.....	.....	.....	.....	.....	74
.....	(3)	(3)	.....	(3)	(3)	.....	(3)	.....	(3)	.....	.....	.....	.....	.....	75
.....	(3)	.....	.....	.....	(3)	.....	(3)	.....	(3)	.....	.....	.....	.....	.....	76
.....	.....	(3)	.....	(3)	.....	.....	(3)	.....	(3)	.....	.....	.....	.....	.....	77

[3]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[4]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Kearney	Keith	Kimball	Lincoln	Loup
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*					
1	All farms....1940...number	1,155	706	515	1,962	314
2	1930...number	1,249	779	600	2,189	317
3	Irrigated farms....1940...number	95	142	73	320	50
4	1930...number	19	119	63	282	3
5	Increase or decrease (-), 1930-1940....percent	400.0	19.3	15.9	13.5	(1)
	Operated by—					
6	(a) Owners and managers....1940...number	46	81	42	157	27
7	1930...number	11	65	34	164	.....
8	(b) Tenants....1940...number	49	61	31	163	23
9	1930...number	8	54	29	118	.....
10	Land in all farms....1940...acres	319,332	[2] 699,074	565,754	1,447,091	317,551
11	Land in irrigated farms....1940...acres	36,389	242,448	90,987	135,591	33,961
12	Average per farm....1940...acres	383	1,707	1,246	424	679
13	(a) Operated by owners and managers....1940...acres	19,613	208,081	65,992	95,748	26,698
14	Average per farm....1940...acres	426	2,569	1,571	610	989
15	(b) Operated by tenants....1940...acres	16,776	34,367	24,995	39,843	7,263
16	Average per farm....1940...acres	342	563	806	244	316
17	Approximate land area....1940...acres	327,680	686,080	609,920	1,616,000	367,360
	IRRIGATED AND IRRIGABLE AREAS					
18	Area irrigated....1939...acres	6,730	16,690	8,192	44,022	4,224
19	(a) Cropland harvested....1939...acres	6,726	16,541	6,913	42,152	4,224
20	(b) Crop failure....1939...acres	4	.....	906	502	.....
21	(c) Pasture....1939...acres	.....	149	373	1,368	.....
22	Area irrigated....1929...acres	860	23,141	7,422	35,708	.....
23	1919...acres	.....	25,832	9,101	35,246	.....
24	Increase or decrease (-), 1929-1939....percent	682.6	-27.9	10.4	23.3	.....
25	Irrigable area in enterprises....1940...acres	40,220	22,538	9,213	51,577	8,133
26	1930...acres	1,445	27,597	9,807	42,509	.....
27	1920[4]...acres	.....	33,974	11,224	45,421	.....
28	Excess of irrigable area over the area irrigated..1940...acres	33,490	5,848	1,021	7,555	3,909
29	1930...acres	585	4,456	2,385	6,801	.....
30	Area works were capable of supplying with water...1940...acres	40,168	22,238	9,031	51,336	7,766
31	1930...acres	1,445	26,812	9,345	42,288	.....
32	1920...acres	.....	31,466	11,117	41,811	.....
33	Increase or decrease (-), 1930-1940....percent	(1)	-17.1	-3.4	21.4	.....
34	Excess, capability of works over area irrigated...1940...acres	33,438	5,548	839	7,314	3,542
35	1930...acres	585	3,671	1,923	6,580	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	18.5	6.9	9.0	32.5	12.4
37	1929...percent	13.1	15.5	18.8	36.3	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	16.8	75.1	90.7	85.8	54.4
39	1929...percent	59.5	86.3	79.4	84.4	.....
	CAPITAL INVESTED TO JANUARY 1					
40	Total investment in all enterprises....1940...dollars	3,713,510	191,655	281,973	580,027	248,285
41	(a) Cost of irrigation works and equipment....1940...dollars	3,708,590	190,875	281,863	579,175	248,240
42	(b) Investment in water rights (reported)....1940...dollars	4,920	780	110	852	45
43	Total investment in all enterprises....1930...dollars	33,050	326,040	279,790	489,895	.....
44	1920...dollars	.....	205,734	270,500	330,481	.....
45	Increase or decrease (-), 1930-1940....percent	(1)	-41.2	0.8	18.4	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	92.45	8.62	31.22	11.30	31.97
47	1930...dollars	22.87	12.16	29.94	11.58	.....
48	1920...dollars	.....	6.54	24.33	7.90	.....
49	Average investment per acre irrigated....1939...dollars	551.78	11.48	34.42	13.18	58.78
50	Estimated final investment in existing enterprises..1940...dollars	4,733,471	194,820	289,993	592,062	252,061
51	1930...dollars	33,200	329,040	279,790	489,895	.....
52	1920...dollars	.....	221,334	270,500	330,481	.....
53	Increase or decrease (-), 1930-1940....percent	(1)	-40.8	3.6	20.9	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	117.69	8.64	31.48	11.48	30.99
55	1930...dollars	22.98	11.92	28.53	11.52	.....
56	1920[4]...dollars	.....	6.51	24.10	7.28	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	
57	Enterprises reporting maintenance and operation..1939...number	41	53 / 24	37 / 3	74 / 77		5
58	Area irrigated in these enterprises....1939...acres	6,677	15,892 / 2,531	8,192 / 258	43,951 / 7,036		4,224
59	Cost of maintenance and operation....1939...dollars	6,425	15,668 / 3,583	11,119 / 250	33,944 / 5,414		5,355
60	Average cost, per acre irrigated....1939...dollars	0.96	0.99 / 1.42	1.36 / 0.97	0.77 / 0.77		1.27
61	1929...dollars	6.02	0.80	1.82	1.25		.....
62	Total annual charges (reported)[5] [6]....1939...dollars	5,570	5,485	8,998	25,620	386	6,910
63	Average annual charge per acre irrigated....1939...dollars	1.06	0.48	2.00	0.66	0.31	1.66
64	Area against which charges were assessed....1939...acres	5,255	11,374	4,499	42,712	1,246	4,154
65	Average annual charge per acre assessed....1939...dollars	1.06	0.48	2.00	0.60	0.31	1.66
66	Total charges collected[6]....1939...dollars	2,982	3,380	9,000	24,993	6	6,910
67	Indebtedness to December 31 (reported)[6]....1939...dollars	2,513,251	1,520	82,000	20,077	9,021	136,864
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	41	74 / 1	34 / 3	68	72	5
69	Area irrigated in these enterprises....1939...acres	6,730	14,417 / (3)	7,969 / 258	34,255	7,041	4,224
70	Water delivered in these enterprises....1939...acre-feet	9,853	17,704 / (3)	8,010 / 241	58,028	4,227	8,524
71	Average water delivered per acre irrigated....1939...acre-feet	1.5	1.2 / (3)	1.0 / 0.9	1.7	0.6	2.0
72	Average cost of water per acre irrigated....1939...dollars	1.45	1.06 / (3)	2.05 / 0.97	0.91	0.77	1.73
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	.....	2	....	5		1
74	Irrigable area in these enterprises....1939...acres	.....	(3)	....	30,049		(3)
75	Irrigated area in these enterprises....1939...acres	.....	(3)	....	25,908		(3)
76	Area for which drains have been installed....1939...acres	.....	(3)	....	14,820		.....
77	Additional area needing drainage....1939...acres	.....	(3)	....	2,458		(3)

*Census of Agriculture.

[1] Percent not shown when more than 1,000.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Madison	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk	Red Willow	Rock	Saline	Saunders	
1,874	1,238	1,007	961	1,373	897	1,161	2,094	1,383	1,047	593	2,057	2,668	1
1,986	1,390	1,081	1,197	1,587	1,034	1,196	2,174	1,507	1,189	531	2,087	2,699	2
24	83	590	14	6	3	100	46	5	83	20	14	12	3
1	16	515	.....	5	.....	9	4	1	46	3	1	.....	4
(1)	418.8	14.6	.....	20.0	.....	(1)	(1)	400.0	80.4	566.7	(1)	.....	5
14	40	236	5	5	2	50	23	4	49	15	10	6	6
.....	12	206	.....	.....	.....	.....	.....	.....	26	.....	.....	.....	7
10	43	354	9	1	1	50	23	1	34	5	4	6	8
.....	4	309	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	9
357,133	282,711	781,893	272,391	347,278	529,903	327,152	421,736	270,213	434,125	[2]665,541	356,892	463,111	10
6,694	19,769	243,254	10,141	1,232	3,400	32,277	10,084	1,445	30,081	44,154	3,180	2,376	11
279	238	412	724	205	1,133	323	219	269	362	2,208	227	198	12
4,395	10,097	153,210	7,564	(3)	(3)	18,061	4,424	(3)	21,881	42,280	2,580	1,355	13
314	252	649	1,513	(3)	(3)	361	192	(3)	447	2,819	258	226	14
2,299	9,672	90,044	2,577	(3)	(3)	14,216	5,660	(3)	8,200	1,874	600	1,021	15
230	225	254	286	(3)	(3)	284	246	(3)	241	375	150	170	16
366,080	298,880	897,920	280,320	370,560	566,400	348,800	430,080	277,120	458,240	647,680	368,000	483,840	17
584	2,878	79,962	225	323	353	4,502	535	308	4,542	203	249	195	18
584	2,782	70,275	201	307	313	4,493	532	308	4,537	203	249	195	19
.....	.....	3,674	24	.....	.....	.....	.....	.....	5	.....	.....	.....	20
.....	96	6,013	.....	16	40	9	3	.....	.....	.....	.....	.....	21
.....	835	87,306	.....	.....	.....	.....	.....	.....	3,256	.....	.....	.....	22
.....	.....	55,216	.....	.....	.....	.....	.....	.....	4,013	.....	.....	.....	23
.....	244.7	-8.4	.....	.....	.....	.....	.....	.....	39.5	.....	.....	.....	24
785	4,231	105,903	256	509	500	121,506	910	362	5,994	332	521	344	25
.....	1,292	112,458	.....	.....	.....	.....	.....	.....	4,267	.....	.....	.....	26
.....	.....	100,588	.....	.....	.....	.....	.....	.....	4,928	.....	.....	.....	27
201	1,353	25,941	31	186	147	117,004	375	54	1,452	129	272	149	28
.....	457	25,152	.....	.....	.....	.....	.....	.....	1,011	.....	.....	.....	29
778	4,083	105,122	230	509	465	62,855	787	362	5,737	332	473	314	30
.....	1,285	111,077	.....	.....	.....	.....	.....	.....	4,267	.....	.....	.....	31
.....	.....	70,645	.....	.....	.....	.....	.....	.....	4,700	.....	.....	.....	32
.....	217.7	-5.4	.....	.....	.....	.....	.....	.....	34.4	.....	.....	.....	33
194	1,205	25,160	5	186	112	58,353	252	54	1,195	129	224	119	34
.....	450	23,771	.....	.....	.....	.....	.....	.....	1,011	.....	.....	.....	35
8.7	14.6	32.9	2.2	26.2	10.4	13.9	5.3	21.3	15.1	0.5	7.8	8.2	36
.....	14.5	47.2	.....	.....	.....	.....	.....	.....	32.0	.....	.....	.....	37
75.1	70.5	76.1	97.6	63.5	75.9	7.2	68.0	85.1	79.2	61.1	52.6	62.1	38
.....	65.0	78.6	.....	.....	.....	.....	.....	.....	76.3	.....	.....	.....	39
25,242	56,298	4,096,708	6,290	4,130	10,200	5,776,493	11,560	8,313	149,373	2,764	4,033	4,610	40
25,132	56,292	4,088,280	6,240	4,080	10,200	5,768,798	11,550	8,235	147,290	2,744	3,981	4,565	41
110	6	8,428	50	50	.....	7,695	10	78	2,083	20	52	45	42
.....	18,080	3,804,028	.....	.....	.....	.....	.....	.....	107,550	.....	.....	.....	43
.....	.....	2,502,018	.....	.....	.....	.....	.....	.....	74,450	.....	.....	.....	44
.....	211.4	7.7	.....	.....	.....	.....	.....	.....	38.9	.....	.....	.....	45
32.44	13.79	38.97	27.35	8.11	21.94	91.90	14.69	22.96	26.04	8.33	8.53	14.68	46
.....	14.07	34.25	.....	.....	.....	.....	.....	.....	25.21	.....	.....	.....	47
.....	.....	35.42	.....	.....	.....	.....	.....	.....	15.84	.....	.....	.....	48
43.22	19.56	51.23	27.96	12.79	28.90	1,283.09	21.61	26.99	32.89	13.62	16.20	23.64	49
28,312	56,648	4,113,768	6,290	4,180	10,700	7,371,430	11,828	8,313	151,643	2,764	4,073	4,650	50
.....	18,080	3,804,528	.....	.....	.....	.....	.....	.....	109,850	.....	.....	.....	51
.....	.....	3,029,213	.....	.....	.....	.....	.....	.....	75,450	.....	.....	.....	52
.....	213.3	8.1	.....	.....	.....	.....	.....	.....	38.0	.....	.....	.....	53
36.07	13.39	38.84	24.57	8.21	21.40	60.67	13.00	22.96	25.30	8.33	7.82	13.52	54
.....	13.99	33.83	.....	.....	.....	.....	.....	.....	25.74	.....	.....	.....	55
.....	.....	30.12	.....	.....	.....	.....	.....	.....	15.31	.....	.....	.....	56
		Primary Enterprises	Sup.						Primary Enterprises	Sup.			
16	55	42	4	3	6	3	51	17	6	50	3	7	13	10	57
584	2,626	78,412	41,734	225	318	353	4,502	505	308	4,542	12	179	249	193	58
3,025	7,413	77,019	31,609	670	718	760	9,307	2,225	661	9,630	71	507	838	542	59
5.18	2.82	0.98	0.76	2.98	2.26	2.15	2.07	4.41	2.15	2.12	5.92	2.83	3.37	2.81	60
.....	4.34	1.47	.....	.....	.....	.....	.....	.....	.....	2.21	.....	.....	.....	.....	61
.....	.....	153,738	31,077	.....	.....	.....	2,070	.....	.....	4,500	.....	.....	.....	.....	62
.....	.....	2.03	0.75	.....	.....	.....	0.76	.....	.....	1.58	.....	.....	.....	.....	63
.....	.....	94,888	41,539	.....	.....	.....	2,724	.....	.....	2,850	.....	.....	.....	.....	64
.....	.....	1.62	0.75	.....	.....	.....	0.76	.....	.....	.....	.....	.....	.....	.....	65
.....	.....	124,543	.....	.....	.....	.....	4,665	.....	.....	5,100	.....	.....	.....	.....	66
.....	.....	2,144,855	.....	.....	.....	.....	3,930,983	.....	.....	.....	.....	.....	.....	.....	67
14	56	35	4	3	7	3	48	18	6	41	1	11	13	9	68
578	2,683	76,021	41,734	225	323	353	4,492	535	308	4,542	(3)	103	249	168	69
1,254	3,552	149,989	22,424	244	268	241	6,567	580	457	11,278	(3)	133	185	201	70
2.2	1.3	2.0	0.5	1.1	0.8	0.7	1.5	1.1	1.5	2.5	(3)	1.3	0.7	1.2	71
4.93	2.83	2.08	0.76	2.98	2.26	2.15	1.72	4.41	2.15	2.05	(3)	5.53	3.37	2.78	72
.....	.....	3	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	73
.....	.....	34,947	.....	.....	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	74
.....	.....	28,616	.....	.....	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	75
.....	.....	4,164	.....	.....	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	76
.....	.....	400	.....	.....	.....	.....	.....	.....	.....	(3)	.....	.....	.....	.....	77

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Scotts Bluff	Seward	Sheridan	Sherman	Sioux	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number	1,900	2,076	1,236	1,167	699	
2	1930...number	1,793	2,132	1,303	1,466	785	
3	Irrigated farms....1940...number	1,719	26	40	70	261	
4	1930...number	1,609	.....	.....	2	275	
5	Increase or decrease (-), 1930-1940....percent	6.8	.....	.....	(1)	-5.1	
6	Operated by—(a) Owners and managers....1940...number	721	14	38	31	133	
7	1930...number	719	.....	.....	.....	153	
8	(b) Tenants....1940...number	998	12	2	39	128	
9	1930...number	890	.....	.....	.....	122	
10	Land in all farms....1940...acres	[2]468,032	359,551	[2]1,646,802	341,042	1,143,861	
11	Land in irrigated farms....1940...acres	343,029	3,774	210,939	19,875	260,460	
12	Average per farm....1940...acres	200	145	5,273	284	998	
13	(a) Operated by owners and managers....1940...acres	185,842	2,488	(3)	9,436	197,819	
14	Average per farm....1940...acres	258	178	(3)	304	1,487	
15	(b) Operated by tenants....1940...acres	157,187	1,286	(3)	10,439	62,641	
16	Average per farm....1940...acres	158	107	(3)	268	489	
17	Approximate land area....1940...acres	464,640	366,080	1,578,240	364,800	1,320,320	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres	200,468	499	429	2,034	32,824	
19	(a) Cropland harvested....1939...acres	192,432	477	279	2,010	30,964	
20	(b) Crop failure....1939...acres	918	.....	150	.....	209	
21	(c) Pasture....1939...acres	7,118	22	.....	24	1,651	
22	Area irrigated....1929...acres	193,816	.....	.....	.....	25,578	
23	1919...acres	173,245	.....	.....	.....	29,796	
24	Increase or decrease (-), 1929-1939....percent	3.4	.....	.....	.....	28.3	
25	Irrigable area in enterprises....1940...acres	222,195	1,115	1,179	15,047	43,375	
26	1930...acres	223,182	.....	.....	.....	36,976	
27	1920[4]...acres	251,647	.....	.....	.....	47,307	
28	Excess of irrigable area over the area irrigated...1940...acres	21,727	616	750	13,013	10,551	
29	1930...acres	29,366	.....	.....	.....	11,398	
30	Area works were capable of supplying with water...1940...acres	222,184	947	974	12,536	41,622	
31	1930...acres	219,252	.....	.....	.....	36,575	
32	1920...acres	196,229	.....	.....	.....	39,793	
33	Increase or decrease (-), 1930-1940....percent	1.3	.....	.....	.....	13.8	
34	Excess, capability of works over area irrigated...1940...acres	21,716	448	545	10,502	8,798	
35	1930...acres	25,436	.....	.....	.....	10,997	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	58.4	13.2	0.2	10.2	12.6	
37	1929...percent	68.5	.....	.....	.....	13.6	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	90.2	52.7	44.0	16.2	78.9	
39	1929...percent	88.4	.....	.....	.....	69.9	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars	12,660,249	6,275	10,180	577,218	2,692,600	
41	(a) Cost of irrigation works and equipment....1940...dollars	12,603,898	6,165	10,170	577,061	2,689,857	
42	(b) Investment in water rights (reported)....1940...dollars	56,351	110	10	157	2,743	
43	Total investment in all enterprises....1930...dollars	11,960,785	.....	.....	.....	1,595,659	
44	1920...dollars	7,037,085	.....	.....	.....	1,978,842	
45	Increase or decrease (-), 1930-1940....percent	5.8	.....	.....	.....	68.7	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	56.98	6.63	10.45	46.04	61.69	
47	1930...dollars	54.55	.....	.....	.....	43.63	
48	1920...dollars	35.86	.....	.....	.....	49.73	
49	Average investment per acre irrigated....1939...dollars	63.15	12.58	23.73	283.78	82.03	
50	Estimated final investment in existing enterprises...1940...dollars	12,676,939	6,350	10,680	592,468	2,704,035	
51	1930...dollars	11,967,485	.....	.....	.....	1,595,659	
52	1920...dollars	9,585,622	.....	.....	.....	2,727,029	
53	Increase or decrease (-), 1930-1940....percent	5.9	.....	.....	.....	69.5	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	57.05	5.70	9.06	39.37	62.34	
55	1930...dollars	53.62	.....	.....	.....	43.15	
56	1920[4]...dollars	38.09	.....	.....	.....	57.64	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises			Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	40	81	21	10	5	46	5
58	Area irrigated in these enterprises....1939...acres	200,179	59,963	404	429	2,034	32,779	861
59	Cost of maintenance and operation....1939...dollars	211,528	49,392	950	1,453	9,017	39,723	481
60	Average cost, per acre irrigated....1939...dollars	1.06	0.82	2.35	3.39	4.43	1.21	0.56
61	1929...dollars	1.60	.....	.....	.....	.....	1.66	.....
62	Total annual charges (reported)[5] [6]....1939...dollars	283,885	38,544	.....	.....	5,000	34,434	.....
63	Average annual charge per acre irrigated....1939...dollars	1.43	0.70	.....	.....	2.50	1.30	.....
64	Area against which charges were assessed....1939...acres	207,107	55,063	.....	.....	2,000	26,488	.....
65	Average annual charge per acre assessed....1939...dollars	1.37	0.70	.....	.....	2.50	1.30	.....
66	Total charges collected[5]....1939...dollars	232,329	.....	.....	.....	6,566	9,828	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	7,699,900	.....	.....	.....	590,844	1,685,541	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	39	74	15	10	5	35	4
69	Area irrigated in these enterprises....1939...acres	193,673	59,884	443	429	2,034	32,104	861
70	Water delivered in these enterprises....1939...acre-feet	441,850	31,298	550	619	4,510	48,794	301
71	Average water delivered per acre irrigated....1939...acre-feet	2.3	0.5	1.2	1.4	2.2	1.5	0.3
72	Average cost of water per acre irrigated....1939...dollars	1.44	0.85	2.70	3.39	2.53	1.23	0.56
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	7	.....	4	.....	1	3	.....
74	Irrigable area in these enterprises....1939...acres	189,937	.....	85	.....	(3)	32,908	.....
75	Irrigated area in these enterprises....1939...acres	175,555	.....	72	.....	(3)	27,038	.....
76	Area for which drains have been installed....1939...acres	21,281	.....	78	.....	(3)	3,656	.....
77	Additional area needing drainage....1939...acres	5,792	.....	.....	.....	.....	1,279	.....

*Census of Agriculture. [1]Percent not shown when more than 1,000. [2]The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county. [3]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census. [4]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [5]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [6]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Stanton	Thayer	Valley		Webster	York	All other counties[1]
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number	1,218	1,641	1,173		1,283	1,829	31,541
2	1930...number	1,225	1,713	1,300		1,535	1,999	32,970
3	Irrigated farms....1940...number	14	7	198		14	14	61
4	1930...number	.....	.....	2		.....	3	1
5	Increase or decrease (-), 1930-1940....percent	.....	.....	(2)		.....	366.7	(2)
6	Operated by—(a) Owners and managers....1940...number	8	3	78		10	10	40
7	1930...number	.....	.....	.....		.....	.....	82
8	(b) Tenants....1940...number	6	4	120		4	4	21
9	1930...number	.....	.....	.....		.....	.....	26
10	Land in all farms....1940...acres	265,141	355,007	349,986		350,624	360,914	9,965,819
11	Land in irrigated farms....1940...acres	3,788	1,293	53,281		4,109	4,372	35,959
12	Average per farm....1940...acres	271	185	269		293	312	589
13	(a) Operated by owners and managers....1940...acres	2,648	737	22,853		3,130	3,546	27,216
14	Average per farm....1940...acres	331	246	293		313	355	680
15	(b) Operated by tenants....1940...acres	1,140	556	30,428		973	826	8,743
16	Average per farm....1940...acres	190	139	254		243	206	416
17	Approximate land area....1940...acres	275,840	369,280	364,800		368,000	369,280	10,104,960
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	453	118	9,288		384	456	702
19	(a) Cropland harvested....1939...acres	339	118	9,268		334	450	694
20	(b) Crop failure....1939...acres	15	.....	.....		50	.....	8
21	(c) Pasture....1939...acres	99	.....	.....		.....	6	.....
22	Area irrigated....1929...acres	.....	.....	.....		.....	.....	4,682
23	1919...acres	.....	.....	.....		.....	.....	5,180
24	Increase or decrease (-), 1929-1939....percent	.....	.....	.....		.....	.....	-85.0
25	Irrigable area in enterprises....1940...acres	780	219	25,617		486	917	4,478
26	1930...acres	.....	.....	.....		.....	.....	8,215
27	1920[3]...acres	.....	.....	.....		.....	.....	20,510
28	Excess of irrigable area over the area irrigated..1940...acres	327	101	16,329		102	461	3,776
29	1930...acres	.....	.....	.....		.....	.....	3,533
30	Area works were capable of supplying with water...1940...acres	705	199	22,595		482	857	4,228
31	1930...acres	.....	.....	.....		.....	.....	7,118
32	1920...acres	.....	.....	.....		.....	.....	8,267
33	Increase or decrease (-), 1930-1940....percent	.....	.....	.....		.....	.....	40.6
34	Excess, capability of works over area irrigated...1940...acres	252	81	13,307		98	401	3,526
35	1930...acres	.....	.....	.....		.....	.....	2,436
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	12.0	9.1	17.4		9.4	10.4	2.0
37	1929...percent	.....	.....	.....		.....	.....	12.6
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	64.3	59.3	41.1		79.7	53.2	16.6
39	1929...percent	.....	.....	.....		.....	.....	65.8
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	9,295	4,690	1,254,254		8,772	16,484	36,032
41	(a) Cost of irrigation works and equipment....1940...dollars	9,280	4,290	1,254,168		8,745	16,444	35,867
42	(b) Investment in water rights (reported)....1940...dollars	15	400	86		27	40	165
43	Total investment in all enterprises....1930...dollars	.....	.....	.....		.....	.....	143,562
44	1920...dollars	.....	.....	.....		.....	.....	143,189
45	Increase or decrease (-), 1930-1940....percent	.....	.....	.....		.....	.....	-74.9
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	13.18	23.57	55.51		16.20	19.23	8.52
47	1930...dollars	.....	.....	.....		.....	.....	20.17
48	1920...dollars	.....	.....	.....		.....	.....	17.32
49	Average investment per acre irrigated....1939...dollars	20.52	39.75	135.04		22.84	36.15	51.33
50	Estimated final investment in existing enterprises..1940...dollars	9,295	4,880	1,271,062		9,372	18,084	37,729
51	1930...dollars	.....	.....	.....		.....	.....	154,762
52	1920...dollars	.....	.....	.....		.....	.....	247,539
53	Increase or decrease (-), 1930-1940....percent	.....	.....	.....		.....	.....	-75.6
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	11.92	22.28	49.62		19.28	19.72	8.43
55	1930...dollars	.....	.....	.....		.....	.....	18.84
56	1920[3]...dollars	.....	.....	.....		.....	.....	12.07
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Supplemental Enterprises			
57	Enterprises reporting maintenance and operation...1939...number	6	5	12	2	12	15	20
58	Area irrigated in these enterprises....1939...acres	429	118	9,288	(4)	244	456	701
59	Cost of maintenance and operation....1939...dollars	2,465	656	23,201	(4)	1,079	4,065	3,999
60	Average cost, per acre irrigated....1939...dollars	5.75	5.56	2.50	(4)	4.42	8.91	5.70
61	1929...dollars	.....	.....	.....	.....	.....	.....	3.69
62	Total annual charges (reported)[5] [6]....1939...dollars	.....	.....	22,233	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	.....	.....	2.50	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	.....	.....	8,893	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	.....	.....	2.50	.....	.....	.....	.....
66	Total charges collected[5]....1939...dollars	.....	.....	23,296	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	.....	.....	853,377	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	7	5	12	2	12	14	19
69	Area irrigated in these enterprises....1939...acres	453	118	9,288	(4)	379	456	702
70	Water delivered in these enterprises....1939...acre-feet	1,159	143	22,289	(4)	894	476	932
71	Average water delivered per acre irrigated....1939...acre-feet	2.6	1.2	2.4	(4)	2.4	1.0	1.3
72	Average cost of water per acre irrigated....1939...dollars	5.75	5.56	2.64	(4)	4.51	8.91	5.70
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	2	.....	1	.....	1	1	2
74	Irrigable area in these enterprises....1939...acres	(4)	.....	(4)	.....	(4)	(4)	(4)
75	Irrigated area in these enterprises....1939...acres	(4)	.....	(4)	.....	(4)	(4)	(4)
76	Area for which drains have been installed....1939...acres	(4)	.....	.....	.....	(4)	(4)	(4)
77	Additional area needing drainage....1939...acres	(4)	.....	(4)	.....	.....	.....	(4)

*Census of Agriculture. [1]Data between census years not comparable (see headnote). [2]Percent not shown when more than 1,000. [3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [5]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [6]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Adams	Antelope	Banner	Boone	Box Butte	Brown
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	1,137,808,019	10,381,266	12,978,548	3,222,304	13,068,919	8,372,874	4,738,365
2	Land and buildings, irrigated farms.....dollars..	92,846,541	170,318	104,580	114,505	401,708	572,770	274,480
	Operated by—							
3	(a) Owners and managers.....dollars..	54,397,486	147,363	73,130	114,505	286,458	506,770	156,840
4	(b) Tenants.....dollars..	38,449,055	22,955	31,450	.....	115,250	66,000	117,640
5	Average, land and buildings, per farm.....dollars..	13,430.72	17,031.80	7,470.00	28,626.25	18,259.45	21,213.70	6,862.00
6	per acre in farms.....dollars..	25.95	57.99	34.44	5.71	56.13	8.64	4.33
7	Buildings, irrigated farms reporting value.....number...	6,698	10	14	4	21	26	39
8	Total reported.....dollars..	17,318,057	56,663	36,450	13,000	98,500	99,650	49,175
9	Average, per irrigated farm reporting.....dollars..	2,585.56	5,666.30	2,603.57	3,250.00	4,690.48	3,832.69	1,260.90
10	per acre on all irrigated farms.....dollars..	4.84	19.29	12.00	0.65	13.76	1.50	0.78
11	Buildings, nonirrigated farms reporting value.....number...	109,386	1,384	1,898	287	1,604	739	669
12	Total reported.....dollars..	239,435,747	2,099,831	3,564,450	463,370	3,753,655	1,509,692	1,006,250
13	Average, per nonirrigated farm reporting.....dollars..	2,188.91	1,517.22	1,878.00	1,614.53	2,340.18	2,042.88	1,504.11
14	per acre on all nonirrigated farms.....dollars..	5.47	6.25	6.72	1.07	8.93	2.39	1.45
15	Implements and machinery, irrigated farms reporting value..number...	6,597	10	14	4	22	27	39
16	Total reported.....dollars..	9,398,048	20,137	18,875	5,800	31,600	57,071	27,135
17	Average, per irrigated farm reporting.....dollars..	1,424.59	2,013.70	1,348.21	1,450.00	1,436.36	2,113.74	695.77
18	per acre, on all irrigated farms.....dollars..	2.63	6.86	6.22	0.29	4.42	0.86	0.43
19	Implements and machinery, nonirrigated farms reporting value.....number...	106,087	1,361	1,798	284	1,532	756	641
20	Total reported.....dollars..	88,247,037	1,052,090	1,515,255	351,013	833,539	731,729	384,839
21	Average, per acre, on all nonirrigated farms.....dollars..	2.02	3.13	2.86	0.81	1.98	1.16	0.55
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[2]2,743	13	9	5	21	22	26
23	1930...number.....	[2]733	8	1	1	3	5	.....
24	1920...number.....	470	.....	.....	.....	.....	5	.....
25	Average size of enterprise based on irrigable area.....1940...acres.....	399	60	48	254	104	289	33
26	1930...acres.....	1,041	.....	.....	.....	.....	748	.....
27	1920[3]..acres.....	1,631	.....	.....	.....	.....	760	.....
28	Diversion dams.....1940...number.....	351	.....	.....	4	.....	5	9
29	Main canals and laterals.....1940...length, miles.....	3,331.3	24.0	.....	8.0	1.0	13.0	1.1
30	1930...length, miles.....	3,465	.....	.....	.....	.....	30	.....
31	1920...length, miles.....	3,325	.....	.....	.....	.....	25	.....
32	1940...capacity, c.f.s.[4]....	14,256	4	15	17	45	27	19
33	1930...capacity, c.f.s.[4]....	13,108	.....	.....	.....	.....	42	.....
34	1920...capacity, c.f.s.[4]....	11,665	.....	.....	.....	.....	86	.....
35	Pipe lines[5].....1940...length, miles.....	126.1	0.3	.....	.....	8.1	.....	0.1
36	Storage dams.....1940...number.....	156	1	.....	2	.....	1	1
37	Reservoirs.....1940...number.....	164	3	.....	2	.....	2	1
38	1930...number.....	40	.....	.....	.....	.....	1	.....
39	1920...number.....	59	.....	.....	.....	.....	.....	.....
40	1940...capacity, acre-feet..	2,306,159	10	.....	(1)	.....	(1)	(1)
41	1930...capacity, acre-feet..	199,185	.....	.....	.....	.....	1,700	.....
42	1920...capacity, acre-feet..	197,890	.....	.....	.....	.....	.....	.....
43	Wells, flowing.....1940...number.....	19	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	370	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	2,412	13	2	2	6	19	12
50	1930...number.....	537	.....	.....	.....	.....	.....	.....
51	1920...number.....	34	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	2,053,184	8,100	(1)	(1)	4,650	18,300	9,830
53	1930...yield, g.p.m.....	428,058	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	24,701	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	2,664	16	9	2	24	19	17
56	1930...number.....	610	.....	.....	.....	.....	.....	.....
57	1920...number.....	51	.....	.....	.....	.....	.....	.....
58	Prime movers.....1940...capacity, hp.....	53,572	462	184	(1)	550	968	325
59	1930...capacity, hp.....	10,991	.....	.....	.....	.....	.....	.....
60	1920...capacity, hp.....	959	.....	.....	.....	.....	.....	.....
61	Pumps.....1940...capacity, g.p.m.....	2,528,669	11,875	9,200	(1)	23,420	18,400	12,385
62	1930...capacity, g.p.m.....	536,752	.....	.....	.....	.....	.....	.....
63	1920...capacity, g.p.m.....	73,686	.....	.....	.....	.....	.....	.....
64	Pumping lift, from all sources.....1940...average, feet.....	32	42	25	(1)	31	78	29
65	1930...average, feet.....	29	.....	.....	.....	.....	.....	.....
66	1920...average, feet.....	24	.....	.....	.....	.....	.....	.....
67	from pumped wells.....1940...average, feet.....	34	60	(1)	(1)	56	78	39
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	72	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises.....acres....	471,792	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable.....dollars..	308,746	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29.....number...	688	.....	.....	.....	.....	.....	.....

*Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

[2] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Buffalo	Butler	Chase	Cherry	Cheyenne	Clay	Colfax	Cuming	Custer	Dawes	Dawson	Deuel	Dodge	Douglas	Dundy	
15,835,633	21,731,576	7,788,391	20,102,596	13,338,478	11,750,818	14,305,137	23,900,506	22,688,456	8,053,619	22,928,580	6,415,959	25,064,200	19,531,285	6,902,308	1
4,749,068	163,650	473,070	1,308,460	2,616,444	75,400	580,225	224,060	873,971	1,370,204	14,752,217	1,090,920	741,265	357,800	634,837	2
2,420,569	129,050	405,270	1,187,215	1,653,158	(1)	442,680	130,760	607,261	1,066,132	8,495,742	640,755	538,685	147,500	495,001	3
2,328,499	34,600	67,800	121,245	963,286	(1)	137,545	93,300	266,710	304,072	6,256,475	450,165	202,580	210,300	139,836	4
10,324.06	13,637.50	22,527.14	42,208.39	12,169.51	15,080.00	17,582.58	14,003.75	9,931.49	17,566.72	16,956.57	15,151.67	25,560.86	14,908.33	14,763.65	5
50.35	59.64	8.31	5.52	14.58	34.16	64.75	69.07	18.13	11.35	53.81	34.26	101.72	137.77	14.79	6
438	11	19	29	211	5	32	14	88	75	835	72	27	24	43	7
885,999	30,500	65,050	97,051	446,123	17,700	97,900	42,900	198,325	261,450	2,340,471	215,725	174,550	107,300	131,549	8
2,022.83	2,772.73	3,423.68	3,346.59	2,114.33	3,540.00	3,059.38	3,064.29	2,253.69	3,486.00	2,802.96	2,996.18	6,464.81	4,470.83	3,059.28	9
9.39	11.12	1.14	0.41	2.49	8.02	10.93	13.22	4.11	2.17	8.54	6.78	23.95	41.32	3.07	10
1,761	1,801	673	1,127	833	1,463	1,338	1,809	3,245	711	992	381	1,710	1,698	590	11
2,640,335	4,004,055	1,345,275	2,294,586	1,859,153	1,980,895	3,467,336	6,575,910	5,594,951	1,295,980	1,669,996	783,250	5,189,333	5,164,230	1,020,472	12
1,499.34	2,223.24	1,998.92	2,036.01	2,231.88	1,354.00	2,591.43	3,635.11	1,724.18	1,822.76	1,683.46	2,055.77	3,034.70	3,041.36	1,729.61	13
5.30	11.04	2.75	0.69	3.24	5.57	14.17	18.41	3.44	1.77	5.10	3.19	16.23	30.68	1.95	14
439	11	20	30	210	4	32	14	87	72	840	72	26	22	42	15
487,274	17,200	30,250	49,714	265,530	8,750	59,220	15,950	84,310	97,170	1,253,206	110,454	59,120	19,310	51,878	16
1,109.96	1,563.64	1,512.50	1,657.13	1,264.43	2,187.50	1,850.62	1,139.29	969.08	1,349.58	1,491.91	1,534.08	2,273.85	877.73	1,235.19	17
5.17	6.27	0.53	0.21	1.48	3.96	6.61	4.92	1.75	0.80	4.57	3.47	8.11	7.44	1.21	18
1,693	1,728	664	1,057	881	1,436	1,285	1,805	3,150	687	926	403	1,677	1,577	563	19
978,493	1,406,844	810,769	1,060,530	1,182,116	1,072,407	1,165,407	2,029,299	2,061,623	601,851	720,449	672,345	1,732,692	1,092,125	669,139	20
1.96	3.88	1.66	0.32	2.06	3.01	4.76	5.68	1.27	0.82	2.20	2.73	5.42	6.49	1.28	21
464	16	11	21	60	5	30	12	38	39	486	58	30	3	13	22
175	.....	4	1	18	3	2	.....	4	23	55	34	.....	.....	4	23
4	.....	13	.....	36	.....	.....	.....	.....	88	13	21	.....	.....	12	24
99	69	293	116	100	70	88	52	300	545	425	183	50	170	510	25
190	.....	534	.....	150	.....	.....	.....	.....	669	3,160	242	.....	.....	1,368	26
1,605	.....	345	.....	166	.....	.....	.....	.....	276	10,893	626	.....	.....	1,176	27
3	1	12	30	34	.....	.....	.....	4	39	4	11	.....	.....	6	28
31.0	.....	42.0	15.0	21.4	.....	1.0	1.0	69.5	89.0	301.8	13.0	.....	2.3	28.0	29
47	.....	18	.....	27	.....	.....	.....	.....	88	465	32	.....	.....	17	30
16	.....	40	.....	94	.....	.....	.....	.....	231	191	74	.....	.....	62	31
468	7	68	55	65	11	80	25	432	241	1,251	35	15	.....	78	32
600	.....	31	.....	21	.....	.....	.....	.....	111	2,575	33	.....	.....	77	33
160	.....	107	.....	78	.....	.....	.....	.....	282	1,145	296	.....	.....	203	34
.....	0.1	1.2	.....	1.4	0.3	0.3	.....	2.7	18.8	33.5	0.5	2.4	.....	0.3	35
31	.....	1	3	3	.....	.....	.....	.....	8	48	.....	.....	1	3	36
31	.....	1	3	4	.....	.....	.....	.....	9	45	.....	.....	1	1	37
1	.....	.....	.....	.....	.....	.....	.....	.....	1	4	1	.....	.....	.....	38
2	.....	2	.....	4	.....	.....	.....	.....	17	.....	2	.....	.....	.....	39
454	.....	(1)	41	87	.....	.....	.....	.....	14,570	517	.....	.....	(1)	(1)	40
48	.....	.....	.....	.....	.....	.....	.....	.....	12,000	349	1	.....	.....	.....	41
860	.....	152	.....	95	.....	.....	.....	.....	1,302	.....	3	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
587	15	3	.....	40	1	12	2	10	3	483	56	26	10	4	49
205	.....	1	.....	4	.....	.....	.....	.....	.....	33	19	.....	.....	.....	50
1	.....	1	.....	.....	.....	.....	.....	.....	2	8	2	.....	.....	.....	51
477,350	13,200	3,700	.....	30,117	(1)	6,905	(1)	7,300	135	440,550	58,835	24,020	5,600	4,550	52
160,664	.....	2,480	.....	5,300	.....	.....	.....	.....	.....	23,855	15,950	.....	.....	.....	53
450	.....	300	.....	.....	.....	.....	.....	.....	2,200	3,901	2,450	.....	.....	.....	54
537	15	4	1	47	5	33	12	36	6	478	56	31	10	5	55
221	.....	1	.....	6	.....	.....	.....	.....	.....	50	20	.....	.....	.....	56
3	.....	2	.....	.....	.....	.....	.....	.....	3	9	4	.....	.....	.....	57
9,161	295	163	(1)	984	125	611	238	703	66	10,016	956	591	97	140	58
3,484	.....	20	.....	83	.....	.....	.....	.....	.....	847	337	.....	.....	.....	59
18	.....	40	.....	.....	.....	.....	.....	.....	53	97	78	.....	.....	.....	60
483,750	15,805	5,500	(1)	34,817	5,500	34,805	13,100	33,200	2,935	472,285	60,485	29,270	5,609	5,370	61
174,564	.....	2,480	.....	5,300	.....	.....	.....	.....	.....	48,005	24,950	.....	.....	.....	62
836	.....	6,300	.....	.....	.....	.....	.....	.....	4,000	5,430	8,182	.....	.....	.....	63
26	35	48	(1)	63	41	26	20	33	36	35	21	19	42	55	64
30	.....	18	.....	46	.....	.....	.....	.....	.....	18	28	.....	.....	.....	65
23	.....	19	.....	.....	.....	.....	.....	.....	25	36	16	.....	.....	.....	66
27	38	56	.....	63	(1)	32	(1)	51	21	36	21	19	42	65	67
1	.....	1	.....	.....	.....	.....	.....	1	1	7	2	.....	.....	1	68
(1)	.....	(1)	.....	.....	.....	.....	.....	(1)	(1)	51,440	(1)	.....	.....	(1)	69
(1)	.....	(1)	.....	.....	.....	.....	.....	(1)	(1)	23,909	(1)	.....	.....	(1)	70
(1)	.....	(1)	.....	.....	.....	.....	.....	(1)	(1)	45	(1)	.....	.....	(1)	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Fillmore	Franklin	Frontier	Furnas	Gage	Garden	Garfield	Gosper
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	14,754,247	7,075,083	8,710,090	9,124,531	31,436,597	9,320,180	2,796,272	6,113,952
2	Land and buildings, irrigated farms....dollars..	58,036	245,865	224,100	276,300	173,140	1,881,522	586,560	313,921
	Operated by—								
3	(a) Owners and managers....dollars..	(1)	161,200	224,100	170,800	(1)	1,404,114	257,750	263,161
4	(b) Tenants....dollars..	(1)	84,635	.....	105,500	(1)	477,408	328,800	50,760
5	Average, land and buildings, per farm....dollars..	14,509.00	11,175.68	22,410.00	16,252.94	15,740.00	16,081.38	10,290.35	24,147.77
6	per acre in farms....dollars..	76.56	30.20	20.68	33.23	90.74	9.62	31.55	36.75
7	Buildings, irrigated farms reporting value....number...	4	22	10	16	10	115	51	13
8	Total reported....dollars..	27,386	53,652	54,500	46,700	19,600	278,858	114,700	60,291
9	Average, per irrigated farm reporting....dollars..	6,843.50	2,438.73	5,450.00	2,918.75	1,960.00	2,424.85	2,249.02	4,637.77
10	per acre on all irrigated farms....dollars..	36.13	6.59	5.03	5.62	10.27	1.43	6.19	7.06
11	Buildings, nonirrigated farms reporting value....number...	1,671	1,085	1,109	1,236	2,730	523	424	715
12	Total reported....dollars..	2,944,420	1,490,936	1,888,560	2,077,304	6,902,673	1,016,952	564,060	1,171,407
13	Average, per nonirrigated farm reporting....dollars..	1,762.07	1,374.13	1,702.94	1,680.67	2,528.45	1,944.46	1,330.33	1,638.33
14	per acre on all nonirrigated farms....dollars..	8.23	4.37	3.11	4.69	13.02	1.14	1.64	4.37
15	Implements and machinery, irrigated farms reporting value..number...	4	21	10	17	11	113	54	13
16	Total reported....dollars..	8,525	30,272	15,300	23,945	8,250	115,122	52,350	24,818
17	Average, per irrigated farm reporting....dollars..	2,131.25	1,441.52	1,530.00	1,408.53	750.00	1,018.78	969.44	1,909.08
18	per acre, on all irrigated farms....dollars..	11.25	3.72	1.41	2.88	4.32	0.59	2.82	2.91
19	Implements and machinery, nonirrigated farms reporting value....number...	1,677	992	1,048	1,155	2,640	515	396	378
20	Total reported....dollars..	1,250,192	580,184	830,213	881,082	2,246,008	559,572	185,241	514,725
21	Average, per acre, on all nonirrigated farms....dollars..	3.49	1.70	1.37	1.99	4.24	0.63	0.54	1.92
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	3	17	5	25	10	22	4	15
23	1930...number....	1	12	.....	7	2	19	1	1
24	1920...number....	.....	.....	.....	.....	.....	31	.....	.....
25	Average size of enterprise based on irrigable area....1940...acres....	70	89	52	55	48	902	1,231	513
26	1930...acres....	.....	.....	.....	.....	.....	1,480	.....	.....
27	1920[2]..acres....	.....	.....	.....	.....	.....	862	.....	.....
28	Diversion dams....1940...number....	.....	6	.....	.....	1	10	1	1
29	Main canals and laterals....1940...length, miles....	.....	5.0	.....	.....	2.0	71.1	12.1	51.2
30	1930...length, miles....	.....	.....	.....	.....	.....	143	.....	.....
31	1920...length, miles....	.....	.....	.....	.....	.....	165	.....	.....
32	1940...capacity, c.f.s.[3]....	.....	46	13	33	20	275	159	1,537
33	1930...capacity, c.f.s.[3]....	.....	.....	.....	.....	.....	525	.....	.....
34	1920...capacity, c.f.s.[3]....	.....	.....	.....	.....	.....	480	.....	.....
35	Pipe lines[4]....1940...length, miles....	.....	0.3	0.2	.....	1.6	0.1	0.9	2.3
36	Storage dams....1940...number....	.....	1	.....	.....	1	1	.....	.....
37	Reservoirs....1940...number....	.....	1	.....	.....	1	1	.....	.....
38	1930...number....	.....	.....	.....	.....	.....	1	.....	.....
39	1920...number....	.....	.....	.....	.....	.....	2	.....	.....
40	1940...capacity, acre-feet..	.....	(1)	.....	.....	(1)	(1)	.....	.....
41	1930...capacity, acre-feet..	.....	.....	.....	.....	.....	100,000	.....	.....
42	1920...capacity, acre-feet..	.....	.....	.....	.....	.....	100,000	.....	.....
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	3	16	.....	14	1	8	1	14
50	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
51	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m....	1,900	10,690	.....	10,700	(1)	9,010	(1)	14,550
53	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
55	Pumping plants....1940...number....	3	15	5	25	11	8	4	16
56	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
57	1920...number....	.....	.....	.....	.....	.....	3	.....	.....
58	Prime movers....1940...capacity, hp....	100	337	121	522	250	169	111	446
59	1930...capacity, hp....	.....	.....	.....	.....	.....	.....	.....	.....
60	1920...capacity, hp....	.....	.....	.....	.....	.....	64	.....	.....
61	Pumps....1940...capacity, g.p.m....	1,950	15,510	5,310	21,650	8,610	9,010	7,200	16,300
62	1930...capacity, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
63	1920...capacity, g.p.m....	.....	.....	.....	.....	.....	5,500	.....	.....
64	Pumping lift, from all sources....1940...average, feet....	125	42	23	30	43	26	30	41
65	1930...average, feet....	.....	.....	.....	.....	.....	.....	.....	.....
66	1920...average, feet....	.....	.....	.....	.....	.....	9	.....	.....
67	from pumped wells....1940...average, feet....	125	49	.....	42	(1)	26	(1)	43
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]								
68	Enterprises reporting pay roll....number...	.....	.....	.....	.....	.....	9	1	.....
69	Irrigated area in these enterprises....acres....	.....	.....	.....	.....	.....	8,849	(1)	.....
70	Wages and salaries paid and payable....dollars..	.....	.....	.....	.....	.....	3,718	(1)	.....
71	Persons employed during week ending April 29....number...	.....	.....	.....	.....	.....	37	(1)	.....

* Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Greeley	Hall	Hamilton	Harlan	Hayes	Hitchcock	Holt	Howard	Jefferson	Kearney	Keith	Kimball	Lincoln	Loup	Madison	
6,542,161	12,527,993	12,357,039	7,732,667	5,830,195	7,495,284	15,323,098	8,312,642	15,003,755	10,953,798	11,769,663	5,659,851	17,851,517	2,225,320	15,492,115	1
166,555	2,803,931	267,380	325,895	166,250	1,370,615	66,810	188,000	46,200	1,343,885	3,323,795	1,121,635	4,371,452	593,620	331,600	2
83,260	1,603,191	(1)	203,815	117,600	983,295	(1)	89,350	(1)	719,200	2,307,345	760,035	2,504,857	372,020	220,300	3
83,295	1,200,740	(1)	122,080	48,650	387,320	(1)	98,350	(1)	624,685	1,016,450	361,600	1,866,595	221,600	111,300	4
8,327.75	12,034.04	29,708.89	15,518.81	11,875.00	12,022.94	11,135.00	8,173.91	11,550.00	14,146.16	23,407.01	15,364.86	13,660.79	11,872.40	13,816.67	5
27.23	45.38	75.02	30.68	16.25	25.07	12.11	24.94	34.48	36.93	13.71	12.33	32.24	17.48	49.54	6
19	223	9	21	13	113	6	21	4	88	141	71	300	49	23	7
36,790	557,665	73,900	76,550	35,250	227,525	14,800	48,800	10,100	187,020	455,650	206,035	860,722	123,850	106,500	8
1,936.32	2,500.74	8,211.11	3,645.24	2,711.54	2,014.38	2,466.67	2,323.81	2,525.00	2,125.23	3,302.48	2,901.90	2,869.07	2,527.55	4,630.43	9
6.02	9.08	20.74	7.21	3.45	4.16	2.38	6.47	7.54	5.14	1.92	2.26	6.35	3.65	15.91	10
889	1,254	1,557	1,040	517	667	2,262	1,347	1,563	994	543	370	1,577	254	1,804	11
1,482,415	2,358,076	2,655,191	1,674,613	1,098,945	1,137,450	3,747,550	2,735,445	3,588,070	1,840,769	1,431,401	697,960	2,587,165	366,625	4,262,220	12
1,678.76	1,880.44	1,705.32	1,610.20	2,125.62	1,705.32	1,656.74	2,053.04	2,291.32	1,650.67	2,636.10	1,886.38	1,640.56	1,443.41	2,362.65	13
4.40	8.98	7.96	4.95	2.58	2.86	2.64	8.38	10.32	5.80	3.13	1.47	1.97	1.29	12.16	14
17	226	7	19	13	109	6	23	4	89	138	70	298	47	22	15
16,839	261,335	27,920	38,850	18,950	150,220	3,702	16,590	3,000	107,060	252,178	133,706	466,564	58,450	39,465	16
990.53	1,156.35	3,988.57	2,044.74	1,457.69	1,378.17	617.00	721.30	750.00	1,202.92	1,827.38	1,910.09	1,565.65	1,243.62	1,793.86	17
2.75	4.26	7.83	3.66	1.85	2.75	0.67	2.20	2.24	2.94	1.04	1.47	3.44	1.72	5.90	18
812	1,227	1,507	954	518	651	2,143	1,289	1,555	960	537	400	1,525	250	1,676	19
462,050	792,428	1,159,041	808,349	637,473	676,823	1,461,524	777,888	1,358,923	795,323	799,371	598,315	1,198,967	149,244	1,350,951	20
1.36	3.02	3.47	2.39	1.50	1.70	1.03	2.36	3.91	2.81	1.75	1.26	0.91	0.53	3.86	21
5	257	6	19	11	15	3	16	5	42	82	40	157	5	16	22
1	92	1	13	1	7	3	1	1	19	28	18	21	1	1	23
.....	.....	.....	.....	.....	3	.....	.....	.....	.....	35	16	10	.....	.....	24
281	69	260	77	93	775	16	52	33	958	275	230	329	1,327	49	25
.....	109	.....	.....	.....	1,787	.....	.....	.....	76	986	545	2,024	.....	.....	26
.....	.....	.....	.....	.....	3,525	.....	.....	.....	.....	971	702	4,542	.....	.....	27
.....	.....	.....	1	1	2	.....	1	.....	.....	12	16	9	2	.....	28
9.0	0.2	.....	3.2	8.0	42.0	.....	3.0	1.0	100.4	91.2	43.1	199.1	35.1	.....	29
.....	.....	.....	.....	.....	43	.....	.....	.....	.....	89	62	204	.....	.....	30
.....	.....	.....	.....	.....	33	.....	.....	.....	.....	151	75	210	.....	.....	31
11	2	.....	20	28	156	2	40	8	.....	2,595	114	1,775	271	25	32
.....	.....	.....	.....	.....	168	.....	.....	.....	.....	530	156	1,142	.....	.....	33
.....	.....	.....	.....	.....	160	.....	.....	.....	.....	722	174	710	.....	.....	34
0.1	.....	0.5	0.8	0.1	1.6	.....	1.3	0.5	0.1	1.4	1.7	0.8	1.4	1.5	35
.....	.....	2	.....	.....	.....	.....	.....	2	.....	2	2	2	.....	.....	36
.....	.....	2	.....	.....	.....	.....	.....	2	.....	4	2	5	.....	.....	37
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	2	5	1	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	7	1	.....	.....	39
.....	.....	(1)	.....	.....	.....	.....	.....	(1)	.....	2,000,008	(1)	197,008	.....	.....	40
.....	8	.....	.....	.....	.....	.....	.....	.....	.....	7	6,706	1	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	7,058	4	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	312	8	11	3	12	2	5	.....	50	85	35	174	1	9	49
.....	126	.....	.....	.....	2	.....	.....	.....	30	12	.....	19	.....	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	51
.....	262,740	9,905	7,855	3,250	12,460	(1)	4,185	.....	37,730	76,070	28,972	144,408	(1)	3,475	52
.....	109,839	.....	.....	.....	2,000	.....	.....	.....	25,000	10,150	.....	8,050	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....	.....	.....	.....	54
3	301	10	21	12	14	2	19	5	43	87	34	160	3	16	55
.....	124	.....	.....	.....	3	.....	.....	.....	30	10	.....	16	.....	.....	56
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	2	.....	1	.....	.....	57
65	6,161	606	475	312	486	(1)	368	155	1,017	1,746	1,024	2,901	92	389	58
.....	2,860	.....	.....	.....	65	.....	.....	.....	560	155	.....	276	.....	.....	59
.....	.....	.....	.....	.....	25	.....	.....	.....	.....	35	.....	10	.....	.....	60
3,590	276,630	10,805	18,375	16,600	16,810	(1)	19,435	5,650	45,490	79,570	28,272	156,698	4,000	14,350	61
.....	109,529	.....	.....	.....	3,400	.....	.....	.....	25,000	10,150	.....	8,940	.....	.....	62
.....	.....	.....	.....	.....	2,500	.....	.....	.....	.....	2,400	.....	600	.....	.....	63
29	33	77	32	35	51	(1)	33	17	33	38	64	27	44	25	64
.....	36	.....	.....	.....	38	.....	.....	.....	29	21	.....	29	.....	.....	65
.....	.....	.....	.....	.....	10	.....	.....	.....	.....	13	.....	35	.....	.....	66
.....	33	77	36	50	56	(1)	41	.....	33	38	64	28	(1)	37	67
1	.....	.....	.....	.....	2	.....	.....	.....	1	3	1	6	1	.....	68
(1)	.....	.....	.....	.....	(1)	.....	.....	.....	(1)	11,373	(1)	35,713	(1)	.....	69
(1)	.....	.....	.....	.....	(1)	.....	.....	.....	(1)	3,096	(1)	12,773	(1)	.....	70
(1)	.....	.....	.....	.....	(1)	.....	.....	.....	(1)	2	(1)	64	(1)	.....	71

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk	Red Willow
	FARM VALUES, 1940[6]									
1	Land and buildings, all farms....dollars..	11,362,177	9,107,910	8,097,524	9,938,123	9,705,440	13,067,534	20,119,434	13,253,753	7,938,200
2	Land and buildings, irrigated farms....dollars..	982,014	4,958,759	334,715	62,360	47,480	1,546,805	588,106	86,125	1,139,265
	Operated by—									
3	(a) Owners and managers....dollars..	541,040	2,401,064	240,295	(2)	36,800	845,685	260,606	(2)	734,115
4	(b) Tenants....dollars..	440,974	2,557,695	94,420	(2)	10,680	701,120	327,500	(2)	405,150
5	Average, land and buildings, per farm....dollars..	11,831.49	8,404.68	23,908.21	10,393.33	15,826.67	15,468.05	12,784.91	17,225.00	13,726.08
6	per acre in farms....dollars..	49.67	20.39	33.01	50.62	13.96	47.92	58.32	59.60	37.87
7	Buildings, irrigated farms reporting value....number...	83	583	14	6	3	97	45	5	80
8	Total reported....dollars..	315,500	1,002,050	72,465	13,600	10,500	282,990	130,740	21,980	211,300
9	Average, per irrigated farm reporting....dollars..	3,801.20	1,718.78	5,176.07	2,266.67	3,500.00	2,917.42	2,905.33	4,396.00	2,678.75
10	per acre on all irrigated farms....dollars..	15.96	4.12	7.15	11.04	3.09	8.77	12.97	15.21	7.12
11	Buildings, nonirrigated farms reporting value....number...	1,132	396	932	1,327	787	999	1,971	1,344	907
12	Total reported....dollars..	2,605,825	660,410	1,645,355	2,006,170	1,534,921	2,114,265	5,302,695	3,059,868	1,473,600
13	Average, per nonirrigated farm reporting....dollars..	2,301.97	1,667.70	1,765.40	1,511.81	1,950.34	2,116.38	2,690.36	2,276.69	1,624.70
14	per acre on all nonirrigated farms....dollars..	9.91	1.23	6.27	5.80	2.92	7.17	12.88	11.38	3.65
15	Implements and machinery, irrigated farms reporting value..number...	81	570	13	6	3	98	45	5	80
16	Total reported....dollars..	116,447	705,614	20,611	7,950	11,200	111,635	40,015	10,350	85,725
17	Average, per irrigated farm reporting....dollars..	1,437.62	1,237.92	1,585.46	1,325.00	3,733.33	1,139.13	889.22	2,070.00	1,071.56
18	per acre, on all irrigated farms....dollars..	5.89	2.90	2.03	6.45	3.29	3.46	3.97	7.16	2.85
19	Implements and machinery, nonirrigated farms reporting value....number...	1,103	393	879	1,301	811	962	1,930	1,321	868
20	Total reported....dollars..	815,605	362,525	575,777	863,247	1,209,867	908,586	1,550,918	1,167,321	693,702
21	Average, per acre, on all nonirrigated farms....dollars..	3.10	0.67	2.20	2.49	2.30	3.08	3.77	4.34	1.72
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
22	Enterprises....1940...number....	62	48	3	7	3	51	18	6	53
23	1930...number....	16	24	.....	4	.....	8	4	1	12
24	1920...number....	.....	48	.....	.....	.....	.....	.....	.....	9
25	Average size of enterprise based on irrigable area....1940...acres....	68	2,206	85	73	167	2,382	51	60	113
26	1930...acres....	81	4,686	.....	.....	.....	.....	.....	.....	356
27	1920[3]..acres....	.....	2,096	.....	.....	.....	.....	.....	.....	548
28	Diversion dams....1940...number....	.....	32	.....	.....	.....	.....	1	2	1
29	Main canals and laterals....1940...length, miles....	.....	454.5	.....	.....	.....	152.1	.....	.....	16.0
30	1930...length, miles....	.....	666	.....	.....	.....	.....	.....	.....	19
31	1920...length, miles....	.....	568	.....	.....	.....	.....	.....	.....	29
32	1940...capacity, c.f.s.[4]....	4	907	12	13	.....	3	10	8	78
33	1930...capacity, c.f.s.[4]....	.....	2,008	.....	.....	.....	.....	.....	.....	92
34	1920...capacity, c.f.s.[4]....	.....	1,386	.....	.....	.....	.....	.....	.....	66
35	Pipe lines[5]....1940...length, miles....	0.1	2.1	0.5	.....	.....	0.2	.....	0.1	0.3
36	Storage dams....1940...number....	.....	3	.....	4	.....	.....	.....	.....	.....
37	Reservoirs....1940...number....	2	3	.....	4	.....	.....	.....	.....	.....
38	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39	1920...number....	.....	2	.....	.....	.....	.....	.....	.....	1
40	1940...capacity, acre-feet..	(2)	238	.....	264	.....	.....	.....	.....	.....
41	1930...capacity, acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	1920...capacity, acre-feet..	.....	4	.....	.....	.....	.....	.....	.....	10
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	77	13	.....	2	3	61	15	3	49
50	1930...number....	20	.....	.....	.....	.....	.....	.....	.....	14
51	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....	11
52	1940...yield, g.p.m....	69,145	13,750	.....	(2)	3,900	54,814	8,905	2,250	34,330
53	1930...yield, g.p.m....	23,530	.....	.....	.....	.....	.....	.....	.....	11,030
54	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....	4,700
55	Pumping plants....1940...number....	71	16	4	7	3	54	19	7	56
56	1930...number....	17	.....	.....	.....	.....	.....	.....	.....	11
57	1920...number....	.....	.....	.....	.....	.....	.....	.....	.....	7
58	Prime movers....1940...capacity, hp....	1,320	416	92	107	142	838	264	138	1,125
59	1930...capacity, hp....	289	.....	.....	.....	.....	.....	.....	.....	263
60	1920...capacity, hp....	.....	.....	.....	.....	.....	.....	.....	.....	312
61	Pumps....1940...capacity, g.p.m....	71,025	17,350	4,900	6,230	3,900	57,294	12,475	5,100	52,580
62	1930...capacity, g.p.m....	23,330	.....	.....	.....	.....	.....	.....	.....	14,550
63	1920...capacity, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....	18,403
64	Pumping lift, from all sources....1940...average, feet....	24	38	13	18	72	29	30	60	30
65	1930...average, feet....	16	.....	.....	.....	.....	.....	.....	.....	33
66	1920...average, feet....	.....	.....	.....	.....	.....	.....	.....	.....	28
67	from pumped wells....1940...average, feet....	24	44	.....	(2)	72	30	36	96	34
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]									
68	Enterprises reporting pay roll....number...	.....	13	.....	.....	.....	1	.....	.....	1
69	Irrigated area in these enterprises....acres....	.....	75,442	.....	.....	.....	(2)	.....	.....	(2)
70	Wages and salaries paid and payable....dollars..	.....	50,168	.....	.....	.....	(2)	.....	.....	(2)
71	Persons employed during week ending April 29....number...	.....	156	.....	.....	.....	(2)	.....	.....	(2)

[6] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Rock	Saline	Saunders	Scotts Bluff	Seward	Sheridan	Sherman	Sioux	Stanton	Thayer	Valley	Webster	York	All other counties[1]	
4,511,720	22,460,700	32,982,329	22,212,331	21,292,156	15,818,178	6,151,058	8,114,079	12,104,603	13,197,493	8,194,248	6,827,317	17,181,787	306,662,057	1
285,580	217,870	234,905	21,048,141	278,440	1,699,210	503,280	3,244,817	245,080	65,140	2,111,145	123,750	233,150	913,395	2
272,520	177,030	158,945	9,671,465	183,320	(2)	252,020	2,033,073	170,780	41,800	973,785	87,425	192,900	647,895	3
13,060	40,840	75,930	11,376,876	95,120	(2)	251,260	1,211,744	74,300	23,340	1,137,360	36,325	40,250	265,500	4
14,279.00	15,562.14	19,575.42	12,244.41	10,709.23	42,480.25	7,189.71	12,432.25	17,505.71	9,305.71	10,662.35	8,839.29	16,653.57	14,973.59	5
6.47	68.51	98.87	61.36	73.78	8.06	25.32	12.46	64.70	50.38	39.62	30.16	53.33	25.40	6
20	13	12	1,669	26	40	70	259	13	7	188	13	14	59	7
53,750	57,500	68,855	4,203,387	48,700	148,650	140,550	591,335	45,135	17,300	464,950	37,900	42,800	180,145	8
2,687.50	4,423.08	5,737.92	2,518.51	1,873.08	3,716.25	2,007.86	2,283.15	3,471.92	2,471.43	2,473.14	2,915.38	3,057.14	3,053.31	9
1.22	18.08	28.98	12.25	12.90	0.70	7.07	2.27	11.92	13.38	8.73	9.24	9.79	5.01	10
545	1,973	2,548	162	1,960	1,137	1,078	414	1,172	1,579	959	1,187	1,781	30,249	11
807,135	5,398,942	7,782,130	264,190	4,211,679	2,688,410	1,770,085	642,390	3,497,960	3,086,390	1,714,392	1,584,480	3,915,021	74,825,622	12
1,480.98	2,736.41	3,054.21	1,630.80	2,148.82	2,364.48	1,642.01	1,551.67	2,984.61	1,954.65	1,787.69	1,334.86	2,198.22	2,473.66	13
1.30	15.26	16.89	2.11	11.84	1.87	5.51	0.73	13.38	8.73	5.78	4.57	10.98	7.54	14
19	14	11	1,594	25	40	68	255	14	7	195	13	14	59	15
23,950	14,210	17,061	2,777,228	22,400	75,395	37,121	350,059	19,525	6,950	188,100	13,100	20,380	79,657	16
1,260.53	1,015.00	1,551.00	1,742.30	896.00	1,884.88	545.90	1,372.78	1,394.64	992.86	964.62	1,007.69	1,455.71	1,350.12	17
0.54	4.47	7.18	8.10	5.94	0.36	1.87	1.34	5.15	5.38	3.53	3.19	4.66	2.22	18
542	1,934	2,461	132	1,893	1,117	1,035	408	1,137	1,521	923	1,139	1,744	29,524	19
352,997	1,717,521	2,107,570	92,648	1,346,686	1,139,600	484,954	341,855	947,841	1,141,812	532,576	673,384	1,494,732	25,526,269	20
0.57	4.86	4.57	0.74	3.78	0.79	1.51	0.39	3.63	3.23	1.79	1.94	4.19	2.57	21
13	13	12	124	26	10	5	52	7	5	14	13	15	21	22
1	1	.....	26	.....	.....	2	34	.....	.....	1	1	2	4	23
.....	.....	.....	28	.....	.....	.....	54	.....	.....	.....	.....	.....	44	24
26	40	29	1,792	43	118	3,009	834	111	44	1,830	37	61	213	25
.....	.....	.....	8,584	.....	.....	.....	1,088	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	8,987	.....	.....	.....	876	.....	.....	.....	.....	.....	466	27
11	4	.....	17	.....	.....	.....	51	.....	.....	2	1	1	3	28
1.0	.....	.....	898.0	.....	1.0	64.0	317.4	1.0	.....	80.4	.....	1.1	6.0	29
.....	.....	.....	1,230	.....	.....	.....	268	.....	.....	.....	.....	.....	14	30
.....	.....	.....	1,039	.....	.....	.....	232	.....	.....	.....	.....	.....	90	31
15	39	14	2,614	26	9	4	147	11	12	149	9	19	65	32
.....	.....	.....	4,201	.....	.....	.....	776	.....	.....	.....	.....	.....	20	33
.....	.....	.....	4,754	.....	.....	.....	558	.....	.....	.....	.....	.....	298	34
1.6	0.1	0.5	15.1	.....	0.8	3.3	1.3	.....	2.9	5.7	0.9	0.2	3.2	35
.....	.....	.....	8	.....	1	.....	23	.....	.....	.....	1	.....	.....	36
.....	.....	.....	8	.....	1	.....	24	.....	.....	.....	1	.....	.....	37
.....	.....	.....	5	.....	.....	.....	8	.....	.....	.....	.....	.....	7	38
.....	.....	.....	4	.....	.....	.....	8	.....	.....	.....	.....	.....	6	39
.....	.....	.....	75,171	.....	(2)	.....	1,172	.....	.....	.....	(2)	.....	.....	40
.....	.....	.....	77,950	.....	.....	.....	339	.....	.....	.....	.....	.....	76	41
.....	.....	.....	75,165	.....	.....	.....	132	.....	.....	.....	.....	.....	13,100	42
.....	.....	.....	.....	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	370	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
2	.....	8	64	.....	6	.....	7	4	.....	7	8	8	5	49
.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	43	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	51
(2)	.....	1,670	69,620	.....	4,323	.....	7,870	4,600	.....	4,200	4,985	4,430	1,510	52
.....	.....	.....	950	.....	.....	.....	.....	.....	.....	.....	.....	.....	29,260	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9,200	54
4	13	14	102	13	11	4	10	8	5	12	11	16	24	55
.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	97	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	57
97	251	110	2,165	192	217	32	217	242	125	239	179	215	284	58
.....	.....	.....	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,736	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	227	60
2,760	12,500	4,030	111,623	13,100	10,123	1,360	11,050	11,200	5,000	14,640	8,200	11,470	17,203	61
.....	.....	.....	950	.....	.....	.....	.....	.....	.....	.....	.....	.....	85,604	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19,535	63
21	23	20	24	26	33	11	48	34	17	53	39	30	37	64
.....	.....	.....	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	26	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
(2)	.....	23	28	11	49	.....	57	50	.....	78	45	49	40	67
.....	.....	.....	14	.....	.....	1	[7]1	.....	.....	2	.....	.....	.....	68
.....	.....	.....	198,937	.....	.....	(2)	26,488	.....	.....	(2)	.....	.....	.....	69
.....	.....	.....	123,141	.....	.....	(2)	21,318	.....	.....	(2)	.....	.....	.....	70
.....	.....	.....	242	.....	.....	(2)	56	.....	.....	(2)	.....	.....	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[4] 70,273,280	70,285,440	70,285,440	70,285,440	70,285,440	70,285,440	70,285,440
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	3,573	3,696	3,442	3,163	2,689	2,184	1,277
Land in all farms.....acres....	3,785,106	3,621,769	4,080,906	2,357,163	2,714,757	2,565,647	1,661,416
Farms irrigated:[1]							
Farms.....number...	3,264	2,927	3,031	2,718	2,406	1,906	1,167
Increase or decrease (-) over preceding census....percent..	[2] 7.7	.....	11.5	13.0	26.2	63.3	.....
Proportion of all farms.....percent..	91.4	79.2	88.0	85.9	89.5	87.3	91.4
Land in farms.....acres....	3,624,536	[3]	3,102,085	[3]	[3]	[3]	[3]
Proportion of all farm land.....percent..	95.8	[3]	76.0	[3]	[3]	[3]	[3]
Area irrigated.....acres....	[4] 755,636	[5] 253,286	[6] 390,192	[7]	[7]	504,168	224,403
Increase or decrease (-) over preceding census....percent..	[2] 93.7	.....	.....	.....	.....	124.7	.....
Proportion of total land area of State.....percent..	1.1	0.4	0.6	.....	.....	0.7	0.3
Proportion of all farm land.....percent..	20.0	7.0	9.6	.....	.....	19.7	13.5
Value of irrigated farms (land and buildings).....dollars..	46,392,883	[3]	59,956,787	[3]	[3]	[3]	[3]
Average per farm.....dollars..	14,213.51	[3]	19,781.19	[3]	[3]	[3]	[3]
Average per acre.....dollars..	12.80	[3]	19.33	[3]	[3]	[3]	[3]
Value of farm implements and machinery[8].....dollars..	3,612,624	[3]	4,041,264	[3]	[3]	[3]	[3]
Average per farm[8].....dollars..	1,106.81	[3]	1,333.31	[3]	[3]	[3]	[3]
Average per acre[8].....dollars..	1.00	[3]	1.30	[3]	[3]	[3]	[3]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	1,464	[3]	1,245	1,015	1,347	[3]	[3]
Farms irrigated.....number...	4,291	[3]	[3]	[3]	[3]	[3]	[3]
Area irrigated.....acres....	739,863	[3]	486,648	561,447	701,833	[3]	[3]
Area existing works were capable of supplying with water.....acres....	841,304	[3]	736,249	704,708	840,962	[3]	[3]
Area irrigable.....acres....	915,689	[3]	983,717	[9] 1,382,036	[9] 1,232,142	[3]	[3]
Additional area existing works were capable of supplying with water.....acres....	101,441	[3]	249,601	143,261	139,129	[3]	[3]
Additional irrigable area in enterprises not supplied with water.....acres....	175,826	[3]	497,069	[9] 820,589	[9] 530,309	[3]	[3]
Investment in irrigation enterprises.....dollars..	16,906,790	[3]	15,457,931	14,754,280	6,721,924	1,537,559	1,700,975
Increase or decrease (-) over preceding census.....percent..	[2] 9.4	[3]	4.8	119.5	337.2	-9.6	.....
Average per acre based on area works were capable of supplying with water.....dollars..	20.10	[3]	21.00	20.94	7.99	[3]	[3]
Increase or decrease (-) over preceding census....percent..	[2] -4.3	[3]	0.3	162.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	18,129,554	[3]	18,489,603	22,648,747	12,188,756	[3]	[3]
Average per acre based on irrigable area in enterprises.....dollars..	19.80	[3]	18.80	[9] 16.39	[9] 9.89	[3]	[3]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	0.48	[3]	0.91	0.79	0.97	[3]	[3]

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 324,893 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [10] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	3,573	3,785,106	435,855	430,743	324,893	47,594,384	12.57	9,340,357	2.47	3,721,263	0.98
Owners and managers.....	3,057	3,553,026	401,828	396,835	304,272	43,109,839	12.13	8,560,012	2.41	3,368,075	0.95
Tenants.....	516	232,080	34,027	33,908	20,621	4,484,545	19.32	780,345	3.36	353,188	1.52
Irrigated farms, total.....	3,264	3,624,536	435,154	430,743	324,893	46,392,883	12.80	8,971,907	2.48	3,612,624	1.00
Owners and managers.....	2,811	3,426,873	401,176	396,835	304,272	42,128,655	12.29	8,225,577	2.40	3,274,427	0.96
Tenants.....	453	197,663	33,978	33,908	20,621	4,264,228	21.57	746,330	3.78	338,197	1.71
Wholly irrigated farms.....	2,955	2,984,198	414,172	414,172	303,687	42,821,754	14.35	8,135,432	2.73	3,417,344	1.15
Owners and managers.....	2,533	2,790,185	380,350	380,350	285,003	38,733,951	13.88	7,422,302	2.66	3,090,917	1.11
Tenants.....	422	194,013	33,822	33,822	18,684	4,087,803	21.07	713,130	3.68	326,427	1.68
Partly irrigated farms.....	309	640,338	20,982	16,571	21,206	3,571,129	5.58	836,475	1.31	195,280	0.30
Owners and managers.....	278	636,688	20,826	16,485	19,269	3,394,704	5.33	803,275	1.26	183,510	0.29
Tenants.....	31	3,650	156	86	1,937	176,425	48.34	33,200	9.10	11,770	3.22
Nonirrigated farms, total.....	309	160,570	701	.....	.....	1,201,501	7.48	368,450	2.29	108,639	0.68

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939.					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	Acres	Acres	Acres	Acres	Acres	Percent	Acres	Acres	Acres	Acre-feet	Dollars	Dollars
Total	1,464	915,689	841,304	739,863	486,648	561,447	52.0	627,502	678,791	569,881	3.4	0.88	0.26
Primary sources:													
Streams, gravity	746	726,400	663,018	578,163	394,415	466,812	46.6	491,238	541,443	457,080	3.1	0.81	0.26
Streams, pumped	11	855	805	652	821	2,647	-20.6	595	630	573	2.6	1.98	0.77
Streams, gravity and pumped	6	2,950	2,895	2,780	.....	720	.....	1,380	2,780	1,380	1.2	0.36	0.30
Wells, pumped	74	2,415	1,493	568	2,117	295	-73.2	556	511	507	1.8	7.93	4.44
Wells, flowing	100	3,323	3,062	2,604	1,132	811	130.0	1,511	2,244	1,170	6.8	0.43	0.06
Wells, pumped and flowing	9	360	360	237	177	65	33.9	188	181	132	3.6	2.06	0.57
Lakes, gravity	2	(2)	(2)	(2)	.....	445	.....	(2)	(2)	(2)	(2)	(2)	(2)
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	233	59,728	58,462	54,945	61,987	21,987	-11.4	49,562	34,889	29,826	1.7	0.58	0.33
Springs and streams	181	79,402	72,355	63,415	.....	.....	.....	49,899	61,338	47,822	3.0	0.53	0.18
Stored storm water	1	(2)	(2)	(2)	20	17,348	.....	.....	(2)	.....	.....	.....	.....
City water	.....	.....	.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....
Sewage	1	(2)	(2)	(2)	.....	88	.....	.....	(2)	.....	.....	.....	.....
Streams, gravity; wells, pumped	27	10,349	10,234	9,837	2,260	4,957	335.3	8,197	9,177	7,537	2.0	0.61	0.30
Streams, gravity; wells, flowing	9	2,621	2,532	2,502	2,274	82	10.0	2,480	2,431	2,409	2.2	0.60	0.27
Streams, pumped; wells, pumped	3	1,145	1,106	1,105	.....	.....	.....	705	705	705	3.0	1.16	0.39
Waste water, seepage or drainage	5	423	162	157	.....	.....	.....	131	32	6	3.3	2.33	0.70
Other mixed	45	25,563	24,665	22,781	21,152	45,176	7.7	20,978	22,313	20,652	3.8	0.26	0.07
Other and not reported	.....	.....	.....	.....	293	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	7	143,453	123,240	84,204	.....	.....	.....	84,104	84,204	84,104	3.5	1.04	0.30
Streams, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	4	905	605	518	.....	.....	.....	518	518	518	1.8	1.96	1.07
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered.
[2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	Percent	Dollars	Dollars	Percent	Dollars	Dollars	Acres	Dollars	Acres	Dollars	Dollars	Acres	Dollars
Total	16,906,790	100.0	20.10	15,457,931	100.0	21.00	-0.90	388,722	0.48	474,422	0.91	-0.43	460,317	0.79
Primary sources:														
Streams, gravity	11,357,470	67.3	17.13	13,710,031	88.7	22.73	-5.60	551,351	0.41	386,499	0.85	-0.44	384,358	0.65
Streams, pumped	10,635	0.1	13.21	45,000	0.3	43.86	-30.65	630	1.88	821	7.01	-5.13	897	1.76
Streams, gravity and pumped	27,103	0.2	9.36	.....	.....	.....	.....	2,780	0.25	.....	.....	.....	720	0.76
Wells, pumped	56,249	0.3	37.68	142,761	0.9	20.19	17.49	534	8.21	2,075	4.82	3.39	236	12.10
Wells, flowing	134,168	0.8	43.82	147,612	0.9	99.00	-55.18	2,244	0.35	942	4.08	-3.73	157	6.56
Wells, pumped and flowing	22,927	0.1	63.69	10,760	0.1	56.93	6.76	181	1.67	177	5.26	-3.59	65	61.77
Lakes, gravity	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	130	19.63
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	361,127	2.1	6.18	614,206	4.0	8.93	-2.75	34,889	0.55	59,664	0.77	-0.22	17,840	1.74
Springs and streams	1,071,769	6.3	14.81	.....	.....	.....	.....	61,338	0.47	.....	.....	.....	.....	.....
Stored storm water	(3)	(3)	(3)	2,100	(4)	105.00	(3)	(3)	(3)	20	2.50	(3)	15,548	0.37
City water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	30	0.44
Streams, gravity; wells, pumped	98,398	0.6	9.61	119,903	0.8	7.03	2.58	9,177	0.55	1,940	2.29	-17.4	1,246	1.57
Streams, gravity; wells, flowing	22,035	0.1	8.70	45,975	0.3	9.32	-0.62	2,431	0.59	2,104	0.77	-0.18	82	1.46
Streams, pumped; wells, pumped	21,100	0.1	19.08	.....	.....	.....	.....	705	1.16	.....	.....	.....	.....	.....
Waste water, seepage or drainage	747	(4)	4.61	.....	.....	.....	.....	32	2.09	.....	.....	.....	.....	.....
Other mixed	207,591	1.2	8.42	618,477	4.0	19.19	-10.77	22,313	0.25	19,887	1.36	-1.11	38,958	1.54
Other and not reported	.....	.....	.....	1,106	(4)	3.69	.....	.....	.....	293	3.34	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	3,441,466	20.4	27.92	.....	.....	.....	.....	84,204	0.45	.....	.....	.....	.....	.....
Streams, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	71,885	0.4	118.82	.....	.....	.....	.....	518	1.96	.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation.
[2] Based on area works were capable of supplying with water.
[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Less than one-tenth of 1 percent.
[5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

CENSUS OF IRRIGATION — NEVADA

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	739,863	84,722	486,648	561,447	52.0
Individual and partnership	438,996	7,848	316,918	355,901	38.5
Cooperative, incorporated	[2] 137,066		32,267	69,877	[2] 588.33
Cooperative, unincorporated	85,039				
Irrigation district	2,940	65,000		80,000	
Commercial	([2])		5,855	5,990	([2])
Bureau of Reclamation[3] [5]	57,471	11,874	54,040	41,324	6.3
Office of Indian Affairs[3]	17,607		6,148	5,321	186.4
State	[4] 744		220	12	
City and/or sewage				22	
Other	([4])		71,200		
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	841,304	123,845	736,249	704,708	14.3
Individual and partnership	489,808	8,735	502,308	453,900	-2.5
Cooperative, incorporated	[2] 158,764		56,891	85,483	[2] 348.7
Cooperative, unincorporated	96,517				
Irrigation district	3,820	73,900		80,000	

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	([2])		5,855	7,240	([2])
Bureau of Reclamation[3] [5]	66,788	41,210	90,000	69,850	-25.8
Office of Indian Affairs[3]	24,863		9,665	8,195	157.2
State	[4] 744		330	12	
City and/or sewage				28	
Other	([4])		71,200		
IRRIGABLE AREA[5]					
Total	915,689	144,358	983,717	1,382,036	-6.9
Individual and partnership	510,352	11,110	587,571	807,045	-13.1
Cooperative, incorporated	[2] 159,364		64,596	93,253	[2] 296.1
Cooperative, unincorporated	96,517				
Irrigation district	3,820	73,900		260,000	
Commercial	([2])		5,855	14,240	([2])
Bureau of Reclamation[3] [5]	87,500	59,348	137,500	192,000	-36.4
Office of Indian Affairs[3]	57,392		25,855	15,390	122.0
State	[4] 744		340	80	
City and/or sewage				28	
Other	([4])		162,000		

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] Data for 2 "Other" enterprises are included with "State" enterprises in the 1940 Census. [5] For 1920 relates to total area. Irrigable area for that year was not reported. [6] For explanation of areas, see text, p. 389.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	1,464	91	915,689	841,304	15.30	0.43	23.89	0.46
Individual and partnership	1,362	9	510,352	489,808	4.31	0.34	35.27	1.35
Cooperative, incorporated	39	32	[4] 159,364	[4] 158,764	[4] 13.00	[4] 0.42		
Cooperative, unincorporated	38	32	96,517	96,517	8.46	0.32		
Irrigation district	[5] 2	2	3,820	3,820	22.05	1.09	10.82	0.31
Commercial	2	2	([4])	([4])	([4])	([4])		
U. S. Bureau of Reclamation[6]	3	3	87,500	66,788	98.38	0.99	44.92	0.68
U. S. Office of Indian Affairs	14	11	57,392	24,853	48.53	1.40		
State	2		[6] 744	[6] 744	[6] 23.13	[6] 2.87		
City and/or sewage								
Other	2		([6])	([6])	([6])	([6])		

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Acres*	*Acres*	*Acres*	*Acres*
Total	4,291	739,863	459,863	5,298	274,702
Individual and partnership	1,518	438,996	256,562	3,331	179,103
Cooperative, incorporated	[4] 972	[4] 137,066	[4] 76,324	150	60,592
Cooperative, unincorporated	420	85,039	61,881	100	23,058
Irrigation district	24	2,940	2,100		840
Commercial	([4])	([4])	([4])		
U. S. Bureau of Reclamation[6]	729	57,471	47,954	1,717	7,800
U. S. Office of Indian Affairs	623	17,607	14,518		3,089
State	[6] 5	[6] 744	[6] 524		[6] 220
City and/or sewage					
Other	([6])	([6])	([6])		([6])

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprises involved. [6] Data for 2 "Other" enterprises are included with "State" enterprises in the 1940 Census. [7] For explanation of areas and investment, see text, p. 389.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	16,906,790	13,393,439	3,513,351	15,827,567	1,079,223	15,457,931	14,754,280	9.4	15.92	28.37	349,560	1,222,761
Individual and partnership	2,350,895	2,278,510	440,885	2,175,332	175,563	4,530,708	4,014,570	-48.1	4.65	50.47		168,673
Cooperative, incorporated	[2] 2,776,276	[2] 2,407,776		[2] 2,306,826	[2] 469,450	936,400	1,019,047	[2] 209.9	[2] 15.17		4,708	
Cooperative, unincorporated	828,733	828,733		816,233	12,500				8.59		810	
Irrigation district	888,934	84,217	804,717	883,934	5,000		1,246,611		22.05	10.89	816	
Commercial	([2])	([2])		([2])	([2])	227,000	340,559	([2])	([2])			
U. S. Bureau of Reclamation[3]	8,838,237	6,570,488	2,267,749	8,421,527	416,710	[3] 7,767,759	7,953,537	13.8	98.38	55.03	109,074	212,816
U. S. Office of Indian Affairs	1,206,505	1,206,505		1,206,505		360,214	178,536	234.9	48.53		234,152	841,275
State	[4] 17,210	[4] 17,210		[4] 17,210		11,000	1,000		[4] 23.13			
City and/or sewage							420					
Other	([4])	([4])		([4])		[5] 1,624,850			([4])			

[1] Only for enterprises serving 5 or more farms. [2] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [3] Part of investment reported in California. [4] Data for 2 "Other" enterprises are included with "State" enterprises in the 1940 Census. [5] Includes 1 "Irrigation district" and 1 Carey Act enterprise. [6] For explanation of investment, see text, p. 389.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 13	*Acres* 247,142	*Acres* 205,692	*Dollars* 3,934,315	*Dollars* 14.79	*Dollars* 14.12	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres* 320,187	*Dollars* 391,703	*Dollars* 207,292
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12,645	2,712	494
Cooperative, incorporated	6	[5] 22,574	[5] 19,974	[5] 32,997	[5] 2.47	[5] 2.22	.....	.....	.....	.....	[5] 75,438	[5] 72,432	[5] 65,102
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57,331	17,350	9,641
Irrigation district	[6] 2	77,720	77,720	493,000	5.17	5.89	.....	.....	.....	.....	84,524	61,738	57,845
Commercial	2	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	(5)	(5)	(5)
Bureau of Reclamation[7, *]	3	146,848	107,998	[8] 3,408,318	17.87	17.08	.....	.....	.....	.....	75,704	225,123	74,125
Office of Indian Affairs[7]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14,545	12,348	85
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $16.73. [4] Based on primary enterprises only; State average for supplemental enterprises is $22.63. [5] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [6] Data for less than 3 enterprises shown with permission of the enterprises involved. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [*] For explanation of areas and investment, see text, p. 389.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises: Irrigated area reporting 1939	Primary enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 688,722	*Dollars* 293,859	*Acres* 84,722	*Dollars* 38,705	*Dollars* 0.43	*Dollars* 0.46	*Number* 65	*Dollars* 160,642	*Number* 275
Individual and partnership	417,568	140,632	7,848	10,632	0.34	1.35	4	876	11
Cooperative, incorporated	[2] 137,066	[2] 56,943			[2] 0.42		26	[2] 29,326	[2] 85
Cooperative, unincorporated	61,664	19,550	.....	.....	0.32	.....	22	13,456	29
Irrigation district	2,940	3,207	65,000	19,972	1.09	0.31	[3] 2	12,375	10
Commercial	(2)	(2)	.....	.....	(2)	.....	2	(2)	(2)
U. S. Bureau of Reclamation*	57,471	56,629	11,874	8,101	0.99	0.68	3	35,280	72
U. S. Office of Indian Affairs	11,929	16,657	.....	.....	1.40	.....	6	70,329	68
State	[4] 84	[4] 241	.....	.....	[4] 2.87	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	(4)	(4)	.....	.....	(4)	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census.
[3] Data for less than 3 enterprises shown with permission of the enterprises involved.
[4] Data for 2 "Other" enterprises are included with "State" enterprises in the 1940 Census.
[*] For explanation of areas and investment, see text, p. 389.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 1,896	*Number* 122	*Sec.-ft.* 22,930	*Miles* 2,845	*Miles* 52.2	200	*Ac.-ft.* 696,005	*Miles* 104.7	322	*G.p.m.* 39,835	167	*G.p.m.* 50,938	192	*Hp.* 2,262	196	*G.p.m.* 141,065
Individual and partnership	[3] 1,675	105	[3] 13,973	[3] 1,591	41.6	[3] 185	[3] 31,314	[3] 75.4	319	35,444	[3] 165	[3] 45,055	[3] 183	[3] 1,732	[3] 187	[3] 91,848
Cooperative, incorporated	[4] 157	7	[4] 2,927	[4] 393	[4] 3.8	7	83,470	3.6	....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	43	5	1,492	240	6.1	3	3,551	3.4	3	4,391	2	5,883	2	100	2	5,883
Irrigation district	1	1	90	16	0.5	1	80,000	0.4	....	.....	.....	.....	.....	.....	.....	.....
Commercial	(4)	.....	(4)	(4)	(4)	.....	.....	(4)	....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[5]	4	2	3,400	480	.....	2	452,670	19.2	....	.....	.....	.....	6	422	6	43,084
Office of Indian Affairs[5]	16	2	1,048	125	0.2	2	45,000	2.6	....	.....	.....	.....	1	8	1	250
State	(3)	.....	(3)	(3)	.....	.....	.....	.....	....	.....	(3)	(3)	(3)	(3)	(3)	(3)
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	(3)	.....	.....	(3)	(3)	(3)	....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] Data for 2 "State" and 2 "Other" enterprises are included with "Individual and partnership" enterprises. [4] Data for 2 "Commercial" enterprises are included with "Cooperative, incorporated" enterprises in the 1940 Census. [5] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	1,896	122	1,640	118	Earth and rock	1,077	110	.....	71
					Other and mixed	[1] 603	4	[1] 1,321	22
Concrete or masonry	95	8	132	20	Not reported	37	.....	39	5
Timber	84	.....	148	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*		*Number*	*Percent*	*Hp.*	*Percent*
Total, 1940	196	100.0	141,065	100.0	31	Total, 1940	192	100.0	2,262	100.0
Electric motor	42	21.4	83,774	59.4	22	**Centrifugal pump**	84	43.7	825	36.5
Centrifugal	27	13.7	57,700	41.0	20	Electric	25	13.0	224	9.9
Turbine	7	3.6	15,283	10.8	38	Internal-combustion	56	29.1	487	21.6
Plunger	3	1.5	10	.....	19	Other	3	1.6	114	5.0
Other	5	2.6	10,781	7.6	18					
Internal-combustion engine	95	48.5	25,088	17.8	34	**Turbine pump**	22	11.5	568	75.1
Centrifugal	57	29.1	15,452	11.0	22	Electric	7	3.6	308	13.6
Turbine	16	8.2	8,200	5.8	39	Internal-combustion	15	7.9	260	11.5
Plunger	19	9.7	1,006	0.7	65	Other	.....	.....	.....	.....
Other	3	1.5	430	0.3	116					
Other kinds of motive power	34	17.3	5,338	3.8	28	**Plunger pump**	52	27.1	106	4.7
Centrifugal	3	1.5	4,750	3.4	29	Electric	2	1.0	1	[1]
Turbine	.....	.....	.....	.....	.....	Internal-combustion	18	9.4	65	2.9
Plunger	31	15.8	588	0.4	28	Other	32	16.7	40	1.8
Other	.....	.....	.....	.....	.....					
Mixed kinds of motive power	25	12.8	26,865	19.0	35	**Other and mixed types of pumps**	34	17.7	763	33.7
Centrifugal	14	7.2	8,955	6.3	30	Electric	12	6.2	507	22.3
Turbine	2	1.0	17,775	12.6	42	Internal-combustion	14	7.3	248	11.0
Plunger	9	4.6	135	0.1	39	Other	[2] 8	4.2	8	0.4
Other	.....	.....	.....	.....	.....					
Total, 1930	173	.....	115,648	.....	31	Total, 1930	[3] 157	.....	2,671	.....
Increase or decrease (-) 1930-1940	23	.....	25,417	.....	.....	Increase or decrease (-) 1930-1940	35	.....	-409	.....

[1] Less than one-tenth of 1 percent. [2] Includes one waterwheel for which the capacity was not reported. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]			1940[1]	1930[2]	
	Miles	*Miles*	*Percent*		*Miles*	*Miles*	*Percent*
Total	104.7	[3] 90.6	15.6	Wood-stave:			
				1 to 12 inches	12.0	10.2	17.6
Concrete:				13 to 24 inches	.....	0.5	-80.0
1 to 12 inches	4.3	9.5	-54.7	Over 24 inches	0.1		
13 to 24 inches	.....	2.1	109.5	Clay and other:			
Over 24 inches	4.4			1 to 12 inches	4.8	8.3	-42.2
Metal:				13 to 24 inches	1.0	.....	.....
1 to 12 inches	69.1	54.2	27.5	Over 24 inches	0.4		
13 to 24 inches	6.2	4.0	115.0				
Over 24 inches	2.4						

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 1.8 miles pipe lines not segregated by size.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	37	41	58	Ratio of area drained to area irrigated in—			
Area irrigable in these enterprises.....acres...	244,984	353,238	[1] 537,417	(a) Enterprises reporting lands drained and/or needing drainage....percent..	54.2	[3] 35.7	[1] 6.4
Area irrigated in these enterprises.....acres...	180,044	[2]	[2]	(b) All irrigation enterprises.....percent..	13.2	25.9	6.1
Area for which drains have been installed..acres...	97,576	126,249	34,175	Ratio of area drained plus area needing drainage to—			
Additional area needing drainage.....acres...	21,153	26,348	98,249	(a) Irrigable area reporting.....percent..	48.5	43.2	[1] 24.6
				(b) Irrigated area reporting.....percent..	65.9	[2]	[2]

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	1,064,515	626,580	926,308	944,576	598,020	727,037	119,939	28,560	199,271
Area irrigated by these enterprises.....acres.....	207,997	156,588	212,323	183,346	150,417	122,627	24,651	6,171	89,696
Average water per acre irrigated.....acre-feet..	5.1	4.0	4.4	5.2	4.0	5.9	4.9	4.6	2.2
Total water delivered to irrigators.....acre-feet..	1,852,409	224,035	170,911	623,875	211,435	157,638	1,228,534	12,600	13,273
Area irrigated by these enterprises.....acres.....	623,381	72,380	60,044	150,016	68,396	49,494	473,365	3,984	10,550
Average water per acre irrigated.....acre-feet..	3.0	3.1	2.8	4.2	3.1	3.2	2.6	3.2	1.3
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	18,847	.....	.....	.....	.....	.....	18,847	.....	.....
Area irrigated by these enterprises.....acres.....	4,121	.....	.....	.....	.....	.....	4,121	.....	.....
Average water per acre irrigated.....acre-feet..	4.6	.....	.....	.....	.....	.....	4.6	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	289,950	.....	.....	91,645	.....	.....	198,305	.....	.....
Area irrigated by these enterprises.....acres.....	82,074	.....	.....	17,074	.....	.....	65,000	.....	.....
Average water per acre irrigated.....acre-feet..	3.5	.....	.....	5.4	.....	.....	3.1	.....	.....
Total water delivered to irrigators.....acre-feet..	291,033	.....	.....	239,535	.....	.....	51,498	.....	.....
Area irrigated by these enterprises.....acres.....	84,104	.....	.....	72,200	.....	.....	11,904	.....	.....
Average water per acre irrigated.....acre-feet..	3.5	.....	.....	3.3	.....	.....	4.3	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	947	.....	.....	.....	.....	.....	947	.....	.....
Area irrigated by these enterprises.....acres.....	518	.....	.....	.....	.....	.....	518	.....	.....
Average water per acre irrigated.....acre-feet..	1.8	.....	.....	.....	.....	.....	1.8	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated						
	Primary enterprises	Proportion of total	Supplemental enterprises[1]	Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	739,863	100.0	84,722	486,648	100.0	561,447	100.0
Appropriation[2]	576,468	77.9	19,717	261,572	53.7	366,106	65.2
Underground	4,829	0.7	5	2,192	0.5	1,244	0.2
Appropriation and underground	11,186	1.5	.....	.....	.....	.....	.....
Adjudicated by court[3]	122,705	16.6	65,000	161,920	33.3	161,175	28.7
Other mixed and not reported	24,675	3.3	.....	60,964	12.5	32,922	5.9

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State." [3] Riparian rights are not recognized in Nevada, except those adjudicated by Courts prior to 1885. A total of 22,839 acres reported as having "Riparian" rights in 1939, owing to misapprehension as to their legal status, is included in the reported total of 122,705 acres having rights "Adjudicated by court."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 57,471 acres which were irrigated in 1939 within the Newlands Project. An area totaling 11,874 acres was irrigated with a supplemental supply from the Humboldt Project and is reported as receiving a primary supply through another enterprise. The Bureau was also prepared in 1940 to provide a supplemental supply of water to 28,010 acres in the Truckee Storage Project which is reported as receiving a primary supply through another enterprise.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates principally to expenditures on the above projects and reflects the construction costs incurred by the Bureau of Reclamation and comparatively minor expenditures by an irrigation district in addition to the outlays of Federal funds. The investment includes expenditures for the construction of Boca Dam storage facilities in California to serve supplemental water for lands in Nevada since the costs of the facilities will be repaid by the latter lands. Excluded from the investment of the Bureau of Reclamation in Nevada are the construction costs incurred by the Bureau of Reclamation at Boulder Dam, where none of the costs will be repaid by irrigators in Nevada.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY, BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	1,453	27	1,255	88	55	24	4
2	Irrigated farms, 1939.....number...	4,291	.....	1,255	223	560	1,151	1,102
3	Area irrigated, 1939.....acres....	739,863	.....	443,747	79,394	83,426	66,216	67,080
4	(a) From which crops were harvested.....acres....	459,863	.....	251,119	45,183	55,226	51,237	57,098
5	(b) On which crops failed.....acres....	5,298	.....	3,318	68	95	100	1,717
6	(c) Irrigated pasture.....acres....	274,702	.....	189,310	34,143	28,105	14,879	8,265
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	13,393,439	25,293	1,882,129	890,036	1,454,807	1,668,070	7,473,104
8	(a) Cost of irrigation works and equipment.....dollars..	12,868,726	24,968	1,708,104	842,099	1,249,029	1,651,922	7,392,604
9	(b) Investment in water rights.....dollars..	524,713	325	174,025	47,937	205,778	16,148	80,500
10	Area works were capable of supplying with water.....acres....	841,304	1,262	488,411	100,398	90,349	83,653	77,231
11	Average investment per acre irrigated.....dollars..	18.10	.....	4.24	11.21	17.44	25.19	111.41
12	Average investment per acre which the works could supply with water....dollars..	15.92	20.04	3.85	8.87	16.10	19.94	96.76
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	1,320	12	1,153	80	51	21	3
14	(a) Area irrigated in these enterprises.....acres....	688,722	.....	405,324	73,747	81,678	61,193	66,780
15	(b) Cost of maintenance and operation.....dollars..	293,859	135	140,417	17,149	25,527	44,812	65,819
16	(c) Average cost per irrigated acre reporting.....dollars..	0.43	.....	0.35	0.23	0.31	0.73	0.99
17	Total annual charges[3].....dollars..	304,084	.....	.....	580	28,427	44,009	231,068
18	Average charge per irrigated acre reporting.....dollars..	1.51	.....	.....	0.32	0.36	0.83	3.46
19	Area against which charges were assessed.....acres....	218,138	.....	.....	1,788	83,745	59,466	73,139
20	Average annual charge per acre assessed.....dollars..	1.39	.....	.....	0.32	0.34	0.74	3.16
21	Total charges collected[3].....dollars..	128,223	.....	.....	23	21,405	24,166	82,629
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[4].....number...	9	.....	.....	.....	3	4	2
23	(a) Area irrigated in these enterprises.....acres....	72,812	.....	.....	.....	6,000	66,812	
24	(b) Indebtedness.....dollars..	1,194,066	.....	.....	.....	23,500	1,170,566	
25	(c) Average indebtedness per acre irrigated.....dollars..	16.40	.....	.....	.....	3.92	17.52	
26	(d) Cost of irrigation works and equipment.....dollars..	7,088,751	.....	.....	.....	124,217	6,964,534	
27	(e) Investment in water rights.....dollars..	91,898	.....	.....	.....	10,000	81,898	
28	(f) Total investment.....dollars..	7,180,649	.....	.....	.....	134,217	7,046,432	
29	(g) Maintenance and operation.....dollars..	75,795	.....	.....	.....	4,310	71,485	
30	(h) Total annual charges[3].....dollars..	245,417	.....	.....	.....	5,959	239,458	
31	(i) Total charges collected[3].....dollars..	99,744	.....	.....	.....	4,381	95,363	
32	(j) Area against which annual charges were assessed.....acres....	80,745	.....	.....	.....	7,508	73,237	
33	(k) Average indebtedness per acre assessed.....dollars..	14.79	.....	.....	.....	3.13	15.98	
34	(l) Average charges per acre assessed.....dollars..	3.04	.....	.....	.....	0.79	3.27	
35	(m) Average charges per acre irrigated.....dollars..	3.37	.....	.....	.....	0.99	3.58	
	TYPE, 1940							
36	Individual and partnership.....number...	1,356	27	1,243	78	7	1	.....
37	Cooperative (incorporated and unincorporated).....number...	75	.....	7	7	45	15	1
38	Irrigation district.....number...	1	.....	.....	.....	1	.....	.....
39	Commercial.....number...	2	.....	.....	.....	.....	2	.....
40	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	1
41	U. S. Office of Indian Affairs.....number...	14	.....	2	2	2	6	2
42	All other.....number...	4	.....	3	1	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
43	Enterprises reporting pay roll.....number...	60	.....	.....	2	36	19	3
44	Wages and salaries paid and payable for 1939.....dollars..	110,809	.....	.....	18,835		87,651	4,323
45	Persons employed during week ending April 29, 1939.....number...	245	.....	.....	78		108	59
	SOURCE OF WATER SUPPLY, 1939							
46	Streams, gravity.....number...	746	6	616	57	43	20	4
47	Streams, pumped.....number...	11	.....	10	1	.....	.....	.....
48	Wells, pumped.....number...	74	13	61	.....	.....	.....	.....
49	Wells, pumped and flowing; or wells flowing.....number...	109	1	106	1	1	.....	.....
50	Lakes, gravity or pumped.....number...	2	.....	2	.....	.....	.....	.....
51	Streams and springs; or springs.....number...	414	5	377	19	10	3	.....
52	Mixed, streams and wells.....number...	45	2	37	6	.....	.....	.....
53	Other mixed or stored storm water.....number...	52	.....	46	4	1	1	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	11	[2]1	5	1	.....	3	[2]1
2	Irrigated farms, 1939.....number...	462	.....	5	3	.....	138	316
3	Area irrigated, 1939.....acres....	84,722	.....	648		.....	19,074	65,000
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..	3,513,351	1,066,179	72,385		.....	1,570,070	804,717
5	(a) Cost of irrigation works and equipment.....dollars..	2,958,841	1,066,179	64,585		.....	1,028,360	799,717
6	(b) Investment in water rights.....dollars..	554,510	.....	7,800		.....	541,710	5,000
7	Area works were capable of supplying with water.....acres....	123,845	28,210	735		.....	21,000	73,900
8	Average investment per acre irrigated.....dollars..	41.47	.....	111.71		.....	82.31	12.38
9	Average investment per acre which the works could supply with water....dollars..	28.37	37.79	98.48		.....	74.77	10.89

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
27	665	324	358	70	9	1,297	90	53	12	[2] 1	1
.....	711	419	1,234	1,115	812	1,584	483	926	569	729	2
.....	21,161	54,554	258,171	213,289	192,688	361,722	96,920	128,456	95,294	57,471	3
.....	15,374	37,774	152,210	129,156	125,349	212,346	63,567	84,617	51,379	47,954	4
.....	647	642	1,987	85	1,937	2,955	241	385	20	1,717	5
.....	5,140	16,138	103,974	84,048	65,402	146,421	33,112	43,474	43,895	7,800	6
25,293	598,879	428,109	2,384,119	2,730,685	7,236,354	1,066,632	693,673	2,102,608	2,960,038	6,570,488	7
24,968	541,116	405,911	2,121,695	2,538,748	7,236,288	940,425	670,893	1,978,894	2,708,026	6,570,488	8
325	47,763	22,198	262,424	191,937	66	126,207	22,780	123,714	252,012	.....	9
1,262	28,971	64,743	285,538	242,463	218,327	394,929	103,583	161,179	114,825	66,788	10
.....	27.83	7.85	9.23	12.80	37.55	2.95	7.16	16.37	31.06	114.33	11
20.04	20.33	6.61	8.35	11.26	33.14	2.70	6.70	13.05	25.78	98.38	12
12	590	303	343	64	8	1,176	80	51	12	[2] 1	13
.....	19,156	50,701	247,845	197,332	173,688	338,321	72,204	125,432	95,294	57,471	14
135	35,276	31,096	86,748	58,393	82,211	103,504	27,142	56,812	49,772	56,629	15
.....	1.84	0.61	0.35	0.30	0.47	0.31	0.38	0.45	0.52	0.99	16
.....	408	207	33,189	51,677	218,603	2,888	6,375	48,972	28,827	217,022	17
.....	3.89	0.32	0.96	0.56	2.94	0.21	0.22	0.68	0.98	3.78	18
.....	105	747	38,680	97,993	80,613	13,589	30,934	75,228	34,557	63,830	19
.....	3.89	0.28	0.86	0.53	2.71	0.21	0.21	0.65	0.83	3.40	20
.....	220	128	19,287	34,332	74,256	1,510	5,033	36,185	11,370	74,125	21
.....	.....	.....	3	5	[2] 1	.....	1	6	1	[2] 1	22
.....	.....	.....	2,880	12,461	57,471	.....	15,341			57,471	23
.....	.....	.....	2,163	51,334	1,140,569	.....	53,497			1,140,569	24
.....	.....	.....	0.75	4.12	19.85	.....	3.49			19.85	25
.....	.....	.....	112,862	405,401	6,570,488	.....	518,263			6,570,488	26
.....	.....	.....	16	91,882	.....	.....	91,898			.....	27
.....	.....	.....	112,878	497,283	6,570,488	.....	610,161			6,570,488	28
.....	.....	.....	5,297	13,869	56,629	.....	19,166			56,629	29
.....	.....	.....	5,830	22,565	217,022	.....	28,395			217,022	30
.....	.....	.....	5,170	20,449	74,125	.....	25,619			74,125	31
.....	.....	.....	3,043	13,872	63,830	.....	16,915			63,830	32
.....	.....	.....	0.71	3.70	17.87	.....	3.16			17.87	33
.....	.....	.....	1.92	1.63	3.40	.....	1.68			3.40	34
.....	.....	.....	2.02	1.81	3.78	.....	1.85			3.78	35
27	656	320	316	34	3	1,271	67	17	1	.....	36
.....	2	4	35	29	5	18	17	32	8	.....	37
.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	38
.....	.....	.....	.....	2	.....	.....	.....	2	.....	.....	39
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	40
.....	4	.....	6	4	.....	6	4	1	3	.....	41
.....	3	.....	1	.....	.....	2	2	.....	.....	.....	42
.....	1	3	29	25	2	13	17	23	6	[2] 1	43
.....	421		43,750	66,638		4,328	11,046	47,776	46,201	1,458	44
.....	1		119	125		41	25	70	52	57	45
6	211	202	260	61	6	643	54	38	10	1	46
.....	7	4	.....	.....	.....	11	.....	.....	.....	.....	47
13	60	1	.....	.....	.....	71	3	.....	.....	.....	48
1	103	3	2	.....	.....	106	1	2	.....	.....	49
.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	50
5	239	93	69	6	2	387	17	8	2	.....	51
2	17	10	15	1	.....	33	10	2	.....	.....	52
.....	26	11	12	2	1	44	5	3	.....	.....	53

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
[2] 1	2	4	.....	2	2	3	2	2	4	.....	1
.....	2	6	.....	82	372	3	4	49	406	.....	2
.....	648		.....	84,074		135	2,513		82,074	.....	3
1,066,179	72,385		.....	2,374,787		1,000	139,685		3,372,466	.....	4
1,066,179	64,585		.....	1,828,077		1,000	132,085		2,825,756	.....	5
.....	7,800		.....	546,710		.....	7,800		546,710	.....	6
28,210	735		.....	94,900		135	2,600		121,110	.....	7
.....	111.71		.....	28.25		7.41	55.66		41.09	.....	8
37.79	98.48		.....	25.02		7.41	53.80		27.85	.....	9

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
10	Enterprises reporting maintenance and operation.....number...	10	.....	5	1	.....	3	[2] 1
11	(a) Area irrigated in these enterprises.....acres....	84,722	.....	648		.....	19,074	65,000
12	(b) Cost of maintenance and operation.....dollars..	38,705	.....	1,077		.....	17,656	19,972
13	(c) Average cost per irrigated acre reporting.....dollars..	0.46	.....	1.66		.....	0.93	0.31
14	Total annual charges[3].....dollars..	87,619	.....	.....	.....	.....	30,534	57,085
15	Average charge per irrigated acre reporting.....dollars..	1.04	.....	.....	.....	.....	1.60	0.88
16	Area against which charges were assessed.....acres....	102,049	.....	.....	.....	.....	21,874	80,175
17	Average annual charge per acre assessed.....dollars..	0.86	.....	.....	.....	.....	1.40	0.71
18	Total charges collected[3].....dollars..	79,069	.....	.....	.....	.....	24,517	54,552
	INDEBTEDNESS AND ARREARAGE, 1939							
19	Enterprises reporting indebtedness[4].....number...	4	[2] 1	.....	.....	.....	[2] 2	[2] 1
20	(a) Area irrigated in these enterprises.....acres....	82,074	.....	.....	.....	.....	17,074	65,000
21	(b) Indebtedness.....dollars..	2,740,249	1,066,179	.....	.....	.....	1,203,570	470,500
22	(c) Average indebtedness per acre irrigated.....dollars..	33.39	.....	.....	.....	.....	70.49	7.24
23	(d) Cost of irrigation works and equipment.....dollars..	2,825,756	1,066,179	.....	.....	.....	959,860	799,717
24	(e) Investment in water rights.....dollars..	546,710	.....	.....	.....	.....	541,710	5,000
25	(f) Total investment.....dollars..	3,372,466	1,066,179	.....	.....	.....	1,501,570	804,717
26	(g) Maintenance and operation.....dollars..	36,788	.....	.....	.....	.....	16,816	19,972
27	(h) Total annual charges[3].....dollars..	85,619	.....	.....	.....	.....	28,534	57,085
28	(i) Total charges collected[3].....dollars..	77,129	.....	.....	.....	.....	22,577	54,552
29	(j) Area against which annual charges were assessed.....acres....	100,049	.....	.....	.....	.....	19,874	80,175
30	(k) Average indebtedness per acre assessed.....dollars..	16.73	.....	.....	.....	.....	60.56	5.87
31	(l) Average charges per acre assessed.....dollars..	0.86	.....	.....	.....	.....	1.44	0.71
32	(m) Average charges per acre irrigated.....dollars..	1.04	.....	.....	.....	.....	1.67	0.88
	TYPE, 1940							
33	Individual and partnership.....number...	6	.....	5	1	.....	.....	.....
34	Cooperative (incorporated and unincorporated).....number...	2	.....	.....	.....	.....	2	.....
35	Irrigation district.....number...	1	.....	.....	.....	.....	.....	1
36	U. S. Bureau of Reclamation.....number...	2	1	.....	.....	.....	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
37	Enterprises reporting pay roll.....number...	5	[2] 1	.....	.....	.....	3	[2] 1
38	Wages and salaries paid and payable for 1939.....dollars..	49,833	27,916	.....	.....	.....	11,744	10,173
39	Persons employed during week ending April 29, 1939.....number...	30	11	.....	.....	.....	11	8
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
40	Wells, pumped or flowing.....number...	4	.....	3	1	.....	.....	.....
41	Streams, gravity or storage.....number...	7	1	2	.....	.....	3	1

[1]Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2]Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Salmon Falls Creek		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
San Jacinto	Elko	5,200	7.17	-0.72	2.22	+0.70	1.40	-0.40	3.05	-0.04	0.50	-0.98	46.0	+2.2
Humboldt River														
Battle Mountain	Lander	4,513	3.57	-2.47	0.93	-0.70	1.28	-0.59	1.01	-0.86	0.35	-0.32	51.0	+1.0
Lovelock	Pershing	3,977	4.78	+0.55	1.61	+0.52	1.76	+0.34	0.44	-0.63	0.97	+0.32	53.2	+2.0
Paradise Valley	Humboldt	4,650	6.62	-2.19	2.53	-0.01	2.14	-1.16	1.11	-0.90	0.84	-0.12	[2]	[2]
Truckee River														
Reno	Washoe	4,532	5.79	-1.84	0.59	-1.39	2.45	-1.08	0.81	-0.58	1.94	+1.21	53.4	+3.5
Tahoe, Calif.	Placer	6,230	18.45	-12.74	4.93	-3.98	8.75	-8.58	1.96	-2.01	2.81	+1.83	44.3	+2.0
Carson River														
Carson City	Ormsby	4,675	6.31	-3.06	1.27	-1.61	2.94	-1.74	0.97	-0.21	1.13	+0.50	51.0	+1.6
Fallon	Churchill	3,965	5.87	+1.15	1.25	+0.02	2.69	+1.24	0.79	-0.57	1.14	+0.46	51.8	+1.1
Walker River														
Bridgeport, Calif. (near)	Mono	6,440	6.87	-3.15	1.63	-0.63	2.84	-1.75	0.69	-1.39	1.71	+0.62	45.9	[2]
Yerington	Lyon	4,375	5.18	+0.63	0.50	-0.47	1.35	-0.05	2.74	+1.31	0.59	-0.16	51.2	+1.4
Meadow Valley Wash														
Caliente	Lincoln	4,407	[3] 9.47	[3] [4] +3.76	[3] 1.29	[3] +0.50	2.52	-0.32	1.52	+0.45	4.14	[4] +3.13	55.0	[2]
Ruby Valley														
Arthur	Elko	6,500	17.69	-0.18	5.85	+1.47	5.88	-0.65	3.08	-1.08	2.88	+0.08	[2]	[2]
Snake Valley														
Lehman Caves Nat'l Monument	White Pine	7,250	13.46	[2]	4.92	[2]	2.96	[2]	1.76	[2]	3.82	[2]	48.2	[2]
Goshute and Steptoe Valleys														
Kimberly	White Pine	7,250	14.13	+0.94	2.81	-0.39	4.66	-0.13	2.68	+0.16	3.98	+1.30	47.1	+1.0
Big Smoky Valley														
Austin	Lander	6,594	13.17	+1.07	3.80	+1.19	4.25	+0.39	2.28	-1.43	2.84	+0.92	47.4	+0.2
Ralston, Monitor, and Hot Creek Valleys														
Goldfield	Esmeralda	5,700	8.79	+2.38	0.54	-0.54	2.76	+0.92	1.85	+0.14	3.64	+1.86	51.5	+0.3
Pahranagat Valley														
Alamo	Lincoln	4,130	8.02	+1.87	1.63	+0.04	2.15	+0.45	1.26	-0.08	2.98	+1.46	58.2	+1.9
Amargosa and Las Vegas Area														
Beatty	Nye	3,310	6.52	+1.69	1.42	+0.19	1.71	-0.16	1.27	+0.22	2.12	+1.44	61.2	+2.7
Las Vegas	Clark	2,033	7.63	+3.01	0.86	-0.14	3.05	+1.51	0.73	+0.16	2.99	+1.48	66.6	+1.6
Searchlight	Clark	3,445	18.20	+10.41	1.98	+0.84	2.82	+0.40	1.32	+0.62	12.08	+8.55	63.0	-0.5
Smith Creek and Dixie Valley														
Mina	Mineral	4,350	3.21	-0.34	0.59	+0.01	1.13	+0.13	0.69	-0.52	0.80	+0.04	53.6	-0.2
Smoke Creek														
Gerlach	Washoe	3,980	3.80	-0.41	1.58	+0.32	0.97	-0.41	0.63	-0.40	0.62	+0.08	52.4	+1.8

[1]Departure from normal. [2]Data not available. [3]Does not include data for October 1938. [4]Does not include data for August 1939.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940–Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	2	4	.....	2	2	3	2	2	3	.....	10
.....	648		.....	84,074		135	2,513		82,074	.....	11
.....	1,077		.....	37,628		210	1,707		36,788	.....	12
.....	1.66		.....	0.45		1.56	0.68		0.45	.....	13
.....	.....	.....	.....	87,619		.....	.....	87,619		.....	14
.....	.....	.....	.....	1.04		.....	.....	1.04		.....	15
.....	.....	.....	.....	102,049		.....	.....	102,049		.....	16
.....	.....	.....	.....	0.86		.....	.....	0.86		.....	17
.....	.....	.....	.....	79,069		.....	.....	79,069		.....	18
[2]1	.....	.....	.....	[2]1	[2]2	.....	.....	.....	4	.....	19
.....	.....	.....	.....	5,200	76,874	.....	.....	.....	82,074	.....	20
1,066,179	.....	.....	.....	2,000	1,672,070	.....	.....	.....	2,740,249	.....	21
.....	.....	.....	.....	0.38	21.75	.....	.....	.....	33.39	.....	22
1,066,179	.....	.....	.....	175,000	1,584,577	.....	.....	.....	2,825,756	.....	23
.....	.....	.....	.....	125,000	421,710	.....	.....	.....	546,710	.....	24
1,066,179	.....	.....	.....	300,000	2,006,287	.....	.....	.....	3,372,466	.....	25
.....	.....	.....	.....	8,715	28,073	.....	.....	.....	36,788	.....	26
.....	.....	.....	.....	20,433	65,186	.....	.....	.....	85,619	.....	27
.....	.....	.....	.....	22,577	54,552	.....	.....	.....	77,129	.....	28
.....	.....	.....	.....	8,000	92,049	.....	.....	.....	100,049	.....	29
.....	.....	.....	.....	0.25	18.16	.....	.....	.....	16.73	.....	30
.....	.....	.....	.....	2.55	0.71	.....	.....	.....	0.86	.....	31
.....	.....	.....	.....	3.93	0.85	.....	.....	.....	1.04	.....	32
.....	2	4	.....	.....	.....	3	2	1	.....	.....	33
.....	.....	.....	.....	2	.....	.....	.....	1	1	.....	34
.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	35
1	.....	.....	.....	.....	1	.....	.....	.....	2	.....	36
[2]1	.....	.....	.....	2	2	.....	.....	1	4	.....	37
27,916	.....	.....	.....	21,917		.....	.....	49,833		.....	38
11	.....	.....	.....	19		.....	.....	30		.....	39
.....	1	3	.....	.....	.....	1	2	1	.....	.....	40
1	1	1	.....	2	2	2	.....	1	4	.....	41

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The average annual precipitation in Nevada for the calendar year of 1939 was 8.48 inches, a departure of -0.39 inches or 95.6 percent of normal, as reported by the U. S. Weather Bureau. The average snow fall was 28.3 inches. The precipitation was unevenly distributed, most stations in or near Sierra Nevada having large deficiencies and most stations in the south and east portions having excesses above normal. The greatest monthly amount fell at Searchlight, most of it in connection with a tropical disturbance which affected southern California and extreme southern Nevada. The number of days with precipitation was slightly above normal. Days clear, partly cloudy, and cloudy had approximately normal distribution.

There was sufficient water carried over in storage to offset the deficiencies of precipitation over the western mountains and the year was quite favorable for agriculture and range activities.

The average precipitation for the water year (October 1938 through September 1939) at 20 stations listed in State table 18 with complete records, and which are representative of the major drainage basins in Nevada was 8.58 inches, a departure of -3.40 from the average normal precipitation at these stations.

Temperature.—The year 1939 averages 2.0° warmer than normal. Only six years in the 51 years of record have been warmer. January, March, April, May, August, November and December were abnormally warm, December being the third warmest of record. February was the fifth coldest of record. The remaining months had temperatures not far from normal. Total precipitation was somewhat below normal. July, September and October had favorable amounts, March and April had about normal precipitation and the remaining months had totals below normal. The temperature distribution was fairly uniform over the State, all stations having temperature within one degree of normal or higher.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER			
			Snake River			
			Total[2]	Salmon Falls Creek (2)	Bruneau River (3)	East Fork Owyhee River[*] (4)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	4,291	247	13	24	172
2	Area irrigated....1939...acres	739,863	64,115	7,221	8,416	20,896
3	(a) Cropland harvested....1939...acres	459,863	46,397	6,201	3,809	12,444
4	(b) Crop failure....1939...acres	5,298	1,167	.....	44	222
5	(c) Pasture....1939...acres	274,702	16,551	1,020	4,563	8,230
6	Area irrigated....1929...acres	486,648	47,457	9,719	3,119	33,639
7	1919...acres	561,447	83,929	.....	1,297	57,632
8	Increase or decrease (-), 1929-1939....percent	52.0	35.1	-25.7	169.8	.....
9	Irrigable area in enterprises....1940...acres	915,689	100,008	10,750	8,896	46,827
10	1930...acres	983,717	63,358	12,457	4,866	45,055
11	1920[3]...acres	1,382,036	196,398	.....	2,708	143,690
12	Excess of irrigable area over the area irrigated..1940...acres	175,826	35,893	3,529	480	25,931
13	1930...acres	497,069	15,901	2,738	1,747	11,416
14	1920[3]...acres	820,589	112,469	.....	1,411	86,058
15	Area works were capable of supplying with water...1940...acres	841,304	71,081	8,930	8,896	21,410
16	1930...acres	736,249	51,571	12,307	3,279	35,005
17	1920...acres	704,708	114,510	.....	2,125	62,385
18	Increase or decrease (-), 1930-1940....percent	14.3	37.8	-27.4	171.3	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	101,441	6,966	1,709	480	514
20	1930...acres	249,601	4,114	2,588	160	1,366
21	1920...acres	143,261	30,581	.....	828	4,753
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	87.9	90.2	80.9	94.6	97.6
23	1929...percent	66.1	92.0	79.0	95.1	96.1
24	1919...percent	79.7	73.3	.....	61.0	92.4
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	16,906,790	960,899	138,116	45,935	686,999
26	(a) Cost of irrigation works and equipment....1940...dollars	15,827,567	922,342	101,080	44,935	686,678
27	(b) Investment in water rights (reported)....1940...dollars	1,079,223	38,557	37,036	1,000	321
28	Total investment in irrigation enterprises....1930...dollars	15,457,931	453,192	81,345	48,867	322,880
29	1920...dollars	14,754,280	628,737	.....	42,210	192,772
30	Increase or decrease (-), 1930-1940....percent	9.4	112.0	69.8	-6.0	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	20.10	13.52	15.47	5.16	32.09
32	1930...dollars	21.00	8.79	6.61	14.90	9.22
33	1920...dollars	20.94	5.49	.....	19.86	3.09
34	Average investment per acre irrigated....1939...dollars	22.85	14.99	19.13	5.46	32.88
35	Estimated final investment in existing enterprises..1940...dollars	18,129,554	1,365,129	138,116	47,665	1,086,999
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	19.60	13.65	12.85	5.36	23.21
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Supplemental Enterprises	Primary Enterprises / Supplemental Enterprises			
37	Enterprises reporting maintenance and operation...1939...number	1,341 / 12	87 / 1	9	25	21
38	Area irrigated in these enterprises....1939...acres	688,722 / 84,722	61,850 / (4)	5,956	8,416	20,896
39	Cost of maintenance and operation....1939...dollars	293,859 / 38,705	24,438 / (4)	2,877	4,937	10,675
40	Average cost, per acre irrigated....1939...dollars	0.43 / 0.46	0.40 / (4)	0.48	0.59	0.51
41	Total annual charges (reported)[5] [6]....1939...dollars	304,084 / 87,619	5,116 /	.....	.....	5,066
42	Average annual charge per acre irrigated....1939...dollars	1.51 / 1.04	0.78 /	.....	.....	0.80
43	Area against which charges were assessed....1939...acres	218,138 / 102,049	6,518 /	.....	.....	6,318
44	Average annual charge per acre assessed....1939...dollars	1.39 / 0.86	0.78 /	.....	.....	0.80
45	Total charges collected[5]....1939...dollars	128,223 / 79,069	..... /	.....	.....	.....
46	Indebtedness to December 31 (reported)[6]....1939...dollars	1,194,066 / 2,740,249	..... /	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number	1,123 / 11	32 /	10	4	11
48	Area irrigated by these enterprises....1939...acres	627,502 / 84,622	32,153 /	7,186	5,580	17,352
49	Water delivered....1939...acre-feet	1,871,256 / 291,980	218,970 /	21,403	21,424	170,441
50	Average water delivered per acre irrigated....1939...acre-feet	3.0 / 3.5	6.8 /	3.0	3.8	9.8
51	Average cost of water per acre irrigated....1939...dollars	0.76 / 1.05	0.49 /	0.48	0.37	0.55
52	Average cost of water per acre-foot delivered..1939...dollars	0.25 / 0.30	0.07 /	0.16	0.10	0.06
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number	37 /	..... /	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres	244,984 /	..... /	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres	180,044 /	..... /	.....	.....	.....
56	Area for which drains have been installed....1939...acres	97,576 /	..... /	.....	.....	.....
57	Additional area needing drainage....1939...acres	21,153 /	..... /	.....	.....	.....

[*] 1930 and 1920 data are totals for the Owyhee River; therefore, percentages are not shown.

[1] Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State total.

[2] Data for 2 enterprises in Goose Creek Drainage Basin (1) (number refers to separate map) are included with Snake River Drainage Basin total.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

COLUMBIA RIVER—Con.	HUMBOLDT RIVER								
Snake River—Continued		Upper Humboldt River						Middle Humboldt River	
South Fork Owyhee River (5)	Total	Total	Direct (6)	Lamoille and Rabbit Creeks (7)	North Fork Humboldt River (8)	South Fork Humboldt River (9)	Maggie Creek (10)	Pine Creek (11)	Total	
36	499	252	92	44	17	77	4	18	139	1
26,802	285,026	169,723	54,066	32,752	28,565	35,233	9,901	9,206	93,597	2
23,163	177,503	96,061	25,410	24,074	16,902	21,824	2,261	5,590	59,809	3
901	833	451	326	100	25	.....	.....	.....	357	4
2,738	106,690	73,211	28,330	8,578	11,638	13,409	7,640	3,616	33,431	5
.....	138,426	.....	.....	.....	9,090	33,795	.....	2,703	.....	6
.....	197,778	.....	.....	.....	7,940	33,052	.....	3,250	.....	7
.....	105.9	.....	.....	.....	214.2	4.3	.....	240.6	.....	8
32,535	333,575	187,800	57,464	40,876	33,090	35,473	9,901	10,996	106,414	9
.....	343,563	.....	.....	.....	9,311	37,442	.....	4,419	.....	10
.....	348,573	.....	.....	.....	28,697	48,338	.....	3,530	.....	11
5,733	48,549	18,077	3,398	8,124	4,525	240	.....	1,790	12,817	12
.....	205,137	.....	.....	.....	221	3,647	.....	1,716	.....	13
.....	150,795	.....	.....	.....	20,757	15,286	.....	280	.....	14
31,015	327,932	186,478	56,314	40,876	33,070	35,473	9,901	10,844	102,241	15
.....	287,501	.....	.....	.....	7,682	37,442	.....	4,359	.....	16
.....	231,251	.....	.....	.....	10,470	41,261	.....	3,250	.....	17
.....	14.1	.....	.....	.....	330.5	-5.3	.....	148.8	.....	18
4,213	42,906	16,755	2,248	8,124	4,505	240	.....	1,638	8,644	19
.....	149,075	.....	.....	.....	.....	3,647	.....	1,656	.....	20
.....	33,473	.....	.....	.....	2,530	8,209	.....	.....	.....	21
86.4	86.9	91.0	96.0	80.1	86.4	99.3	100.0	84.9	91.5	22
.....	48.1	.....	.....	.....	.....	90.3	.....	62.0	.....	23
.....	85.5	.....	.....	.....	75.8	80.1	.....	100.0	.....	24
89,739	2,948,109	783,543	563,759	24,349	136,757	14,360	4,300	40,018	570,486	25
89,539	2,212,307	596,603	386,342	24,300	134,257	14,335	4,300	33,069	441,144	26
200	735,802	186,940	177,417	49	2,500	25	.....	6,949	129,342	27
.....	2,559,497	.....	.....	.....	20,145	345,400	.....	20,252	.....	28
.....	1,751,566	.....	.....	.....	57,403	288,162	.....	2,809	.....	29
.....	15.2	.....	.....	.....	578.9	-85.8	.....	97.6	.....	30
2.89	8.99	4.20	10.01	0.60	4.14	0.40	0.43	3.69	5.58	31
.....	8.90	.....	.....	.....	2.62	9.22	.....	4.65	.....	32
.....	7.57	.....	.....	.....	5.48	6.98	.....	0.86	.....	33
3.35	10.34	4.62	10.43	0.74	4.79	0.41	0.43	4.35	6.10	34
92,239	3,051,727	784,943	565,159	24,349	136,757	14,360	4,300	40,018	592,534	35
2.84	9.15	4.18	9.84	0.60	4.13	0.40	0.43	3.64	5.57	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.						Primary Enterprises	Sup.	
30	1	339	3	228	71	44	17	77	3	16	98	2	37
25,802	(4)	253,004	17,079	165,144	50,777	32,752	27,565	35,233	9,901	8,916	68,962	(4)	38
5,947	(4)	56,346	16,966	39,859	13,362	8,881	7,143	5,070	400	5,003	15,300	(4)	39
0.23	(4)	0.22	0.99	0.24	0.26	0.27	0.26	0.14	0.04	0.56	0.22	(4)	40
50	.....	6,497	28,534	1,193	943	.....	.....	.....	250	.....	1,000	20,433	41
0.25	.....	0.40	1.67	0.29	0.38	.....	.....	.....	0.15	.....	0.21	3.93	42
200	.....	16,834	19,874	4,827	3,196	.....	.....	.....	1,631	.....	4,751	8,000	43
0.25	.....	0.39	1.44	0.25	0.30	.....	.....	.....	0.15	.....	0.21	2.55	44
.....	.....	4,502	22,577	723	723	.....	.....	.....	.....	.....	.....	22,577	45
.....	.....	.....	1,203,570	.....	.....	.....	.....	.....	.....	.....	.....	2,000	46
5	.....	296	3	188	49	42	5	73	3	16	94	2	47
1,255	.....	243,936	17,079	138,368	37,013	32,162	16,107	34,944	9,901	8,241	83,862	(4)	48
2,977	.....	600,013	78,502	388,552	115,157	104,652	60,288	74,807	18,443	15,205	138,165	(4)	49
2.4	.....	2.5	4.6	2.8	3.1	3.3	3.7	2.1	1.9	1.8	1.6	(4)	50
0.38	.....	0.27	1.68	0.27	0.38	0.27	0.30	0.14	0.04	0.56	0.23	(4)	51
0.16	.....	0.11	0.37	0.10	0.12	0.08	0.08	0.07	0.02	0.30	0.14	(4)	52
.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	53
.....	.....	32,603	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	54
.....	.....	13,336	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	55
.....	.....	15,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	330	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	HUMBOLDT RIVER — Continued			
		Middle Humboldt River—Continued			Lower Humboldt River
		Direct (12)	Reese River (13)	Little Humboldt River (14)	(15)
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms....1939...number	48	55	36	108
2	Area irrigated....1939...acres	61,621	15,093	16,883	21,706
3	(a) Cropland harvested....1939...acres	37,614	10,410	11,785	21,633
4	(b) Crop failure....1939...acres	157	200	.....	25
5	(c) Pasture....1939...acres	23,850	4,483	5,098	48
6	Area irrigated....1929...acres	.....	2,952	3,785	.....
7	1919...acres	.....	11,178	6,350	.....
8	Increase or decrease (-), 1929-1939....percent	.....	411.3	346.1	.....
9	Irrigable area in enterprises....1940...acres	69,502	17,616	19,296	39,361
10	1930...acres	.....	3,364	31,370	.....
11	1920[1]...acres	.....	40,769	6,790	.....
12	Excess of irrigable area over the area irrigated...1940...acres	7,881	2,523	2,413	17,655
13	1930...acres	.....	412	27,585	.....
14	1920[1]...acres	.....	29,591	440	.....
15	Area works were capable of supplying with water...1940...acres	67,699	15,670	18,872	39,213
16	1930...acres	.....	3,324	31,370	.....
17	1920...acres	.....	10,898	6,350	.....
18	Increase or decrease (-), 1930-1940....percent	.....	371.4	-39.8	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	6,078	577	1,989	17,507
20	1930...acres	.....	372	27,585	.....
21	1920...acres	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	91.0	96.3	89.5	55.4
23	1929...percent	.....	88.8	12.1	.....
24	1919...percent	.....	.....	100.0	.....
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises....1940...dollars	471,797	41,899	56,790	1,594,080
26	(a) Cost of irrigation works and equipment....1940...dollars	345,381	38,973	56,790	1,174,560
27	(b) Investment in water rights (reported)....1940...dollars	126,416	2,926	.....	419,520
28	Total investment in irrigation enterprises....1930...dollars	.....	42,975	40,740	.....
29	1920...dollars	.....	79,120	2,544	.....
30	Increase or decrease (-), 1930-1940....percent	.....	-2.5	39.4	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	6.97	2.67	3.01	40.65
32	1930...dollars	.....	12.93	1.30	.....
33	1920...dollars	.....	7.26	0.40	.....
34	Average investment per acre irrigated....1939...dollars	7.66	2.78	3.36	73.44
35	Estimated final investment in existing enterprises...1940...dollars	472,845	61,899	57,790	1,674,250
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	6.80	3.51	2.99	42.54
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises / Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number	39	2	24	35	13	[2] 1
38	Area irrigated in these enterprises....1939...acres	38,961	([3])	13,118	16,883	18,898	11,874
39	Cost of maintenance and operation....1939...dollars	5,621	([2])	5,459	4,220	1,187	8,101
40	Average cost, per acre irrigated....1939...dollars	0.14	([3])	0.42	0.25	0.06	0.68
41	Total annual charges (reported)[4] [5]....1939...dollars	250	20,433	750	.....	4,304	8,101
42	Average annual charge per acre irrigated....1939...dollars	0.15	3.93	0.24	.....	0.59	0.68
43	Area against which charges were assessed....1939...acres	1,631	8,000	3,120	.....	7,256	11,874
44	Average annual charge per acre assessed....1939...dollars	0.15	2.55	0.24	.....	0.59	0.68
45	Total charges collected[4]....1939...dollars	.....	22,577	.....	.....	3,779	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars	.....	2,000	.....	.....	.....	1,201,570
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number	39	2	23	32	14	[2] 1
48	Area irrigated by these enterprises....1939...acres	58,545	([3])	13,185	12,132	21,706	11,874
49	Water delivered....1939...acre-feet	88,050	([3])	24,639	25,476	73,296	51,348
50	Average water delivered per acre irrigated....1939...acre-feet	1.5	([3])	1.9	2.1	3.4	4.3
51	Average cost of water per acre irrigated....1939...dollars	0.15	([3])	0.41	0.31	0.61	0.68
52	Average cost of water per acre-foot delivered...1939...dollars	0.10	([3])	0.22	0.15	0.18	0.16
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	2	.....	3	.....
54	Irrigable area in these enterprises....1939...acres	.....	.....	([3])	.....	31,138	.....
55	Irrigated area in these enterprises....1939...acres	.....	.....	([3])	.....	11,874	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	15,000	.....
57	Additional area needing drainage....1939...acres	.....	.....	([3])	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

PYRAMID LAKE										LAHONTAN	WALKER LAKE		
		Truckee River					Carson River[4]						
Total	Direct	Total	Direct	Truckee Canal	Steamboat and Washoe Valleys		Truckee-Carson Rivers	Total				
	(16)		(17)	(18)	(19)	(20)				(21)			
710	82	628	524	67	37	273	720	411					1
47,751	2,921	44,827	30,567	5,754	8,506	34,994	54,254	73,921					2
30,495	1,188	29,307	20,908	4,801	3,598	21,465	44,797	36,272					3
473	.....	473	131	172	170	158	1,545	66					4
16,783	1,736	15,047	9,528	781	4,738	13,371	7,912	37,583					5
39,028	.....	39,028	30,417	.....	3,214	72,872	.....	75,869					6
20,002	.....	20,002	14,606	.....	3,152	70,980	.....	113,364					7
22.1	.....	14.9	0.5	.....	164.7	.....	.....	-2.6					8
55,731	5,488	50,243	31,228	8,762	10,253	36,398	86,066	86,669					9
47,770	.....	47,770	38,971	.....	3,230	167,851	.....	175,788					10
34,659	.....	34,659	28,040	.....	3,298	226,641	.....	357,937					11
7,980	2,564	5,416	661	3,008	1,747	1,404	31,812	12,748					12
8,742	.....	8,742	8,554	.....	16	94,979	.....	99,919					13
14,657	.....	14,657	13,434	.....	146	155,661	.....	244,573					14
52,419	4,250	48,169	31,228	6,688	10,253	35,893	66,768	84,167					15
43,424	.....	43,424	34,625	.....	3,230	121,784	.....	78,305					16
20,920	.....	20,920	15,436	.....	3,218	99,645	.....	139,207					17
20.7	.....	10.9	-9.8	.....	217.4	.....	.....	7.5					18
4,668	1,326	3,342	661	934	1,747	899	12,514	10,246					19
4,396	.....	4,396	4,208	.....	16	48,912	.....	2,436					20
918	.....	918	830	.....	66	28,665	.....	25,843					21
91.1	68.8	93.1	97.9	86.0	83.0	97.5	81.3	87.8					22
89.9	.....	89.9	87.8	.....	99.5	59.8	.....	96.9					23
95.6	.....	95.6	94.6	.....	97.9	71.2	.....	81.4					24
2,810,348	95,926	2,714,422	2,008,629	648,517	57,276	388,942	6,168,815	1,696,862					25
2,783,415	95,926	2,687,489	1,991,752	648,517	47,220	386,105	6,168,815	1,678,290					26
26,933	.....	26,933	16,877	.....	10,056	2,837	.....	18,572					27
1,814,690	.....	1,814,690	1,572,525	.....	161,400	7,208,111	.....	1,476,954					28
594,187	.....	594,187	485,900	.....	42,070	8,024,300	.....	1,661,484					29
54.9	.....	49.6	27.7	.....	-64.5	.....	.....	14.9					30
53.61	22.57	56.35	64.32	96.97	5.59	10.84	92.39	20.16					31
41.79	.....	41.79	45.42	.....	49.97	59.19	.....	18.86					32
28.40	.....	28.40	31.48	.....	13.07	80.53	.....	11.94					33
58.85	32.81	60.55	65.71	112.71	6.73	11.11	113.70	22.96					34
3,170,419	321,176	2,849,243	2,143,050	648,517	57,676	458,372	6,207,165	1,759,462					35
56.89	58.52	56.71	68.63	74.01	5.63	12.59	72.12	20.30					36
Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.			Primary Enterprises	Sup.		Primary Enterprises	Sup.	
69	.....	10	59	.....	39	.....	[2] 2	18	96	3	8	55	3	37
44,664	.....	1,563	43,101	.....	29,736	.....	5,754	7,611	31,691	2,313	54,251	73,251	65,000	38
44,182	.....	3,126	41,056	.....	34,096	.....	5,671	1,289	9,065	1,457	55,956	22,968	19,972	39
0.99	.....	2.00	0.95	.....	1.15	.....	0.99	0.17	0.29	0.63	1.03	0.31	0.31	40
56,546	.....	2,956	53,590	.....	31,449	.....	21,731	410	2,298	2,000	199,540	13,556	57,085	41
1.65	.....	4.51	1.60	.....	1.25	.....	3.78	0.16	0.14	1.00	3.76	0.25	0.88	42
35,275	.....	635	34,620	.....	25,666	.....	6,392	2,562	16,861	2,000	61,687	60,899	80,175	43
1.60	.....	4.51	1.55	.....	1.23	.....	3.40	0.16	0.14	1.00	3.23	0.22	0.71	44
31,508	.....	31,508	23,906	.....	7,422	180	1,467	1,940	66,703	11,255	54,552	45
129,240	1,066,179	129,240	1,066,179	14,798	1,066,179	113,942	500	.....	.....	1,026,627	22,500	470,500	46
73	.....	13	60	.....	37	.....	[2] 2	21	85	3	4	59	3	47
46,809	.....	2,924	43,885	.....	29,955	.....	5,754	8,176	31,404	2,313	53,274	69,645	65,000	48
196,290	.....	8,715	187,575	.....	156,427	.....	19,483	11,665	143,062	2,378	181,455	173,283	210,450	49
4.2	.....	3.0	4.3	.....	5.2	.....	3.4	1.4	4.6	1.0	3.4	2.5	3.2	50
1.39	.....	2.00	1.36	.....	1.19	.....	3.78	0.16	0.29	1.13	3.75	0.29	0.88	51
0.33	.....	0.67	0.32	.....	0.23	.....	1.12	0.12	0.06	1.10	1.10	0.12	0.27	52
8	.....	.....	8	.....	6	.....	[2] 2	.....	2	.....	[2] 2	8	.....	53
33,666	.....	.....	33,666	.....	24,904	.....	8,762	.....	(3)	.....	83,615	76,166	.....	54
30,562	.....	.....	30,562	.....	24,808	.....	5,754	.....	(3)	.....	53,013	66,563	.....	55
12,512	.....	.....	12,512	.....	8,113	.....	4,399	.....	(3)	.....	41,301	27,860	.....	56
6,206	.....	.....	6,206	.....	6,006	.....	200	.....	(3)	.....	3,800	8,975	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[6] Data for 1930 and 1920 include a portion of the Newland Project, U. S. Bureau of Reclamation, therefore percent of increase or decrease not shown.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	WALKER LAKE—Continued					
			Walker River				
		Direct (22)	Total		Direct (23)		West Walker River (24)	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	77	334		222		100	
2	Area irrigated....1939...acres....	3,646	70,275		44,133		18,967	
3	(a) Cropland harvested....1939...acres....	814	35,458		23,160		10,415	
4	(b) Crop failure....1939...acres....	.....	66		60		.....	
5	(c) Pasture....1939...acres....	2,832	34,751		20,913		8,552	
6	Area irrigated....1929...acres....	.....	75,869		72,057		.....	
7	1919...acres....	.....	113,364		94,240		.....	
8	Increase or decrease (-), 1929-1939....percent....	.....	-7.4		-38.8		.....	
9	Irrigable area in enterprises....1940...acres....	7,371	79,298		49,881		22,042	
10	1930...acres....	.....	175,788		170,420		.....	
11	1920[2]...acres....	.....	357,937		294,990		.....	
12	Excess of irrigable area over the area irrigated..1940...acres....	3,725	9,023		5,748		3,075	
13	1930...acres....	.....	99,919		98,363		.....	
14	1920[2]...acres....	.....	244,573		200,750		.....	
15	Area works were capable of supplying with water...1940...acres....	5,154	79,013		49,596		22,042	
16	1930...acres....	.....	78,305		74,000		.....	
17	1920...acres....	.....	139,207		98,500		.....	
18	Increase or decrease (-), 1930-1940....percent....	.....	0.9		-33.0		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	1,508	8,738		5,463		3,075	
20	1930...acres....	.....	2,436		1,943		.....	
21	1920...acres....	.....	25,843		4,260		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	70.7	88.9		89.0		86.0	
23	1929...percent....	.....	96.9		97.4		.....	
24	1919...percent....	.....	81.4		95.7		.....	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	218,179	1,478,683		879,400		501,872	
26	(a) Cost of irrigation works and equipment....1940...dollars....	215,679	1,462,611		865,051		500,554	
27	(b) Investment in water rights (reported)....1940...dollars....	2,500	16,072		14,349		1,318	
28	Total investment in irrigation enterprises....1930...dollars....	.....	1,476,954		1,446,454		.....	
29	1920...dollars....	.....	1,661,484		1,466,889		.....	
30	Increase or decrease (-), 1930-1940....percent....	.....	0.1		-39.2		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	42.33	18.71		17.73		22.77	
32	1930...dollars....	.....	18.86		19.55		.....	
33	1920...dollars....	.....	11.94		14.89		.....	
34	Average investment per acre irrigated....1939...dollars....	59.84	21.04		19.93		26.46	
35	Estimated final investment in existing enterprises..1940...dollars....	272,179	1,487,283		888,000		501,872	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	36.93	18.76		17.80		22.77	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	2	53	3	30	1	15	1
38	Area irrigated in these enterprises....1939...acres....	(4)	69,739	65,000	43,787	(4)	18,957	(4)
39	Cost of maintenance and operation....1939...dollars....	(4)	18,967	19,972	7,367	(4)	7,495	(4)
40	Average cost, per acre irrigated....1939...dollars....	(4)	0.27	0.31	0.17	(4)	0.40	(4)
41	Total annual charges (reported)[5] [6]....1939...dollars....	89	13,467	57,085	5,338	38,546	8,129	14,352
42	Average annual charge per acre irrigated....1939...dollars....	0.03	0.26	0.88	0.15	0.88	0.55	0.90
43	Area against which charges were assessed....1939...acres....	3,498	57,401	80,175	39,764	54,137	17,637	20,158
44	Average annual charge per acre assessed....1939...dollars....	0.03	0.23	0.71	0.13	0.71	0.46	0.71
45	Total charges collected[5]....1939...dollars....	85	11,170	54,552	5,251	36,836	5,919	13,715
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	.....	22,500	470,500	.....	317,696	22,500	118,293
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	3	56	3	33	1	15	1
48	Area irrigated by these enterprises....1939...acres....	3,646	65,999	65,000	44,133	(4)	16,526	(4)
49	Water delivered....1939...acre-feet..	6,754	166,529	210,450	97,994	(4)	56,922	(4)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.9	2.5	3.2	2.2	(4)	3.4	(4)
51	Average cost of water per acre irrigated....1939...dollars....	0.03	0.30	0.88	0.18	(4)	0.50	(4)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.01	0.12	0.27	0.08	(4)	0.14	(4)
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	8	.....	6	.....	2	.....
54	Irrigable area in these enterprises....1939...acres....	.....	76,166	.....	68,226	.....	(4)	.....
55	Irrigated area in these enterprises....1939...acres....	.....	66,563	.....	60,363	.....	(4)	.....
56	Area for which drains have been installed....1939...acres....	.....	27,860	.....	25,620	.....	(4)	.....
57	Additional area needing drainage....1939...acres....	.....	8,975	.....	7,775	.....	(4)	.....

[1] Data for 1920 and 1930 Censuses are for Steptoe Creek only; therefore, percentages of increase or decrease are not shown.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Percent not shown when more than 1,000.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

WALKER LAKE—Con.	COLORADO RIVER								INDEPENDENT BASINS					
Walker River—Con.			Virgin River											
					Muddy River									
East Walker River	Total	Direct	Total	Direct	Total	Direct	Meadow Valley Wash	Las Vegas Valley	Thousand Spring Creek	Clover Valley	Ruby Valley	Goshute and Steptoe Valleys[1]	Deep Creek	
(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	
12	660	16	533	124	409	230	179	111	14	20	29	62	14	1
7,175	13,880	52	11,263	2,304	8,959	4,099	4,860	2,565	2,775	13,290	29,033	9,253	1,220	2
1,883	10,607	28	9,409	2,181	7,228	3,717	3,511	1,170	2,715	4,231	14,775	5,325	1,135	3
6	111	.....	95	.....	95	16	79	16	.....	.....	.....	73	40	4
5,286	3,162	24	1,759	123	1,636	366	1,270	1,379	60	9,059	14,258	3,855	45	5
.....	12,308	240	2,070	.....	.....	.....	.....	.....	.....	.....	.....	4,557	.....	6
.....	8,546	.....	7,865	.....	.....	.....	.....	.....	.....	.....	.....	3,708	.....	7
.....	12.8	-78.3	444.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
7,375	19,425	234	15,699	3,462	12,237	5,490	6,747	3,492	9,259	14,205	32,407	11,028	1,234	9
.....	21,292	915	2,780	.....	.....	.....	.....	.....	.....	.....	.....	8,279	.....	10
.....	21,342	.....	17,259	.....	.....	.....	.....	.....	.....	.....	.....	12,069	.....	11
200	5,545	182	4,436	1,158	3,278	1,391	1,887	927	6,484	915	3,374	1,775	14	12
.....	8,984	675	710	.....	.....	.....	.....	.....	.....	.....	.....	3,722	.....	13
.....	12,796	.....	9,394	.....	.....	.....	.....	.....	.....	.....	.....	8,361	.....	14
7,375	17,047	194	13,684	2,812	10,872	5,150	5,722	3,169	4,893	14,070	32,407	10,524	1,234	15
.....	14,849	415	2,280	.....	.....	.....	.....	.....	.....	.....	.....	7,468	.....	16
.....	10,338	.....	9,460	.....	.....	.....	.....	.....	.....	.....	.....	3,628	.....	17
.....	14.8	-53.3	500.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
200	3,167	142	2,421	508	1,913	1,051	862	604	2,118	780	3,374	1,271	14	19
.....	2,541	175	210	.....	.....	.....	.....	.....	.....	.....	.....	2,911	.....	20
.....	1,792	.....	1,585	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
97.3	81.4	26.8	82.3	81.9	82.4	79.6	84.9	80.9	56.7	94.5	89.6	87.9	98.3	22
.....	82.9	57.8	90.8	.....	.....	.....	.....	.....	.....	.....	.....	61.0	.....	23
.....	82.7	.....	83.1	.....	.....	.....	.....	.....	.....	.....	.....	102.2	.....	24
97,411	597,038	3,677	472,662	68,649	404,013	293,727	110,286	120,699	296,215	7,340	7,620	45,144	13,806	25
97,006	493,817	3,677	370,585	67,633	302,952	213,201	89,751	119,555	296,180	7,170	7,620	42,139	13,806	26
405	103,221	.....	102,077	1,016	101,061	80,526	20,535	1,144	35	170	.....	3,005	.....	27
.....	223,631	37,850	41,000	.....	.....	.....	.....	.....	.....	.....	.....	222,870	.....	28
.....	415,953	.....	357,542	.....	.....	.....	.....	.....	.....	.....	.....	189,986	.....	29
.....	167.0	-90.3	(5)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
13.21	35.02	18.95	34.54	24.41	37.16	57.03	19.27	38.09	60.54	0.52	0.24	4.29	11.19	31
.....	15.06	91.20	17.98	.....	.....	.....	.....	.....	.....	.....	.....	29.84	.....	32
.....	40.24	.....	37.80	.....	.....	.....	.....	.....	.....	.....	.....	52.37	.....	33
13.58	43.01	70.71	41.97	29.80	45.10	71.66	22.69	47.06	106.74	0.55	0.26	4.88	11.32	34
97,411	678,973	5,292	543,912	68,649	475,263	307,377	167,886	129,769	296,215	7,340	7,635	46,384	13,806	35
13.21	34.95	22.62	34.65	19.83	38.84	55.99	24.88	37.16	31.99	0.52	0.24	4.21	11.19	36
Primary Enterprises	Sup.													
8	1	210	15	96	5	91	9	82	99	12	20	25	59	14	37
6,995	(4)	13,109	40	10,823	2,282	8,541	3,779	4,762	2,246	2,775	13,290	28,963	8,939	1,220	38
4,105	(4)	22,194	195	18,108	6,625	11,983	4,780	7,203	3,391	2,887	1,840	2,571	6,419	1,387	39
0.59	(4)	1.69	4.88	1.72	2.90	1.40	1.26	1.51	1.51	1.04	0.14	0.09	0.72	1.14	40
.....	4,187	15,787	.....	15,787	5,372	10,415	9,030	1,385	.....	.....	.....	.....	.....	.....	41
.....	0.79	2.64	.....	2.64	2.62	2.65	2.83	1.89	.....	.....	.....	.....	.....	.....	42
.....	5,880	6,078	.....	6,078	2,053	4,025	3,191	834	.....	.....	.....	.....	.....	.....	43
.....	0.71	2.60	.....	2.60	2.62	2.59	2.83	1.66	.....	.....	.....	.....	.....	.....	44
.....	4,001	10,079	.....	10,079	1,253	8,826	8,504	322	.....	.....	.....	.....	.....	.....	45
.....	34,511	15,699	.....	15,699	463	15,236	15,236	.....	.....	.....	.....	.....	.....	.....	46
8	1	160	12	92	4	88	11	77	56	9	9	21	53	14	47
5,340	(4)	11,340	45	10,069	1,286	8,783	4,099	4,684	1,226	2,460	5,752	28,108	6,970	1,220	48
11,613	(4)	55,593	38	47,951	6,352	41,599	20,270	21,329	7,604	13,266	4,900	30,943	15,869	5,106	49
2.2	(4)	4.9	0.8	4.8	4.9	4.7	4.9	4.6	.....	5.4	0.9	1.1	2.3	4.2	50
0.69	(4)	1.99	4.94	1.90	1.71	1.94	2.55	1.43	2.63	1.15	0.15	0.08	0.88	1.14	51
0.32	(4)	0.41	5.82	0.40	0.35	0.41	0.51	0.31	0.42	0.21	0.17	0.07	0.39	0.27	52
.....	.....	3	.....	3	.....	3	3	.....	.....	.....	.....	2	1	.....	53
.....	.....	905	.....	905	.....	905	905	.....	.....	.....	.....	(4)	(4)	.....	54
.....	.....	552	.....	552	.....	552	552	.....	.....	.....	.....	(4)	(4)	.....	55
.....	.....	20	.....	20	.....	20	20	.....	.....	.....	.....	(4)	.....	.....	56
.....	.....	360	.....	360	.....	360	360	.....	.....	.....	.....	(4)	(4)	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	INDEPENDENT BASINS—Continued						
		Snake Valley (36)	Spring Valley (37)	Crescent, Diamond, Grass, and Newark Valleys (38)	Big Smoky Valley (39)		Ralston, Monitor, and Hot Creek Valleys (40)	Railroad Valley (41)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number	15	22	55	27		38	37
2	Area irrigated....1939...acres	2,938	10,932	19,998	6,316		7,681	9,753
3	(a) Cropland harvested....1939...acres	1,414	4,529	11,726	3,134		1,948	6,817
4	(b) Crop failure....1939...acres	28	87	96	17		.....	20
5	(c) Pasture....1939...acres	1,496	6,316	8,176	3,165		5,733	2,916
6	Area irrigated....1929...acres	.....	.....	.....	.....		.....	.....
7	1919...acres	.....	.....	.....	.....		.....	.....
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....		.....	.....
9	Irrigable area in enterprises....1940...acres	4,962	12,804	21,064	6,557		9,332	10,439
10	1930...acres	.....	.....	.....	.....		.....	.....
11	1920[1]...acres	.....	.....	.....	.....		.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	2,024	1,872	1,066	241		1,651	686
13	1930...acres	.....	.....	.....	.....		.....	.....
14	1920[1]...acres	.....	.....	.....	.....		.....	.....
15	Area works were capable of supplying with water...1940...acres	4,042	11,564	20,911	6,557		9,217	10,218
16	1930...acres	.....	.....	.....	.....		.....	.....
17	1920...acres	.....	.....	.....	.....		.....	.....
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....		.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	1,104	632	913	241		1,536	465
20	1930...acres	.....	.....	.....	.....		.....	.....
21	1920...acres	.....	.....	.....	.....		.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	75.1	94.5	95.6	96.3		83.3	95.4
23	1929...percent	.....	.....	.....	.....		.....	.....
24	1919...percent	.....	.....	.....	.....		.....	.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars	42,406	64,205	154,566	84,334		134,095	24,118
26	(a) Cost of irrigation works and equipment....1940...dollars	25,696	63,245	133,565	74,269		73,170	21,735
27	(b) Investment in water rights (reported)....1940...dollars	16,710	960	21,001	10,065		60,925	2,383
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	.....		.....	.....
29	1920...dollars	.....	.....	.....	.....		.....	.....
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....		.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	10.79	5.55	7.39	12.86		14.55	2.36
32	1930...dollars	.....	.....	.....	.....		.....	.....
33	1920...dollars	.....	.....	.....	.....		.....	.....
34	Average investment per acre irrigated....1939...dollars	14.37	5.87	7.73	13.35		17.46	2.47
35	Estimated final investment in existing enterprises..1940...dollars	52,136	114,805	158,191	91,084		136,545	26,118
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	10.75	8.97	7.51	13.89		14.63	2.50
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				Primary Enterprises	Supplemental Enterprises		
37	Enterprises reporting maintenance and operation...1939...number	17	20	45	24	1	27	24
38	Area irrigated in these enterprises....1939...acres	2,938	8,393	19,606	6,209	(2)	7,609	9,753
39	Cost of maintenance and operation....1939...dollars	2,410	5,090	7,058	2,559	(2)	3,178	2,871
40	Average cost, per acre irrigated....1939...dollars	0.82	0.61	0.36	0.41	(2)	0.42	0.29
41	Total annual charges (reported)[3] [4]....1939...dollars	.....	.....	.....	.....	.....	.....	1,400
42	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	.....	.....	0.23
43	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	.....	.....	6,000
44	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	.....	.....	0.23
45	Total charges collected[3]....1939...dollars	.....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number	16	22	30	22	1	14	4
48	Area irrigated by these enterprises....1939...acres	2,938	10,932	13,796	5,520	(2)	5,468	6,324
49	Water delivered....1939...acre-feet	5,778	17,918	45,605	15,454	(2)	14,354	18,556
50	Average water delivered per acre irrigated....1939...acre-feet	2.0	1.6	3.3	2.8	(2)	2.6	2.9
51	Average cost of water per acre irrigated....1939...dollars	0.82	0.61	0.40	0.45	(2)	0.48	0.30
52	Average cost of water per acre-foot delivered..1939...dollars	0.42	0.37	0.12	0.16	(2)	0.18	0.10
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number	.....	1	.....	3	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres	.....	(2)	.....	955	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres	.....	(2)	.....	785	.....	.....	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres	.....	(2)	.....	130	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

INDEPENDENT BASINS—Continued

White River (42)	Pahranagat Valley (43)	Amargosa River (44)	Fish Lake Valley (45)	Smith Creek and Dixie Valley (46)	Sonoma-Clear Creeks (47)	Black Rock Desert (48)	Quinn River (49)	Cowhead and Warner Lakes (50)	Surprise Valley (51)	Smoke Creek (52)	Honey Lake (53)	
92	65	17	13	42	8	53	97	4	16	13	18	1
5,727	6,302	1,246	3,179	4,449	1,073	6,895	18,777	660	2,458	904	1,063	2
4,126	3,303	207	899	3,647	728	5,413	12,896	290	1,630	644	795	3
32	5	125	.....	24	10	295	93	.....	.....	.....	.....	4
1,569	2,994	914	2,280	778	335	1,187	5,788	370	828	260	268	5
.....	.....	.....	.....	.....	.....	.....	8,518	.....	.....	.....	.....	6
.....	.....	.....	.....	.....	.....	.....	9,935	.....	.....	.....	.....	7
.....	.....	.....	.....	.....	.....	.....	120.4	.....	.....	.....	.....	8
7,284	7,135	1,715	4,402	5,148	1,440	10,318	21,638	660	2,604	1,037	1,145	9
.....	.....	.....	.....	.....	.....	.....	11,060	.....	.....	.....	.....	10
.....	.....	.....	.....	.....	.....	.....	19,635	.....	.....	.....	.....	11
1,557	833	469	1,223	699	367	3,423	2,861	.....	146	133	82	12
.....	.....	.....	.....	.....	.....	.....	2,542	.....	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	.....	9,700	.....	.....	.....	.....	14
6,359	7,135	1,699	3,767	5,028	1,440	8,672	20,814	660	2,604	1,037	1,145	15
.....	.....	.....	.....	.....	.....	.....	10,927	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	.....	13,452	.....	.....	.....	.....	17
.....	.....	.....	.....	.....	.....	.....	90.5	.....	.....	.....	.....	18
632	833	453	588	579	367	1,777	2,037	.....	146	133	82	19
.....	.....	.....	.....	.....	.....	.....	2,409	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	3,517	.....	.....	.....	.....	21
90.1	88.3	73.3	84.4	88.5	74.5	79.5	90.2	100.0	94.4	87.2	92.8	22
.....	.....	.....	.....	.....	.....	.....	78.0	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	73.9	.....	.....	.....	.....	24
86,655	51,280	49,120	30,475	54,133	26,090	59,064	41,150	2,110	14,681	19,274	27,896	25
71,260	50,200	45,350	27,975	51,251	20,420	56,669	39,800	2,110	12,778	18,172	27,896	26
15,395	1,080	3,770	2,500	2,882	5,670	2,395	1,350	.....	1,903	1,102	.....	27
.....	.....	.....	.....	.....	.....	.....	68,858	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	50,548	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	40.2	.....	.....	.....	.....	30
13.63	7.19	28.91	8.09	10.77	18.12	6.81	1.98	3.20	5.64	18.59	24.36	31
.....	.....	.....	.....	.....	.....	.....	6.30	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	3.76	.....	.....	.....	.....	33
15.13	8.14	39.42	9.59	12.17	24.32	8.57	2.19	3.20	5.97	21.32	26.24	34
86,805	51,280	49,120	32,400	55,433	26,090	63,109	59,850	2,110	14,681	19,274	27,896	35
11.92	7.19	28.64	7.36	10.77	18.12	6.12	2.77	3.20	5.64	18.59	24.36	36
Primary Enterprises	Sup.											
17	1	8	19	12	27	7	34	29	2	14	8	13	37
5,395	(2)	6,142	1,246	3,177	4,114	973	5,446	15,922	(2)	2,358	793	1,061	38
2,490	(2)	1,850	856	1,165	2,721	695	5,325	3,533	(2)	657	445	578	39
0.46	(2)	0.30	0.69	0.37	0.66	0.71	0.98	0.22	(2)	0.28	0.56	0.54	40
1,588	.....	1,124	.....	.....	100	.....	.....	.....	.....	252	252	28	41
0.71	.....	0.31	.....	.....	0.10	.....	.....	.....	.....	0.51	0.51	3.50	42
2,248	.....	3,770	.....	.....	980	.....	.....	.....	.....	490	490	8	43
0.71	.....	0.30	.....	.....	0.10	.....	.....	.....	.....	0.51	0.51	3.50	44
1,950	.....	759	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
13	1	8	14	13	41	6	31	30	3	15	12	14	47
3,293	(2)	6,297	1,205	3,179	4,449	959	6,265	18,721	660	2,458	904	1,063	48
6,109	(2)	17,754	11,459	1,248	15,663	1,300	18,414	32,282	522	4,883	2,316	2,891	49
1.9	(2)	2.8	9.5	0.4	3.5	1.4	2.9	1.7	0.8	2.0	2.6	2.7	50
0.62	(2)	0.31	0.63	0.37	0.66	0.70	1.06	0.22	0.22	0.28	0.56	0.54	51
0.34	(2)	0.11	0.07	0.93	0.19	0.52	0.36	0.13	0.27	0.14	0.22	0.20	52
.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
.....	.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	(2)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER				
			Snake River				
			Total[2]	Salmon Falls Creek (2)	Bruneau River (3)	East Fork Owyhee River* (4)	South Fork Owyhee River (5)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	[3]1,488	94	11	25	21	35
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	565	756	812	356	1,020	886
3	Diversion dams....1940..total number	1,896	310	79	78	54	99
4	1930..total number	1,640	296	21	60	214	.....
5	1920..total number	1,523	247	.....	31	181	.....
6	(a) Concrete and masonry....1940..number	95	1	.....	.....	1	.....
7	(b) Timber....1940..number	84	3	.....	.....	.....	3
8	(c) Earth and rock....1940..number	1,077	224	51	66	24	83
9	(d) Other, mixed, and not reported..1940..number	640	82	28	12	29	13
10	Main canals and laterals....1940..total length, miles	2,897.2	449.2	65.0	33.2	93.0	258.0
11	1930..total length, miles	4,155	321	112	51	158	.....
12	1920..total length, miles	4,368	539	.....	34	335	.....
13	(a) Earth....1940..length, miles	2,845	423	39	33	93	258
14	(b) Lined....1940..length, miles	52.2	26.2	26.0	0.2	.....	.....
15	1940..capacity, c.f.s.[4]	22,930	1,380	224	110	635	394
16	1930..capacity, c.f.s.[4]	16,986	1,022	366	117	539	.....
17	1920..capacity, c.f.s.[4]	10,554	680	.....	55	525	.....
18	Pipe lines[5]....1940..total length, miles	104.7	1.1	.....	.....	0.3	0.8
19	1930..total length, miles	90.6	0.6	.....	0.5	0.1	.....
20	1920..total length, miles	33.0	0.7	.....	0.6	0.1	.....
21	(a) Concrete....1940..length, miles	8.7	0.3	.....	.....	0.3	.....
22	(b) Metal....1940..length, miles	77.7	0.8	.....	.....	.....	0.8
23	(c) Wood-stave....1940..length, miles	12.1	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	6.2	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	122	2	.....	.....	1	1
26	1930..total number	118	1	.....	.....	1	.....
27	1920..total number	82	3	.....	1	2	.....
28	(a) Concrete and masonry....1940..number	8	2	.....	.....	1	1
29	(b) Earth and rock....1940..number	110	.....	.....	.....	.....	.....
30	(c) Other, mixed, and not reported..1940..number	4	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	200	2	.....	.....	[6]1	1
32	(a) 1-99 acre-feet capacity....1940..number	168	.....	.....	.....	.....	.....
33	(b) 100-999 acre-feet capacity....1940..number	14	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	18	2	.....	.....	1	1
35	1940..total capacity, ac.-ft.[7]	696,005	(8)	.....	.....	32,000	(8)
36	1930..total number	209	2	.....	1	1	.....
37	1930..total capacity, ac.-ft.	529,369	1,360	.....	160	1,200	.....
38	Wells, flowing....1940..number	322	.....	.....	.....	.....	.....
39	1930..number	274	.....	.....	.....	.....	.....
40	1920..number	123	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	39,835	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	19,131	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	21,942	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	167	1	.....	.....	.....	1
45	1930..number	147	1	.....	.....	1	.....
46	1920..number	129	1	.....	.....	1	.....
47	1940..yield, g.p.m.	50,938	(8)	.....	.....	.....	(8)
48	1930..yield, g.p.m.	54,162	20	.....	.....	20	.....
49	1920..yield, g.p.m.	6,798	25	.....	.....	25	.....
50	Pumping plants....1940..total number	192	2	.....	.....	.....	2
51	1930..total number	157	1	.....	.....	1	.....
52	Prime movers....1940..capacity, hp.	2,262	(8)	.....	.....	.....	(8)
53	1930..capacity, hp.	2,671	20	.....	.....	20	.....
54	1920..capacity, hp.	409	6	.....	.....	6	.....
55	(a) Electric....1940..number	46	.....	.....	.....	.....	.....
56	1940..capacity, hp.	1,040	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	103	2	.....	.....	.....	2
58	1940..capacity, hp.	1,060	(8)	.....	.....	.....	(8)
59	(c) Other....1940..number	43	.....	.....	.....	.....	.....
60	1940..capacity, hp.	162	.....	.....	.....	.....	.....
61	Pumps....1940..total number	196	2	.....	.....	.....	2
62	1930..number	173	1	.....	.....	1	.....
63	1920..number	72	1	.....	.....	1	.....
64	1940..capacity, g.p.m.	141,065	(8)	.....	.....	.....	(8)
65	1930..capacity, g.p.m.	115,648	30	.....	.....	30	.....
66	1920..capacity, g.p.m.	35,266	350	.....	.....	350	.....
67	(a) Centrifugal....1940..number	101	2	.....	.....	.....	2
68	1940..capacity, g.p.m.	86,857	(8)	.....	.....	.....	(8)
69	1940..average capacity, g.p.m.	860	(8)	.....	.....	.....	(8)
70	(b) Turbine....1940..number	25	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	41,258	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	1,650	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	62	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	1,739	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	28	.....	.....	.....	.....	.....
76	(d) Other....1940..number	8	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	11,211	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	31	(8)	.....	.....	.....	(8)
79	1930..average, feet	31	10	.....	.....	10	.....
80	1920..average, feet	22	30	.....	.....	30	.....
81	from pumped wells....1940..average, feet	31	(8)	.....	.....	.....	(8)
82	from surface sources...1940..average, feet	31	(8)	.....	.....	.....	(8)

*1930 and 1920 data are totals for the Owyhee River.

[1] Data for unidentified basins for the 1930 and 1920 Censuses are included only in State total.

[2] Data for 2 enterprises in Goose Creek Drainage Basin (1) (number refers to separate map) are included with Snake River Drainage Basin total.

[3] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

HUMBOLDT RIVER												PYRAMID LAKE		
	Upper Humboldt River							Middle Humboldt River						
Total	Total	Direct (6)	Lamoille and Rabbit Creeks (7)	North Fork Humboldt River (8)	South Fork Humboldt River (9)	Maggie Creek (10)	Pine Creek (11)	Total	Direct (12)	Reese River (13)	Little Humboldt River (14)	Lower Humboldt River (15)	Total	Direct (16)	
358	233	73	44	18	77	3	18	110	48	27	35	15	82	13	1
916	800	771	929	1,837	461	3,300	602	929	1,410	580	539	2,614	639	327	2
750	439	130	58	80	77	22	72	298	75	90	133	13	77	4	3
618	.....	.....	.....	51	30	.....	23	.....	.....	27	27	.....	65	.....	4
715	.....	.....	.....	47	161	.....	.....	.....	.....	47	6	.....	54	.....	5
38	7	3	1	2	.....	.....	1	23	10	.....	13	8	15	1	6
14	4	.....	.....	.....	1	.....	3	8	8	.....	.....	2	7	.....	7
309	158	65	19	38	6	2	28	148	13	65	70	3	41	3	8
389	270	62	38	40	70	20	40	119	44	25	50	.....	14	.....	9
569.0	197.0	91.0	23.0	55.0	13.0	5.0	10.0	304.0	86.0	79.0	139.0	68.0	315.0	21.1	10
1,303	.....	.....	.....	41	300	.....	71	.....	.....	23	41	.....	350	.....	11
1,573	.....	.....	.....	131	383	.....	1	.....	.....	241	4	.....	172	.....	12
568	196	90	23	55	13	5	10	304	86	79	139	68	310	21	13
1.0	1.0	1.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.0	0.1	14
8,481	4,956	1,413	1,378	313	1,363	254	235	2,827	1,733	382	712	698	3,199	146	15
5,253	.....	.....	.....	83	587	.....	76	.....	.....	57	260	.....	3,137	.....	16
1,204	.....	.....	.....	48	297	.....	.....	.....	.....	155	.....	.....	2,465	.....	17
12.3	6.7	.....	.....	0.5	0.2	.....	6.0	3.0	2.7	.....	0.3	2.6	6.5	1.6	18
15.3	.....	.....	.....	.....	.....	.....	1.5	.....	.....	6.2	1.0	.....	0.7	.....	19
15.7	.....	.....	.....	0.4	.....	.....	.....	.....	.....	.....	.....	.....	0.9	.....	20
0.7	.....	.....	.....	.....	.....	.....	.....	0.5	0.5	.....	.....	0.2	0.6	0.6	21
9.3	6.7	.....	0.5	0.2	.....	.....	6.0	2.2	2.2	.....	.....	0.4	2.3	1.0	22
2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.0	3.1	.....	23
0.3	.....	.....	.....	.....	.....	.....	.....	0.3	.....	.....	0.3	.....	0.5	.....	24
13	2	2	.....	.....	.....	.....	.....	7	7	.....	.....	4	16	.....	25
13	.....	.....	.....	.....	1	.....	2	.....	.....	.....	1	.....	5	.....	26
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	27
3	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....	1	1	.....	28
9	1	1	.....	.....	.....	.....	.....	5	5	.....	.....	3	15	.....	29
1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
19	2	2	.....	.....	.....	.....	.....	14	14	.....	.....	3	16	2	31
14	.....	.....	.....	.....	.....	.....	.....	12	12	.....	.....	2	15	2	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
5	2	2	.....	.....	.....	.....	.....	2	2	.....	.....	1	1	.....	34
241,062	(8)	(8)	.....	.....	.....	.....	.....	49,849	49,849	.....	.....	179,180	5,197	(8)	35
21	.....	.....	.....	.....	2	.....	3	.....	.....	1	1	.....	2	.....	36
105,611	.....	.....	.....	.....	2,150	.....	4	.....	.....	200	50	.....	1,100	.....	37
7	2	2	.....	.....	.....	.....	.....	5	3	1	1	.....	.....	.....	38
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	39
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	40
203	(8)	(8)	.....	.....	.....	.....	.....	153	137	(8)	(8)	.....	.....	.....	41
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81	.....	42
805	.....	.....	.....	.....	.....	.....	.....	.....	.....	190	.....	.....	.....	.....	43
28	7	7	.....	.....	.....	.....	.....	19	16	1	2	2	5	.....	44
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	45
18	.....	.....	.....	1	1	.....	1	.....	.....	4	.....	.....	1	.....	46
4,770	375	375	.....	.....	.....	.....	.....	3,010	2,610	(8)	(8)	(8)	4,020	.....	47
13,035	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,125	.....	48
2,540	.....	.....	.....	.....	100	.....	10	.....	.....	.....	.....	.....	250	.....	49
29	6	6	.....	.....	.....	.....	.....	21	16	1	4	2	5	.....	50
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	51
189	14	14	.....	.....	.....	.....	.....	138	112	(8)	23	(8)	44	.....	52
627	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47	.....	53
71	.....	.....	.....	8	5	.....	10	.....	.....	.....	.....	.....	6	.....	54
5	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4	.....	55
40	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	(8)	14	.....	56
18	1	1	.....	.....	.....	.....	.....	16	11	1	4	1	.....	.....	57
139	(8)	(8)	.....	.....	.....	.....	.....	131	105	(8)	23	(8)	.....	.....	58
6	1	1	.....	.....	.....	.....	.....	5	5	.....	.....	.....	1	.....	59
10	(8)	(8)	.....	.....	.....	.....	.....	7	7	.....	.....	.....	(8)	.....	60
29	6	6	.....	.....	.....	.....	.....	21	16	1	4	2	5	.....	61
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	62
10	.....	.....	.....	1	1	.....	1	.....	.....	3	.....	.....	1	.....	63
4,950	355	355	.....	.....	.....	.....	.....	3,210	2,810	(8)	380	(8)	4,020	.....	64
11,770	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,350	.....	65
22,495	.....	.....	.....	.....	100	.....	10	.....	.....	.....	.....	.....	250	.....	66
15	2	2	.....	.....	.....	.....	.....	12	8	.....	4	1	5	.....	67
3,712	(8)	(8)	.....	.....	.....	.....	.....	2,042	1,662	.....	380	(8)	4,020	.....	68
247	(8)	(8)	.....	.....	.....	.....	.....	170	208	.....	95	(8)	804	.....	69
1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	70
(8)	.....	.....	.....	.....	.....	.....	.....	(8)	(8)	.....	.....	.....	.....	.....	71
(8)	.....	.....	.....	.....	.....	.....	.....	(8)	(8)	.....	.....	.....	.....	.....	72
13	4	4	.....	.....	.....	.....	.....	8	7	1	.....	1	.....	.....	73
488	35	35	.....	.....	.....	.....	.....	418	398	(8)	.....	(8)	.....	.....	74
38	9	9	.....	.....	.....	.....	.....	52	57	(8)	.....	(8)	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
37	36	36	.....	.....	.....	.....	.....	38	42	(8)	15	(8)	10	.....	78
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	79
30	.....	.....	.....	30	12	.....	.....	.....	.....	.....	.....	.....	8	.....	80
37	36	36	.....	.....	.....	.....	.....	38	43	(8)	(8)	(8)	10	.....	81
38	35	35	.....	.....	.....	.....	.....	38	38	.....	.....	.....	.....	.....	82

[5] Includes siphons and farm pipe lines reported.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.
[7] Total capacity of all reservoirs regardless of size.
[8] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	PYRAMID LAKE—Continued					LAHONTAN
		Truckee River				Carson River*	Truckee-Carson Rivers
		Total	Direct (17)	Truckee Canal (18)	Steamboat and Washoe Valleys (19)	(20)	(21)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises.....1940..number.....	69	45	[1]2	22	109	10
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	698	694	3,344	466	329	6,677
3	Diversion dams.....1940..total number.....	73	38	2	33	91	3
4	1930..total number.....	65	31	.....	3	52	.....
5	1920..total number.....	54	23	.....	6	128	.....
6	(a) Concrete and masonry.....1940..number.....	14	9	2	3	15	.....
7	(b) Timber.....1940..number.....	7	5	.....	2	22	1
8	(c) Earth and rock.....1940..number.....	38	16	.....	22	26	1
9	(d) Other, mixed, and not reported..1940..number.....	14	8	.....	6	28	1
10	Main canals and laterals.....1940..total length, miles.....	293.9	206.8	70.0	17.1	134.0	414.0
11	1930..total length, miles.....	350	306	.....	5	667	.....
12	1920..total length, miles.....	172	145	.....	17	510	.....
13	(a) Earth.....1940..length, miles.....	289	203	70	16	132	414
14	(b) Lined.....1940..length, miles.....	4.9	3.8	.....	1.1	2.0	.....
15	1940..capacity, c.f.s.[2].....	3,053	2,415	.....	638	1,414	2,088
16	1930..capacity, c.f.s.[2].....	3,137	2,939	.....	45	4,247	.....
17	1920..capacity, c.f.s.[2].....	2,465	426	.....	2,001	3,853	.....
18	Pipe lines[3].....1940..total length, miles.....	4.9	0.6	3.8	0.5	10.3	15.4
19	1930..total length, miles.....	0.7	0.6	.....	.....	21.3	.....
20	1920..total length, miles.....	0.9	0.7	.....	.....	4.1	.....
21	(a) Concrete.....1940..length, miles.....	.....	.....	.....	.....	1.5	0.6
22	(b) Metal.....1940..length, miles.....	1.3	0.5	0.3	0.5	8.8	4.3
23	(c) Wood-stave.....1940..length, miles.....	3.1	0.1	3.0	.....	.....	6.0
24	(d) Other.....1940..length, miles.....	0.5	.....	0.5	.....	.....	4.5
25	Storage dams.....1940..total number.....	16	4	.....	12	5	1
26	1930..total number.....	5	.....	.....	2	14	.....
27	1920..total number.....	5	2	.....	1	12	.....
28	(a) Concrete and masonry.....1940..number.....	1	.....	.....	1	.....	.....
29	(b) Earth and rock.....1940..number.....	15	4	.....	11	5	1
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	.....	.....
31	Reservoirs.....1940..total number.....	14	2	.....	12	3	[1]1
32	(a) 1-99 acre-feet capacity.....1940..number.....	13	2	.....	11	1	.....
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	.....	.....	.....	1	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	.....	.....	1	1	1
35	1940..total capacity, ac.-ft.[4]..	5,163	([5])	.....	5,126	3,201	273,600
36	1930..total number.....	2	.....	.....	1	16	.....
37	1930..total capacity, ac.-ft....	1,100	.....	.....	1,000	296,913	.....
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	1	3
39	1930..number.....	3	.....	.....	.....	34	.....
40	1920..number.....	.....	.....	.....	.....	3	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	([5])	17
42	1930..yield, g.p.m.....	81	.....	.....	.....	244	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	22	.....
44	Wells, pumped.....1940..number.....	5	5	.....	.....	16	.....
45	1930..number.....	2	1	.....	.....	13	.....
46	1920..number.....	1	.....	.....	.....	1	.....
47	1940..yield, g.p.m.....	4,020	4,020	.....	.....	22,453	.....
48	1930..yield, g.p.m.....	1,125	225	.....	.....	18,910	.....
49	1920..yield, g.p.m.....	250	.....	.....	.....	50	.....
50	Pumping plants.....1940..total number.....	5	5	.....	.....	27	6
51	1930..total number.....	3	2	.....	.....	31	.....
52	Prime movers.....1940..capacity, hp.....	44	44	.....	.....	803	422
53	1930..capacity, hp.....	47	22	.....	.....	1,130	.....
54	1920..capacity, hp.....	6	.....	.....	.....	134	.....
55	(a) Electric.....1940..number.....	4	4	.....	.....	17	6
56	1940..capacity, hp.....	14	14	.....	.....	471	422
57	(b) Internal-combustion.....1940..number.....	.....	.....	.....	.....	8	.....
58	1940..capacity, hp.....	.....	.....	.....	.....	248	.....
59	(c) Other.....1940..number.....	1	1	.....	.....	2	.....
60	1940..capacity, hp.....	([5])	([5])	.....	.....	([5])	.....
61	Pumps.....1940..total number.....	5	5	.....	.....	27	6
62	1930..number.....	3	2	.....	.....	32	.....
63	1920..number.....	1	.....	.....	.....	13	.....
64	1940..capacity, g.p.m.....	4,020	4,020	.....	.....	58,903	43,084
65	1930..capacity, g.p.m.....	1,350	450	.....	.....	73,465	.....
66	1920..capacity, g.p.m.....	250	.....	.....	.....	1,650	.....
67	(a) Centrifugal.....1940..number.....	5	5	.....	.....	16	3
68	1940..capacity, g.p.m.....	4,020	4,020	.....	.....	23,975	32,313
69	1940..average capacity, g.p.m..	804	804	.....	.....	1,498	10,771
70	(b) Turbine.....1940..number.....	.....	.....	.....	.....	11	.....
71	1940..capacity, g.p.m.....	.....	.....	.....	.....	34,928	.....
72	1940..average capacity, g.p.m..	.....	.....	.....	.....	3,175	.....
73	(c) Plunger.....1940..number.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m..	.....	.....	.....	.....	.....	.....
76	(d) Other.....1940..number.....	.....	.....	.....	.....	.....	3
77	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	10,771
78	Pumping lift, from all sources.....1940..average, feet.....	10	10	.....	.....	29	24
79	1930..average, feet.....	20	10	.....	.....	32	.....
80	1920..average, feet.....	8	.....	.....	.....	12	.....
81	from pumped wells.....1940..average, feet.....	10	10	.....	.....	30	.....
82	from surface sources...1940..average, feet.....	.....	.....	.....	.....	29	24

* Data for 1930 and 1920 include a portion of the Newland Project, U. S. Bureau of Reclamation.
[1] Data for less than 3 enterprises shown with permission of the enterprises involved.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

WALKER LAKE						COLORADO RIVER								INDEPENDENT BASINS		
		Walker River						Virgin River								
										Muddy River						
Total	Direct	Total	Direct	West Walker River	East Walker River	Total	Direct	Total	Direct	Total	Direct	Meadow Valley Wash	Las Vegas Valley	Thousand Spring Creek	Clover Valley	
	(22)		(23)	(24)	(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	
67	3	64	35	18	11	224	16	102	6	96	11	85	106	12	20	1
1,256	1,718	1,235	1,417	1,225	670	76	12	134	469	113	468	67	30	408	704	2
53	1	52	30	10	12	82	.....	79	2	77	5	72	3	7	15	3
43	.....	43	38	.....	.....	51	.....	2	.....	.....	.....	.....	.....	.....	.....	4
70	.....	70	44	.....	.....	35	.....	35	.....	.....	.....	.....	.....	.....	.....	5
9	.....	9	7	2	.....	3	.....	2	.....	2	2	.....	1	.....	.....	6
1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	7
25	1	24	7	8	9	63	.....	61	.....	61	2	59	2	7	13	8
18	.....	18	15	.....	3	16	.....	16	2	14	1	13	.....	.....	.....	9
287.7	15.1	272.6	170.0	62.6	40.0	138.0	0.7	129.2	13.0	116.2	17.0	99.2	8.1	51.0	10.0	10
265	.....	265	259	.....	.....	144	3	27	.....	.....	.....	.....	.....	.....	.....	11
655	.....	655	495	.....	.....	196	.....	187	.....	.....	.....	.....	.....	.....	.....	12
281	15	266	164	62	40	137	.....	129	13	116	17	99	8	51	10	13
6.7	0.1	6.6	6.0	0.6	.....	1.0	0.7	0.2	.....	0.2	.....	0.2	0.1	.....	.....	14
1,747	143	1,604	1,043	431	130	292	1	274	23	251	53	198	17	187	390	15
1,315	.....	1,315	1,250	.....	.....	179	5	58	.....	.....	.....	.....	.....	.....	.....	16
1,267	.....	1,267	515	.....	.....	141	.....	119	.....	.....	.....	.....	.....	.....	.....	17
3.1	2.7	0.4	0.4	.....	.....	7.6	.....	5.2	0.1	5.1	0.3	4.8	2.4	6.1	0.8	18
2.7	.....	2.7	0.2	.....	.....	4.1	0.1	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	7.2	.....	4.4	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	2.5	.....	2.3	.....	2.3	0.3	2.0	0.2	0.2	.....	21
2.7	2.7	.....	.....	.....	.....	5.1	.....	2.9	0.1	2.8	.....	2.8	2.2	4.4	0.3	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	.....	23
0.4	.....	0.4	0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.5	.....	24
5	1	4	1	3	.....	14	.....	13	3	10	3	7	1	2	.....	25
2	.....	2	2	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
14	.....	14	.....	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
5	1	4	1	3	.....	14	.....	13	3	10	3	7	1	2	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
5	1	4	1	3	.....	24	.....	15	3	12	3	9	9	2	.....	31
3	.....	3	.....	3	.....	22	.....	13	3	10	1	9	9	.....	.....	32
.....	.....	.....	.....	.....	.....	2	.....	2	.....	2	2	.....	.....	.....	.....	33
2	[1]1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	34
93,280	13,000	80,280	(5)	280	.....	1,783	.....	1,765	2	1,763	1,701	62	18	(5)	.....	35
3	.....	3	2	.....	.....	15	2	.....	.....	.....	.....	.....	.....	.....	.....	36
92,002	.....	92,002	92,000	.....	.....	2,442	4	.....	.....	.....	.....	.....	.....	.....	.....	37
14	.....	14	1	13	.....	108	1	.....	.....	.....	.....	.....	107	.....	.....	38
16	.....	16	16	.....	.....	15	6	.....	.....	.....	.....	.....	.....	.....	.....	39
26	.....	26	.....	.....	.....	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
785	.....	785	(5)	735	.....	15,746	(5)	.....	.....	.....	.....	.....	15,736	.....	.....	41
576	.....	576	576	.....	.....	2,911	661	.....	.....	.....	.....	.....	.....	.....	.....	42
242	.....	242	.....	.....	.....	18,872	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
3	.....	3	3	.....	.....	47	13	11	.....	11	1	10	23	1	3	44
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
71	.....	71	50	.....	.....	7	.....	5	.....	.....	.....	.....	.....	.....	.....	46
900	.....	900	900	.....	.....	5,614	171	1,666	.....	1,666	(5)	916	3,777	(5)	130	47
.....	.....	.....	.....	.....	.....	112	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
5	.....	5	.....	.....	.....	705	.....	230	.....	.....	.....	.....	.....	.....	.....	49
3	.....	3	3	.....	.....	50	15	12	1	11	2	9	23	1	2	50
.....	.....	.....	.....	.....	.....	5	4	.....	.....	.....	.....	.....	.....	.....	.....	51
65	.....	65	65	.....	.....	296	17	89	(5)	56	(5)	48	190	(5)	(5)	52
.....	.....	.....	.....	.....	.....	39	35	.....	.....	.....	.....	.....	.....	.....	.....	53
2	.....	2	.....	.....	.....	72	.....	43	.....	.....	.....	.....	.....	.....	.....	54
2	.....	2	2	.....	.....	10	.....	5	.....	5	1	4	5	.....	.....	55
(5)	.....	(5)	(5)	.....	.....	40	.....	21	.....	21	(5)	13	19	.....	.....	56
1	.....	1	1	.....	.....	28	6	5	1	4	.....	4	17	1	1	57
(5)	.....	(5)	(5)	.....	.....	247	10	67	(5)	34	.....	34	170	(5)	(5)	58
.....	.....	.....	.....	.....	.....	12	9	2	.....	2	1	1	1	.....	1	59
.....	.....	.....	.....	.....	.....	9	7	(5)	.....	(5)	(5)	(5)	(5)	.....	(5)	60
3	.....	3	3	.....	.....	49	15	11	1	10	1	9	23	1	3	61
.....	.....	.....	.....	.....	.....	5	4	.....	.....	.....	.....	.....	.....	.....	.....	62
2	.....	2	.....	.....	.....	9	.....	7	.....	.....	.....	.....	.....	.....	.....	63
6,900	.....	6,900	6,900	.....	.....	9,042	221	4,064	(5)	2,064	(5)	1,364	4,757	(5)	(5)	64
.....	.....	.....	.....	.....	.....	4,562	4,450	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	.....	.....	.....	.....	.....	4,878	.....	2,245	.....	.....	.....	.....	.....	.....	.....	66
3	.....	3	3	.....	.....	32	6	8	1	7	1	6	18	1	2	67
6,900	.....	6,900	6,900	.....	.....	8,047	120	4,048	(5)	2,048	(5)	1,348	3,879	(5)	(5)	68
2,300	.....	2,300	2,300	.....	.....	251	20	506	(5)	293	(5)	225	216	(5)	(5)	69
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2	.....	.....	70
.....	.....	.....	.....	.....	.....	(5)	.....	.....	.....	.....	.....	.....	(5)	.....	.....	71
.....	.....	.....	.....	.....	.....	(5)	.....	.....	.....	.....	.....	.....	(5)	.....	.....	72
.....	.....	.....	.....	.....	.....	13	9	1	.....	1	.....	1	3	.....	1	73
.....	.....	.....	.....	.....	.....	135	101	(5)	.....	(5)	.....	(5)	28	.....	(5)	74
.....	.....	.....	.....	.....	.....	10	11	(5)	.....	(5)	.....	(5)	9	.....	(5)	75
.....	.....	.....	.....	.....	.....	2	.....	2	.....	2	.....	2	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	(5)	.....	(5)	.....	(5)	.....	(5)	.....	.....	.....	77
10	.....	10	10	.....	.....	21	17	21	(5)	21	(5)	20	23	(5)	(5)	78
.....	.....	.....	.....	.....	.....	14	14	.....	.....	.....	.....	.....	.....	.....	.....	79
10	.....	10	.....	.....	.....	21	.....	15	.....	.....	.....	.....	.....	.....	.....	80
5	.....	5	5	.....	.....	22	19	22	.....	22	(5)	21	23	(5)	(5)	81
13	.....	13	13	.....	.....	14	11	17	(5)	18	.....	18	.....	.....	.....	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.— ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	INDEPENDENT BASINS—Continued						
		Ruby Valley (33)	Goshute and Steptoe Valleys[1] (34)	Deep Creek (35)	Snake Valley (36)	Spring Valley (37)	Crescent, Diamond, Grass, and Newark Valleys (38)	Big Smoky Valley (39)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	26	63	14	19	22	49	27
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	1,246	167	88	213	526	427	243
3	Diversion dams....1940..total number	41	45	20	23	20	110	39
4	1930..total number	.....	63	.....	.....	.....	.....	.....
5	1920..total number	.....	14	.....	.....	.....	.....	.....
6	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....	.....
7	(b) Timber....1940..number	.....	.....	.....	3	10	.....	.....
8	(c) Earth and rock....1940..number	36	45	20	20	10	105	20
9	(d) Other, mixed, and not reported..1940..number	5	.....	.....	.....	.....	5	19
10	Main canals and laterals....1940..total length, miles	7.0	41.0	18.0	12.0	8.0	20.0	60.0
11	1930..total length, miles	.....	69	.....	.....	.....	.....	.....
12	1920..total length, miles	.....	61	.....	.....	.....	.....	.....
13	(a) Earth....1940..length, miles	7	41	18	12	8	20	51
14	(b) Lined....1940..length, miles	.....	.....	.....	.....	.....	.....	9.0
15	1940..capacity, c.f.s.[2]	433	180	16	134	285	549	212
16	1930..capacity, c.f.s.[2]	.....	68	.....	.....	.....	.....	.....
17	1920..capacity, c.f.s.[2]	.....	47	.....	.....	.....	.....	.....
18	Pipe lines[3]....1940..total length, miles	.....	4.5	0.4	2.3	5.0	4.3	1.0
19	1930..total length, miles	.....	5.8	.....	.....	.....	.....	.....
20	1920..total length, miles	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	4.5	0.4	2.3	5.0	4.3	1.0
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	.....	18	2	.....	1	1	3
26	1930..total number	.....	13	.....	.....	.....	.....	.....
27	1920..total number	.....	1	.....	.....	.....	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	1	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	.....	16	1	.....	1	1	3
30	(c) Other, mixed, and not reported..1940..number	.....	2	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	.....	29	7	4	4	2	3
32	(a) 1-99 acre-feet capacity....1940..number	.....	28	7	4	4	2	2
33	(b) 100-999 acre-feet capacity....1940..number	.....	1	.....	.....	.....	.....	1
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]	.....	800	27	19	9	(5)	620
36	1930..total number	.....	26	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	56	.....	.....	.....	.....	.....
38	Wells, flowing....1940..number	.....	1	2	.....	.....	4	18
39	1930..number	.....	2	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	(5)	(5)	.....	.....	950	855
42	1930..yield, g.p.m.	.....	33	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	6	1	2	4	2	1
45	1930..number	.....	16	.....	.....	.....	.....	.....
46	1920..number	.....	4	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	815	(5)	(5)	130	(5)	(5)
48	1930..yield, g.p.m.	.....	6,268	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	503	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	.....	6	1	2	3	2	1
51	1930..total number	.....	13	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp	.....	22	(5)	(5)	7	(5)	(5)
53	1930..capacity, hp	.....	242	.....	.....	.....	.....	.....
54	1920..capacity, hp	.....	17	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	.....	6	1	2	3	1	1
58	1940..capacity, hp	.....	22	(5)	(5)	7	(5)	(5)
59	(c) Other....1940..number	.....	.....	.....	.....	.....	1	.....
60	1940..capacity, hp	.....	.....	.....	.....	.....	(5)	.....
61	Pumps....1940..total number	.....	6	1	3	4	2	1
62	1930..number	.....	16	.....	.....	.....	.....	.....
63	1920..number	.....	4	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.	.....	815	(5)	(5)	100	(5)	(5)
65	1930..capacity, g.p.m.	.....	6,338	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	.....	1,203	.....	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	.....	1	1	1	1	.....	.....
68	1940..capacity, g.p.m.	.....	(5)	(5)	(5)	(5)	.....	.....
69	1940..average capacity, g.p.m.	.....	(5)	(5)	(5)	(5)	.....	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	1	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(5)	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	(5)	.....
73	(c) Plunger....1940..number	.....	5	.....	2	1	1	.....
74	1940..capacity, g.p.m.	.....	315	.....	(5)	(5)	(5)	.....
75	1940..average capacity, g.p.m.	.....	63	.....	(5)	(5)	(5)	.....
76	(d) Other....1940..number	.....	.....	.....	.....	2	.....	1
77	1940..capacity, g.p.m.	.....	.....	.....	.....	(5)	.....	(5)
78	Pumping lift, from all sources....1940..average, feet	.....	66	(5)	(5)	112	(5)	(5)
79	1930..average, feet	.....	22	.....	.....	.....	.....	.....
80	1920..average, feet	.....	23	.....	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	(5)	112	(5)	(5)
82	from surface sources...1940..average, feet	.....	66	(5)	(5)	.....	(5)	.....

[1] Data for 1920 and 1930 Censuses are for Steptoe Creek only.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

INDEPENDENT BASINS—Continued														
Ralston, Monitor, and Hot Creek Valleys (40)	Railroad Valley (41)	White River (42)	Pahranagat Valley (43)	Amargosa River (44)	Fish Lake Valley (45)	Smith Creek and Dixie Valley (46)	Sonoma-Clear Creeks (47)	Black Rock Desert (48)	Quinn River (49)	Cowhead and Warner Lakes (50)	Surprise Valley (51)	Smoke Creek (52)	Honey Lake (53)	
34	24	22	9	19	15	41	8	37	39	3	15	12	14	1
271	426	289	793	89	251	123	180	234	534	220	174	86	82	2
23	18	7	6	2	3	70	9	22	35	2	11	2	.....	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	65	.....	.....	.....	.....	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	5
.....	.....	3	4	.....	.....	1	2	2	2	.....	.....	.....	.....	6
2	.....	.....	.....	.....	2	7	2	6	2	.....	.....	.....	.....	7
12	1	4	2	2	1	45	4	11	15	2	11	2	.....	8
9	17	.....	.....	.....	.....	17	1	3	16	.....	.....	.....	.....	9
59.0	17.0	14.0	29.0	4.0	2.3	75.0	10.0	81.0	55.0	.....	6.0	8.0	3.0	10
.....	.....	.....	.....	.....	.....	.....	.....	.....	74	.....	.....	.....	.....	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	38	.....	.....	.....	.....	12
59	17	14	29	4	1	75	10	81	55	.....	6	8	3	13
.....	.....	.....	.....	.....	1.3	.....	.....	.....	.....	.....	.....	.....	.....	14
117	115	109	72	79	52	150	59	241	850	7	41	12	39	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	306	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	.....	.....	.....	98	.....	.....	.....	.....	17
1.6	1.2	3.0	0.6	0.6	.....	12.5	1.8	2.2	.....	.....	.....	.....	0.5	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	4.4	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	1.2	.....	0.5	0.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
1.6	.....	3.0	0.1	.....	.....	12.5	1.8	2.2	.....	.....	.....	.....	0.5	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
2	1	5	3	7	.....	9	.....	4	.....	1	1	1	5	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	27
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
2	1	5	3	6	.....	8	.....	4	.....	1	1	1	5	29
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	30
7	8	14	3	8	2	22	.....	6	.....	1	2	1	5	31
7	5	13	1	8	2	20	.....	3	.....	.....	1	1	5	32
.....	3	.....	.....	.....	.....	2	.....	2	.....	1	1	.....	.....	33
.....	.....	1	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	34
71	746	4,237	3,361	6	(5)	358	.....	4,341	.....	(5)	(5)	(5)	127	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	36
.....	.....	.....	.....	.....	.....	.....	.....	.....	1,003	.....	.....	.....	.....	37
.....	.....	.....	.....	20	.....	41	.....	26	.....	.....	15	62	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	4,490	.....	1,165	.....	12,430	.....	.....	30	3,069	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	1	7	4	2	6	16	.....	.....	4	7	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	46
.....	.....	.....	.....	(5)	1,490	653	(5)	55	3,798	.....	.....	466	1,249	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	850	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	.....	.....	.....	49
2	.....	.....	.....	1	8	4	2	6	17	.....	.....	4	8	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	51
(5)	.....	.....	.....	(5)	68	21	(5)	6	117	.....	.....	19	42	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)	56
2	.....	.....	.....	1	6	3	2	.....	12	.....	.....	1	3	57
(5)	.....	.....	.....	(5)	65	20	(5)	.....	111	.....	.....	(5)	26	58
.....	.....	.....	.....	.....	2	1	.....	6	5	.....	.....	3	3	59
.....	.....	.....	.....	.....	(5)	(5)	.....	6	6	.....	.....	3	3	60
3	.....	.....	.....	1	8	5	2	6	17	.....	.....	4	8	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	63
(5)	.....	.....	.....	(5)	1,850	883	(5)	60	3,898	.....	.....	476	1,499	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	1,700	.....	.....	.....	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	1	1	4	1	.....	7	.....	.....	1	3	67
.....	.....	.....	.....	(5)	(5)	.....	(5)	.....	1,550	.....	.....	(5)	1,210	68
.....	.....	.....	.....	(5)	(5)	.....	(5)	.....	221	.....	.....	(5)	403	69
.....	.....	.....	.....	.....	3	.....	1	.....	5	.....	.....	.....	[6] 1	70
.....	.....	.....	.....	.....	1,160	.....	(6)	.....	2,170	.....	.....	.....	250	71
.....	.....	.....	.....	.....	387	.....	(6)	.....	434	.....	.....	.....	250	72
3	.....	.....	.....	.....	4	1	.....	6	5	.....	.....	3	4	73
(5)	.....	.....	.....	.....	290	(5)	.....	60	178	.....	.....	26	39	74
(5)	.....	.....	.....	.....	72	(5)	.....	10	36	.....	.....	9	10	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
(5)	.....	.....	.....	(5)	34	17	(5)	30	43	.....	.....	20	34	78
.....	.....	.....	.....	.....	.....	.....	.....	.....	43	.....	.....	.....	.....	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	.....	.....	.....	80
.....	.....	.....	.....	(5)	30	.....	(5)	40	43	.....	.....	16	36	81
(5)	.....	.....	.....	.....	60	17	.....	25	.....	.....	.....	32	28	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Churchill	Clark	Douglas	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]						
1	All farms....1940...number....	3,573		597	362	127	
2	1930...number....	3,442		614	294	135	
3	Irrigated farms....1940...number....	3,264		562	328	125	
4	1930...number....	3,031		581	248	128	
5	Increase or decrease (-), 1930-1940....percent....	7.7		-3.3	32.3	-2.3	
	Operated by—						
6	(a) Owners and managers....1940...number....	2,811		456	277	118	
7	1930...number....	2,656		487	216	123	
8	(b) Tenants....1940...number....	453		106	51	7	
9	1930...number....	375		94	32	5	
10	Land in all farms....1940...acres....	3,785,106		101,806	24,406	132,838	
11	Land in irrigated farms....1940...acres....	3,624,536		99,152	21,753	131,458	
12	Average per farm....1940...acres....	1,110		176	66	1,052	
13	(a) Operated by owners and managers....1940...acres....	3,426,873		83,910	17,234	128,829	
14	Average per farm....1940...acres....	1,219		184	62	1,092	
15	(b) Operated by tenants....1940...acres....	197,663		15,242	4,519	2,629	
16	Average per farm....1940...acres....	436		144	89	376	
17	Approximate land area....1940...acres....	70,273,280		3,140,480	5,073,280	463,360	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres....	739,863		56,594	9,060	30,881	
19	(a) Cropland harvested....1939...acres....	459,863		46,701	7,112	18,223	
20	(b) Crop failure....1939...acres....	5,298		1,619	16	150	
21	(c) Pasture....1939...acres....	274,702		8,274	1,932	12,508	
22	Area irrigated....1929...acres....	486,648		50,990	8,051	17,516	
23	1919...acres....	561,447		41,739	5,206	23,412	
24	Increase or decrease (-), 1929-1939....percent....	52.0		11.0	12.5	76.3	
25	Irrigable area in enterprises....1940...acres....	915,689		89,414	12,769	32,206	
26	1930...acres....	983,717		131,082	15,877	20,519	
27	1920[2]...acres....	1,382,036		171,681	10,512	43,191	
28	Excess of irrigable area over the area irrigated...1940...acres....	175,826		32,820	3,709	1,325	
29	1930...acres....	497,069		80,092	7,826	3,003	
30	Area works were capable of supplying with water...1940...acres....	841,304		69,492	11,416	31,780	
31	1930...acres....	736,249		85,534	9,478	20,132	
32	1920...acres....	704,708		65,661	6,282	24,472	
33	Increase or decrease (-), 1930-1940....percent....	14.3		-18.8	20.4	57.9	
34	Excess, capability of works over area irrigated...1940...acres....	101,441		12,898	2,356	899	
35	1930...acres....	249,601		34,544	1,427	2,616	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	20.4		57.1	41.6	23.5	
37	1929...percent....	15.7		59.0	35.4	12.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	87.9		81.4	79.4	97.2	
39	1929...percent....	66.1		59.6	84.9	87.0	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars....	16,906,790		6,378,327	484,501	334,516	
41	(a) Cost of irrigation works and equipment....1940...dollars....	15,827,567		6,377,677	401,541	332,441	
42	(b) Investment in water rights (reported)....1940...dollars....	1,079,223		650	82,960	2,075	
43	Total investment in all enterprises....1930...dollars....	15,457,931		6,909,969	262,097	177,602	
44	1920...dollars....	14,754,280		7,774,129	352,332	94,311	
45	Increase or decrease (-), 1930-1940....percent....	9.4		-7.7	84.9	88.4	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	20.10		91.79	42.44	10.53	
47	1930...dollars....	21.00		80.79	27.65	8.82	
48	1920...dollars....	20.94		118.40	56.09	3.85	
49	Average investment per acre irrigated....1939...dollars....	22.85		112.70	53.48	10.83	
50	Estimated final investment in existing enterprises...1940...dollars....	18,129,554		6,416,977	508,836	340,346	
51	1930...dollars....	18,489,603		7,834,849	537,762	177,602	
52	1920...dollars....	22,648,747		13,809,936	515,332	109,311	
53	Increase or decrease (-), 1930-1940....percent....	-1.9		-18.1	-5.4	91.6	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	19.80		71.77	39.85	10.57	
55	1930...dollars....	18.80		59.77	33.87	8.66	
56	1920[2]...dollars....	16.39		80.44	49.02	2.53	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises			Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number....	1,327	10	11	130	79	3
58	Area irrigated in these enterprises....1939...acres....	688,722	84,722	56,273	8,407	28,423	2,313
59	Cost of maintenance and operation....1939...dollars....	293,859	38,705	57,724	15,156	7,101	1,457
60	Average cost, per acre irrigated....1939...dollars....	0.43	0.46	1.03	1.80	0.25	0.63
61	1929...dollars....	0.91	.....	2.41	4.23	0.95	.....
62	Total annual charges (reported)[4] [5]....1939...dollars....	304,084	87,619	206,080	14,402	1,838	2,000
63	Average annual charge per acre irrigated....1939...dollars....	1.51	1.04	3.76	2.75	0.12	1.00
64	Area against which charges were assessed....1939...acres....	218,138	102,049	63,611	5,244	15,761	2,000
65	Average annual charge per acre assessed....1939...dollars....	1.39	0.86	3.24	2.75	0.12	1.00
66	Total charges collected[4]....1939...dollars....	128,223	79,069	68,937	9,757	1,007	1,940
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	1,191,066	2,740,249	1,061,009	15,699	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number....	1,116	9	19	84	71	3
69	Area irrigated in these enterprises....1939...acres....	627,502	84,622	55,614	6,696	27,490	2,313
70	Water delivered in these enterprises....1939...acre-feet..	1,871,256	291,980	190,830	34,418	115,159	2,378
71	Average water delivered per acre irrigated....1939...acre-feet..	3.0	3.5	3.4	5.1	4.2	1.0
72	Average cost of water per acre irrigated....1939...dollars....	0.76	1.05	3.73	2.41	0.25	1.13
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number....	36	.....	[6]2	3	2	.....
74	Irrigable area in these enterprises....1939...acres....	244,984	.....	86,252	905	(1)	.....
75	Irrigated area in these enterprises....1939...acres....	180,044	.....	54,745	552	(1)	.....
76	Area for which drains have been installed....1939...acres....	97,576	.....	42,684	20	(1)	.....
77	Additional area needing drainage....1939...acres....	21,153	.....	3,860	360	(1)	.....

[a] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Less than one-tenth of 1 percent.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Elko	Esmeralda	Eureka	Humboldt	Lander	Lincoln	Lyon	Nye	Orasby	
491	25	59	226	54	217	342	141	28	1
518	24	76	195	44	155	339	142	33	2
461	20	54	186	47	180	326	131	22	3
453	14	60	159	40	134	321	111	28	4
1.8	42.9	-10.0	17.0	17.5	34.3	1.6	18.0	-21.1	5
436	18	72	172	44	151	252	118	21	6
418	14	54	140	36	121	259	105	22	7
25	2	2	14	3	29	74	13	1	8
36	.....	6	19	4	13	62	5	6	9
1,715,186	16,289	256,200	420,525	204,029	47,226	179,691	81,315	19,746	10
1,696,998	16,114	255,120	397,601	185,027	44,739	178,134	83,114	19,486	11
3,681	806	4,724	2,138	3,937	249	547	637	886	12
1,071,436	(1)	(1)	370,832	181,417	39,202	147,517	74,128	(1)	13
3,834	(1)	(1)	2,156	4,123	260	585	628	(1)	14
25,562	(1)	(1)	26,769	3,610	5,537	30,917	9,286	(1)	15
1,022	(1)	(1)	1,912	1,203	191	418	711	(1)	16
10,969,600	2,284,800	2,676,480	6,309,280	3,597,440	6,815,360	1,287,689	11,560,950	90,240	17
289,989	3,217	34,967	75,639	31,103	11,122	76,923	29,644	1,785	18
159,048	912	16,375	57,250	18,264	6,798	40,854	11,778	1,277	19
1,613	.....	45	543	209	109	186	151	8	20
109,328	2,305	18,547	17,846	12,630	4,224	35,883	11,712	509	21
172,337	1,449	15,836	35,688	10,333	8,771	81,361	12,522	1,417	22
202,724	1,685	5,086	27,884	10,400	5,826	110,902	11,354	3,146	23
56.7	122.0	120.8	111.9	201.0	26.6	-5.5	136.7	26.0	24
333,010	4,567	42,629	86,572	31,654	13,791	88,049	36,248	1,864	25
248,137	1,946	31,439	109,608	22,475	13,344	189,835	29,734	1,650	26
434,582	9,316	5,404	15,331	28,637	20,366	332,810	70,601	7,410	27
60,021	1,350	7,662	10,933	551	2,669	11,126	6,604	79	28
75,800	497	15,603	73,920	12,142	4,573	108,474	17,212	233	29
298,349	3,870	42,324	81,938	31,654	12,766	86,314	33,087	1,785	30
186,756	1,749	31,080	103,375	22,145	10,099	95,972	26,046	1,535	31
263,403	2,290	5,134	31,695	10,245	10,752	136,475	14,169	4,718	32
59.8	121.3	36.2	-20.7	42.9	26.4	-10.1	27.0	9.2	33
28,360	653	7,357	6,299	551	1,644	9,391	3,443	.....	34
14,419	300	15,244	67,687	11,812	1,328	14,611	13,524	218	35
15.9	20.0	13.7	19.0	16.8	24.9	43.1	35.5	9.2	36
13.2	12.1	10.1	10.9	8.7	32.2	48.8	17.3	15.3	37
90.5	83.1	82.6	92.3	98.3	87.1	89.1	89.6	100.0	38
92.3	82.8	51.0	34.5	48.7	86.9	84.8	48.1	86.7	39
2,014,514	36,185	218,708	196,575	136,030	163,817	1,940,815	296,835	12,889	40
1,795,401	32,385	190,669	192,320	133,801	142,476	1,924,111	218,252	42,759	41
219,113	3,800	28,039	4,255	2,229	21,341	16,704	78,583	130	42
2,053,491	38,550	248,337	470,805	137,450	72,329	2,048,900	311,118	42,900	43
1,447,201	26,849	25,211	271,719	79,332	124,536	1,740,387	260,220	54,777	44
-1.9	-6.1	-11.9	-58.2	-1.0	126.5	-5.3	-4.6	(3)	45
6.75	9.35	5.17	2.40	4.30	12.83	22.49	8.97	24.03	46
11.00	22.04	7.99	4.55	6.21	7.16	21.35	11.94	26.24	47
5.49	11.72	4.91	8.57	7.74	11.58	12.78	18.37	11.61	48
7.46	11.25	6.25	2.60	4.37	14.73	25.23	10.01	24.03	49
2,420,644	39,760	222,381	220,820	136,030	221,417	1,949,415	326,485	105,489	50
2,273,641	40,550	251,287	493,667	138,550	103,329	2,532,900	346,268	42,900	51
1,475,376	26,849	25,211	314,719	79,332	141,936	2,934,907	303,445	55,777	52
6.5	-1.9	-11.5	-55.3	-1.8	114.3	-23.0	-5.7	118.2	53
7.27	8.71	5.22	2.55	4.30	16.06	22.14	9.01	57.13	54
9.16	20.84	7.99	4.50	6.16	7.74	13.34	11.64	26.00	55
3.39	2.88	4.67	6.94	2.77	6.97	8.82	4.30	7.53	56
Primary Enterprises / Sup.			Primary Enterprises / Sup.			Primary Enterprises / Sup.		Primary Enterprises / Sup.			
354 / 1	15	50	118 / 1	42	88	63 / 1	95 / 1	8	57
263,435 / (1)	3,200	34,530	51,648 / (1)	30,943	10,844	75,765 / (1)	27,658 / (1)	1,562	58
67,442 / (1)	1,241	11,069	14,855 / (1)	10,324	8,888	21,183 / (1)	9,381 / (1)	799	59
0.26 / (1)	0.39	0.32	0.29 / (1)	0.33	0.82	0.32 / (1)	0.34 / (1)	0.47	60
0.30 /	1.12	0.62	0.71 /	0.85	2.03	0.44 /	1.45 /	1.65	61
6,559 /	.....	.....	..... /	750	2,509	28,658 / 57,085	1,400 /	460	62
0.53 /	.....	.....	..... /	0.24	0.57	0.52 / 0.88	0.23 /	0.42	63
12,976 /	.....	.....	..... /	3,120	4,604	61,869 / 80,175	6,000 /	1,100	64
0.51 /	.....	.....	..... /	0.24	0.54	0.16 / 0.71	0.23 /	0.42	65
723 /	.....	.....	..... /	.....	1,081	16,358 / 54,552	..... /	430	66
..... /	.....	.....	..... /	.....	.....	102,060 / 470,300	..... /	.....	67
242 /	16	50	112 / 1	40	84	68 / 1	51 / 1	1	68
198,588 /	3,210	31,956	67,145 / (1)	28,212	10,941	72,647 / (1)	20,321 / (1)	1,288	69
638,897 /	1,329	77,836	105,062 / (1)	63,618	38,929	190,143 / (1)	63,001 / (1)	17,908	70
3.2 /	0.4	2.4	1.6 / (1)	2.3	3.6	2.6 / (1)	3.1 / (1)	13.9	71
0.28 /	0.38	0.32	0.32 / (1)	0.31	0.78	0.51 / (1)	0.39 / (1)	0.42	72
2 /	.....	.....	..... /	5	2	9 /	..... /	.....	73
(1) /	.....	.....	..... /	2,420	(1)	82,291 /	..... /	.....	74
(1) /	.....	.....	..... /	2,247	(1)	70,585 /	..... /	.....	75
(1) /	.....	.....	..... /	.....	(1)	30,876 /	..... /	.....	76
(1) /	.....	.....	..... /	460	(1)	9,115 /	..... /	.....	77

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[6] Data for less than 3 enterprises shown with permission of the enterprises involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Pershing		Washoe		White Pine		All other counties
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[6]							
1	All farms....1940...number	108		516		189		91
2	1930...number	119		474		183		97
3	Irrigated farms....1940...number	102		475		172		73
4	1930...number	104		393		170		87
5	Increase or decrease (-), 1930-1940....percent	-1.9		20.9		1.2		-16.1
	Operated by—							
6	(a) Owners and managers....1940...number	81		406		138		71
7	1930...number	91		347		151		72
8	(b) Tenants....1940...number	21		69		34		2
9	1930...number	13		46		19		15
10	Land in all farms....1940...acres	88,032		295,347		145,448		53,722
11	Land in irrigated farms....1940...acres	84,896		214,767		142,697		52,880
12	Average per farm....1940...acres	832		452		830		724
13	(a) Operated by owners and managers....1940...acres	67,463		184,786		117,489		(1)
14	Average per farm....1940...acres	833		455		851		(1)
15	(b) Operated by tenants....1940...acres	17,433		29,981		25,208		(1)
16	Average per farm....1940...acres	830		435		741		(1)
17	Approximate land area....1940...acres	3,835,520		4,019,840		5,691,520		2,557,440
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	28,965		46,564		29,419		3,991
19	(a) Cropland harvested....1939...acres	24,685		28,766		17,701		1,119
20	(b) Crop failure....1939...acres	177		161		317		.....
21	(c) Pasture....1939...acres	4,103		17,637		11,401		2,872
22	Area irrigated....1929...acres	6,753		43,765		17,071		2,788
23	1919...acres	53,628		28,801		24,270		5,384
24	Increase or decrease (-), 1929-1939....percent	328.9		6.4		72.3		43.1
25	Irrigable area in enterprises....1940...acres	47,348		51,960		35,807		7,801
26	1930...acres	76,364		51,758		25,387		14,562
27	1920[8]...acres	62,795		78,274		47,841		13,285
28	Excess of irrigable area over the area irrigated...1940...acres	18,383		5,396		6,388		3,810
29	1930...acres	69,611		7,993		8,316		11,774
30	Area works were capable of supplying with water...1940...acres	47,165		50,722		33,143		5,499
31	1930...acres	63,160		48,727		22,419		7,942
32	1920...acres	61,940		31,610		27,932		7,930
33	Increase or decrease (-), 1930-1940....percent	-25.3		4.1		47.8		-30.8
34	Excess, capability of works over area irrigated...1940...acres	18,200		4,158		3,724		1,508
35	1930...acres	56,407		4,962		5,348		5,154
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	34.1		21.7		20.6		7.5
37	1929...percent	7.4		10.6		13.9		12.3
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	61.4		91.8		88.8		72.6
39	1929...percent	10.7		89.8		76.1		35.1
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	1,948,870		2,223,347		254,832		236,029
41	(a) Cost of irrigation works and equipment....1940...dollars	1,397,780		2,193,359		219,366		233,229
42	(b) Investment in water rights (reported)....1940...dollars	551,090		29,988		35,466		2,800
43	Total investment in all enterprises....1930...dollars	805,697		1,108,347		336,485		433,854
44	1920...dollars	550,952		658,775		1,079,188		214,361
45	Increase or decrease (-), 1930-1940....percent	141.9		100.6		-24.3		-45.6
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	41.32		43.83		7.69		42.92
47	1930...dollars	12.76		22.75		15.01		54.63
48	1920...dollars	8.89		20.84		38.64		27.03
49	Average investment per acre irrigated....1939...dollars	67.28		47.75		8.66		59.14
50	Estimated final investment in existing enterprises...1940...dollars	2,030,040		2,583,418		316,467		290,029
51	1930...dollars	810,697		1,520,392		419,805		965,404
52	1920...dollars	554,952		832,725		1,245,988		222,951
53	Increase or decrease (-), 1930-1940....percent	150.4		69.9		-24.6		-70.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	42.87		49.72		8.84		37.18
55	1930...dollars	10.62		29.38		16.54		66.30
56	1920[8]...dollars	8.84		10.64		26.04		16.77
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental	Primary Enterprises	Supplemental	Primary Enterprises	Supplemental	
57	Enterprises reporting maintenance and operation...1939...number	38	2	105	.....	127	1	4
58	Area irrigated in these enterprises....1939...acres	23,147	(1)	43,184	.....	25,846	(1)	3,857
59	Cost of maintenance and operation....1939...dollars	3,252	(1)	39,920	.....	17,683	(1)	4,901
60	Average cost, per acre irrigated....1939...dollars	0.14	(1)	0.92	.....	0.68	(1)	1.27
61	1929...dollars	1.80	.....	1.29	.....	1.30	.....	3.57
62	Total annual charges (reported)[3] [4]....1939...dollars	4,404	28,534	35,347	.....	1,588	.....	89
63	Average annual charge per acre irrigated....1939...dollars	0.53	1.67	1.20	.....	0.71	.....	0.03
64	Area against which charges were assessed....1939...acres	8,236	19,874	29,871	.....	2,248	.....	3,498
65	Average annual charge per acre assessed....1939...dollars	0.53	1.44	1.18	.....	0.71	.....	0.03
66	Total charges collected[5]....1939...dollars	3,779	22,577	24,086	.....	1,950	.....	85
67	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	1,203,570	15,298	1,066,179	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	40	2	118	.....	112	1	5
69	Area irrigated in these enterprises....1939...acres	28,962	(1)	45,920	.....	24,321	(1)	3,991
70	Water delivered in these enterprises....1939...acre-feet	88,636	(1)	187,007	.....	49,875	(1)	8,008
71	Average water delivered per acre irrigated....1939...acre-feet	3.1	(1)	4.1	.....	2.1	(1)	2.0
72	Average cost of water per acre irrigated....1939...dollars	0.56	(1)	0.95	.....	0.79	(1)	0.26
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	3	.....	6	.....	2	.....	.....
74	Irrigable area in these enterprises....1939...acres	31,138	.....	24,904	.....	(1)	.....	.....
75	Irrigated area in these enterprises....1939...acres	11,874	.....	24,808	.....	(1)	.....	.....
76	Area for which drains have been installed....1939...acres	15,000	.....	8,113	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres	.....	.....	6,006	.....	(1)	.....	.....

[6] Census of Agriculture. [1] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

	ITEM (For definitions and explanations, see text)	THE STATE	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	47,594,384	3,942,982	1,829,468	5,042,259	10,202,071	310,210	1,613,449	2,780,815
2	Land and buildings, irrigated farms.....dollars..	46,392,883	3,860,467	1,658,910	5,029,984	10,095,351	304,210	1,606,598	2,634,283
	Operated by—								
3	(a) Owners and managers.....dollars..	42,128,655	3,197,747	1,418,350	4,914,184	9,805,751	(1)	(1)	2,481,083
4	(b) Tenants.....dollars..	4,264,228	662,720	240,560	115,800	289,600	(1)	(1)	153,200
5	Average, land and buildings, per farm.....dollars..	14,213.51	6,869.16	5,057.65	40,239.87	21,898.81	15,210.50	29,751.81	14,162.81
6	per acre in farms.....dollars..	12.80	38.93	76.26	38.26	5.95	18.88	6.30	6.63
7	Buildings, irrigated farms reporting value.....number...	3,079	556	262	125	443	20	52	156
8	Total reported.....dollars..	8,971,907	861,480	447,115	951,747	1,502,287	78,185	146,900	468,080
9	Average, per irrigated farm reporting.....dollars..	2,913.90	1,549.42	1,706.55	7,613.98	3,391.17	3,909.25	2,825.00	3,000.51
10	per acre on all irrigated farms.....dollars..	2.48	8.69	20.55	7.24	0.89	4.85	0.58	1.18
11	Buildings, nonirrigated farms reporting value.....number...	246	33	25	2	23	1	4	34
12	Total reported.....dollars..	368,450	23,460	82,910	(1)	12,300	(1)	2,400	24,790
13	Average, per nonirrigated farm reporting.....dollars..	1,497.76	710.91	3,316.40	(1)	534.78	(1)	600.00	729.12
14	per acre on all nonirrigated farms.....dollars..	2.29	8.84	31.25	(1)	0.68	(1)	2.22	1.08
15	Implements and machinery, irrigated farms reporting value..number...	2,961	538	287	118	435	17	48	168
16	Total reported.....dollars..	3,612,624	423,008	203,521	340,124	696,824	37,000	64,495	275,971
17	Average, per irrigated farm reporting.....dollars..	1,220.07	786.26	709.13	2,882.41	1,601.89	2,176.47	1,343.65	1,642.68
18	per acre, on all irrigated farms.....dollars..	1.00	4.27	9.36	2.59	0.41	2.30	0.25	0.69
19	Implements and machinery, nonirrigated farms reporting value.....number...	177	25	21	.....	11	1	4	27
20	Total reported.....dollars..	108,639	12,020	16,900	.....	4,600	(1)	1,550	17,858
21	Average, per acre, on all nonirrigated farms.....dollars..	0.68	4.53	6.37	.....	0.25	(1)	1.44	0.78
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940...number.....	[2]1,475	25	140	89	364	20	56	137
23	1930...number.....	[2]1,247	24	67	47	378	13	60	141
24	1920...number.....	1,015	14	37	78	367	7	24	63
25	Average size of enterprise based on irrigable area.....1940...acres.....	621	3,577	91	362	915	228	761	632
26	1930...acres.....	789	5,462	237	437	656	150	524	777
27	1920[3]..acres.....	1,362	12,263	284	554	1,184	1,331	225	720
28	Diversion dams.....1940...number.....	1,896	8	10	80	731	3	210	206
29	Main canals and laterals.....1940...length, miles.....	2,897.2	442.0	38.8	119.0	708.2	2.3	40.0	289.0
30	1930...length, miles.....	4,155	540	100	70	1,344	23	186	356
31	1920...length, miles.....	4,368	381	126	93	1,798	5	3	98
32	1940...capacity, c.f.s.[4]....	22,930	2,108	94	1,268	7,062	56	1,049	2,431
33	1930...capacity, c.f.s.[4]....	16,986	3,507	117	457	3,446	24	601	1,692
34	1920...capacity, c.f.s.[4]....	10,554	3,141	110	460	1,297	31	18	307
35	Pipe lines[5].....1940...length, miles.....	104.7	16.4	2.5	8.3	9.5	.....	8.2	2.8
36	Storage dams.....1940...number.....	122	4	7	6	7	.....	4	3
37	Reservoirs.....1940...number.....	200	14	15	4	7	2	5	11
38	1930...number.....	209	2	22	9	15	7	3	16
39	1920...number.....	134	8	13	7	21	.....	.....	16
40	1940...capacity, acre-feet..	696,005	273,683	1,721	83,201	74,735	(1)	58	4,391
41	1930...capacity, acre-feet..	529,369	294,100	135	2,800	54,565	5	4	14,231
42	1920...capacity, acre-feet..	504,428	350,009	214	.....	40,068	.....	.....	7,452
43	Wells, flowing.....1940...number.....	322	44	108	1	2	.....	4	28
44	1930...number.....	274	29	62	5	.....	2	.....	32
45	1920...number.....	123	6	53	2	2	.....	.....	20
46	1940...yield, g.p.m.....	39,835	1,182	15,746	(1)	(1)	.....	950	12,463
47	1930...yield, g.p.m.....	19,131	1,035	8,272	120	.....	1,550	.....	1,750
48	1920...yield, g.p.m.....	21,942	615	18,872	22	.....	.....	.....	400
49	Wells, pumped.....1940...number.....	167	4	38	12	12	7	1	34
50	1930...number.....	147	9	8	9	8	11	.....	19
51	1920...number.....	129	.....	2	.....	9	.....	.....	13
52	1940...yield, g.p.m.....	50,938	653	5,758	17,228	785	1,490	(1)	6,788
53	1930...yield, g.p.m.....	54,162	1,515	2,132	17,125	495	365	.....	10,980
54	1920...yield, g.p.m.....	6,798	.....	475	.....	645	.....	.....	1,050
55	Pumping plants.....1940...number.....	192	10	42	23	11	8	1	37
56	1930...number.....	157	11	13	20	8	9	.....	19
57	1920...number.....	64	1	3	7	9	.....	.....	7
58	Prime movers.....1940...capacity, hp.....	2,262	443	256	735	32	68	(1)	252
59	1930...capacity, hp.....	2,671	315	96	704	40	35	.....	427
60	1920...capacity, hp.....	409	6	41	108	32	.....	.....	22
61	Pumps.....1940...capacity, g.p.m.....	141,065	43,967	8,328	53,678	785	1,850	(1)	7,088
62	1930...capacity, g.p.m.....	115,648	34,810	6,883	34,670	505	370	.....	11,830
63	1920...capacity, g.p.m.....	35,266	.....	4,633	.....	1,720	.....	.....	20,200
64	Pumping lift, from all sources.....1940...average, feet.....	31	19	21	31	28	34	(1)	40
65	1930...average, feet.....	31	15	13	28	35	42	.....	37
66	1920...average, feet.....	22	6	28	16	23	.....	.....	26
67	from pumped wells.....1940...average, feet.....	31	.....	22	32	30	30	(1)	40
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll.....number...	66	[7]1	2	11	1	.....	.....	[7]1
69	Irrigated area in these enterprises.....acres....	169,818	53,449	(1)	15,452	(1)	.....	.....	2,834
70	Wages and salaries paid and payable.....dollars..	160,642	1,354	(1)	2,807	(1)	.....	.....	4,563
71	Persons employed during week ending April 29.....number...	275	53	(1)	6	.....	.....	.....	5

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[2]Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5]Includes siphons and farm pipe lines reported.
[6]Pay roll and number of employees reported only by enterprises serving 5 or more farms.
[7]Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

	ITEM (For definitions and explanations, see text)	Lander	Lincoln	Lyon	Nye	Ormsby	Pershing	Washoe	White Pine	All other counties
	FARM VALUES, 1940[°]									
1	Land and buildings, all farms....dollars..	1,012,752	1,002,523	4,544,355	1,040,612	460,132	2,733,260	8,884,162	1,807,344	387,990
2	Land and buildings, irrigated farms....dollars..	980,552	949,643	4,518,555	1,007,492	438,032	2,656,530	8,519,912	1,773,094	359,270
	Operated by—									
3	(a) Owners and managers....dollars..	909,552	806,343	3,908,905	918,792	([1])	2,283,730	7,328,912	1,505,596	([1])
4	(b) Tenants....dollars..	71,000	143,300	609,650	88,700	([1])	372,800	1,191,000	267,498	([1])
5	Average, land and buildings, per farm....dollars..	20,862.81	5,275.79	13,860.60	7,690.78	19,910.55	26,044.41	17,936.66	10,308.69	4,921.51
6	per acre in farms....dollars..	5.30	21.23	25.32	12.08	22.48	31.29	39.67	12.43	6.79
7	Buildings, irrigated farms reporting value....number...	47	163	320	130	22	97	457	163	66
8	Total reported....dollars..	128,565	224,850	877,785	165,415	133,832	275,650	2,367,592	299,729	42,695
9	Average, per irrigated farm reporting....dollars..	2,735.43	1,379.45	2,743.08	1,272.42	6,083.27	2,841.75	5,180.73	1,838.83	646.89
10	per acre on all irrigated farms....dollars..	0.69	5.03	4.92	1.98	6.87	3.25	11.02	2.10	0.81
11	Buildings, nonirrigated farms reporting value....number...	6	23	13	4	6	5	38	15	14
12	Total reported....dollars..	4,900	10,950	11,850	2,500	9,570	19,400	137,485	13,110	6,150
13	Average, per nonirrigated farm reporting....dollars..	816.67	476.09	911.54	625.00	1,595.00	3,880.00	3,618.03	874.00	439.29
14	per acre on all nonirrigated farms....dollars..	0.26	4.40	9.43	2.08	36.81	6.19	1.71	4.77	7.30
15	Implements and machinery, irrigated farms reporting value..number...	46	160	305	123	20	99	372	165	60
16	Total reported....dollars..	98,278	92,727	416,903	98,888	40,725	194,410	453,006	160,550	16,194
17	Average, per irrigated farm reporting....dollars..	2,136.48	579.54	1,366.90	803.97	2,036.25	1,963.74	1,217.76	973.03	269.90
18	per acre, on all irrigated farms....dollars..	0.53	2.07	2.34	1.19	2.09	2.29	2.11	1.13	0.31
19	Implements and machinery, nonirrigated farms reporting value....number...	7	17	10	4	2	6	23	11	8
20	Total reported....dollars..	3,625	8,685	5,045	4,425	([1])	14,850	8,781	4,650	2,500
21	Average, per acre, on all nonirrigated farms....dollars..	0.19	3.49	4.01	3.68	([1])	4.74	0.11	1.69	2.97
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
22	Enterprises....1940...number....	44	93	74	105	12	43	124	143	6
23	1930...number....	43	36	28	108	11	47	126	105	13
24	1920...number....	41	49	40	95	20	16	87	50	27
25	Average size of enterprise based on irrigable area....1940...acres....	719	148	1,190	345	155	1,101	419	250	1,300
26	1930...acres....	523	371	6,780	275	150	1,625	411	242	.....
27	1920[2]..acres....	698	416	8,320	743	370	3,925	900	957	492
28	Diversion dams....1940...number....	181	78	63	55	2	75	89	102	3
29	Main canals and laterals....1940...length, miles....	109.0	128.2	316.6	184.0	5.0	145.0	248.0	92.0	30.1
30	1930...length, miles....	108	85	337	205	9	140	389	218	45
31	1920...length, miles....	198	120	572	169	30	156	316	210	93
32	1940...capacity, c.f.s.[3]....	513	270	1,577	726	173	1,464	1,799	686	1,654
33	1930...capacity, c.f.s.[3]....	319	113	2,210	235	135	1,398	936	217	1,579
34	1920...capacity, c.f.s.[3]....	39	47	1,097	423	133	266	2,612	282	291
35	Pipe lines[4]....1940...length, miles....	1.5	5.7	3.8	4.1	2.4	13.5	4.2	16.9	4.9
36	Storage dams....1940...number....	1	10	3	13	.....	10	27	25	2
37	Reservoirs....1940...number....	1	12	3	32	.....	13	28	52	[5]1
38	1930...number....	1	10	2	17	5	16	20	63	1
39	1920...number....	.....	6	3	13	5	3	29	7	3
40	1940...capacity, acre-feet..	([1])	3,423	280	5,527	.....	229,065	5,752	1,007	13,000
41	1930...capacity, acre-feet..	200	3,923	92,000	12,067	13	49,072	3,145	3,107	2
42	1920...capacity, acre-feet..	.....	354	1,500	1,354	50,060	32,003	16,626	4,783	5
43	Wells, flowing....1940...number....	3	.....	14	38	.....	.....	77	3	.....
44	1930...number....	4	.....	16	27	27	.....	67	3	.....
45	1920...number....	1	.....	26	9	1	.....	.....	3	.....
46	1940...yield, g.p.m....	120	.....	785	5,345	.....	.....	3,099	65	.....
47	1930...yield, g.p.m....	65	.....	576	2,595	121	.....	2,294	753	.....
48	1920...yield, g.p.m....	25	.....	242	410	.....	.....	.....	1,356	.....
49	Wells, pumped....1940...number....	1	9	5	2	2	4	22	14	.....
50	1930...number....	1	.....	2	20	2	15	12	25	6
51	1920...number....	5	5	21	7	1	2	1	10	53
52	1940...yield, g.p.m....	([1])	216	2,925	([1])	([1])	3,385	5,790	2,110	.....
53	1930...yield, g.p.m....	30	.....	1,650	1,710	135	7,100	2,965	6,500	1,460
54	1920...yield, g.p.m....	10	230	5	360	50	910	250	2,788	25
55	Pumping plants....1940...number....	1	8	5	4	2	4	23	13	.....
56	1930...number....	3	.....	2	14	2	13	15	23	5
57	1920...number....	4	5	3	8	3	2	2	9	1
58	Prime movers....1940...capacity, hp....	([1])	40	75	28	([1])	87	111	48	.....
59	1930...capacity, hp....	21	.....	63	112	8	312	182	298	58
60	1920...capacity, hp....	10	31	2	35	20	17	12	73	.....
61	Pumps....1940...capacity, g.p.m....	([1])	714	8,925	840	([1])	3,385	6,055	2,080	.....
62	1930...capacity, g.p.m....	415	.....	1,650	1,945	95	5,450	8,945	6,620	1,460
63	1920...capacity, g.p.m....	10	245	.....	350	1,650	915	1,850	3,668	25
64	Pumping lift, from all sources....1940...average, feet....	([1])	19	16	49	([1])	25	24	70	.....
65	1930...average, feet....	10	.....	34	28	66	28	21	43	50
66	1920...average, feet....	.....	16	10	19	10	78	11	21	17
67	from pumped wells....1940...average, feet....	([1])	19	18	([1])	([1])	25	23	89	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]									
68	Enterprises reporting pay roll....number...	.....	6	16	2	.....	4	19	2	[5]1
69	Irrigated area in these enterprises....acres....	.....	4,042	40,886	([1])	.....	6,139	28,964	([1])	3,498
70	Wages and salaries paid and payable....dollars..	.....	1,470	18,123	([1])	.....	11,757	76,636	([1])	36,209
71	Persons employed during week ending April 29....number...	.....	.....	37	.....	.....	14	93	([1])	22

[°] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[4] 77,767,040	78,401,920	78,401,920	78,401,920	78,401,920	78,401,920	78,401,920
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	34,105	41,369	31,404	29,844	35,676	12,311	4,458
Land in all farms.....acres....	38,860,427	34,397,205	30,822,034	24,409,633	11,270,021	5,130,878	787,882
Farms irrigated:[1]							
Farms.....number...	15,811	17,093	14,347	11,390	12,795	9,128	3,085
Increase or decrease (-) over preceding census....percent..	[2] 10.2	19.1	26.0	-11.0	40.2	195.9	.....
Proportion of all farms.....percent..	46.4	41.3	45.7	38.2	35.9	74.1	69.2
Land in farms.....acres....	7,408,997	[3]	5,024,868	[3]	[3]	[3]	[3]
Proportion of all farm land.....percent..	19.1	[3]	16.3	[3]	[3]	[3]	[3]
Area irrigated.....acres....	[4] 436,402	[5] 314,319	[6] 371,269	[7]	[7]	203,893	91,745
Increase or decrease (-) over preceding census....percent..	[2] 17.5	.....	.....	.....	.....	122.2	.....
Proportion of total land area of State.....percent..	0.6	0.4	0.5	.....	.....	0.3	0.1
Proportion of all farm land.....percent..	1.1	0.9	1.2	.....	.....	4.0	11.6
Value of irrigated farms (land and buildings).....dollars..	82,619,776	[3]	87,868,916	[3]	[3]	[3]	[3]
Average per farm.....dollars..	5,225.46	[3]	6,124.55	[3]	[3]	[3]	[3]
Average per acre.....dollars..	11.15	[3]	17.49	[3]	[3]	[3]	[3]
Value of farm implements and machinery[8].....dollars..	6,937,641	[3]	5,291,569	[3]	[3]	[3]	[3]
Average per farm[8].....dollars..	438.79	[3]	368.83	[3]	[3]	[3]	[3]
Average per acre[8].....dollars..	0.94	[3]	1.05	[3]	[3]	[3]	[3]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	2,503	[3]	1,965	2,391	2,786	[3]	[3]
Farms irrigated.....number...	31,683	[3]	[3]	[3]	[3]	[3]	[3]
Area irrigated.....acres....	554,039	[3]	527,033	538,377	461,718	[3]	[3]
Area existing works were capable of supplying with water.....acres....	731,990	[3]	656,669	696,119	644,970	[3]	[3]
Area irrigable.....acres....	807,656	[3]	741,245	[9] 961,879	[9] 1,102,297	[3]	[3]
Additional area existing works were capable of supplying with water.....acres....	177,951	[3]	129,636	157,742	183,252	[3]	[3]
Additional irrigable area in enterprises not supplied with water.....acres....	253,617	[3]	214,212	[9] 423,502	[9] 640,579	[3]	[3]
Investment in irrigation enterprises.....dollars..	32,735,997	[3]	19,834,380	18,210,412	9,154,897	4,165,312	511,937
Increase or decrease (-) over preceding census.....percent..	[2] 65.0	[3]	8.9	98.9	119.8	713.6	.....
Average per acre based on area works were capable of supplying with water.....dollars..	44.72	[3]	30.20	26.16	14.19	[3]	[3]
Increase or decrease (-) over preceding census....percent..	[2] 48.1	[3]	15.4	84.4	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	36,773,139	[3]	21,942,450	20,440,646	11,640,091	[3]	[3]
Average per acre based on irrigable area in enterprises.....dollars..	45.53	[3]	29.60	[9] 21.25	[9] 10.56	[3]	[3]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	2.11	[3]	2.15	2.41	1.36	[3]	[3]

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 27,051 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [*] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	34,105	38,860,427	1,572,507	409,351	27,051	187,525,814	4.83	28,253,456	0.73	15,212,674	0.39
Owners and managers	28,294	34,674,858	1,161,076	312,488	22,775	157,640,909	4.55	24,169,785	0.70	12,340,615	0.36
Tenants	5,811	4,185,569	411,431	96,863	4,276	29,884,905	7.14	4,083,671	0.98	2,872,059	0.69
Irrigated farms, total	15,811	7,408,997	448,203	409,351	27,051	82,619,776	11.15	14,976,063	2.02	6,937,641	0.94
Owners and managers	13,396	6,501,491	343,317	312,488	22,775	67,593,251	10.40	12,774,932	1.96	5,725,157	0.88
Tenants	2,415	907,506	104,886	96,863	4,276	15,026,525	16.56	2,201,131	2.43	1,212,484	1.34
Wholly irrigated farms	14,111	5,259,705	375,753	375,753	20,997	69,341,215	13.18	13,075,756	2.49	6,132,181	1.17
Owners and managers	11,919	4,825,825	285,125	285,125	17,442	57,260,430	11.87	11,210,579	2.32	5,035,730	1.04
Tenants	2,192	433,880	90,628	90,628	3,555	12,080,785	27.84	1,865,177	4.30	1,096,451	2.53
Partly irrigated farms	1,700	2,149,292	72,450	33,598	6,054	13,278,561	6.18	1,900,307	0.88	805,460	0.37
Owners and managers	1,477	1,675,666	58,192	27,363	5,333	10,332,821	6.17	1,564,353	0.93	689,427	0.41
Tenants	223	473,626	14,258	6,235	721	2,945,740	6.22	335,954	0.71	116,033	0.24
Nonirrigated farms, total	18,294	31,451,430	1,124,304	.....	.....	104,906,038	3.34	13,277,393	0.42	8,275,033	0.26

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	2,503	807,656	731,990	554,039	527,033	538,377	5.1	474,184	519,593	457,878	3.0	2.82	0.92
Primary sources:													
Streams, gravity	1,021	492,792	435,022	343,684	430,099	432,478	-20.1	271,984	325,018	268,350	2.4	1.60	0.68
Streams, pumped	47	6,136	5,903	3,887	6,856	1,890	-43.3	3,875	3,869	3,869	3.0	2.08	0.69
Streams, gravity and pumped	8	110,875	110,675	70,129	.....	.....	.....	70,129	70,089	70,089	6.6	6.76	1.03
Wells, pumped	1,026	108,015	102,953	75,556	30,425	15,709	148.3	74,341	70,741	70,236	2.6	4.26	1.61
Wells, flowing	115	14,953	13,944	11,533	21,838	30,030	-47.2	11,512	4,457	4,457	2.4	1.05	0.44
Wells, pumped and flowing	52	13,986	13,704	11,729	5,855	6,556	100.3	11,729	10,876	10,876	2.5	2.69	1.10
Lakes, gravity	2	410	410	374	385	1,945	-2.9	374	374	374	3.4	0.31	0.09
Lakes, pumped	1												
Springs	86	6,712	5,204	3,136	5,595	10,791	-43.9	1,673	1,976	1,198	2.3	1.46	0.63
Springs and streams	12	5,016	4,986	3,973	.....	.....	.....	2,346	2,655	2,328	1.5	0.39	0.27
Stored storm water	8	1,344	961	650	1,720	6,448	-62.2	619	640	613	2.0	1.92	0.97
City water	2	139	139	114	157	40	-27.4	4	4	4	5.0	1.25	0.25
Sewage	1												
Streams, gravity; wells, pumped	32	3,420	3,401	2,565	1,015	2,026	152.7	2,474	2,536	2,457	2.4	2.89	1.18
Streams, gravity; wells, flowing	2												
Streams, pumped; wells, pumped	4	2,578	2,578	2,423	.....	.....	.....	2,423	2,423	2,423	2.0	0.80	0.40
Waste water, seepage or drainage	5	537	537	376	.....	.....	.....	162	167	162	2.7	0.71	0.26
Other mixed	27	40,743	31,573	23,910	19,501	29,787	22.6	20,539	23,768	20,442	2.4	1.10	0.45
Other and not reported	.....	.....	.....	.....	3,587	677	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[2]													
Streams, gravity and/or storage	2	132	132	92	20	.....	360.0	66	64	38	1.1	0.53	0.49
Streams, pumped	1												
Wells, pumped	48	5,783	5,780	5,031	.....	.....	.....	5,031	5,019	5,019	1.5	2.01	1.32
Wells, flowing	1			.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	32,735,997	100.0	44.72	19,834,380	100.0	30.20	14.52	516,916	2.11	493,229	2.15	-0.04	336,387	2.41
Primary sources:														
Streams, gravity	17,320,656	52.9	39.82	16,314,802	82.2	30.20	9.62	322,341	1.38	419,977	1.87	-0.49	257,818	1.65
Streams, pumped	83,892	0.3	14.21	334,111	1.7	33.18	-18.97	3,869	2.08	6,848	2.01	0.07	1,132	1.30
Streams, gravity and pumped	10,411,418	31.8	94.07	.....	.....	.....	.....	70,089	3.74	.....	.....	.....	.....	.....
Wells, pumped	2,312,580	7.1	22.46	1,312,396	6.6	38.75	-16.29	70,741	4.27	27,586	6.44	-2.17	12,388	7.51
Wells, flowing	420,372	1.3	30.15	877,281	4.4	37.55	-7.40	4,457	1.05	4,648	2.17	-1.12	14,394	2.15
Wells, pumped and flowing	401,119	1.2	29.27	251,863	1.3	36.61	-7.34	10,876	2.69	5,855	3.00	-0.31	4,601	8.99
Lakes, gravity	1,500	(3)	3.66	30,800	0.2	52.65	-48.99	374	0.31	385	4.17	-3.86	1,945	1.41
Lakes, pumped														
Springs	108,467	0.3	20.84	70,155	0.4	9.89	10.95	1,976	1.32	4,013	1.55	-0.23	7,452	1.92
Springs and streams	49,980	0.2	10.02	.....	.....	.....	.....	2,655	0.56	.....	.....	.....	.....	.....
Stored storm water	29,119	0.1	30.30	56,421	0.3	15.17	15.13	640	2.03	1,650	1.91	0.12	6,207	1.67
City water	675	(3)	4.86	375	(3)	2.39	2.47	4	1.25	.....	.....	.....	40	1.25
Sewage														
Streams, gravity; wells, pumped	73,933	0.2	22.41	86,301	0.4	92.30	-69.89	2,535	2.89	655	1.13	1.76	1,319	39.77
Streams, gravity; wells, flowing	3,925	(3)	38.48	2,500	(3)	6.94	31.54	1	10.00	360	0.83	9.17	500	1.00
Streams, pumped; wells, pumped	30,625	0.1	11.88	.....	.....	.....	.....	2,423	0.80	.....	.....	.....	.....	.....
Waste water, seepage or drainage	2,100	(3)	3.91	.....	.....	.....	.....	167	0.80	.....	.....	.....	.....	.....
Other mixed	1,378,932	4.2	43.67	458,825	2.3	17.76	25.91	23,768	0.63	17,723	1.65	-1.02	28,534	4.84
Other and not reported	.....	.....	.....	33,550	0.2	9.22	.....	.....	.....	3,529	3.62	.....	57	4.91
Supplemental sources:[4]														
Streams, gravity and/or storage	2,131	(3)	16.14	5,000	(3)	250.00	-233.86	64	0.59	20	38.15	-37.56	.....	.....
Streams, pumped														
Wells, pumped	104,573	0.3	18.09	.....	.....	.....	.....	5,019	2.01	.....	.....	.....	.....	.....
Wells, flowing				.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Based on irrigated area in enterprises reporting cost of maintenance and operation. [2]Based on area works were capable of supplying with water. [3]Less than one-tenth of 1 percent. [4]Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	554,039	5,123	527,033	538,377	5.1
Individual and partnership	151,366	5,123	130,738	151,351	15.8
Cooperative, incorporated	45,030	.....	233,286	264,610	-27.9
Cooperative, unincorporated	123,156	.....			
Irrigation district	86,675	.....	22,000	15,008	294.0
Commercial	[2] 22,637	.....	16,192	19,871	3.98
Bureau of Reclamation[3] *	98,064	.....	103,090	77,678	-4.9
Office of Indian Affairs[3]	27,111	.....	20,824	9,072	30.2
State	.....	.....	20	77	.....
City and/or sewage	(2)	.....	.....	600	.....
Other	.....	.....	883	110	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	731,990	5,912	656,669	696,119	11.5
Individual and partnership	199,699	5,912	155,802	215,618	28.2
Cooperative, incorporated	57,699	.....	276,581	305,540	-30.7
Cooperative, unincorporated	133,845	.....			
Irrigation district	133,512	.....	37,000	24,808	260.8
Commercial	[2] 32,589	.....	28,212	33,743	15.5

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Bureau of Reclamation[3] *	115,695	.....	111,035	96,751	4.2
Office of Indian affairs[3]	58,951	.....	41,989	11,372	40.4
State	.....	.....	20	77	.....
City and/or sewage	(2)	.....	.....	600	.....
Other	.....	.....	6,030	7,610	.....
IRRIGABLE AREA[4]					
Total	807,656	5,915	741,245	961,879	9.0
Individual and partnership	208,686	5,915	165,264	313,170	26.3
Cooperative, incorporated	69,361	.....	324,300	404,028	-34.6
Cooperative, unincorporated	142,743	.....			
Irrigation district	139,212	.....	43,500	28,520	220.0
Commercial	[2] 45,196	.....	33,392	67,050	35.3
Bureau of Reclamation[3] *	125,889	.....	113,035	127,226	11.4
Office of Indian Affairs[3]	76,569	.....	55,704	13,570	37.5
State	.....	.....	20	77	.....
City and/or sewage	(2)	.....	.....	600	.....
Other	.....	.....	6,030	7,638	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data for 1 "City and/or sewage" are included with "Commercial" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 418.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises Works and equipment per acre[2]	AVERAGE COST Primary enterprises Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises Maintenance and operation per acre[3]
Total	*Number* 2,503	*Number* 509	*Acres* 807,656	*Acres* 731,990	*Dollars* 43.97	*Dollars* 2.09	*Dollars* 17.40	*Dollars* 2.00
Individual and partnership	2,015	51	208,686	199,699	21.98	2.97	17.40	2.00
Cooperative, incorporated	83	79	69,361	57,699	30.42	0.77	.....	.....
Cooperative, unincorporated	361	336	142,743	133,845	22.26	0.85	.....	.....
Irrigation district	11	11	139,212	133,512	83.23	3.41	.....	.....
Commercial	5	5	[4] 45,196	[4] 32,589	[4] 25.13	[4] 0.42	.....	.....
U. S. Bureau of Reclamation*	[5] 2	2	125,889	115,695	67.08	2.12	.....	.....
U. S. Office of Indian Affairs	25	24	76,569	58,951	57.22	2.02	.....	.....
State	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	1	1	(4)	(4)	(4)	(4)	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1] Farms served	Total area ✓	Cropland From which crops were harvested	Cropland On which crops failed	Irrigated pasture
Total	*Number* 31,683	*Acres* 554,039	*Acres* 512,441	*Acres* 21,069	*Acres* 20,529
Individual and partnership	2,922	151,366	140,044	2,967	8,355
Cooperative, incorporated	2,557	45,030	39,812	3,530	1,688
Cooperative, unincorporated	9,831	123,156	107,834	8,179	7,143
Irrigation district	9,452	86,675	83,598	2,157	920
Commercial	[4] 204	[4] 22,637	[4] 21,801	[4] 40	[4] 796
U. S. Bureau of Reclamation*	3,111	98,064	92,602	4,096	1,366
U. S. Office of Indian Affairs	3,606	27,111	26,750	100	261
State	.....	.....	.....	.....	.....
City and/or sewage	(4)	(4)	(4)	(4)	(4)
Other	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprises involved. * For explanation of areas and investment, see text, p. 418.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40
Total	*Dollars* 32,735,997	*Dollars* 32,629,293	*Dollars* 106,704	*Dollars* 32,290,856	*Dollars* 445,141	*Dollars* 19,834,380	*Dollars* 18,210,412	*Percent* 65.0
Individual and partnership	4,531,158	4,424,454	106,704	4,491,305	39,853	3,814,458	5,589,372	18.8
Cooperative, incorporated	1,950,969	1,950,969	.....	1,755,381	195,588	3,016,075	3,558,863	64.9
Cooperative, unincorporated	3,022,191	3,022,191	.....	2,979,069	43,122			
Irrigation district	11,165,731	11,165,731	.....	11,112,222	53,509	1,289,180	914,479	766.1
Commercial	[2] 931,994	[2] 931,994	.....	[2] 818,925	[2] 113,069	1,543,000	1,877,842	[2] 39.6
U. S. Bureau of Reclamation*	7,760,844	7,760,844	.....	7,760,844	.....	8,684,489	5,020,230	-10.6
U. S. Office of Indian Affairs	3,373,110	3,373,110	.....	3,373,110	.....	1,231,928	691,194	173.8
State	.....	.....	.....	.....	.....	5,000	18,544	.....
City and/or sewage	(2)	(2)	.....	(2)	(2)	.....	276,299	.....
Other	.....	.....	.....	.....	.....	250,250	263,589	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	*Dollars* 44.58	*Dollars* 18.05	*Dollars* 735,844	*Dollars* 4,037,142
Individual and partnership	22.16	18.05	2,261	58,268
Cooperative, incorporated	33.81	.....	135,718	107,925
Cooperative, unincorporated	22.58	.....	54,439	75,730
Irrigation district	83.63	.....	30,235	8,000
Commercial	[2] 28.60	.....	.....	[2] 35,000
U. S. Bureau of Reclamation*	67.08	.....	144,263	352,969
U. S. Office of Indian Affairs	57.22	.....	368,928	3,399,250
State	.....	.....	.....	.....
City and/or sewage	(2)	.....	.....	(2)
Other	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. * For explanation of investment, see text, p. 418.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE[1], CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING					ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	57	417,978	366,615	16,715,813	48.68	45.60	6	560,392	520,067	30.40	483,407	966,767	1,037,433
Partnership	2	(3)	(3)	(3)	(3)	(3)	.....	.....	(4)	.....	8,603	12,157	1,303
Cooperative, incorporated	8	34,214	25,730	779,302	27.18	30.29	2	537,410	[4]502,208	79.72	53,888	44,999	52,417
Cooperative, unincorporated	11	[3]12,275	[3]12,075	[3]9,134	[3]0.79	[3]0.76	1				113,904	98,712	28,737
Irrigation district	7	135,273	129,573	9,294,472	69.23	71.73	2	22,982	17,859	1.14	135,404	525,300	637,788
Commercial	4	44,916	32,416	127,861	5.70	3.94	1				[5]22,536	[5]21,612	[5]15,784
Bureau of Reclamation[6] *	[7]2	125,889	115,695	[8]5,383,640	45.65	46.53	.....	.....	.....	.....	117,935	216,022	301,404
Office of Indian Affairs[6]	23	65,411	51,126	[9]1,121,404	39.12	21.93	.....	.....	.....	.....	31,137	47,965	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)	(5)	(5)
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Only for enterprises serving 5 or more farms. No supplemental enterprises reported indebtedness in this State. [2]In payment of principal, interest, and/or other funded obligations. [3]Data for 2 "Partnership" enterprises are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [4]Data for "Partnership" enterprises are included with "Cooperative" enterprises in the 1940 Census. [5]Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. [6]U. S. Dept. of the Interior. [7]Data for less than 3 enterprises shown with permission of the enterprises involved. [8]Represents indebtedness of irrigation districts to the U. S. Government. [9]Represents construction costs of irrigation works less cancellations and repayments. *For explanation of areas and investment, see text, p. 418.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary Enterprises: Irrigated area reporting 1939	Primary Enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	516,916	1,082,768	5,083	10,142	2.09	2.00	205	718,210	1,773
Individual and partnership	133,998	398,142	5,083	10,142	2.97	2.00	22	5,302	221
Cooperative, incorporated	42,097	32,232	.....	.....	0.77	.....	29	41,792	255
Cooperative, unincorporated	108,934	93,090	.....	.....	0.85	.....	115	43,000	441
Irrigation district	84,365	287,753	.....	.....	3.41	.....	8	214,127	231
Commercial	[2]22,587	[2]9,479	.....	.....	[2]0.42	.....	4	[2]11,802	[2]15
U. S. Bureau of Reclamation *	98,064	297,905	.....	.....	2.12	.....	2	169,171	114
U. S. Office of Indian Affairs	26,871	54,167	.....	.....	2.02	.....	24	233,016	496
State	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	(2)	(2)	.....	.....	(2)	.....	1	(2)	(2)
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Only for enterprises serving 5 or more farms. [2]Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. *For explanation of areas and investment, see text, p. 418.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	1,072	141	16,821	4,567	80.9	502	3,280,550	36.5	268	181,076	1,487	1,143,276	1,558	40,110	1,559	1,309,005
Individual and partnership	576	60	2,906	851	10.1	415	7,525	17.3	255	170,416	1,487	1,143,276	1,549	39,929	1,551	1,289,640
Cooperative, incorporated	67	20	2,788	438	21.4	24	14,313	2.1	.....	.....	.....	.....	1	25	1	1,600
Cooperative, unincorporated	309	14	3,585	1,295	4.2	15	24,543	5.6	1	300	.....	.....	4	66	3	1,515
Irrigation district	14	6	3,703	935	0.2	6	280,228	6.7	.....	.....	.....	.....	4	90	4	16,250
Commercial	[3]8	4	[3]827	[3]101	0.1	4	99,139	0.1	5	10,000	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[4]	4	4	2,400	378	24.9	5	2,834,000	0.1	.....	.....	.....	.....	.....	.....	.....	.....
Office of Indian Affairs[4]	94	33	612	569	20.0	33	20,802	4.6	7	360	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	(3)	.....	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1]Includes main and lateral canals but not farm ditches. [2]Includes flumes. [3]Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. [4]U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	1,072	141	665	69	Earth and rock	475	124	.....	29
					Other and mixed	[1] 365	6	[1] 525	23
Concrete or masonry	121	7	56	12	Not reported	9	3	25	5
Timber	102	1	59	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	1,559	100.0	1,309,005	100.0	44
Electric motor	**403**	**25.8**	**299 719**	**22.9**	**46**
Centrifugal	141	9.0	113,969	8.7	27
Turbine	257	16.5	182,928	14.0	58
Plunger	2	0.1	22	[1]	28
Other	3	0.2	2,800	0.2	47
Internal-combustion engine	**933**	**59.8**	**849,360**	**64.9**	**44**
Centrifugal	389	25.0	344,388	26.3	30
Turbine	512	32.8	495,157	37.8	56
Plunger	22	1.4	1,015	0.1	44
Other	10	0.6	8,800	0.7	40
Other kinds of motive power	**46**	**3.0**	**9,547**	**0.7**	**39**
Centrifugal	3	0.2	8,065	0.6	32
Turbine	.....	.....	.....	.....	.....
Plunger	40	2.6	465	[1]	39
Other	3	0.2	1,017	0.1	43
Mixed kinds of motive power	**177**	**11.4**	**150,379**	**11.5**	**41**
Centrifugal	59	3.8	45,509	3.5	29
Turbine	96	6.2	103,325	7.9	46
Plunger	20	1.3	404	[1]	54
Other	2	0.1	1,150	0.1	28
Total, 1930	738	.....	555,063	.....	40
Increase or decrease (-) 1930-1940	821	.....	753,942	.....	4

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	1,558	100.0	40,110	100.0
Centrifugal pump	**549**	**35.2**	**12,600**	**31.4**
Electric	151	9.7	2,040	5.1
Internal-combustion	393	25.2	10,359	25.8
Other	5	0.3	201	0.5
Turbine pump	**814**	**52.2**	**24,497**	**61.1**
Electric	284	18.2	5,080	12.7
Internal-combustion	530	34.0	19,417	48.4
Other	.....	.....	.....	.....
Plunger pump	**86**	**5.6**	**191**	**0.5**
Electric	1	0.1	11	[1]
Internal-combustion	31	2.0	95	0.2
Other	54	3.5	85	0.2
Other and mixed types of pumps	**109**	**7.0**	**2,822**	**7.0**
Electric	38	2.4	579	1.4
Internal-combustion	65	4.2	2,197	5.5
Other	6	0.4	46	0.1
Total, 1930	[2] 702	.....	14,483	.....
Increase or decrease (-) 1930-1940	856	.....	25,627	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940 [1]	1930 [2]	
	Miles	*Miles*	*Percent*
Total	36.5	15.2	140.1
Concrete:			
1 to 12 inches	1.4	0.7	100.0
13 to 24 inches	1.5	.....	.....
Over 24 inches	5.8		
Metal:			
1 to 12 inches	13.1	9.1	44.0
13 to 24 inches	4.6	0.9	822.2
Over 24 inches	3.7		
Wood-stave:			
1 to 12 inches	1.3	2.1	-38.1
13 to 24 inches	0.6	1.4	50.0
Over 24 inches	1.5		
Clay and other:			
1 to 12 inches	3.0	0.8	275.0
13 to 24 inches	.....	0.2	.....
Over 24 inches	.....		

[1] Includes siphons and farm pipe lines reported.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include those of the Elephant Butte Irrigation District of the Rio Grande Project and the Carlsbad Irrigation District of the Carlsbad Project.

The investment attributed to the Bureau of Reclamation in State table 7 relates to construction costs incurred by the Government for irrigation facilities which are charged to lands in New Mexico served by the Rio Grande Project and those of the Carlsbad Project. Excluded from this total are drainage costs and the outlay for Elephant Butte Dam, which is to be repaid from power revenues arising from the operation of a power plant at the dam, and Caballo Dam, both of which serve the Rio Grande Project in New Mexico and Texas. Caballo Dam, which regulates the stream flow, was constructed as a part of canalization project for the Rio Grande under an agreement with Mexico.

The reduction in the amount of the Bureau of Reclamation investment in New Mexico from 1930 to 1940, despite the construction of such works as Alamogordo Dam of the Carlsbad Project and Caballo Dam on the Rio Grande, results from the elimination of drainage costs from the irrigation outlays and from new contracts with the Secretary of the Interior by which the greater part of the costs of Elephant Butte Dam will be repaid by power revenues. Elephant Butte Dam was formerly charged into the irrigation costs of the Rio Grande Project repayable by water users. Neither the tabulations as to areas or investment include the Tucumcari Project being constructed in northeastern New Mexico. This project will be served from Comchas Dam on the Canadian River constructed by the Corps of Engineers.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	155	237	293
Area irrigable in these enterprises.....acres....	331,233	225,730	[1] 212,353
Area irrigated in these enterprises.....acres....	231,795	([2])	([2])
Area for which drains have been installed.....acres....	240,614	60,907	74,783
Additional area needing drainage.....acres....	8,732	49,572	60,277
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	103.8	[3] 27.0	[1] 35.2
(b) All irrigation enterprises.....percent..	43.4	11.6	13.9
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	75.3	48.9	[1] 63.6
(b) Irrigated area reporting.....percent..	107.6	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,179,011	1,306,639	1,007,575	947,783	750,545	688,428	1,231,228	556,094	319,147
Area irrigated by these enterprises.....acres.....	342,012	224,878	199,859	153,357	120,532	126,090	188,655	104,346	73,769
Average water per acre irrigated.....acre-feet..	6.4	5.8	5.0	6.2	6.2	5.5	6.5	5.3	4.3
Total water delivered to irrigators.....acre-feet..	1,167,655	266,413	274,746	441,408	263,413	212,359	726,247	3,000	62,387
Area irrigated by these enterprises.....acres.....	369,456	127,984	160,996	158,447	125,784	119,013	211,009	2,200	41,983
Average water per acre irrigated.....acre-feet..	3.2	2.1	1.7	2.8	2.1	1.8	3.4	1.4	1.5
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	271,031	.....	.....	6,562	.....	.....	264,469	.....	.....
Area irrigated by these enterprises.....acres.....	104,728	.....	.....	2,688	.....	.....	102,040	.....	.....
Average water per acre irrigated.....acre-feet..	2.6	.....	.....	2.4	.....	.....	2.6	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	72	.....	.....	.....	.....	.....	72	.....	.....
Area irrigated by these enterprises.....acres.....	66	.....	.....	.....	.....	.....	66	.....	.....
Average water per acre irrigated.....acre-feet..	1.1	.....	.....	.....	.....	.....	1.1	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	7,660	.....	.....	.....	.....	.....	7,660	.....	.....
Area irrigated by these enterprises.....acres.....	5,031	.....	.....	.....	.....	.....	5,031	.....	.....
Average water per acre irrigated.....acre-feet..	1.5	.....	.....	.....	.....	.....	1.5	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	554,039	100.0	5,123	527,033	100.0	538,377	100.0
Appropriation[2]	450,542	81.3	5,041	382,538	72.6	331,057	61.5
Underground	35,590	6.4	82	44,820	8.5	52,325	9.7
Appropriation and underground	1,238	0.2	.....	.....	.....	.....	.....
Adjudicated by court	58,863	10.7	.....	92,335	17.5	91,807	17.1
Other mixed and not reported	7,806	1.4	.....	7,340	1.4	63,188	11.7

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," "Certificate or license from State," and "Riparian."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940 ..... number	2,451	67	1,673	206	290	180	33	[2] 2
2	Irrigated farms, 1939 ..... number	31,683	.....	1,673	521	3,558	8,229	6,929	10,173
3	Area irrigated, 1939 ..... acres	554,039	.....	120,123	23,781	71,578	109,984	88,250	140,323
4	(a) From which crops were harvested ..... acres	512,441	.....	111,817	21,773	63,661	95,692	85,366	134,132
5	(b) On which crops failed ..... acres	21,069	.....	1,920	507	5,015	7,842	1,430	4,355
6	(c) Irrigated pasture ..... acres	20,529	.....	6,386	1,501	2,902	6,450	1,454	1,836
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises ..... dollars	32,629,293	73,254	3,660,050	569,631	3,465,872	3,767,938	7,631,709	13,460,839
8	(a) Cost of irrigation works and equipment ..... dollars	32,187,969	72,629	3,631,175	563,276	3,325,495	3,508,790	7,625,765	13,460,839
9	(b) Investment in water rights ..... dollars	441,324	625	28,875	6,355	140,377	259,148	5,944	.....
10	Area works were capable of supplying with water ..... acres	731,990	4,386	161,174	28,283	89,304	136,488	123,439	188,916
11	Average investment per acre irrigated ..... dollars	58.89	.....	30.47	23.95	48.42	34.26	86.48	95.93
12	Average investment per acre which the works could supply with water ..... dollars	44.58	16.70	22.71	20.14	38.81	27.61	61.83	71.25
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation ..... number	1,999	4	1,383	179	244	156	31	2
14	(a) Area irrigated in these enterprises ..... acres	516,916	.....	106,663	21,107	64,554	98,169	86,100	140,323
15	(b) Cost of maintenance and operation ..... dollars	1,082,768	170	343,869	45,328	57,237	112,452	106,823	416,889
16	(c) Average cost per irrigated acre reporting ..... dollars	2.09	.....	3.22	2.15	0.89	1.15	1.24	2.97
17	Total annual charges[3] ..... dollars	966,767	60	.....	.....	58,863	140,942	151,944	614,958
18	Average charge per irrigated acre reporting ..... dollars	2.47	.....	.....	.....	0.91	1.42	1.73	4.38
19	Area against which charges were assessed ..... acres	483,407	208	.....	.....	66,681	118,766	102,255	195,497
20	Average annual charge per acre assessed ..... dollars	2.00	0.29	.....	.....	0.88	1.19	1.49	3.15
21	Total charges collected[3] ..... dollars	1,037,433	.....	.....	.....	10,668	85,314	76,008	865,443
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4] ..... number	57	.....	.....	.....	11	25	19	2
23	(a) Area irrigated in these enterprises ..... acres	259,117	.....	.....	.....	11,778	34,377	72,639	140,323
24	(b) Indebtedness ..... dollars	16,715,813	.....	.....	.....	762,789	754,183	3,742,413	11,456,428
25	(c) Average indebtedness per acre irrigated ..... dollars	64.51	.....	.....	.....	64.76	21.94	51.52	81.64
26	(d) Cost of irrigation works and equipment ..... dollars	24,168,770	.....	.....	.....	1,417,222	2,564,979	6,725,730	13,460,839
27	(e) Investment in water rights ..... dollars	320,637	.....	.....	.....	78,034	240,659	1,944	.....
28	(f) Total investment ..... dollars	24,489,407	.....	.....	.....	1,495,256	2,805,638	6,727,674	13,460,839
29	(g) Maintenance and operation ..... dollars	591,615	.....	.....	.....	6,547	73,420	94,759	416,889
30	(h) Total annual charges[3] ..... dollars	860,424	.....	.....	.....	9,244	93,730	142,492	614,958
31	(i) Total charges collected[3] ..... dollars	998,896	.....	.....	.....	764	58,314	74,375	865,443
32	(j) Area against which annual charges were assessed ..... acres	342,484	.....	.....	.....	12,334	47,359	87,294	195,497
33	(k) Average indebtedness per acre assessed ..... dollars	48.68	.....	.....	.....	58.27	15.91	42.87	58.60
34	(l) Average charges per acre assessed ..... dollars	2.51	.....	.....	.....	0.75	1.98	1.63	3.15
35	(m) Average charges per acre irrigated ..... dollars	3.33	.....	.....	.....	0.82	2.77	1.96	4.38
36	Enterprises reporting arrearage[4] ..... number	6	.....	.....	.....	3	3	.....	.....
37	(a) Area assessed in these enterprises ..... acres	18,106	.....	.....	.....	3,986	14,120	.....	.....
38	(b) Total arrearage ..... dollars	560,392	.....	.....	.....	555,505	4,887	.....	.....
39	(c) Average arrearage per acre assessed ..... dollars	30.40	.....	.....	.....	136.86	0.35	.....	.....
40	(d) Indebtedness ..... dollars	879,252	.....	.....	.....	702,829	176,423	.....	.....
	TYPE, 1940								
41	Individual and partnership ..... number	1,963	61	1,660	191	44	7	.....	.....
42	Cooperative (incorporated and unincorporated) ..... number	444	6	13	14	238	157	16	.....
43	Irrigation district ..... number	11	.....	.....	.....	2	6	2	1
44	Commercial ..... number	5	.....	.....	.....	3	1	1	.....
45	U. S. Bureau of Reclamation ..... number	2	.....	.....	.....	.....	.....	1	1
46	U. S. Office of Indian Affairs ..... number	25	.....	.....	1	2	9	13	.....
47	All other ..... number	1	.....	.....	.....	1	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll ..... number	205	.....	.....	.....	86	90	27	2
49	Wages and salaries paid and payable for 1939 ..... dollars	718,210	.....	.....	.....	44,545	151,197	204,919	317,549
50	Persons employed during week ending April 29, 1939 ..... number	1,773	.....	.....	.....	462	578	434	299
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity ..... number	1,021	10	464	90	262	167	27	1
52	Streams, pumped ..... number	47	1	43	3	.....	.....	.....	.....
53	Wells, pumped ..... number	1,026	46	895	77	8	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing ..... number	167	1	141	22	3	.....	.....	.....
55	Lakes, gravity or pumped ..... number	3	.....	2	1	.....	.....	.....	.....
56	Streams and springs; or springs ..... number	98	2	62	7	14	13	.....	.....
57	Mixed, streams and wells ..... number	46	5	36	1	2	.....	1	1
58	Other mixed or stored storm water ..... number	43	2	30	5	1	.....	5	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
67	1,627	467	260	24	5	[2] 1	2,101	247	74	26	3	1
.....	3,164	4,509	8,778	3,754	8,798	2,680	11,318	2,574	2,670	3,917	11,204	2
.....	53,196	79,305	157,445	77,489	108,071	78,533	176,012	74,428	56,922	86,823	159,854	3
.....	50,102	71,606	138,308	72,762	106,592	73,071	156,330	67,860	51,884	82,704	153,663	4
.....	1,116	4,305	8,756	2,537	259	4,096	10,963	1,494	2,220	1,937	4,355	5
.....	1,978	3,394	10,381	2,190	1,220	1,366	8,719	5,074	2,718	2,182	1,836	6
73,254	1,871,773	2,068,695	4,222,573	6,410,209	13,908,445	4,074,344	2,383,627	1,855,755	2,604,926	8,637,646	17,147,339	7
72,629	1,848,993	2,011,413	4,166,230	6,180,915	13,833,445	4,074,344	2,332,566	1,838,011	2,370,241	8,499,812	17,147,339	8
625	22,780	57,282	56,343	229,294	75,000	.....	51,061	17,744	234,685	137,834	.....	9
4,386	84,584	95,324	187,946	110,179	158,931	90,640	222,113	88,597	79,568	127,741	213,971	10
.....	35.19	26.09	26.82	82.72	128.00	52.84	13.54	24.93	45.76	99.49	107.27	11
16.70	22.13	21.70	22.47	58.18	87.04	45.78	10.73	20.95	32.74	67.62	80.14	12
4	1,338	394	233	24	5	1	1,691	211	70	24	3	13
.....	45,157	67,464	140,202	77,489	108,071	78,533	147,148	68,809	55,882	85,223	159,854	14
170	164,620	149,395	190,446	107,807	306,616	163,714	267,195	133,987	99,147	121,359	461,080	15
.....	3.65	2.21	1.36	1.39	2.84	2.08	1.82	1.95	1.77	1.42	2.88	16
60	9,058	29,380	99,516	127,949	537,398	163,406	56,264	23,841	49,144	169,944	667,574	17
.....	1.86	1.00	1.01	1.76	4.97	2.08	0.68	0.86	1.40	1.97	4.18	18
208	4,921	30,281	110,642	85,996	158,479	92,880	86,720	28,536	44,270	103,329	220,552	19
0.29	1.84	0.97	0.90	1.49	3.39	1.76	0.65	0.84	1.11	1.64	3.03	20
.....	12,303	7,181	22,431	85,985	623,239	286,294	9,105	7,350	30,501	109,924	880,553	21
.....	3	8	25	15	5	1	10	3	22	19	3	22
.....	222	1,705	19,211	51,375	108,071	78,533	2,382	4,143	18,589	74,149	159,854	23
.....	936	73,717	897,427	1,445,393	11,631,112	2,667,228	4,390	23,835	422,375	2,092,373	14,172,840	24
.....	4.22	43.24	46.71	28.13	107.62	33.96	1.84	5.75	22.72	28.22	88.66	25
.....	5,736	198,878	1,927,587	4,128,780	13,833,445	4,074,344	15,335	30,261	1,137,893	5,837,942	17,147,339	26
.....	.....	36	25,592	220,009	75,000	.....	36	.....	190,292	130,309	.....	27
.....	5,736	198,914	1,953,179	4,348,789	13,908,445	4,074,344	15,371	30,261	1,328,185	5,968,251	17,147,339	28
.....	803	1,061	38,335	81,086	306,616	163,714	1,638	2,472	19,757	106,668	461,080	29
.....	839	1,316	45,268	112,197	537,398	163,406	2,032	5,334	26,911	158,573	667,574	30
.....	.....	407	7,274	81,682	623,239	286,294	407	2,427	9,230	106,279	880,553	31
.....	242	1,075	26,801	63,007	158,479	92,880	2,042	4,163	26,189	89,538	220,552	32
.....	3.87	67.75	31.84	22.94	73.39	28.72	1.98	5.73	16.11	22.88	64.26	33
.....	3.47	1.22	1.69	1.78	3.39	1.76	1.00	1.28	1.03	1.77	3.03	34
.....	3.78	1.31	2.39	2.18	4.97	2.08	1.06	1.29	1.47	2.15	4.18	35
.....	.....	.....	4	2	.....	.....	.....	1	2	3	.....	36
.....	.....	.....	18,106		.....	.....	.....	5,587		12,519	.....	37
.....	.....	.....	560,392		.....	.....	.....	9,423		550,969	.....	38
.....	.....	.....	30.40		.....	.....	.....	1.69		43.21	.....	39
.....	.....	.....	879,252		.....	.....	.....	33,651		845,601	.....	40
61	1,519	294	88	1	.....	.....	1,734	199	29	1	.....	41
6	106	167	152	12	1	.....	362	45	28	9	.....	42
.....	.....	1	4	5	1	.....	3	1	.....	6	1	43
.....	1	.....	1	1	2	.....	1	.....	1	3	.....	44
.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2	45
.....	1	4	15	5	.....	.....	1	2	15	7	.....	46
.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	47
.....	28	61	90	20	5	1	109	32	38	23	3	48
.....	3,084	29,291	178,189	138,133	235,566	133,947	17,249	15,704	98,497	233,987	352,773	49
.....	116	295	785	241	241	95	512	167	302	474	318	50
10	585	215	188	19	3	1	884	69	45	21	2	51
1	35	8	3	.....	.....	.....	44	2	1	.....	.....	52
46	788	160	31	1	.....	.....	921	93	12	.....	.....	53
1	90	57	19	.....	.....	.....	97	62	8	.....	.....	54
.....	2	.....	1	.....	.....	.....	3	.....	.....	.....	.....	55
2	81	12	3	.....	.....	.....	91	4	3	.....	.....	56
5	24	8	6	2	1	.....	32	11	.....	2	1	57
2	22	7	9	2	1	.....	29	6	5	3	.....	58

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	52	.....	44	8	.....	.....	.....	.....
2	Irrigated farms, 1939.....number...	63	.....	44	19	.....	.....	.....	.....
3	Area irrigated, 1939.....acres....	5,123	.....	4,239	884	.....	.....	.....	.....
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	106,704	.....	93,448	13,256	.....	.....	.....	.....
5	(a) Cost of irrigation works and equipment.....dollars..	102,887	.....	91,422	11,465	.....	.....	.....	.....
6	(b) Investment in water rights.....dollars..	3,817	.....	2,026	1,791	.....	.....	.....	.....
7	Area works were capable of supplying with water.....acres....	5,912	.....	4,830	1,082	.....	.....	.....	.....
8	Average investment per acre irrigated.....dollars..	20.83	.....	22.04	15.00	.....	.....	.....	.....
9	Average investment per acre which the works could supply with water....dollars..	18.05	.....	19.35	12.25	.....	.....	.....	.....
	MAINTENANCE AND OPERATION, 1939								
10	Enterprises reporting maintenance and operation.....number...	49	.....	41	8	.....	.....	.....	.....
11	(a) Area irrigated in these enterprises.....acres....	5,083	.....	4,199	884	.....	.....	.....	.....
12	(b) Cost of maintenance and operation.....dollars..	10,142	.....	8,713	1,429	.....	.....	.....	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	2.00	.....	2.08	1.62	.....	.....	.....	.....
	TYPE, 1940								
14	Individual and partnership.....number...	52	.....	44	8	.....	.....	.....	.....
15	All other.....number...	.....	.....	.....	.....	.....	.....	.....	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
16	Streams, pumped.....number...	1	.....	1	.....	.....	.....	.....	.....
17	Wells, pumped or flowing.....number...	49	.....	42	7	.....	.....	.....	.....
18	Streams, gravity or storage.....number...	2	.....	1	1	.....	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Rio Grande River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Taos	Taos	6,983	7.28	-5.81	2.09	+0.02	1.83	-0.65	0.78	-2.67	2.58	-2.51	46.9	-0.7
Albuquerque	Bernalillo	5,314	7.76	-0.30	1.01	-0.72	1.69	+0.52	1.00	-0.69	4.06	+0.59	55.8	+0.5
Socorro	Socorro	4,600	8.14	-1.91	0.64	-1.45	1.83	+0.29	0.60	-0.96	5.07	+0.21	58.2	+0.5
Agricultural College	Dona Ana	3,863	4.66	-4.20	0.69	-1.19	0.88	-0.25	0.35	-0.86	2.74	-1.90	59.3	-1.7
Pecos River														
Las Vegas	San Miguel	6,400	14.82	-3.22	1.00	-1.31	4.65	+2.79	2.79	-2.35	6.38	-2.35	53.2	+3.2
Fort Sumner	De Baca	4,028	17.95	+0.92	2.03	-1.52	3.99	+2.11	5.19	+0.45	6.74	-0.12	58.6	+0.5
Roswell	Chaves	3,566	12.70	-2.24	1.22	-1.71	2.02	+0.18	2.11	-1.54	7.35	+0.83	60.4	+0.9
Alamogordo	Otero	4,338	11.28	-0.21	1.56	-0.97	2.15	+0.44	0.50	-1.24	7.07	+1.56	61.5	+0.6
Carlsbad	Eddy	3,120	7.77	-5.82	1.55	-1.16	1.01	-0.31	1.52	-1.93	3.69	-2.42	64.0	+1.1
Colorado River														
Crown Point	McKinley	6,800	7.20	-4.42	1.11	-1.01	2.15	+0.17	1.30	-0.58	2.58	-3.00	50.4	-0.1
Shiprock	San Juan	4,950	6.82	-0.84	0.52	-0.86	1.48	-0.03	0.35	-1.16	4.47	+1.21	[2]	[2]
Redrock	Grant	[2]	9.16	-2.86	1.65	-1.01	2.79	+0.50	0.34	-0.73	4.38	-1.62	[2]	[2]
Arkansas River														
Raton (near)	Colfax	6,660	12.24	-4.25	2.90	+0.57	1.80	+0.21	3.81	-1.36	3.73	-3.67	49.0	-0.1
Tucumcari	Quay	4,100	12.56	-5.54	2.17	-0.60	1.81	+0.35	3.82	-2.20	4.76	-3.09	58.1	+0.1
Clayton	Union	5,049	12.84	-3.81	2.16	-0.24	2.46	+0.93	5.06	-1.00	3.16	-3.50	53.7	+0.3
Estancia Valley														
Ancho	Lincoln	6,112	15.95	+3.01	2.16	-0.45	2.13	+0.46	2.67	+0.41	8.99	+2.59	[2]	[2]
Salt Lake and Rita Creek														
Quemado (near)	Catron	6,879	9.72	-4.31	0.83	-1.71	4.71	+2.46	0.96	-1.04	3.22	-4.02	48.2	+1.0
Mimbres Valley														
Fort Bayard	Grant	6,152	12.11	-4.48	2.13	-1.04	2.56	-0.26	0.73	-1.07	6.69	-2.11	55.6	+0.4
Columbus	Luna	4,054	8.40	-1.62	1.18	-0.84	0.64	-0.98	0.77	-0.36	5.81	+0.56	63.5	+0.7
Animas River														
Lordsburg	Hidalgo	4,245	8.30	-1.50	1.51	-0.75	1.19	-0.86	0.42	-0.44	5.18	+0.55	[2]	[2]
Rodeo	Hidalgo	[2]	7.64	-3.80	2.49	+0.10	0.97	-1.05	0.23	-0.69	3.95	-2.16	[2]	[2]

[1] Departure from normal.

[2] Not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	28	22	2	.....	.....	.....	50	2	.....	.....	.....	1
.....	35	28		.....	.....	.....	63		.....	.....	.....	2
.....	1,104	4,019		.....	.....	.....	5,123		.....	.....	.....	3
.....	41,339	65,365		.....	.....	.....	106,704		.....	.....	.....	4
.....	40,315	62,572		.....	.....	.....	102,887		.....	.....	.....	5
.....	1,024	2,793		.....	.....	.....	3,817		.....	.....	.....	6
.....	1,370	4,542		.....	.....	.....	5,912		.....	.....	.....	7
.....	37.44	16.26		.....	.....	.....	20.83		.....	.....	.....	8
.....	30.17	14.39		.....	.....	.....	18.05		.....	.....	.....	9
.....	25	22	2	.....	.....	.....	47	2	.....	.....	.....	10
.....	1,064	4,019		.....	.....	.....	5,083		.....	.....	.....	11
.....	2,295	7,847		.....	.....	.....	10,142		.....	.....	.....	12
.....	2.16	1.95		.....	.....	.....	2.00		.....	.....	.....	13
.....	28	22	2	.....	.....	.....	50	2	.....	.....	.....	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	16
.....	25	22	2	.....	.....	.....	47	2	.....	.....	.....	17
.....	2	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	18

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The average annual precipitation in New Mexico for the calendar year 1939 was 13.22 inches, which was 1.21 inches below normal, as reported by the U. S. Weather Bureau. The monthly distribution was very uneven, with excesses of 0.01 inch to 0.81 inch for January, March, April, and September, while the remaining months had deficiencies ranging from 0.02 inch to 0.66 inch. Precipitation for the southern portion of the State was near normal, while most of the deficiency occurred in the northern portion of the State. The wettest month was July, with a State average of 2.45 inches; and the driest was February, with an average of 0.61 inch, although, June, November, and December were almost as dry. The greatest monthly deficiency occurred in August, with a departure of 0.66 inch, and the greatest excess in January, with a departure of 0.81 inch.

The average precipitation for the water year (October 1938 through September 1939) at the 21 stations shown in State table 18, and which are representative of the agricultural areas in the major drainage basins of New Mexico, was 10.25 inches, indicating an average deficiency of -2.72 inches at these stations.

Temperature.—The average temperature for the State was 52.7°, which was normal. January, August, October, and November averaged slightly below normal, while February was 8.2° below normal and had the lowest average for that month for the entire 48 years of record, and the lowest of record for any month except January 1919. March, April, May, June, July, and September averaged from 0.2° to 1.8° above normal, while December was 3.9° above the average and the warmest December since 1933. July was the warmest month with a mean temperature of 72.5°. The highest temperature recorded in the State was 111° at Tularosa in Otero County on June 13, and at Carlsbad in Eddy County on June 15. The lowest was -40° at Gavilan in Rio Arriba County on February 3. Freezing temperature occurred at some station in the State during every month. Considerable damage from frost occurred early in April in the southern Rio Grande and Pecos Valleys when most of the early fruit was killed in those areas.

The greatest annual snowfall was 132 inches at Irvin's Ranch in the Sangre de Cristo Mountains, while maximum totals in other regions were as follows: San Juan Mountains, 104 inches at Selsor Ranch; Sacramentos, 89 inches at White Tail; Sandias, 78 inches at Sandia Park; Datil Mountains, 52 inches at Datil; Jemez, 70 inches at Lee Ranch; Zuni Mountains, 86 inches at McGaffey Ranger Station; and Manzanos, 96 inches at Tajique (near). Snow cover at the end of the year averaged approximately 1.5 inches.

Several local duststorms occurred during the spring months, but none were very severe and the damage from them was negligible. A flash flood in September in Santa Fe County caused damage to a highway bridge estimated at $5,000. Heavy hailstorms in May in Torrance, Dona Ana, and Eddy Counties; in June in San Miguel, Union, Lincoln, Harding, and Guadalupe Counties; in July in San Miguel and Torrance Counties; and in August in Harding, Sandoval, Otero, Eddy, Union, and Valencia Counties resulted in considerable damage to crops, buildings, and livestock with an estimated total loss of $395,775.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GULF OF MEXICO			
			Total	Mississippi River		
				Arkansas River		
				Total	Cimarron River (2)	
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	31,683	28,306	1,783	34	
2	Area irrigated....1939...acres....	554,039	485,594	64,104	6,380	
3	(a) Cropland harvested....1939...acres....	512,441	451,361	60,638	4,569	
4	(b) Crop failure....1939...acres....	21,069	18,399	1,238	66	
5	(c) Pasture....1939...acres....	20,529	15,834	2,228	745	
6	Area irrigated....1929...acres....	527,033	451,779	71,335	2,670	
7	1919...acres....	538,377	465,188	95,942	5,757	
8	Increase or decrease (-), 1929-1939....percent....	5.1	7.5	-10.1	101.5	
9	Irrigable area in enterprises....1940...acres....	807,656	694,939	97,542	6,315	
10	1930...acres....	741,245	644,813	119,506	4,484	
11	1920[3]...acres....	961,879	840,398	193,635	14,173	
12	Excess of irrigable area over the area irrigated...1940...acres....	253,617	209,345	33,438	935	
13	1930...acres....	214,212	193,034	48,171	1,814	
14	1920[3]...acres....	423,502	375,210	97,693	8,416	
15	Area works were capable of supplying with water...1940...acres....	731,990	636,522	78,591	5,615	
16	1930...acres....	656,669	563,213	112,761	4,464	
17	1920...acres....	696,119	608,651	149,330	12,383	
18	Increase or decrease (-), 1930-1940....percent....	11.5	13.0	-30.3	25.8	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	177,951	150,928	14,487	235	
20	1930...acres....	129,536	111,434	41,426	1,794	
21	1920...acres....	157,742	143,463	53,388	6,626	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	75.7	76.3	81.6	95.8	
23	1929...percent....	80.3	80.2	63.3	59.8	
24	1919...percent....	77.3	76.4	64.2	46.5	
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	32,735,997	28,184,354	1,961,305	148,480	
26	(a) Cost of irrigation works and equipment....1940...dollars....	32,290,856	27,965,325	1,865,092	146,260	
27	(b) Investment in water rights (reported)....1940...dollars....	445,141	219,029	96,213	2,220	
28	Total investment in irrigation enterprises....1930...dollars....	19,834,380	17,458,739	1,948,170	61,605	
29	1920...dollars....	18,210,412	15,769,438	5,347,927	308,147	
30	Increase or decrease (-), 1930-1940....percent....	65.0	61.4	0.7	141.0	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	44.72	44.28	24.96	26.44	
32	1930...dollars....	30.20	31.00	17.28	13.80	
33	1920...dollars....	26.16	25.91	35.81	24.88	
34	Average investment per acre irrigated....1939...dollars....	59.09	58.04	30.60	28.31	
35	Estimated final investment in existing enterprises...1940...dollars....	36,773,139	30,744,722	1,995,365	148,680	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	45.53	44.24	20.46	23.54	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Supplemental Enterprises	Primary Enterprises / Supplemental Enterprises			
37	Enterprises reporting maintenance and operation...1939...number....	2,001 / 49	1,580 / 34	120	25	
38	Area irrigated in these enterprises....1939...acres....	516,916 / 5,083	452,507 / 4,380	61,120	5,198	
39	Cost of maintenance and operation....1939...dollars....	1,082,768 / 10,142	898,799 / 7,859	31,455	4,682	
40	Average cost, per acre irrigated....1939...dollars....	2.09 / 2.00	1.99 / 1.79	0.51	0.90	
41	Total annual charges (reported)[5 6]....1939...dollars....	966,767 /	872,851 /	41,871	.....	
42	Average annual charge per acre irrigated....1939...dollars....	2.47 /	2.54 /	0.83	.....	
43	Area against which charges were assessed....1939...acres....	483,407 /	434,129 /	59,771	.....	
44	Average annual charge per acre assessed....1939...dollars....	2.00 /	2.01 /	0.70	.....	
45	Total charges collected[6]....1939...dollars....	1,037,433 /	982,855 /	35,078	.....	
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	16,715,813 /	16,258,254 /	218,187	.....	
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number....	1,946 / 51	1,527 / 35	106	14	
48	Area irrigated by these enterprises....1939...acres....	474,184 / 5,097	421,015 / 4,408	57,425	2,445	
49	Water delivered....1939...acre-feet..	1,438,686 / 7,732	1,271,587 / 7,068	69,990	3,271	
50	Average water delivered per acre irrigated....1939...acre-feet..	3.0 / 1.5	3.0 / 1.6	1.1	1.3	
51	Average cost of water per acre irrigated....1939...dollars....	2.80 / 2.00	2.78 / 1.79	0.76	0.58	
52	Average cost of water per acre-foot delivered..1939...dollars....	0.92 / 1.32	0.92 / 1.12	0.68	0.44	
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number....	155 /	140 /	3	1	
54	Irrigable area in these enterprises....1939...acres....	331,233 /	313,520 /	14,884	[4]	
55	Irrigated area in these enterprises....1939...acres....	231,795 /	220,456 /	8,980	[4]	
56	Area for which drains have been installed....1939...acres....	240,614 /	239,986 /	20	[4]	
57	Additional area needing drainage....1939...acres....	8,732 /	5,430 /	1,140	.....	

[1] Data for 2 enterprises in San Augustine Drainage Basin (48) (number refers to separate map) and for 1 enterprise in Sacramento-Salt Lakes Drainage Basin (53) are included with State totals. Data for unidentified basins for the 1930 and 1920 Censuses are included only in State total.

[2] Data for 1 enterprise in Ute Creek Drainage Basin (10) (number refers to separate map) are included with Canadian River "Direct" Drainage Basin (3).

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

GULF OF MEXICO—Continued

Mississippi River—Continued

Arkansas River—Continued

Canadian River

Total	Direct[2] (3)	Vermejo River (4)	Cimarron River (5)	Ocate Creek (6)	Mora River				Carrizo Creek (11)	North Canadian River (12)	
					Total	Direct (7)	Coyote Creek (8)	Sapello Creek (9)			
1,749	73	169	175	21	1,304	798	156	350	3	4	1
58,724	2,477	8,906	20,549	1,012	25,381	16,440	2,384	6,557	59	340	2
56,069	2,400	8,906	19,729	963	23,714	15,184	2,339	6,191	17	340	3
1,172	20	.....	.....	20	1,090	725	25	340	42	.....	4
1,483	57	.....	820	29	577	531	20	26	.....	.....	5
68,665	1,610	8,574	16,007	1,102	34,956	.....	.....	.....	.....	.....	6
90,185	1,757	23,678	31,967	4,861	17,057	.....	.....	.....	.....	.....	7
-14.5	5.39	3.9	28.4	-8.2	-27.4	.....	.....	.....	.....	.....	8
91,227	3,711	14,690	43,335	1,114	27,697	17,295	2,422	7,980	215	465	9
115,022	1,790	15,704	54,357	5,800	44,071	.....	.....	.....	.....	.....	10
179,462	2,389	23,978	70,318	13,908	36,670	.....	.....	.....	.....	.....	11
32,503	1,234	5,784	22,786	102	2,316	855	38	1,423	156	125	12
46,357	180	7,130	18,350	4,698	9,115	.....	.....	.....	.....	.....	13
89,277	632	300	38,351	9,047	19,613	.....	.....	.....	.....	.....	14
72,976	3,621	10,006	30,835	1,012	26,822	17,120	2,422	7,280	215	465	15
108,297	1,790	15,704	31,677	5,800	43,056	.....	.....	.....	.....	.....	16
136,947	2,199	23,878	45,628	13,095	29,528	.....	.....	.....	.....	.....	17
-32.6	102.3	-36.3	-2.7	-82.6	-37.7	.....	.....	.....	.....	.....	18
14,252	1,144	1,100	10,286	.....	1,441	680	38	723	156	125	19
39,632	180	7,130	15,670	4,698	8,100	.....	.....	.....	.....	.....	20
46,762	442	200	13,661	8,234	12,471	.....	.....	.....	.....	.....	21
80.5	68.4	89.0	66.6	100.0	94.6	96.0	98.4	90.1	27.4	73.1	22
63.4	89.9	54.6	50.5	19.0	81.2	.....	.....	.....	.....	.....	23
65.9	79.9	99.2	70.1	37.1	57.8	.....	.....	.....	.....	.....	24
1,812,825	375,286	231,800	1,057,462	5,749	125,633	82,030	3,600	40,003	3,570	13,325	25
1,718,832	374,590	231,700	972,527	5,700	117,465	76,025	3,550	37,890	3,550	13,300	26
93,993	696	100	84,935	49	8,168	6,005	50	2,113	20	25	27
1,886,565	43,900	340,995	719,700	230,350	236,645	.....	.....	.....	.....	.....	28
5,039,780	39,625	1,248,537	2,188,908	319,529	262,575	.....	.....	.....	.....	.....	29
-3.9	754.9	-32.0	46.9	-97.5	-46.9	.....	.....	.....	.....	.....	30
24.84	103.64	23.17	34.29	5.68	4.68	4.79	1.49	5.49	16.60	28.66	31
17.42	24.53	21.71	22.72	39.72	5.50	.....	.....	.....	.....	.....	32
36.80	18.02	52.29	47.97	24.40	8.89	.....	.....	.....	.....	.....	33
30.87	151.51	26.03	51.46	5.68	4.95	4.99	1.51	6.10	60.51	39.19	34
1,846,685	376,786	231,800	1,087,462	5,749	127,993	82,290	3,600	42,103	3,570	13,325	35
20.24	101.53	15.78	25.09	5.16	4.62	4.76	1.49	5.28	16.60	28.66	36
95	20	2	7	6	56	36	5	15	1	3	37
55,922	2,202	(4)	20,549	1,012	23,084	14,780	2,384	5,920	(4)	135	38
26,773	1,642	(4)	14,301	465	4,252	2,539	315	1,398	(4)	112	39
0.48	0.75	(4)	0.70	0.46	0.18	0.17	0.13	0.24	(4)	0.83	40
41,871	470	18,045	18,017	51	5,288	2,070	315	2,903	.....	.....	41
0.83	0.65	2.12	0.88	0.50	0.26	0.17	0.13	0.51	.....	.....	42
59,771	719	14,284	22,834	204	21,730	12,743	2,384	6,603	.....	.....	43
0.70	0.65	1.26	0.79	0.25	0.24	0.16	0.13	0.44	.....	.....	44
35,078	.....	18,363	15,980	.....	735	135	.....	600	.....	.....	45
218,187	.....	72,500	145,687	.....	.....	.....	.....	.....	.....	.....	46
92	28	3	7	5	44	27	4	13	1	4	47
54,980	2,447	8,906	20,549	910	21,824	14,190	2,214	5,420	(4)	340	48
60,719	3,083	10,996	26,021	711	19,096	13,399	1,975	3,722	(4)	810	49
1.1	1.3	1.2	1.3	0.8	0.9	0.9	0.9	0.7	(4)	2.4	50
0.77	0.75	2.03	0.88	0.46	0.15	0.14	0.07	0.21	.....	0.83	51
0.69	0.59	1.65	0.69	0.58	0.17	0.14	0.08	0.30	.....	0.38	52
2	.....	1	.....	.....	1	1	.....	.....	.....	.....	53
(4)	.....	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	54
(4)	.....	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
(4)	.....	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued							
		Rio Grande							
		Total	Direct (14)	Conejos River / San Antonio River (15)	Costilla Creek (16)	Latir Creek and Red River (17)	Rio Hondo (18)	Rio Pueblo de Taos (19)	Embudo River (20)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	26,174	13,666	52	280	353	303	1,644	1,239
2	Area irrigated....1939...acres....	408,692	163,082	763	2,863	6,312	3,370	16,320	9,432
3	(a) Cropland harvested....1939...acres....	378,520	155,262	702	2,525	5,502	2,960	13,149	8,331
4	(b) Crop failure....1939...acres....	17,012	5,058	23	40	810	47	2,630	114
5	(c) Pasture....1939...acres....	13,160	2,762	38	298	.....	363	541	987
6	Area irrigated....1929...acres....	380,444	136,114	.....	4,003	.....	.....	15,856	.....
7	1919...acres....	369,246	103,844	.....	4,417	.....	.....	11,780	.....
8	Increase or decrease (-), 1929-1939....percent....	7.4	19.8	.....	-28.5	.....	.....	2.9	.....
9	Irrigable area in enterprises....1940...acres....	572,398	246,274	793	3,879	7,559	4,709	22,992	9,951
10	1930...acres....	525,307	164,672	.....	10,112	.....	.....	21,352	.....
11	1920[1]...acres....	646,763	172,747	.....	7,385	.....	.....	12,443	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	163,706	83,192	30	1,016	1,247	1,339	6,672	519
13	1930...acres....	144,863	28,558	.....	6,109	.....	.....	5,496	.....
14	1920[1]...acres....	277,517	68,903	.....	2,968	.....	.....	663	.....
15	Area works were capable of supplying with water...1940...acres....	533,880	226,873	793	3,879	7,554	4,709	22,245	9,743
16	1930...acres....	450,452	158,486	.....	7,606	.....	.....	16,730	.....
17	1920...acres....	459,321	123,464	.....	4,803	.....	.....	11,791	.....
18	Increase or decrease (-), 1930-1940....percent....	18.5	43.2	.....	-49.0	.....	.....	33.0	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	125,188	63,791	30	1,016	1,242	1,339	5,925	311
20	1930...acres....	70,008	22,372	.....	3,603	.....	.....	874	.....
21	1920...acres....	90,075	19,620	.....	386	.....	.....	11	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	76.6	71.9	96.2	73.8	83.6	71.6	73.4	96.8
23	1929...percent....	84.5	85.9	.....	52.6	.....	.....	94.8	.....
24	1919...percent....	80.4	84.1	.....	92.0	.....	.....	99.9	.....
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	25,816,016	14,120,570	9,650	108,155	159,235	17,000	164,928	50,901
26	(a) Cost of irrigation works and equipment....1940...dollars....	25,696,197	14,118,406	9,280	102,437	152,575	16,000	160,649	50,786
27	(b) Investment in water rights (reported)....1940...dollars....	119,819	2,164	370	5,718	6,660	1,000	4,279	115
28	Total investment in irrigation enterprises....1930...dollars....	15,510,569	7,892,453	.....	910,360	.....	.....	78,879	.....
29	1920...dollars....	10,421,511	3,605,725	.....	11,471	.....	.....	19,982	.....
30	Increase or decrease (-), 1930-1940....percent....	66.4	78.9	.....	-88.1	.....	.....	109.1	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	48.36	62.24	12.17	27.88	21.08	3.61	7.41	5.22
32	1930...dollars....	34.43	49.80	.....	119.69	.....	.....	4.71	.....
33	1920...dollars....	22.69	29.20	.....	2.39	.....	.....	1.69	.....
34	Average investment per acre irrigated....1939...dollars....	63.17	86.59	12.65	37.78	25.23	5.04	10.11	5.40
35	Estimated final investment in existing enterprises..1940...dollars....	28,327,965	15,233,975	9,650	108,155	209,235	17,000	497,228	61,341
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	49.49	61.86	12.17	27.88	27.68	3.61	21.63	6.16
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Sup. Enterprises	Primary / Sup. Enterprises						
37	Enterprises reporting maintenance and operation...1939...number....	1,198 / 34	150 / 1	10	12	5	9	22	45
38	Area irrigated in these enterprises....1939...acres....	381,372 / 4,380	161,988 / (3)	763	1,751	5,837	3,227	11,933	7,258
39	Cost of maintenance and operation....1939...dollars....	825,086 / 7,859	441,798 / (3)	426	1,625	4,310	1,009	3,744	4,939
40	Average cost, per acre irrigated....1939...dollars....	2.16 / 1.79	2.73 / (3)	0.56	0.93	0.74	0.31	0.31	0.68
41	Total annual charges (reported)[4] [5]....1939...dollars....	830,980 /	646,419 /	135	2,276	4,511	1,041	3,670	4,635
42	Average annual charge per acre irrigated....1939...dollars....	2.83 /	4.03 /	0.24	1.35	0.78	0.32	0.27	0.66
43	Area against which charges were assessed....1939...acres....	374,358 /	220,387 /	572	2,666	7,361	3,306	13,504	6,963
44	Average annual charge per acre assessed....1939...dollars....	2.22 /	2.93 /	0.24	0.85	0.61	0.31	0.27	0.67
45	Total charges collected[4]....1939...dollars....	947,777 /	866,050 /	88	391	5,044	90	1,967	15
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	16,040,067 /	11,719,382 /	.....	8,759	.....	.....	86,828	8,882
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	1,107 / 35	132 / 1	4	11	4	5	15	18
48	Area irrigated by these enterprises....1939...acres....	351,533 / 4,408	148,177 / (3)	573	1,957	5,814	1,190	8,167	2,528
49	Water delivered....1939...acre-feet..	1,181,686 / 7,068	683,538 / (3)	1,812	4,072	7,720	2,050	8,859	3,786
50	Average water delivered per acre irrigated....1939...acre-feet..	3.4 / 1.6	4.6 / (3)	3.2	2.1	1.3	1.7	1.1	1.5
51	Average cost of water per acre irrigated....1939...dollars....	3.07 / 1.79	4.23 / (3)	0.26	1.50	0.78	0.30	0.25	0.33
52	Average cost of water per acre-foot delivered..1939...dollars....	0.91 / 1.12	0.92 / (3)	0.08	0.72	0.58	0.17	0.23	0.22
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	135 /	12 /	6	.....	1 /		1 /	.....
54	Irrigable area in these enterprises....1939...acres....	298,608 /	222,178 /	218	.....	(3) /		(3) /	.....
55	Irrigated area in these enterprises....1939...acres....	211,467 /	148,645 /	190	.....	(3) /		(3) /	.....
56	Area for which drains have been installed....1939...acres....	239,943 /	205,457 /	216	.....	..... /		(3) /	.....
57	Additional area needing drainage....1939...acres....	4,290 /	1,845 /	2	.....	(3) /		..... /	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Percent not shown when more than 1,000.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

GULF OF MEXICO—Continued														
Rio Grande—Continued														
Rio Chama						Rio Puerco				Pecos River				
Total	Direct (21)	Caliente River (22)	Santa Cruz River (23)	Tesuque Creek (24)	Jemez Creek (25)	Total	Direct (26)	San Jose River (27)	Alamosa River (28)	Total	Direct (29)	Gallinas River (30)		
1,532	1,210	322	1,372	823	281	1,281	317	964	90	3,258	2,237	223		1
21,593	18,030	3,563	6,818	6,164	2,542	13,438	3,843	9,595	751	155,244	111,806	7,792		2
17,931	14,786	3,145	6,433	5,581	2,426	9,389	2,927	6,462	718	147,611	106,728	6,893		3
2,161	1,831	330	.....	391	80	3,164	631	2,533	12	2,482	1,475	399		4
1,501	1,413	88	385	192	36	885	285	600	21	5,151	3,603	500		5
25,950	.....	.....	8,405	3,588	.....	15,202	.....	.....	.....	129,121	45,508	4,078		6
26,166	.....	.....	9,171	3,012	.....	14,309	.....	.....	.....	119,040	62,430	4,097		7
-16.8	.....	.....	-18.9	71.8	.....	-11.6	.....	.....	.....	20.2	145.7	91.1		8
30,419	25,641	4,778	7,053	7,574	5,104	26,759	5,876	20,883	771	198,561	141,559	9,792		9
35,049	.....	.....	12,604	5,496	.....	35,128	.....	.....	.....	154,203	57,094	4,177		10
42,235	.....	.....	9,863	3,411	.....	42,877	.....	.....	.....	225,400	102,200	41,810		11
8,826	7,611	1,215	235	1,410	2,562	13,321	2,033	11,288	20	43,317	29,753	2,000		12
9,099	.....	.....	4,199	1,908	.....	19,926	.....	.....	.....	25,082	11,586	99		13
16,069	.....	.....	692	399	.....	28,568	.....	.....	.....	106,360	39,770	37,713		14
25,940	21,862	4,078	7,053	7,154	4,354	24,243	4,890	19,353	771	188,569	136,289	9,792		15
30,450	.....	.....	10,094	4,873	.....	22,245	.....	.....	.....	151,588	56,271	4,177		16
30,237	.....	.....	9,221	3,183	.....	25,991	.....	.....	.....	160,658	77,794	24,201		17
-14.8	.....	.....	-30.1	46.8	.....	9.0	.....	.....	.....	24.4	142.2	134.4		18
4,347	3,832	515	235	990	1,812	10,805	1,047	9,758	20	33,325	24,483	2,000		19
4,500	.....	.....	1,689	1,285	.....	7,043	.....	.....	.....	22,467	10,763	99		20
4,071	.....	.....	50	171	.....	11,682	.....	.....	.....	41,618	15,364	20,104		21
83.2	82.5	.....	96.7	86.2	58.4	55.4	78.6	49.6	97.4	82.3	82.0	79.6		22
85.2	.....	.....	83.3	73.6	.....	68.3	.....	.....	.....	85.2	80.9	97.6		23
86.5	.....	.....	99.5	94.6	.....	55.1	.....	.....	.....	74.1	80.3	16.9		24
124,114	98,672	25,442	493,323	119,765	156,184	922,005	47,672	874,333	12,970	9,357,216	7,148,814	1,022,764		25
122,754	97,484	25,270	493,290	119,141	155,689	876,970	46,525	830,445	12,570	9,305,650	7,121,519	1,022,550		26
1,360	1,188	172	33	624	495	45,035	1,147	43,888	400	51,566	27,295	214		27
133,858	.....	.....	510,745	80,842	.....	548,233	.....	.....	.....	4,977,130	2,002,793	43,850		28
141,891	.....	.....	18,281	16,864	.....	88,109	.....	.....	.....	5,263,454	3,294,504	519,566		29
-7.3	.....	.....	-3.4	48.1	.....	68.2	.....	.....	.....	88.0	256.9	(2)		30
4.78	4.51	6.24	69.95	16.74	35.87	38.03	9.75	45.18	16.82	49.62	52.45	104.45		31
4.40	.....	.....	50.60	16.59	.....	24.65	.....	.....	.....	32.83	35.59	10.50		32
4.69	.....	.....	1.98	5.30	.....	3.39	.....	.....	.....	32.76	42.35	21.47		33
5.75	5.47	7.14	72.36	19.43	61.44	68.61	12.40	91.12	17.27	60.27	63.94	131.26		34
144,639	117,147	27,492	493,323	300,340	311,684	1,257,045	51,712	1,205,333	12,970	9,671,380	7,412,458	1,067,764		35
4.75	4.57	5.75	69.95	39.65	61.07	46.98	8.80	57.72	16.82	48.71	52.36	109.04		36
										Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	
102	74	28	18	29	16	16	9	7	6	758	33	368	31	10	37
18,779	15,669	3,110	6,790	5,933	2,506	10,648	2,843	7,805	751	143,208	4,361	102,757	4,157	7,738	38
8,348	7,118	1,230	1,999	6,403	1,913	15,556	897	14,659	1,157	331,859	7,849	230,420	7,479	9,758	39
0.44	0.45	0.40	0.29	1.08	0.76	1.46	0.32	1.88	1.54	2.32	1.80	2.24	1.80	1.26	40
7,405	6,505	900	12,656	6,523	1,606	30,048	908	29,140	277	109,778	.....	92,710	.....	8,421	41
0.43	0.45	0.31	1.86	1.10	0.68	2.83	0.32	3.74	0.50	1.89	.....	2.03	.....	1.10	42
18,024	15,079	2,945	6,996	5,944	3,007	18,418	4,226	14,192	554	66,656	.....	51,734	.....	7,979	43
0.41	0.43	0.31	1.81	1.10	0.53	1.63	0.21	2.05	0.50	1.65	.....	1.79	.....	1.06	44
1,054	1,044	10	11,058	674	210	18,712	407	18,305	.....	42,424	.....	38,160	.....	198	45
720	432	288	147,500	64,248	93,071	376,399	118	376,281	.....	3,534,278	.....	3,509,728	.....	.....	46
96	67	29	16	19	11	16	8	8	6	754	34	432	32	8	47
14,743	12,038	2,705	6,428	4,521	334	7,889	2,277	5,612	751	148,461	4,389	108,202	4,185	7,487	48
21,285	18,151	3,134	8,743	6,305	723	7,714	2,160	5,554	1,443	423,636	7,048	333,723	6,609	9,199	49
1.4	1.5	1.2	1.4	1.4	2.2	1.0	0.9	1.0	1.9	2.9	1.6	3.1	1.6	1.2	50
0.32	0.33	0.28	1.89	1.04	0.63	3.76	0.25	4.95	1.69	2.58	1.80	2.57	1.80	1.04	51
0.22	0.22	0.24	1.39	0.74	0.29	3.84	0.26	5.00	0.88	0.90	1.12	0.83	1.14	0.85	52
3	2	1	1	4	.....	.....	.....	.....	.....	107	.....	54	.....	.....	53
2,040	(3)	(3)	(3)	939	.....	.....	.....	.....	.....	68,112	.....	59,221	.....	.....	54
1,597	(3)	(3)	(3)	889	.....	.....	.....	.....	.....	55,232	.....	47,638	.....	.....	55
.....	.....	.....	(3)	10	.....	.....	.....	.....	.....	34,112	.....	27,083	.....	.....	56
400	(3)	(3)	(3)	367	.....	.....	.....	.....	.....	1,546	.....	1,242	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special purposes.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued				COLORADO RIVER				
		Rio Grande—Continued					San Juan River			
		Pecos River—Continued		Colorado River (Texas)	Brazos River	Total	Total	Direct	Los Pinos River	Animas River
		Rio Hondo	Rio Penasco							
		(31)	(32)	(33)	(34)			(35)	(36)	(37)
	IRRIGATED FARMS AND AREAS									
1	Irrigated farms....1939...number....	685	113	43	306	2,711	1,863	981	9	679
2	Area irrigated....1939...acres....	32,379	3,267	1,967	10,831	49,841	36,178	17,397	149	13,925
3	(a) Cropland harvested....1939...acres....	31,057	2,933	1,816	10,387	44,777	32,490	16,347	116	12,440
4	(b) Crop failure....1939...acres....	404	204	17	132	1,439	1,421	469	6	.....
5	(c) Pasture....1939...acres....	918	130	134	312	3,625	2,267	581	27	1,485
6	Area irrigated....1929...acres....	25,010	6,833	.....	.....	55,310	40,253	9,772	160	24,425
7	1919...acres....	20,561	13,375	.....	.....	53,808	43,825	12,026	1,260	23,355
8	Increase or decrease (-), 1929-1939....percent....	29.5	-52.2	.....	.....	-9.9	-10.1	78.0	-6.9	-43.0
9	Irrigable area in enterprises....1940...acres....	36,676	8,534	3,405	21,594	82,874	52,889	30,691	287	15,353
10	1930...acres....	27,682	7,993	.....	.....	74,081	53,384	15,881	160	27,425
11	1920[1]...acres....	33,118	19,889	.....	.....	86,544	71,608	21,386	2,640	35,370
12	Excess of irrigable area over the area irrigated..1940...acres....	6,297	5,267	1,438	10,763	33,033	16,711	13,294	138	1,428
13	1930...acres....	2,672	1,160	.....	.....	18,771	13,131	6,109	.....	3,000
14	1920[1]...acres....	12,557	6,514	.....	.....	32,736	27,783	9,360	1,380	12,015
15	Area works were capable of supplying with water...1940...acres....	37,154	5,334	3,390	20,661	68,997	42,550	21,635	279	14,978
16	1930...acres....	27,201	7,993	.....	.....	71,495	51,703	15,075	160	27,325
17	1920...acres....	23,525	13,733	.....	.....	60,148	49,655	12,651	1,260	28,455
18	Increase or decrease (-), 1930-1940....percent....	36.6	33.3	.....	.....	-3.5	-17.7	43.5	74.4	-45.2
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	4,775	2,067	1,423	9,830	19,156	6,372	4,238	130	1,053
20	1930...acres....	2,191	1,160	.....	.....	16,185	11,450	5,303	.....	2,900
21	1920...acres....	2,964	358	.....	.....	6,340	5,830	625	.....	5,100
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	87.1	61.2	58.0	52.4	72.2	85.0	80.4	53.4	93.0
23	1929...percent....	91.9	85.5	.....	.....	77.4	77.9	64.8	100.0	89.4
24	1919...percent....	87.4	97.4	.....	.....	89.5	88.3	95.1	100.0	82.1
	CAPITAL INVESTED TO JANUARY 1									
25	Total investment in irrigation enterprises....1940...dollars....	1,095,808	89,830	45,173	361,860	3,690,983	2,673,568	2,134,345	484	387,141
26	(a) Cost of irrigation works and equipment....1940...dollars....	1,092,551	69,030	45,085	358,951	3,674,291	2,665,978	2,131,789	480	384,555
27	(b) Investment in water rights (reported)....1940...dollars....	3,257	20,800	88	2,909	16,692	7,590	2,556	4	2,586
28	Total investment in irrigation enterprises....1930...dollars....	621,688	107,545	.....	.....	1,719,587	966,516	423,504	1,500	451,420
29	1920...dollars....	578,094	222,693	.....	.....	1,786,290	1,715,867	807,700	3,000	824,450
30	Increase or decrease (-), 1930-1940....percent....	76.3	16.5	.....	.....	114.6	176.6	404.0	-67.7	-14.2
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	29.49	16.84	13.33	17.47	53.49	62.83	98.65	1.73	25.85
32	1930...dollars....	22.86	13.45	.....	.....	24.05	18.69	28.09	9.38	16.52
33	1920...dollars....	24.57	16.22	.....	.....	29.70	34.56	63.84	2.38	28.97
34	Average investment per acre irrigated....1939...dollars....	33.84	27.50	22.97	33.41	74.06	73.90	122.68	3.25	27.80
35	Estimated final investment in existing enterprises..1940...dollars....	1,101,328	89,830	52,223	369,169	5,082,695	3,754,500	3,077,545	496	388,111
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	28.48	10.53	15.34	17.10	61.33	70.99	100.28	1.73	25.28
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.							
37	Enterprises reporting maintenance and operation...1939...number....	363	2	17	35	227	204	60	20	7	17
38	Area irrigated in these enterprises....1939...acres....	30,229	(4)	2,484	1,589	8,426	47,092	34,321	17,385	149	12,080
39	Cost of maintenance and operation....1939...dollars....	89,826	(4)	1,855	5,837	36,421	104,530	87,500	69,940	197	13,605
40	Average cost, per acre irrigated....1939...dollars....	2.97	(4)	0.75	3.67	4.32	2.22	2.55	4.02	1.32	1.13
41	Total annual charges (reported)[5] [6]....1939...dollars....	7,527	.....	1,120	.....	.....	87,431	78,433	57,136	.....	17,472
42	Average annual charge per acre irrigated....1939...dollars....	2.02	.....	0.93	.....	.....	2.06	2.34	3.53	.....	1.31
43	Area against which charges were assessed....1939...acres....	3,743	.....	3,200	.....	.....	43,931	34,941	16,517	.....	14,098
44	Average annual charge per acre assessed....1939...dollars....	2.01	.....	0.35	.....	.....	1.99	2.24	3.46	.....	1.24
45	Total charges collected[5]....1939...dollars....	1,666	.....	2,400	.....	.....	37,038	35,616	24,119	.....	10,497
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	550	.....	24,000	.....	.....	455,926	455,394	429,743	.....	950
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered....1939...number....	298	2	16	31	283	192	45	14	7	12
48	Area irrigated by these enterprises....1939...acres....	30,300	(4)	2,472	1,388	10,669	35,609	26,218	14,066	149	9,588
49	Water delivered....1939...acre-feet..	75,495	(4)	5,219	1,668	24,243	127,278	98,620	50,930	85	43,712
50	Average water delivered per acre irrigated....1939...acre-feet..	2.5	(4)	2.1	1.2	2.3	3.6	3.8	3.6	0.6	4.6
51	Average cost of water per acre irrigated....1939...dollars....	3.19	(4)	0.72	2.87	4.32	2.15	2.42	3.51	1.32	1.22
52	Average cost of water per acre-foot delivered..1939...dollars....	1.28	(4)	0.34	2.39	1.90	0.60	0.64	0.97	2.32	0.27
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage....1939...number....	53	.....	.....	1	1	10	10	6	.....	2
54	Irrigable area in these enterprises....1939...acres....	8,891	.....	.....	(4)	(4)	16,989	16,989	13,601	.....	(4)
55	Irrigated area in these enterprises....1939...acres....	7,594	.....	.....	(4)	(4)	10,708	10,708	7,435	.....	(4)
56	Area for which drains have been installed....1939...acres....	7,029	.....	.....	(4)	(4)	605	605	265	.....	(4)
57	Additional area needing drainage....1939...acres....	304	.....	.....	.....	.....	3,172	3,172	2,472	.....	(4)

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Percent not shown when more than 1,000.
[3] Data for less than 3 enterprises shown with permission of the enterprise involved.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued						INDEPENDENT BASINS								
San Juan River—Continued		Little Colorado River	Upper Gila River			Salt Lake and Rito Creek	Estancia Valley	Rio Tularosa[5]	Fresnal River		Mimbres Valley		Animas Valley	
La Plata River	Chaco River	Zuni River	Total	Direct	San Francisco River									
(38)	(39)	(42)		(44)	(45)	(47)	(49)	(51)	(52)		(54)		(55)	
74	120	492	356	226	130	13	164	139	81		255		11	
4,007	700	3,305	10,358	8,166	2,192	149	1,430	2,957	834		12,836		343	
2,887	700	3,305	8,982	7,011	1,971	55	970	2,670	768		11,490		295	
946	.....	.....	18	.....	18	1	460	287	20		461		2	
174	.....	.....	1,358	1,155	203	93	.....	.....	46		885		46	
4,222	.....	5,684	9,373	7,824	1,442	.....	.....	2,500	1,835		9,042		.....	
5,830	.....	.....	9,983	6,424	3,162	.....	.....	4,547	1,798		12,557		.....	
-5.1	.....	-41.9	10.5	4.4	52.0	.....	.....	18.3	-54.6		42.0		.....	
4,808	1,750	11,260	18,725	9,344	9,381	232	4,775	3,103	947		20,081		647	
5,628	.....	9,850	10,847	8,539	1,716	.....	.....	2,500	1,884		10,457		.....	
9,445	.....	.....	14,936	7,027	6,986	.....	.....	6,095	3,598		24,243		.....	
801	1,050	7,955	8,367	1,178	7,189	83	3,345	146	113		7,245		304	
1,406	.....	4,166	1,474	715	274	.....	.....	.....	49		1,415		.....	
3,615	.....	.....	4,953	603	3,824	.....	.....	1,548	1,800		11,686		.....	
4,808	850	7,910	18,537	9,198	9,339	164	3,259	3,103	840		18,405		642	
5,468	.....	9,350	10,442	8,539	1,611	.....	.....	2,500	1,870		10,240		.....	
5,830	.....	.....	10,493	6,587	3,383	.....	.....	4,877	2,331		19,554		.....	
-12.1	.....	-15.4	77.5	7.7	479.7	.....	.....	24.1	-55.1		79.7		.....	
801	150	4,605	8,179	1,032	7,147	15	1,829	146	6		5,569		299	
1,246	.....	3,666	1,069	715	169	.....	.....	.....	35		1,198		.....	
.....	.....	.....	510	163	221	.....	.....	330	533		6,997		.....	
83.3	82.4	41.8	55.9	88.8	23.5	90.9	43.9	95.3	99.3		69.7		53.4	
77.2	.....	60.8	89.8	91.6	89.5	.....	.....	100.0	98.1		88.3		.....	
100.0	.....	.....	95.1	97.5	93.5	.....	.....	93.2	77.1		64.2		.....	
68,544	83,054	829,370	188,045	148,887	39,158	3,195	90,990	337,870	98,797		306,986		22,282	
66,100	83,054	829,370	178,943	142,573	36,370	3,195	90,735	173,982	60,526		301,132		21,130	
2,444	.....	.....	9,102	6,314	2,788	.....	255	163,888	38,271		5,854		1,152	
52,595	.....	631,131	121,940	102,050	19,315	.....	.....	20,000	57,370		260,071		.....	
47,975	.....	.....	70,423	47,182	9,809	.....	.....	33,900	297,724		318,062		.....	
30.3	.....	31.4	54.2	45.9	102.7	.....	.....	(8)	72.2		18.0		.....	
14.26	97.71	104.85	10.14	16.19	4.19	19.48	27.92	108.88	117.62		16.68		34.71	
9.62	.....	67.50	11.68	11.95	11.99	.....	.....	8.00	30.68		25.40		.....	
8.23	.....	.....	6.71	7.16	2.90	.....	.....	6.95	127.72		16.27		.....	
17.11	118.65	250.94	18.15	18.23	17.86	21.44	63.63	114.26	118.46		23.92		64.96	
68,744	219,604	1,133,370	194,825	155,017	39,808	3,720	97,640	402,870	104,012		312,258		24,582	
14.30	125.49	100.65	10.40	16.59	4.24	16.03	20.45	129.83	109.83		15.55		37.99	
									Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
15	[3]1	2	142	83	59	10	6	9	8	2	172	6	9	7
4,007	700	(4)	10,266	8,151	2,115	126	1,241	2,677	686	(4)	12,192	64	340	605
3,739	19	(4)	14,134	11,308	2,826	263	645	2,939	2,664	(4)	69,936	168	2,852	2,022
0.93	0.03	(4)	1.38	1.39	1.34	2.08	0.52	1.10	3.88	(4)	5.74	2.62	8.39	3.34
3,804	21	212	8,786	7,805	981	.....	305	3,035	2,081	.....	1,064	.....	.....	.....
1.15	0.03	0.09	1.37	1.42	1.07	.....	0.27	1.23	3.45	.....	0.94	.....	.....	.....
3,626	700	2,485	6,505	5,574	931	.....	1,140	2,471	603	.....	1,133	.....	.....	.....
1.05	0.03	0.09	1.35	1.40	1.05	.....	0.27	1.23	3.45	.....	0.94	.....	.....	.....
1,000	.....	.....	1,422	1,422	.....	.....	11,381	4,054	2,105	.....	.....	.....	.....	.....
.....	24,701	.....	532	532	.....	.....	.....	1,633	.....	.....	.....	.....	.....	.....
12	.....	1	146	84	62	13	8	10	6	2	179	7	9	7
2,415	.....	(4)	9,371	7,310	2,061	149	1,366	2,716	741	(4)	12,228	68	312	605
3,893	.....	(4)	28,648	23,006	5,642	380	1,843	7,421	2,326	(4)	26,890	69	831	486
1.6	.....	(4)	3.1	3.1	2.7	2.6	1.3	2.7	3.1	(4)	2.2	1.0	2.7	0.8
0.88	.....	(4)	1.39	1.42	1.27	2.08	0.46	1.28	3.23	(4)	5.83	2.62	9.20	3.34
0.55	.....	(4)	0.45	0.45	0.46	0.82	0.34	0.47	1.03	(4)	2.65	2.58	3.45	4.16
2	.....	.....	.....	.....	.....	.....	.....	[3]1	2	.....	2	.....	.....	.....
(4)	.....	.....	.....	.....	.....	.....	.....	333	(4)	.....	(4)	.....	.....	.....
(4)	.....	.....	.....	.....	.....	.....	.....	240	(4)	.....	(4)	.....	.....	.....
(4)	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	(4)	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	120	(4)	.....	.....	.....	.....	.....

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[8] Data for 1 enterprise in Tularosa Valley Drainage Basin (50) (number refers to separate map) are included with Rio Tularosa Drainage Basin (51).

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL[1]	GULF OF MEXICO					
				Total	Mississippi River				
					Arkansas River				
					Total	Cimarron River (2)	Canadian River		
							Total	Direct[2] (3)	Vermejo River (4)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	[3]2,505	1,999	146	28	118	29	3
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	292	318	538	201	618	125	3,335
3	Diversion dams	1940..total number	1,072	827	131	30	101	29	2
4		1930..total number	665	512	88	3	85	4	4
5		1920..total number	1,423	1,254	309	45	264	4	23
6	(a) Concrete and masonry	1940..number	121	101	17	5	12	3	.....
7	(b) Timber	1940..number	102	93	5	.....	5	.....	.....
8	(c) Earth and rock	1940..number	475	362	74	4	70	24	2
9	(d) Other, mixed, and not reported	1940..number	374	271	35	21	14	2	.....
10	Main canals and laterals	1940..total length, miles	4,647.9	3,614.6	464.4	66.1	398.3	57.0	75.0
11		1930..total length, miles	4,466	3,802	587	29	558	16	116
12		1920..total length, miles	5,932	5,139	1,136	162	974	12	150
13	(a) Earth	1940..length, miles	4,567	3,542	441	66	375	57	75
14	(b) Lined	1940..length, miles	80.9	72.6	23.4	0.1	23.3	.....	.....
15		1940..capacity, c.f.s.[4]	16,821	14,152	3,315	194	3,121	159	1,213
16		1930..capacity, c.f.s.[4]	17,479	15,400	5,584	84	5,500	27	3,012
17		1920..capacity, c.f.s.[4]	23,432	17,990	8,463	352	8,111	53	2,357
18	Pipe lines[5]	1940..total length, miles	36.5	25.5	1.5	0.1	1.4	.....	1.3
19		1930..total length, miles	15.2	14.6	3.0	.....	3.0	.....	1.0
20		1920..total length, miles	60.8	49.5	15.0	0.2	14.8	.....	1.1
21	(a) Concrete	1940..length, miles	8.7	8.5	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	21.4	14.6	1.4	0.1	1.3	.....	1.3
23	(c) Wood-stave	1940..length, miles	3.4	1.9	0.1	.....	0.1	.....	.....
24	(d) Other	1940..length, miles	3.0	0.5	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	141	87	25	1	24	2	9
26		1930..total number	69	51	24	2	22	1	9
27		1920..total number	153	130	69	8	61	2	10
28	(a) Concrete and masonry	1940..number	7	7	1	.....	1	.....	.....
29	(b) Earth and rock	1940..number	124	70	18	1	17	2	9
30	(c) Other, mixed, and not reported	1940..number	10	10	6	.....	6	.....	.....
31	Reservoirs	1940..total number	502	300	25	1	24	2	9
32	(a) 1-99 acre-feet capacity	1940..number	437	261	5	1	4	1	.....
33	(b) 100-999 acre-feet capacity	1940..number	38	19	13	.....	13	.....	9
34	(c) 1,000 and over acre-feet capacity	1940..number	27	20	7	.....	7	1	.....
35		1940..total capacity, ac.-ft.[6]	3,280,550	3,260,829	105,644	(7)	105,639	(7)	8,700
36		1930..total number	240	168	25	2	23	2	9
37		1930..total capacity, ac.-ft.	2,945,220	2,932,997	147,969	926	147,043	380	18,340
38	Wells, flowing	1940..number	268	258	.....	.....	.....	.....	.....
39		1930..number	340	339	.....	.....	.....	.....	.....
40		1920..number	556	551	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	181,076	180,398	.....	.....	.....	.....	.....
42		1930..yield, g.p.m.	223,257	222,257	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	376,222	375,302	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	1,487	1,220	3	1	2	1	.....
45		1930..number	680	330	.....	.....	.....	.....	.....
46		1920..number	461	373	7	2	5	.....	2
47		1940..yield, g.p.m.	1,143,276	1,033,280	112	(7)	(7)	(7)	.....
48		1930..yield, g.p.m.	481,898	252,720	.....	.....	.....	.....	.....
49		1920..yield, g.p.m.	265,618	218,674	3,347	36	3,311	.....	.....
50	Pumping plants	1940..total number	1,558	1,285	5	2	3	1	1
51		1930..total number	702	354	.....	.....	.....	.....	.....
52	Prime movers	1940..capacity, hp.	40,110	35,983	39	(7)	8	(7)	(7)
53		1930..capacity, hp.	14,483	7,475	.....	.....	.....	.....	.....
54		1920..capacity, hp.	8,488	6,405	98	32	66	.....	50
55	(a) Electric	1940..number	474	346	.....	.....	.....	.....	.....
56		1940..capacity, hp.	7,710	5,896	.....	.....	.....	.....	.....
57	(b) Internal-combustion	1940..number	1,019	903	2	1	1	.....	1
58		1940..capacity, hp.	32,068	29,801	(7)	(7)	(7)	.....	(7)
59	(c) Other	1940..number	65	36	3	1	2	1	.....
60		1940..capacity, hp.	332	286	5	(7)	(7)	(7)	.....
61	Pumps	1940..total number	1,559	1,291	5	2	3	1	1
62		1930..number	736	382	.....	.....	.....	.....	.....
63		1920..number	491	395	11	4	7	.....	2
64		1940..capacity, g.p.m.	1,309,005	1,193,409	1,712	(7)	206	(7)	(7)
65		1930..capacity, g.p.m.	555,063	324,763	.....	.....	.....	.....	.....
66		1920..capacity, g.p.m.	304,789	257,335	2,054	532	1,522	.....	.....
67	(a) Centrifugal	1940..number	592	532	.....	.....	.....	.....	.....
68		1940..capacity, g.p.m.	511,922	481,037	.....	.....	.....	.....	.....
69		1940..average capacity, g.p.m.	865	904	.....	.....	.....	.....	.....
70	(b) Turbine	1940..number	865	694	1	1	.....	.....	.....
71		1940..capacity, g.p.m.	781,410	697,820	(7)	(7)	.....	.....	.....
72		1940..average capacity, g.p.m.	903	1,006	(7)	(7)	.....	.....	.....
73	(c) Plunger	1940..number	84	48	4	1	3	1	1
74		1940..capacity, g.p.m.	1,906	1,285	212	(7)	206	(7)	(7)
75		1940..average capacity, g.p.m.	23	27	53	(7)	69	(7)	(7)
76	(d) Other	1940..number	18	17	.....	.....	.....	.....	.....
77		1940..capacity, g.p.m.	13,767	13,267	.....	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	44	41	40	(7)	49	(7)	(7)
79		1930..average, feet	40	.....	.....	.....	.....	.....	.....
80		1920..average, feet	40	52	52	36	60	.....	100
81	from pumped wells	1940..average, feet	46	42	52	(7)	(7)	(7)	.....
82	from surface sources	1940..average, feet	26	21	23	(7)	28	(7)	(7)

[1] Data for 2 enterprises in San Augustine Drainage Basin (48) (number refers to separate map) and for 1 enterprise in Sacramento-Salt Lakes Drainage Basin (53) are included with State total. Data for unidentified basins for the 1930 and 1920 Censuses are included only in State total.

[2] Data for 1 enterprise in Ute Creek Drainage Basin (10) (number refers to separate map) are included with Canadian River "Direct" Drainage Basin (3).

[3] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.

WORKS, 1940, 1930, AND 1920

GULF OF MEXICO—Continued												
Mississippi River—Continued								Rio Grande				
Arkansas River—Continued										Conejos River		
Canadian River—Continued								Total	Direct	San Antonio River	Costilla Creek	
Cimarron River (5)	Ocate Creek (6)	Mora River Total	Mora River Direct (7)	Mora River Coyote Creek (8)	Mora River Sapello Creek (9)	Carrizo Creek (11)	North Canadian River (12)		(14)	(15)	(16)	
7	6	65	40	5	20	4	4	1,503	180	10	15	1
4,405	169	413	428	484	364	54	116	355	1,260	79	259	2
11	6	50	32	4	14	2	1	696	114	3	13	3
9	2	58	.....	.....	.....	.....	.....	424	23	.....	4	4
60	27	108	.....	.....	.....	.....	.....	945	48	.....	48	5
6	.....	3	1	.....	2	.....	.....	84	33	.....	2	6
1	4	.....	.....	.....	.....	.....	.....	88	3	.....	3	7
3	2	36	23	4	9	2	1	288	60	2	4	8
1	.....	11	8	.....	3	.....	.....	236	18	1	4	9
65.0	11.0	184.2	117.1	13.0	54.1	4.1	2.0	3,149.5	1,461.9	8.0	47.0	10
145	35	212	.....	.....	.....	.....	.....	3,215	1,004	.....	39	11
332	93	272	.....	.....	.....	.....	.....	4,003	848	.....	43	12
47	11	179	113	13	53	4	2	3,101	1,444	8	47	13
18.0	.....	5.2	4.1	.....	1.1	0.1	.....	48.5	17.9	.....	.....	14
1,181	45	503	333	37	133	5	15	10,836	5,389	26	290	15
989	117	1,060	.....	.....	.....	.....	.....	9,816	4,349	.....	270	16
2,035	1,217	1,075	.....	.....	.....	.....	.....	9,527	3,007	.....	139	17
.....	.....	0.1	.....	.....	0.1	.....	.....	23.9	13.3	0.1	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	11.6	0.5	.....	.....	19
4.8	1.5	.....	.....	.....	.....	.....	.....	34.5	2.3	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	.....	8.5	5.2	.....	.....	21
.....	.....	.....	.....	.....	.....	.....	.....	13.1	7.3	0.1	.....	22
.....	.....	0.1	.....	.....	0.1	.....	.....	1.8	0.5	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	0.5	0.3	.....	.....	24
6	.....	2	1	.....	1	2	3	62	29	.....	1	25
4	.....	4	.....	.....	.....	.....	.....	27	1	.....	1	26
9	3	12	.....	.....	.....	.....	.....	61	5	.....	.....	27
1	.....	.....	.....	.....	.....	.....	.....	6	2	.....	.....	28
3	.....	1	1	.....	.....	2	.....	52	25	.....	1	29
2	.....	1	.....	.....	1	.....	3	4	2	.....	.....	30
6	.....	2	1	.....	1	2	3	274	40	1	1	31
.....	.....	2	1	.....	1	1	.....	255	37	1	.....	32
.....	.....	.....	.....	.....	.....	1	3	6	.....	.....	.....	33
6	.....	.....	.....	.....	.....	.....	.....	13	3	.....	1	34
93,650	.....	(7)	(7)	.....	(7)	(7)	1,125	3,155,183	2,655,464	(7)	(7)	35
4	.....	3	.....	.....	.....	.....	.....	143	3	.....	1	36
96,400	.....	24,800	.....	.....	.....	.....	.....	2,785,028	2,638,866	.....	15,739	37
.....	.....	.....	.....	.....	.....	.....	.....	258	7	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	339	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	551	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	180,398	153	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	222,257	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	375,302	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	1	840	54	1	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	330	.....	.....	.....	45
.....	.....	1	.....	.....	.....	.....	.....	366	26	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	(7)	721,853	6,133	(7)	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	252,720	.....	.....	.....	48
.....	.....	3,300	.....	.....	.....	.....	.....	215,327	11,356	.....	.....	49
.....	.....	.....	.....	.....	.....	.....	1	905	76	1	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	354	2	.....	.....	51
.....	.....	.....	.....	.....	.....	.....	(7)	25,094	517	(7)	.....	52
.....	.....	.....	.....	.....	.....	.....	.....	7,475	46	.....	.....	53
10	.....	5	.....	.....	.....	.....	.....	6,307	336	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	331	7	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	5,671	81	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	545	46	.....	.....	57
.....	.....	.....	.....	.....	.....	.....	.....	19,343	404	.....	.....	58
.....	.....	.....	.....	.....	.....	.....	1	29	23	1	.....	59
.....	.....	.....	.....	.....	.....	.....	(7)	80	32	(7)	.....	60
.....	.....	.....	.....	.....	.....	.....	1	906	73	1	.....	61
.....	.....	.....	.....	.....	.....	.....	.....	382	2	.....	.....	62
1	.....	2	.....	.....	.....	.....	.....	384	30	.....	.....	63
.....	.....	.....	.....	.....	.....	.....	(7)	862,117	26,420	(7)	.....	64
.....	.....	.....	.....	.....	.....	.....	.....	324,763	2,080	.....	.....	65
1,500	.....	10	.....	.....	.....	.....	.....	255,281	14,828	.....	.....	66
.....	.....	.....	.....	.....	.....	.....	.....	384	38	.....	.....	67
.....	.....	.....	.....	.....	.....	.....	.....	356,912	16,407	.....	.....	68
.....	.....	.....	.....	.....	.....	.....	.....	929	432	.....	.....	69
.....	.....	.....	.....	.....	.....	.....	.....	482	3	.....	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	503,585	9,500	.....	.....	71
.....	.....	.....	.....	.....	.....	.....	.....	1,045	3,167	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	1	36	31	1	.....	73
.....	.....	.....	.....	.....	.....	.....	(7)	553	503	(7)	.....	74
.....	.....	.....	.....	.....	.....	.....	(7)	15	16	(7)	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	4	1	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	1,067	(7)	.....	.....	77
.....	.....	.....	.....	.....	.....	.....	(7)	38	16	(7)	.....	78
.....	.....	.....	.....	.....	.....	.....	.....	29	30	.....	.....	79
22	.....	35	.....	.....	.....	.....	.....	35	33	.....	.....	80
.....	.....	.....	.....	.....	.....	.....	(7)	40	18	(7)	.....	81
.....	.....	.....	.....	.....	.....	.....	.....	21	12	.....	.....	82

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		GULF OF MEXICO—Continued						
			Rio Grande—Continued						
							Rio Chama		
			Latir Creek and Red River (17)	Rio Hondo (18)	Rio Pueblo de Taos (19)	Embudo River (20)	Total	Direct (21)	Caliente River (22)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises	1940..number	7	11	29	54	128	92	36
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	1,079	428	737	180	203	238	113
3	Diversion dams	1940..total number	4	8	38	34	110	69	41
4		1930..total number	.....	.....	18	.....	91	.....	.....
5		1920..total number	.....	.....	40	.....	187	.....	.....
6	(a) Concrete and masonry	1940..number	.....	2	.....	2	2	1	1
7	(b) Timber	1940..number	2	.....	9	2	4	3	1
8	(c) Earth and rock	1940..number	1	4	8	10	55	40	15
9	(d) Other, mixed, and not reported	1940..number	1	2	21	20	49	25	24
10	Main canals and laterals	1940..total length, miles	45.1	33.0	163.3	126.0	314.0	236.0	78.0
11		1930..total length, miles	.....	.....	134	.....	347	.....	.....
12		1920..total length, miles	.....	.....	87	.....	378	.....	.....
13	(a) Earth	1940..length, miles	45	33	151	126	314	236	78
14	(b) Lined	1940..length, miles	0.1	.....	12.3	.....	.....	.....	.....
15		1940..capacity, c.f.s.[1]	160	92	221	282	559	436	123
16		1930..capacity, c.f.s.[1]	.....	.....	348	.....	789	.....	.....
17		1920..capacity, c.f.s.[1]	.....	.....	434	.....	832	.....	.....
18	Pipe lines[2]	1940..total length, miles	.....	.....	.....	0.2	0.1	0.1	.....
19		1930..total length, miles	.....	.....	.....	.....	.....	.....	.....
20		1920..total length, miles	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete	1940..length, miles	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	.....	.....	.....	0.1	0.1	0.1	.....
23	(c) Wood-stave	1940..length, miles	.....	.....	.....	0.1	.....	.....	.....
24	(d) Other	1940..length, miles	.....	.....	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	1	.....	4	.....	1	1	.....
26		1930..total number	.....	.....	.....	.....	2	.....	.....
27		1920..total number	.....	.....	.....	.....	2	.....	.....
28	(a) Concrete and masonry	1940..number	.....	.....	2	.....	.....	.....	.....
29	(b) Earth and rock	1940..number	1	.....	2	.....	.....	.....	.....
30	(c) Other, mixed, and not reported	1940..number	.....	.....	.....	.....	1	1	.....
31	Reservoirs	1940..total number	1	.....	4	1	1	1	.....
32	(a) 1-99 acre-feet capacity	1940..number	.....	.....	3	1	.....	.....	.....
33	(b) 100-999 acre-feet capacity	1940..number	1	.....	1	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	.....	.....	.....	.....	1	1	.....
35		1940..total capacity, ac.-ft.[4]	(5)	.....	201	(5)	(5)	(5)	.....
36		1930..total number	.....	.....	.....	.....	3	.....	.....
37		1930..total capacity, ac.-ft.	.....	.....	.....	.....	601	.....	.....
38	Wells, flowing	1940..number	.....	.....	.....	.....	.....	.....	.....
39		1930..number	.....	.....	.....	.....	.....	.....	.....
40		1920..number	.....	.....	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
42		1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	.....	.....	.....	.....	.....	.....	.....
45		1930..number	.....	.....	.....	.....	.....	.....	.....
46		1920..number	.....	.....	.....	.....	.....	.....	.....
47		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
48		1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
49		1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants	1940..total number	.....	.....	.....	.....	1	1	.....
51		1930..total number	.....	.....	.....	.....	.....	.....	.....
52	Prime movers	1940..capacity, hp.	.....	.....	.....	.....	(5)	(5)	.....
53		1930..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
54		1920..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric	1940..number	.....	.....	.....	.....	.....	.....	.....
56		1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion	1940..number	.....	.....	.....	.....	1	1	.....
58		1940..capacity, hp.	.....	.....	.....	.....	(5)	(5)	.....
59	(c) Other	1940..number	.....	.....	.....	.....	.....	.....	.....
60		1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
61	Pumps	1940..total number	.....	.....	.....	.....	1	1	.....
62		1930..number	.....	.....	.....	.....	.....	.....	.....
63		1920..number	.....	.....	.....	.....	.....	.....	.....
64		1940..capacity, g.p.m.	.....	.....	.....	.....	(5)	(5)	.....
65		1930..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
66		1920..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal	1940..number	.....	.....	.....	.....	1	1	.....
68		1940..capacity, g.p.m.	.....	.....	.....	.....	(5)	(5)	.....
69		1940..average capacity, g.p.m.	.....	.....	.....	.....	(5)	(5)	.....
70	(b) Turbine	1940..number	.....	.....	.....	.....	.....	.....	.....
71		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
72		1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger	1940..number	.....	.....	.....	.....	.....	.....	.....
74		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
75		1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
76	(d) Other	1940..number	.....	.....	.....	.....	.....	.....	.....
77		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	.....	.....	.....	.....	(5)	(5)	.....
79		1930..average, feet	.....	.....	.....	.....	.....	.....	.....
80		1920..average, feet	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells	1940..average, feet	.....	.....	.....	.....	.....	.....	.....
82	from surface sources	1940..average, feet	.....	.....	.....	.....	(5)	(5)	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] Data for less than 3 enterprises shown with permission of the enterprises involved.

WORKS, 1940, 1930, AND 1920—Continued

GULF OF MEXICO—Continued												
Rio Grande—Continued												
			Rio Puerco				Pecos River					
Santa Cruz River (23)	Tesuque Creek (24)	Jemez Creek (25)	Total	Direct (26)	San Jose River (27)	Alamosa River (28)	Total	Direct (29)	Gallinas River (30)	Rio Hondo (31)	Rio Penasco (32)	
19	34	17	23	12	11	6	970	504	11	407	48	1
371	210	256	1,054	408	1,759	128	194	270	890	91	111	2
12	33	19	28	15	13	9	271	71	11	125	64	3
10	15	.....	39	.....	.....	.....	159	20	15	75	24	4
11	18	.....	30	.....	.....	.....	368	169	38	99	16	5
.....	4	.....	2	.....	2	.....	37	9	3	21	4	6
.....	.....	.....	2	1	1	.....	63	4	.....	20	39	7
6	9	8	15	9	6	7	9.9	36	4	59	.....	8
6	20	11	9	5	4	2	72	22	4	25	21	9
75.0	108.3	46.0	184.8	71.0	113.8	25.0	512.1	263.7	64.6	127.4	56.4	10
102	75	.....	262	.....	.....	.....	762	320	44	230	55	11
55	56	.....	257	.....	.....	.....	1,512	524	92	383	270	12
75	108	46	181	71	110	25	498	251	64	127	56	13
.....	0.3	.....	3.8	.....	3.8	.....	14.1	12.7	0.6	0.4	0.4	14
100	127	68	356	133	223	51	3,115	2,178	298	361	278	15
166	98	.....	537	.....	.....	.....	2,017	1,071	243	317	167	16
134	72	.....	215	.....	.....	.....	2,894	1,418	276	547	245	17
.....	1.5	0.4	.....	.....	.....	0.1	8.2	3.4	.....	4.5	0.3	18
.....	1.7	.....	.....	.....	.....	.....	2.3	0.4	.....	0.3	.....	19
0.1	.....	.....	.....	.....	.....	.....	18.2	5.5	0.5	11.0	0.5	20
.....	.....	.....	.....	.....	.....	.....	3.3	0.5	.....	2.7	0.1	21
.....	1.2	.....	.....	.....	.....	0.1	4.2	2.2	.....	1.8	0.2	22
.....	0.1	0.4	.....	.....	.....	.....	0.7	0.7	.....	.....	.....	23
.....	0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
1	3	1	6	.....	6	.....	15	12	1	2	.....	25
1	.....	.....	8	.....	.....	.....	6	2	1	.....	.....	26
.....	.....	.....	9	.....	.....	.....	16	2	5	2	.....	27
1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	28
.....	3	1	5	.....	5	.....	14	12	.....	2	.....	29
.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	30
1	4	[3]1	6	.....	6	1	212	198	2	12	.....	31
.....	4	1	1	.....	1	1	206	194	.....	12	.....	32
.....	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	33
1	.....	.....	1	.....	1	.....	6	4	2	.....	.....	34
[5]	20	75	55,447	.....	55,447	[5]	222,560	198,539	[5]	21	.....	35
1	.....	.....	6	.....	.....	.....	122	3	2	5	.....	36
10,000	.....	.....	53,130	.....	.....	.....	54,955	50,400	70	204	.....	37
.....	.....	.....	.....	.....	.....	.....	251	178	.....	73	.....	38
.....	.....	.....	.....	.....	.....	.....	339	2	.....	76	.....	39
.....	.....	.....	.....	.....	.....	.....	549	286	.....	176	51	40
.....	.....	.....	.....	.....	.....	.....	180,245	122,260	.....	57,985	.....	41
.....	.....	.....	.....	.....	.....	.....	222,257	1,800	.....	46,707	.....	42
.....	.....	.....	.....	.....	.....	.....	375,275	198,415	.....	125,606	30,132	43
.....	.....	2	.....	.....	.....	2	781	446	.....	334	1	44
.....	.....	.....	.....	.....	.....	.....	319	2	.....	111	1	45
.....	.....	.....	.....	.....	.....	.....	245	96	1	79	10	46
.....	.....	[5]	.....	.....	.....	[5]	713,267	431,035	.....	281,632	[5]	47
.....	.....	.....	.....	.....	.....	.....	252,271	4,900	.....	81,031	600	48
.....	.....	.....	.....	.....	.....	.....	153,429	70,598	3	46,585	7,210	49
.....	.....	2	.....	.....	.....	2	823	488	.....	334	1	50
.....	.....	.....	.....	.....	.....	.....	338	26	.....	111	1	51
.....	.....	[5]	.....	.....	.....	[5]	24,513	16,764	.....	7,739	[5]	52
.....	.....	.....	.....	.....	.....	.....	7,405	769	.....	1,673	20	53
.....	.....	.....	.....	.....	.....	.....	4,455	2,379	.....	1,041	216	54
.....	.....	.....	.....	.....	.....	2	322	151	.....	171	.....	55
.....	.....	.....	.....	.....	.....	[5]	5,565	3,190	.....	2,375	.....	56
.....	.....	2	.....	.....	.....	.....	496	335	.....	160	1	57
.....	.....	[5]	.....	.....	.....	.....	18,901	13,532	.....	5,359	[5]	58
.....	.....	.....	.....	.....	.....	.....	5	2	.....	3	.....	59
.....	.....	.....	.....	.....	.....	.....	47	[5]	.....	5	.....	60
.....	.....	2	.....	.....	.....	2	827	492	.....	334	1	61
.....	.....	.....	.....	.....	.....	.....	369	26	.....	130	1	62
.....	.....	.....	1	.....	.....	.....	256	106	1	79	11	63
.....	.....	[5]	.....	.....	.....	[5]	832,687	536,335	.....	295,752	[5]	64
.....	.....	.....	.....	.....	.....	.....	322,234	50,688	.....	80,131	600	65
.....	.....	.....	.....	.....	.....	.....	193,036	96,448	3	57,275	9,000	66
.....	.....	2	.....	.....	.....	.....	343	125	.....	218	.....	67
.....	.....	[5]	.....	.....	.....	.....	338,305	153,425	.....	184,880	.....	68
.....	.....	[5]	.....	.....	.....	.....	986	1,227	.....	848	.....	69
.....	.....	.....	.....	.....	.....	2	477	366	.....	110	1	70
.....	.....	.....	.....	.....	.....	[5]	493,285	382,900	.....	109,785	[5]	71
.....	.....	.....	.....	.....	.....	[5]	1,034	1,046	.....	998	[5]	72
.....	.....	.....	.....	.....	.....	.....	4	1	.....	3	.....	73
.....	.....	.....	.....	.....	.....	.....	40	[5]	.....	30	.....	74
.....	.....	.....	.....	.....	.....	.....	10	[5]	.....	10	.....	75
.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3	.....	76
.....	.....	.....	.....	.....	.....	.....	1,057	.....	.....	1,057	.....	77
.....	.....	[5]	.....	.....	.....	[5]	40	47	.....	29	[5]	78
.....	.....	.....	.....	.....	.....	.....	26	17	.....	24	40	79
.....	.....	.....	96	.....	.....	.....	28	28	75	21	29	80
.....	.....	[5]	.....	.....	.....	[5]	41	50	.....	29	[5]	81
.....	.....	.....	.....	.....	.....	.....	25	25	.....	.....	.....	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Con.		COLORADO RIVER				
					San Juan River			
		Colorado River (Texas) (33)	Brazos River (34)	Total	Total	Direct (35)	Los Pinos River (36)	Animas River (37)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	42	308	223	64	21	7	20
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	81	67	309	665	1,030	40	749
3	Diversion dams....1940..total number	.....	.....	177	70	43	.....	14
4	1930..total number	.....	.....	102	40	10	.....	10
5	1920..total number	.....	.....	76	44	11	4	14
6	(a) Concrete and masonry....1940..number	.....	.....	10	7	3	.....	.....
7	(b) Timber....1940..number	.....	.....	3	1	.....	.....	1
8	(c) Earth and rock....1940..number	.....	.....	84	6	5	.....	1
9	(d) Other, mixed, and not reported..1940..number	.....	.....	80	56	35	.....	12
10	Main canals and laterals....1940..total length, miles	0.5	0.2	864.5	583.6	387.9	.....	141.6
11	1930..total length, miles	.....	.....	544	351	94	2	190
12	1920..total length, miles	.....	.....	501	360	109	8	177
13	(a) Earth....1940..length, miles	.....	.....	859	579	384	.....	141
14	(b) Lined....1940..length, miles	0.5	0.2	5.5	4.6	3.9	.....	0.6
15	1940..capacity, c.f.s.[2]	.....	1	2,343	1,584	767	8	645
16	1930..capacity, c.f.s.[2]	.....	.....	1,839	1,115	345	3	568
17	1920..capacity, c.f.s.[2]	.....	.....	1,820	1,403	240	32	923
18	Pipe lines[3]....1940..total length, miles	.....	0.1	5.2	4.2	3.4	.....	0.7
19	1930..total length, miles	.....	.....	0.3	0.3	.....	.....	0.3
20	1920..total length, miles	.....	.....	2.5	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	0.1	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	0.1	3.6	2.7	2.7	.....	.....
23	(c) Wood-stave....1940..length, miles	.....	.....	1.5	1.5	0.7	.....	0.7
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	.....	.....	35	17	11	.....	.....
26	1930..total number	.....	.....	10	3	.....	.....	.....
27	1920..total number	.....	.....	13	11	1	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	.....	.....	35	17	11	.....	.....
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	1	.....	50	17	11	.....	.....
32	(a) 1-99 acre-feet capacity....1940..number	1	.....	25	.....	.....	.....	.....
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	18	17	11	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	7	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]	(5)	.....	18,929	8,950	6,850	.....	.....
36	1930..total number	.....	.....	8	3	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	.....	11,194	2,096	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	10	7	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	4	4	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	678	360	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	845	845	.....	.....	.....
44	Wells, pumped....1940..number	47	330	19	1	.....	.....	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	1	1	.....	.....	.....
47	1940..yield, g.p.m.	39,605	271,710	1,424	(5)	.....	.....	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	47	328	26	1	.....	.....	.....
51	1930..total number	.....	.....	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp.	1,302	9,548	146	(5)	.....	.....	.....
53	1930..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp.	.....	.....	9	5	.....	.....	.....
55	(a) Electric....1940..number	.....	15	.....	.....	.....	.....	.....
56	1940..capacity, hp.	.....	225	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	47	309	12	1	.....	.....	.....
58	1940..capacity, hp.	1,302	9,122	121	(5)	.....	.....	.....
59	(c) Other....1940..number	.....	4	14	.....	.....	.....	.....
60	1940..capacity, hp.	.....	201	25	.....	.....	.....	.....
61	Pumps....1940..total number	47	333	21	1	.....	.....	.....
62	1930..number	.....	.....	.....	.....	.....	.....	.....
63	1920..number	.....	.....	4	2	.....	.....	.....
64	1940..capacity, g.p.m.	41,355	288,225	3,085	(5)	.....	.....	.....
65	1930..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	675	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	7	141	5	1	.....	.....	.....
68	1940..capacity, g.p.m.	1,950	122,175	2,460	(5)	.....	.....	.....
69	1940..average capacity, g.p.m.	279	866	492	(5)	.....	.....	.....
70	(b) Turbine....1940..number	33	178	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	38,985	153,750	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	1,181	864	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	7	1	15	.....	.....	.....	.....
74	1940..capacity, g.p.m.	420	(5)	125	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	60	(5)	8	.....	.....	.....	.....
76	(d) Other....1940..number	.....	13	1	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	12,200	(5)	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	55	46	52	(5)	.....	.....	.....
79	1930..average, feet	.....	.....	.....	.....	.....	.....	.....
80	1920..average, feet	.....	.....	94	170	.....	.....	.....
81	from pumped wells....1940..average, feet	55	46	(5)	.....	.....	.....	.....
82	from surface sources...1940..average, feet	.....	.....	50	.....	.....	.....	.....

[1] Data for less than 3 enterprises shown with permission of the enterprises involved.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued						INDEPENDENT BASINS						
San Juan River—Continued		Little Colorado River	Upper Gila River									
La Plata River (38)	Chaco River (39)	Zuni River (42)	Total	Direct (44)	San Francisco River (45)	Salt Lake and Rito Creek (47)	Estancia Valley (49)	Rio Tularosa* (51)	Fresnal River (52)	Mimbres Valley (54)	Animas Valley (55)	
15	[1] 1	3	156	89	67	16	11	12	15	208	18	1
321	850	2,637	119	103	139	10	296	259	50	88	36	2
9	4	1	106	49	57	3	4	16	6	37	.....	3
14	.....	5	57	23	33	.....	.....	1	5	38	.....	4
11	.....	.....	32	4	26	.....	.....	6	33	45	.....	5
.....	4	.....	3	3	.....	.....	.....	2	4	4	.....	6
.....	.....	.....	2	.....	2	.....	.....	5	1	.....	.....	7
.....	.....	1	77	33	44	3	4	7	1	13	.....	8
9	.....	.....	24	13	11	.....	.....	2	.....	20	.....	9
43.0	11.1	32.2	248.7	146.7	102.0	2.0	18.1	24.8	25.7	87.0	9.2	10
42	.....	61	132	81	46	.....	.....	14	29	61	.....	11
49	.....	.....	141	77	56	.....	.....	116	73	91	.....	12
43	11	32	248	146	102	2	18	23	25	87	9	13
.....	0.1	0.2	0.7	0.7	.....	.....	0.1	1.8	0.7	.....	0.2	14
149	15	56	703	480	223	10	48	37	61	162	5	15
136	.....	85	639	537	94	.....	.....	40	20	153	.....	16
186	.....	.....	417	299	88	.....	.....	240	205	3,168	.....	17
0.1	.....	.....	1.0	0.7	0.3	.....	.....	2.5	2.0	1.3	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	2.5	0.3	.....	.....	.....	.....	7.7	1.1	.....	20
.....	.....	.....	0.1	0.1	.....	.....	.....	.....	.....	0.1	.....	21
.....	.....	.....	0.9	0.6	0.3	.....	.....	.....	2.0	1.2	.....	22
0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	2.5	.....	.....	.....	24
.....	6	7	11	8	3	6	4	4	.....	5	.....	25
1	.....	4	3	.....	2	.....	.....	.....	.....	1	.....	26
1	.....	.....	2	.....	.....	.....	.....	3	.....	5	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	6	7	11	8	3	6	4	4	.....	5	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	6	7	26	22	4	5	4	4	.....	139	.....	31
.....	.....	.....	25	22	3	5	4	4	.....	138	.....	32
.....	6	.....	1	.....	1	.....	.....	.....	.....	1	.....	33
.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
.....	2,100	9,305	674	67	607	56	64	205	.....	467	.....	35
1	.....	4	1	.....	1	.....	.....	.....	.....	58	.....	36
150	.....	8,497	601	.....	601	.....	.....	.....	.....	1,005	.....	37
.....	7	.....	3	3	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	40
.....	360	.....	318	318	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75	.....	43
1	.....	.....	18	13	5	5	8	.....	4	213	18	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	154	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	85	.....	46
(5)	.....	.....	1,264	1,241	23	342	1,565	.....	1,450	94,843	10,372	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68,096	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	119	.....	46,825	.....	49
1	.....	.....	25	17	8	5	7	.....	4	214	17	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	152	.....	51
(5)	.....	.....	138	70	68	10	37	.....	57	3,566	311	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,115	.....	53
.....	.....	.....	4	.....	.....	.....	.....	9	.....	2,065	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	126	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	(5)	1,802	.....	56
1	.....	.....	11	7	4	5	1	.....	2	79	17	57
(5)	.....	.....	113	49	64	10	(5)	.....	(5)	1,750	311	58
.....	.....	.....	14	10	4	.....	6	.....	.....	9	.....	59
.....	.....	.....	25	21	4	.....	7	.....	.....	14	.....	60
1	.....	.....	20	14	6	5	7	.....	4	213	18	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	159	.....	62
.....	.....	.....	2	.....	1	.....	.....	2	.....	90	.....	63
(5)	.....	.....	2,925	1,382	1,543	522	715	.....	1,450	98,602	11,222	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69,978	.....	65
.....	.....	.....	675	.....	275	.....	.....	119	.....	46,660	.....	66
1	.....	.....	4	2	2	3	.....	.....	.....	43	9	67
(5)	.....	.....	2,300	(5)	(5)	510	.....	.....	.....	22,915	5,000	68
(5)	.....	.....	575	(5)	(5)	170	.....	.....	.....	533	556	69
.....	.....	.....	.....	.....	.....	.....	1	.....	4	159	7	70
.....	.....	.....	.....	.....	.....	.....	(5)	.....	1,450	75,468	6,022	71
.....	.....	.....	.....	.....	.....	.....	(5)	.....	362	475	860	72
.....	.....	.....	15	11	4	2	6	.....	.....	11	2	73
.....	.....	.....	125	82	43	(5)	65	.....	.....	219	(5)	74
.....	.....	.....	8	7	11	(5)	11	.....	.....	20	(5)	75
.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	(5)	(5)	.....	.....	.....	.....	.....	.....	.....	77
(5)	.....	.....	54	62	31	36	50	.....	118	64	38	78
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67	.....	79
.....	.....	.....	17	.....	20	.....	.....	68	.....	57	.....	80
(5)	.....	.....	56	60	30	36	50	.....	112	64	38	81
.....	.....	.....	50	68	32	.....	.....	.....	130	60	44	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
* Data for 1 enterprise in Tularosa Valley Drainage Basin (50) (number refers to separate map) are included with Rio Tularosa Drainage Basin (51).

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Bernalillo	Catron	Chaves	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms.....1940...number.....	34,105		1,646	641	979	
2	1930...number.....	31,404		1,248	438	883	
3	Irrigated farms.....1940...number.....	15,811		1,031	141	645	
4	1930...number.....	14,347		874	66	587	
5	Increase or decrease (-), 1930-1940.....percent....	10.2		18.0	113.6	9.9	
	Operated by—						
6	(a) Owners and managers.....1940...number.....	13,396		921	118	426	
7	1930...number.....	11,477		798	54	362	
8	(b) Tenants.....1940...number.....	2,415		110	23	219	
9	1930...number.....	2,870		76	12	225	
10	Land in all farms.....1940...acres.....	38,860,427		135,327	1,992,108	2,838,707	
11	Land in irrigated farms.....1940...acres.....	7,408,997		47,741	1,044,889	416,817	
12	Average per farm.....1940...acres.....	469		46	7,411	646	
13	(a) Operated by owners and managers.....1940...acres.....	6,501,491		43,048	1,028,907	339,462	
14	Average per farm.....1940...acres.....	485		47	8,720	797	
15	(b) Operated by tenants.....1940...acres.....	907,506		4,693	15,982	77,355	
16	Average per farm.....1940...acres.....	376		43	695	353	
17	Approximate land area.....1940...acres.....	77,767,040		744,320	4,414,720	3,900,160	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	554,039		20,586	2,563	72,957	
19	(a) Cropland harvested.....1939...acres.....	512,441		20,511	2,159	68,554	
20	(b) Crop failure.....1939...acres.....	21,069		28	19	898	
21	(c) Pasture.....1939...acres.....	20,529		49	385	3,505	
22	Area irrigated.....1929...acres.....	527,033		15,718	1,474	51,302	
23	1919...acres.....	538,377		14,536	.....	42,259	
24	Increase or decrease (-), 1929-1939.....percent....	5.1		31.0	73.9	42.2	
25	Irrigable area in enterprises.....1940...acres.....	807,656		29,489	9,990	86,574	
26	1930...acres.....	741,245		19,861	1,778	59,739	
27	1920[1]...acres.....	961,879		19,056	.....	57,785	
28	Excess of irrigable area over the area irrigated..1940...acres.....	253,617		8,901	7,427	13,617	
29	1930...acres.....	214,212		4,143	304	8,437	
30	Area works were capable of supplying with water...1940...acres.....	731,990		29,404	9,845	83,542	
31	1930...acres.....	656,669		19,323	1,673	58,623	
32	1920...acres.....	696,119		15,218	.....	47,433	
33	Increase or decrease (-), 1930-1940.....percent....	11.5		52.2	488.5	42.5	
34	Excess, capability of works over area irrigated...1940...acres.....	177,951		8,816	7,282	10,585	
35	1930...acres.....	129,636		3,605	199	7,321	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	7.5		43.1	0.2	17.5	
37	1929...percent....	10.5		37.0	3.5	14.6	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	75.7		70.0	26.0	87.3	
39	1929...percent....	80.3		81.3	88.1	87.5	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	32,735,997		2,365,233	43,833	2,188,653	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	32,290,856		2,365,136	41,045	2,172,403	
42	(b) Investment in water rights (reported).....1940...dollars....	445,141		97	2,788	16,250	
43	Total investment in all enterprises.....1930...dollars....	19,834,380		118,277	19,315	1,971,272	
44	1920...dollars....	18,210,412		165,784	.....	1,323,948	
45	Increase or decrease (-), 1930-1940.....percent....	65.0		([2])	126.9	11.0	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	44.72		80.44	4.45	26.20	
47	1930...dollars....	30.20		6.12	11.55	33.63	
48	1920...dollars....	26.16		10.89	.....	27.91	
49	Average investment per acre irrigated.....1939...dollars....	59.09		114.88	17.10	30.00	
50	Estimated final investment in existing enterprises..1940...dollars....	36,773,139		2,433,623	44,933	2,198,023	
51	1930...dollars....	21,942,450		118,277	19,915	1,971,772	
52	1920...dollars....	20,440,646		165,784	.....	1,334,688	
53	Increase or decrease (-), 1930-1940.....percent....	67.6		([2])	125.6	11.5	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	45.53		82.53	4.50	25.39	
55	1930...dollars....	29.60		5.96	11.20	33.01	
56	1920[1]...dollars....	21.25		8.70	.....	23.10	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises			Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number.....	2,018	49	24	80	408	33
58	Area irrigated in these enterprises.....1939...acres.....	516,916	5,083	20,472	2,465	69,654	4,361
59	Cost of maintenance and operation.....1939...dollars....	1,082,768	10,142	63,901	3,204	189,960	7,849
60	Average cost, per acre irrigated.....1939...dollars....	2.09	2.00	3.12	1.30	2.73	1.80
61	1929...dollars....	2.15	.....	3.17	2.80	3.13	.....
62	Total annual charges (reported)[3] [4].....1939...dollars....	966,767	.....	116,017	981	16,500	.....
63	Average annual charge per acre irrigated.....1939...dollars....	2.47	.....	5.70	1.07	1.28	.....
64	Area against which charges were assessed.....1939...acres.....	483,407	.....	29,199	931	11,134	.....
65	Average annual charge per acre assessed.....1939...dollars....	2.00	.....	3.97	1.05	1.48	.....
66	Total charges collected[3].....1939...dollars....	1,037,433	.....	144,809	.....	11,917	.....
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	16,715,813	.....	2,204,791	.....	3,550	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	1,960	51	25	86	448	34
69	Area irrigated in these enterprises.....1939...acres.....	474,184	5,097	18,974	2,432	72,418	4,389
70	Water delivered in these enterprises.....1939...acre-feet..	1,438,686	7,732	121,354	6,359	194,288	7,048
71	Average water delivered per acre irrigated.....1939...acre-feet..	3.0	1.5	6.4	2.6	2.7	1.6
72	Average cost of water per acre irrigated.....1939...dollars....	2.80	2.00	6.07	1.24	2.88	1.80
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	162	.....	3	.....	87	.....
74	Irrigable area in these enterprises.....1939...acres.....	331,233	.....	28,933	.....	27,333	.....
75	Irrigated area in these enterprises.....1939...acres.....	231,795	.....	20,190	.....	25,163	.....
76	Area for which drains have been installed.....1939...acres.....	240,614	.....	28,933	.....	20,585	.....
77	Additional area needing drainage.....1939...acres.....	8,732	.....	.....	.....	311	.....

*Census of Agriculture.

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[2] Percent not shown when more than 1,000.

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Colfax	Dona Ana	Eddy	Grant	Guadalupe	Hidalgo	Lea	Lincoln	Luna	McKinley	
659	1,574	655	618	476	228	549	640	308	1,996	1
798	2,129	1,054	576	596	335	610	569	235	996	2
215	1,476	505	283	185	76	75	166	157	440	3
280	2,000	860	233	169	84	93	184	124	238	4
-23.2	-26.2	-41.3	21.5	9.5	-9.5	-19.4	-9.8	26.6	84.9	5
147	1,005	314	202	158	58	62	125	120	434	6
168	1,154	285	123	143	61	.....	130	100	237	7
68	471	191	81	27	18	13	41	37	6	8
112	846	575	110	26	23	.....	54	24	1	9
1,866,677	424,350	1,616,449	1,217,768	963,025	754,621	1,948,537	2,003,681	829,439	1,678,115	10
1,069,197	211,492	354,698	529,709	31,890	40,956	159,207	94,451	96,744	112,256	11
4,973	143	702	1,872	172	539	2,123	569	616	255	12
634,983	182,549	319,526	516,334	29,712	39,382	149,097	91,147	82,917	107,321	13
4,320	182	1,018	2,556	188	679	2,405	729	691	247	14
434,214	28,943	35,172	13,375	2,178	1,574	10,110	3,304	13,827	4,935	15
6,386	61	184	165	81	87	778	81	374	822	16
2,409,600	2,434,560	2,664,320	2,540,800	1,918,720	2,206,080	2,811,520	3,109,760	1,892,480	3,491,840	17
31,344	76,523	54,971	7,521	3,007	2,976	1,967	4,608	10,893	4,005	18
30,377	71,245	53,198	6,452	2,674	2,428	1,816	4,506	10,038	4,005	19
20	4,017	905	4	153	2	17	92	469	.....	20
947	1,261	868	1,065	180	546	134	10	386	.....	21
33,414	75,275	52,432	6,753	3,431	3,623	.....	4,761	6,937	5,684	22
66,187	52,265	51,353	6,987	3,206	2,840	.....	6,128	11,323	6,919	23
-6.2	1.7	4.8	11.4	-12.4	-17.9	.....	-3.2	57.0	-29.5	24
61,038	97,338	79,144	8,550	3,112	3,350	3,405	4,851	18,078	13,010	25
70,026	79,000	61,870	7,935	3,936	3,823	.....	4,842	8,245	9,850	26
117,715	88,023	87,661	7,781	5,102	3,340	.....	11,899	34,786	9,057	27
29,694	20,815	24,173	1,029	105	374	1,438	243	7,185	9,005	28
36,612	3,725	9,438	1,182	505	200	.....	81	1,308	4,166	29
43,854	87,963	72,847	8,421	3,011	3,345	3,390	4,724	16,420	8,760	30
64,346	77,500	60,579	7,592	3,796	3,823	.....	4,804	8,071	9,350	31
90,881	65,057	59,784	7,243	4,800	2,940	.....	6,341	21,143	7,229	32
-31.8	13.5	20.3	10.9	-20.7	-12.5	.....	-1.7	103.4	-6.3	33
12,510	11,440	17,876	900	4	369	1,423	116	5,527	4,755	34
30,932	2,225	8,147	839	365	200	.....	43	1,134	3,666	35
2.9	36.2	15.5	1.4	9.4	7.3	1.2	4.9	11.3	3.6	36
2.9	44.8	15.1	2.6	17.8	38.2	.....	1.8	12.5	5.2	37
71.5	87.0	75.5	89.3	99.9	89.0	58.0	97.5	66.3	45.7	38
51.9	97.1	86.6	88.9	90.4	94.8	.....	99.1	85.9	60.8	39
1,661,205	3,841,764	5,530,699	134,643	256,866	70,051	45,173	46,946	276,431	912,424	40
1,575,677	3,841,601	5,501,466	129,660	252,666	66,683	45,085	45,758	271,427	912,424	41
85,528	163	29,233	4,983	4,200	3,368	88	1,188	5,004	.....	42
1,646,780	6,517,241	2,642,110	50,305	121,450	69,850	.....	31,980	261,191	631,131	43
4,526,888	2,485,908	2,952,707	54,162	87,195	31,935	.....	51,939	422,450	697,280	44
0.9	-41.1	109.3	167.7	111.5	0.3	.....	46.8	5.8	44.6	45
37.86	43.67	75.92	15.99	85.31	20.94	13.33	9.94	16.84	104.16	46
25.59	84.09	43.61	6.63	31.99	18.27	.....	6.66	32.36	67.50	47
49.81	38.21	49.39	7.48	18.17	10.86	.....	8.19	19.98	96.46	48
53.00	50.20	100.61	17.90	85.42	23.54	22.97	10.19	25.38	227.82	49
1,691,205	3,988,944	5,778,218	140,848	265,016	72,351	52,223	47,246	281,703	1,352,974	50
1,776,780	6,676,241	2,663,860	50,305	121,450	69,850	.....	36,180	261,191	881,881	51
4,626,388	2,488,908	3,503,207	56,967	93,195	46,935	.....	52,014	430,350	702,280	52
-4.8	-40.3	116.9	180.0	118.2	3.6	.....	30.6	7.9	53.4	53
27.71	40.98	73.01	16.47	85.16	21.60	15.34	9.74	15.58	103.99	54
25.37	84.51	43.06	6.34	30.86	18.27	.....	7.47	31.68	89.53	55
39.30	28.28	39.96	7.32	18.27	14.05	.....	4.37	12.37	77.54	56
			Primary Enterprises / Supplemental Enterprises		Primary Enterprises / Supplemental Enterprises					
26	10	167	102 / 6	9	12 / 7	35	127	143	3	57
31,095	76,523	48,257	7,389 / 64	3,007	2,973 / 605	1,589	4,475	10,364	3,205	58
21,107	158,721	111,130	9,303 / 168	6,923	7,476 / 2,022	5,837	5,917	69,101	2,915	59
0.68	2.07	2.30	1.26 / 2.63	2.30	2.51 / 3.34	3.67	1.32	6.67	0.91	60
1.44	2.76	2.50	1.80 /	2.57	1.93 /	.....	2.22	9.30	2.00	61
36,062	158,024	55,681	3,711 /	6,345	5,028 /	.....	3,601	130	233	62
1.25	2.07	2.37	0.96 /	2.23	1.91 /	.....	1.94	1.00	0.07	63
37,118	89,856	31,005	3,874 /	2,847	2,703 /	.....	1,857	130	3,185	64
0.97	1.76	1.80	0.96 /	2.23	1.86 /	.....	1.94	1.00	0.07	65
34,343	273,432	17,510	241 /	135	1,181 /	.....	366	.....	.....	66
218,187	2,513,259	3,390,482	..... /	90	532 /	.....	.....	.....	24,701	67
34	9	222	104 / 7	9	11 / 7	31	33	151	1	68
31,344	76,503	54,417	6,420 / 68	3,007	2,945 / 605	1,388	1,893	10,570	(5)	69
38,324	249,262	164,645	18,938 / 69	5,285	8,431 / 486	1,668	5,326	23,688	(5)	70
1.2	3.3	3.0	2.9 / 1.0	1.8	2.9 / 0.8	1.2	2.8	2.2	(5)	71
1.19	2.07	2.48	1.21 / 2.62	2.28	2.68 / 3.34	2.87	2.19	6.71	(5)	72
1	[6] 1	15	2 /	1	..... /	1	2	.....	.....	73
(5)	97,010	33,075	(5) /	(5)	..... /	(5)	(5)	.....	.....	74
(5)	76,238	24,690	(5) /	(5)	..... /	(5)	(5)	.....	.....	75
.....	87,585	9,927	(5) /	.....	..... /	(5)	.....	.....	.....	76
(5)	500	1,017	..... /	(5)	..... /	.....	(5)	.....	.....	77

[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Mora	Otero		Quay	Rio Arriba	Roosevelt
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[*]						
1	All farms....1940...number....	1,222	656		999	2,622	1,797
2	1930...number....	1,318	537		1,176	2,492	1,579
3	Irrigated farms....1940...number....	501	237		21	1,792	314
4	1930...number....	658	178		41	1,748	186
5	Increase or decrease (-), 1930-1940....percent....	-23.9	33.1		-48.8	2.5	68.8
	Operated by—						
6	(a) Owners and managers....1940...number....	449	170		16	1,691	225
7	1930...number....	599	143		.....	1,704	118
8	(b) Tenants....1940...number....	52	67		5	101	89
9	1930...number....	59	35		.....	44	68
10	Land in all farms....1940...acres.....	868,720	882,426		1,704,163	1,014,558	1,385,930
11	Land in irrigated farms....1940...acres.....	357,968	92,123		11,480	212,864	34,379
12	Average per farm....1940...acres.....	715	389		547	119	109
13	(a) Operated by owners and managers....1940...acres.....	303,945	81,283		8,750	188,914	26,660
14	Average per farm....1940...acres.....	677	478		547	112	118
15	(b) Operated by tenants....1940...acres.....	54,023	10,840		2,730	23,950	7,719
16	Average per farm....1940...acres.....	1,039	162		546	237	87
17	Approximate land area....1940...acres.....	1,242,880	4,248,320		1,845,120	3,747,200	1,571,200
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres.....	21,260	4,618		243	35,581	10,872
19	(a) Cropland harvested....1939...acres.....	19,825	4,233		237	30,226	10,425
20	(b) Crop failure....1939...acres.....	805	307		.....	2,585	132
21	(c) Pasture....1939...acres.....	630	78		6	2,770	315
22	Area irrigated....1929...acres.....	26,137	5,349		.....	41,449	4,823
23	1919...acres.....	17,833	7,556		.....	46,036	.....
24	Increase or decrease (-), 1929-1939....percent....	-18.7	-13.7		.....	14.2	125.4
25	Irrigable area in enterprises....1940...acres.....	23,860	4,880		619	47,291	21,694
26	1930...acres.....	31,184	5,658		.....	56,226	5,308
27	1920[3]...acres.....	37,673	12,117		.....	68,691	.....
28	Excess of irrigable area over the area irrigated..1940...acres.....	2,600	262		376	11,710	10,822
29	1930...acres.....	5,047	309		.....	14,777	485
30	Area works were capable of supplying with water...1940...acres.....	22,483	4,773		619	41,283	20,761
31	1930...acres.....	30,139	5,644		.....	49,081	5,248
32	1920...acres.....	29,749	8,565		.....	50,247	.....
33	Increase or decrease (-), 1930-1940....percent....	-25.4	-15.4		.....	-15.9	295.6
34	Excess, capability of works over area irrigated...1940...acres.....	1,223	155		376	5,702	9,889
35	1930...acres.....	4,002	295		.....	7,632	425
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	5.9	5.0		2.1	16.7	31.6
37	1929...percent....	7.3	16.2		.....	23.9	21.0
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	94.6	96.8		39.3	86.1	52.4
39	1929...percent....	86.7	94.8		.....	84.5	91.9
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars....	114,617	442,922		14,694	681,604	363,060
41	(a) Cost of irrigation works and equipment....1940...dollars....	107,925	240,763		14,694	679,559	360,151
42	(b) Investment in water rights (reported)....1940...dollars....	6,692	202,159		.....	2,045	2,909
43	Total investment in all enterprises....1930...dollars....	132,700	156,015		.....	404,181	182,433
44	1920...dollars....	316,097	361,284		.....	245,425	.....
45	Increase or decrease (-), 1930-1940....percent....	-13.6	183.9		.....	68.6	99.0
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	5.10	92.80		23.74	16.51	17.49
47	1930...dollars....	4.40	27.64		.....	8.23	34.76
48	1920...dollars....	10.63	42.18		.....	4.88	.....
49	Average investment per acre irrigated....1939...dollars....	5.39	95.91		60.47	19.16	33.39
50	Estimated final investment in existing enterprises..1940...dollars....	116,877	513,237		15,569	966,539	370,369
51	1930...dollars....	135,700	156,076		.....	447,885	182,683
52	1920...dollars....	327,786	364,489		.....	259,670	.....
53	Increase or decrease (-), 1930-1940....percent....	-13.9	228.8		.....	115.8	102.7
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	4.90	105.17		25.15	20.44	17.07
55	1930...dollars....	4.35	27.59		.....	7.97	34.42
56	1920[3]...dollars....	8.70	30.08		.....	3.78	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises			
57	Enterprises reporting maintenance and operation...1939...number.....	49	21	2	8	159	228
58	Area irrigated in these enterprises....1939...acres.....	19,040	3,407	([8])	243	32,660	8,467
59	Cost of maintenance and operation....1939...dollars....	3,764	5,706	([8])	509	19,769	36,624
60	Average cost, per acre irrigated....1939...dollars....	0.20	1.67	([8])	2.09	0.61	4.33
61	1929...dollars....	0.44	2.18	.....	.....	1.16	6.89
62	Total annual charges (reported)[6 7]....1939...dollars....	4,479	5,116	.....	.....	24,497	.....
63	Average annual charge per acre irrigated....1939...dollars....	0.28	1.66	.....	.....	0.81	.....
64	Area against which charges were assessed....1939...acres.....	17,023	3,074	.....	.....	31,170	.....
65	Average annual charge per acre assessed....1939...dollars....	0.26	1.66	.....	.....	78.6	.....
66	Total charges collected[6]....1939...dollars....	735	6,159	.....	.....	8,554	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars....	2,500	1,633	.....	.....	179,619	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number.....	37	18	2	8	134	283
69	Area irrigated in these enterprises....1939...acres.....	17,593	3,482	([5])	243	24,580	10,669
70	Water delivered in these enterprises....1939...acre-feet..	17,137	9,748	([5])	149	38,894	24,243
71	Average water delivered per acre irrigated....1939...acre-feet..	1.0	2.8	([5])	0.6	1.6	2.3
72	Average cost of water per acre irrigated....1939...dollars....	0.15	1.66	([5])	2.09	0.77	4.32
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number.....	1	3	.....	.....	11	1
74	Irrigable area in these enterprises....1939...acres.....	([5])	718	.....	.....	5,673	([5])
75	Irrigated area in these enterprises....1939...acres.....	([5])	625	.....	.....	4,982	([5])
76	Area for which drains have been installed....1939...acres.....	.....	17	.....	.....	316	([5])
77	Additional area needing drainage....1939...acres.....	([6])	130	.....	.....	577	.....

[*] Census of Agriculture.

[1] Data between census years not comparable (see headnote).

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Irrigation data omitted from any of the counties listed are included under "All other counties"]

Sandoval	San Juan	San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia	All other counties[1]	
1,710	2,383	1,482	973	397	798	1,803	1,301	1,035	1,945	2,013	1
1,309	1,422	1,070	687	449	849	1,423	1,055	1,454	1,274	2,243	2
1,197	1,185	433	598	282	510	1,663	53	52	1,435	143	3
998	759	517	488	278	377	1,225	20	29	959	94	4
19.9	56.1	-16.2	22.5	1.4	35.3	35.8	165.0	79.3	49.6	52.1	5
1,117	986	379	588	222	407	1,564	48	43	1,309	92	6
969	557	442	480	223	341	1,179	18	24	892	173	7
80	199	54	10	60	103	99	5	9	126	51	8
29	202	75	8	55	36	45	2	5	67	55	9
402,842	1,628,742	1,595,560	545,677	964,387	936,571	190,309	1,460,421	[2]2,472,803	1,165,394	3,372,820	10
111,430	401,400	183,265	20,054	218,746	59,135	168,252	13,671	640,785	496,836	176,562	11
93	339	423	34	776	116	101	258	12,323	346	1,235	12
108,075	385,150	165,612	17,992	214,318	49,139	165,558	12,311	551,441	486,383	171,575	13
97	391	437	31	965	121	106	256	12,824	372	1,865	14
3,355	16,250	17,653	2,062	4,428	9,996	2,694	1,360	89,344	10,453	4,987	15
42	82	327	206	74	97	27	272	9,927	83	98	16
2,439,040	3,529,600	3,039,360	1,243,520	1,941,760	4,974,080	1,443,840	2,137,600	2,442,880	3,607,680	3,774,080	17
18,630	34,759	19,280	10,403	4,840	13,311	37,123	1,425	5,779	37,022	4,970	18
17,192	31,256	18,015	9,512	4,406	13,034	31,995	965	4,996	33,191	4,970	19
745	1,321	739	484	276	191	3,611	460	108	2,681	.....	20
693	2,182	526	407	158	86	1,517	.....	675	1,150	.....	21
19,621	38,421	22,823	12,612	6,451	7,328	47,428	477	2,525	27,288	3,497	22
23,214	42,470	16,565	10,582	8,491	11,110	59,607	1,085	6,774	19,241	3,810	23
-5.1	-9.5	-15.5	-17.5	-25.0	81.6	-21.7	198.7	128.9	35.7	42.1	24
33,186	49,846	21,677	13,102	7,161	27,869	53,618	4,769	6,995	65,870	7,290	25
32,460	51,236	28,484	17,043	12,854	9,729	99,626	478	4,649	46,468	8,937	26
32,988	68,515	68,806	12,244	18,432	29,780	88,265	1,550	20,056	48,780	11,777	27
14,556	15,087	2,397	2,699	2,321	14,558	16,495	3,344	1,216	28,848	2,320	28
12,839	12,815	5,661	4,431	6,403	2,401	52,198	1	2,124	19,180	5,440	29
31,450	40,790	21,552	11,728	6,053	26,843	46,950	3,254	6,295	64,340	7,290	30
26,015	49,555	28,454	15,160	11,884	8,960	56,878	477	4,629	36,226	8,839	31
26,659	48,195	43,277	10,858	9,533	13,356	67,061	1,165	17,986	32,666	8,733	32
20.9	-17.7	-24.3	-22.6	-49.1	199.6	-17.5	582.2	36.0	77.6	-17.5	33
12,820	6,031	2,272	1,325	1,213	13,532	9,827	1,829	516	27,318	2,320	34
6,394	11,134	5,631	2,548	5,433	1,632	9,450	.....	2,104	8,938	5,342	35
16.7	8.7	10.5	51.9	2.2	22.5	22.1	10.4	0.9	7.5	2.8	36
13.1	54.8	10.0	23.0	2.4	16.1	59.8	8.5	1.0	30.0	0.9	37
59.2	85.2	89.5	88.7	80.0	49.6	79.1	43.8	91.8	57.5	68.2	38
75.4	77.5	80.2	83.2	54.3	81.8	83.4	100.0	54.5	75.3	39.6	39
1,941,964	2,564,775	1,097,378	399,823	286,000	2,106,332	594,528	89,425	166,950	4,264,946	233,058	40
1,940,302	2,557,185	1,094,930	399,125	285,058	2,105,350	576,787	89,170	164,710	4,221,058	233,058	41
1,662	7,590	2,448	698	942	982	17,741	255	2,240	43,888	.....	42
197,152	941,116	226,343	482,182	796,179	101,025	1,217,794	6,625	66,620	725,208	117,905	43
108,419	1,666,875	777,482	69,975	758,484	235,051	160,886	21,100	363,939	194,471	130,728	44
885.0	172.5	384.8	-17.1	-64.1	[4]	-51.2	[4]	150.6	488.1	97.7	45
61.75	62.88	50.92	34.09	47.25	78.47	12.66	27.48	26.52	66.29	31.97	46
7.58	18.99	7.95	31.81	67.00	11.28	21.41	13.89	14.39	20.02	1,334	47
4.07	34.59	1,797	6.44	79.56	17.60	2.40	18.11	20.23	5.95	14.97	48
104.24	73.79	56.92	38.43	59.09	158.24	16.02	62.75	28.89	115.20	46.89	49
2,584,979	3,457,557	1,146,928	698,598	291,375	2,112,382	995,108	96,025	167,150	4,660,081	233,058	50
199,002	943,316	229,463	482,182	797,479	101,025	2,691,979	6,725	66,620	735,458	119,155	51
124,939	2,716,875	788,502	69,975	1,060,459	259,351	177,176	23,600	382,389	227,991	156,728	52
[4]	266.5	399.8	44.9	-63.5	[4]	-63.0	[4]	150.9	533.6	95.6	53
77.89	69.36	52.91	53.32	40.69	75.80	18.56	20.14	23.90	70.75	31.97	54
6.13	18.41	8.06	28.29	62.04	10.38	27.02	14.07	14.33	15.83	13.33	55
3.79	39.65	11.46	5.72	57.53	8.71	2.01	15.23	19.07	4.67	13.31	56
				Primary Enterprises: 60 / Supplemental Enterprises: 1							
36	56	53	60	60	11	85	4	29	10	3	57
16,998	32,902	18,068	10,144	4,778	13,291	28,636	1,236	5,373	35,232	4,970	58
48,835	86,311	12,313	8,422	9,052	59,572	13,447	580	5,329	111,613	5,427	59
2.87	2.62	0.68	0.83	1.89	4.48	0.47	0.47	0.99	3.17	1.09	60
1.33	2.07	0.70	0.76	4.51	3.78	0.72	0.62	3.70	3.23	3.69	61
81,645	78,412	10,981	12,003	7,784	106,107	14,227	305	.....	200,898	18,000	62
4.86	2.39	0.62	1.22	2.04	8.03	0.48	0.27	.....	5.70	3.67	63
23,680	34,241	18,243	9,846	4,673	28,130	32,458	1,140	.....	58,690	7,200	64
3.45	2.29	0.60	1.22	1.67	3.77	0.44	0.27	.....	3.42	2.50	65
99,072	35,616	198	4,910	12,862	127,413	7,502	11,381	.....	226,799	12,298	66
1,664,418	430,693	.....	160,158	153,969	1,933,624	148,445	.....	.....	3,547,506	137,656	67
27	42	48	46	58	12	46	6	19	9	3	68
9,717	25,499	17,038	7,880	4,005	13,311	19,124	1,361	2,789	29,592	4,970	69
70,989	97,253	19,462	10,061	10,776	74,675	25,618	1,841	4,533	157,554	38,175	70
7.3	3.8	1.1	1.3	2.7	5.6	1.3	1.4	1.6	5.3	7.7	71
7.68	2.44	0.58	1.26	1.82	7.99	0.51	0.40	0.78	8.56	3.69	72
6	10	1	5	3	2	2	.....	1	2	1	73
21,325	16,989	[5]	2,652	4,454	[5]	[5]	.....	[5]	[5]	[5]	74
11,383	10,708	[5]	2,602	2,465	[5]	[5]	.....	[5]	[5]	[5]	75
21,325	605	.....	40	3,005	[5]	[5]	.....	[5]	[5]	[5]	76
.....	3,172	[5]	397	245	[5]	[5]	.....	.....	.....	.....	77

[4] Percent not shown when more than 1,000.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Bernalillo	Catron	Chaves	Colfax	Dona Ana	Eddy	Grant
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	187,525,814	5,235,036	3,411,369	13,753,593	9,635,294	16,281,330	9,549,306	9,517,826
2	Land and buildings, irrigated farms....dollars..	82,619,776	4,365,694	1,110,952	9,171,106	5,637,112	15,432,930	8,023,090	4,826,076
	Operated by—								
3	(a) Owners and managers....dollars..	67,593,251	3,743,494	1,051,302	7,104,533	3,560,665	12,009,995	6,030,840	4,369,476
4	(b) Tenants....dollars..	15,026,525	622,200	59,650	2,066,573	2,076,447	3,422,935	1,992,250	456,600
5	Average, land and buildings, per farm....dollars..	5,225.46	4,234.43	7,879.09	14,218.77	26,219.13	10,455.91	15,887.31	17,053.27
6	per acre in farms....dollars..	11.15	91.45	1.06	22.00	5.27	72.97	22.62	11.23
7	Buildings, irrigated farms reporting value....number...	14,236	925	136	613	212	1,396	477	268
8	Total reported....dollars..	14,976,063	1,337,791	178,348	1,558,089	525,600	2,299,260	1,126,046	751,040
9	Average, per irrigated farm reporting....dollars..	1,051.99	1,446.26	1,311.38	2,541.74	2,479.25	1,647.03	2,360.68	2,802.39
10	per acre on all irrigated farms....dollars..	2.02	28.02	0.17	3.74	0.49	10.87	3.17	1.42
11	Buildings, nonirrigated farms reporting value....number...	17,255	564	489	309	431	95	146	327
12	Total reported....dollars..	13,277,393	253,897	289,530	351,274	479,625	158,537	214,245	885,521
13	Average, per nonirrigated farm reporting....dollars..	769.48	450.17	592.09	1,136.81	1,112.82	1,668.81	1,467.43	2,708.02
14	per acre on all nonirrigated farms....dollars..	0.42	2.90	0.31	0.15	0.60	0.74	0.17	1.29
15	Implements and machinery, irrigated farms reporting value..number...	13,043	769	113	514	203	1,396	452	265
16	Total reported....dollars..	6,937,641	311,880	74,640	947,221	248,193	1,379,173	731,791	379,697
17	Average, per irrigated farm reporting....dollars..	531.91	405.57	660.53	1,842.84	1,210.70	987.95	1,619.01	1,432.82
18	per acre, on all irrigated farms....dollars..	0.94	6.53	0.07	2.27	0.23	6.52	2.06	0.72
19	Implements and machinery, nonirrigated farms reporting value....number...	15,179	450	410	250	397	77	124	282
20	Total reported....dollars..	8,275,033	102,718	162,704	175,535	253,425	102,804	88,099	357,618
21	Average, per acre, on all nonirrigated farms....dollars..	0.26	1.17	0.17	0.07	0.32	0.48	0.07	0.52
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	[1] 2,522	36	94	498	34	10	241	120
23	1930...number....	[1] 1,969	21	45	359	30	2	181	69
24	1920...number....	2,391	44	.....	339	86	12	240	70
25	Average size of enterprise based on irrigable area....1940...acres....	320	819	106	174	1,795	9,734	328	71
26	1930...acres....	376	946	40	166	2,334	39,500	342	115
27	1920[2]..acres....	402	433	.....	170	1,369	7,335	365	111
28	Diversion dams....1940...number....	1,072	25	68	50	40	3	12	71
29	Main canals and laterals....1940...length, miles....	4,647.9	192.0	113.0	137.7	189.0	372.8	103.2	158.7
30	1930...length, miles....	4,466	124	46	165	333	330	266	106
31	1920...length, miles....	5,932	228	.....	310	612	53	589	108
32	1940...capacity, c.f.s.[3]....	16,821	351	249	1,084	2,539	1,524	871	362
33	1930...capacity, c.f.s.[3]....	17,479	486	94	292	4,376	1,650	1,045	496
34	1920...capacity, c.f.s.[3]....	23,432	137	.....	836	5,889	1,231	1,215	331
35	Pipe lines[4]....1940...length, miles....	36.5	1.4	0.6	3.8	1.3	0.2	1.6	1.5
36	Storage dams....1940...number....	141	4	9	5	16	.....	7	8
37	Reservoirs....1940...number....	502	4	11	66	16	.....	135	28
38	1930...number....	240	1	1	77	18	1	40	.....
39	1920...number....	328	10	.....	74	38	6	27	10
40	1940...capacity, acre-feet..	3,280,550	176	665	322	104,350	.....	50,187	219
41	1930...capacity, acre-feet..	2,945,220	1	601	1,220	121,983	5	53,264	.....
42	1920...capacity, acre-feet..	2,960,718	1,001	.....	313	65,658	6	81,855	55
43	Wells, flowing....1940...number....	268	.....	.....	120	.....	.....	131	3
44	1930...number....	340	.....	.....	223	.....	.....	116	.....
45	1920...number....	556	.....	.....	318	.....	.....	230	.....
46	1940...yield, g.p.m....	181,076	.....	.....	91,775	.....	.....	88,470	318
47	1930...yield, g.p.m....	223,257	.....	.....	162,277	.....	.....	59,980	.....
48	1920...yield, g.p.m....	376,222	.....	.....	228,885	.....	.....	146,330	.....
49	Wells, pumped....1940...number....	1,487	1	12	563	.....	.....	199	27
50	1930...number....	680	.....	.....	255	.....	.....	64	5
51	1920...number....	461	13	.....	143	2	8	48	4
52	1940...yield, g.p.m....	1,143,276	[5]	374	510,490	.....	.....	190,350	3,055
53	1930...yield, g.p.m....	481,898	.....	.....	212,231	.....	.....	40,040	920
54	1920...yield, g.p.m....	265,618	6,261	.....	99,328	.....	1,575	27,118	400
55	Pumping plants....1940...number....	1,558	3	16	597	1	7	206	29
56	1930...number....	702	.....	.....	267	.....	1	71	5
57	1920...number....	472	12	.....	146	2	8	52	8
58	Prime movers....1940...capacity, hp....	40,110	28	85	17,727	[5]	90	6,203	220
59	1930...capacity, hp....	14,483	.....	.....	5,972	.....	45	1,433	41
60	1920...capacity, hp....	8,488	126	.....	2,810	60	109	843	32
61	Pumps....1940...capacity, g.p.m....	1,309,005	4,522	2,078	602,360	[5]	5,150	210,050	4,178
62	1930...capacity, g.p.m....	555,063	.....	.....	259,756	.....	2,000	62,478	1,070
63	1920...capacity, g.p.m....	304,789	6,361	.....	135,605	1,500	2,277	30,633	800
64	Pumping lift, from all sources....1940...average, feet....	44	6	40	37	[5]	9	45	38
65	1930...average, feet....	40	.....	.....	26	.....	53	28	59
66	1920...average, feet....	40	37	.....	26	61	42	28	35
67	from pumped wells....1940...average, feet....	46	[5]	42	38	.....	.....	46	35
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	218	6	5	9	5	[7] 1	5	10
69	Irrigated area in these enterprises....acres....	330,218	20,292	742	12,379	28,774	76,238	23,681	3,737
70	Wages and salaries paid and payable....dollars..	718,210	56,527	540	6,672	19,682	129,000	59,831	2,452
71	Persons employed during week ending April 29....number...	1,773	64	9	21	59	93	76	16

* Census of Agriculture.

[1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Guadalupe	Hidalgo	Lea	Lincoln	Luna	McKinley	Mora	Otero	Quay	Rio Arriba	Roosevelt	Sandoval	San Juan	San Miguel	
2,536,261	2,177,656	7,487,414	5,154,362	3,067,678	2,559,139	4,099,821	3,353,046	8,422,845	5,307,024	10,945,919	2,961,738	5,523,766	5,487,066	1
270,306	537,700	1,218,035	964,586	1,335,410	560,003	2,033,480	1,228,828	117,870	3,429,438	1,568,769	2,149,114	3,938,623	1,346,604	2
233,954	474,600	1,148,885	851,011	1,022,410	524,847	1,790,605	908,738	83,170	3,172,256	1,249,484	1,956,268	3,264,988	1,122,469	3
36,352	63,100	69,150	113,575	313,000	35,156	242,875	320,090	34,700	257,182	319,285	192,846	673,635	224,135	4
1,461.11	7,075.00	16,240.47	5,810.76	8,505.80	1,272.73	4,058.84	5,184.93	5,612.86	1,913.75	4,996.08	1,795.42	3,323.73	3,109.94	5
8.48	13.13	7.65	10.21	13.80	4.98	7.88	13.34	10.27	16.11	45.63	19.28	9.81	7.35	6
169	72	75	163	156	357	475	228	19	1,722	298	627	1,160	384	7
42,481	54,195	156,070	165,495	255,060	200,990	207,603	343,802	24,250	776,391	370,230	419,799	950,614	333,798	8
252.86	752.71	2,080.93	1,015.31	1,635.00	563.00	437.06	1,507.90	1,276.32	450.87	1,242.38	669.54	819.49	869.27	9
1.33	1.32	0.98	1.75	2.64	1.79	0.58	3.73	2.11	3.65	10.77	3.77	2.37	1.82	10
269	150	455	446	150	1,485	683	401	922	794	1,426	438	1,178	989	11
155,994	201,951	703,571	360,216	296,695	495,792	194,707	699,096	918,486	186,521	1,341,592	116,077	262,130	539,740	12
579.90	1,346.34	1,546.31	807.66	1,977.97	333.87	285.08	1,743.38	996.19	234.91	940.81	265.02	222.52	545.74	13
0.17	0.28	0.39	0.19	0.40	0.32	0.38	0.88	0.54	0.23	0.99	0.40	0.21	0.38	14
144	63	69	117	154	402	409	193	21	1,481	281	905	1,039	325	15
23,722	44,162	75,410	67,872	202,960	59,568	104,263	94,996	22,486	294,290	171,605	199,944	384,853	91,866	16
164.74	700.98	1,092.90	580.10	1,317.92	148.18	254.92	492.21	1,070.76	198.71	610.69	220.93	370.41	282.66	17
0.74	1.08	0.47	0.72	2.10	0.53	0.29	1.03	1.96	1.38	4.99	1.79	0.96	0.50	18
230	129	399	381	134	1,324	585	371	841	677	1,272	317	1,076	845	19
86,041	94,315	277,340	182,484	100,035	193,996	102,725	237,871	706,580	129,738	1,128,466	48,260	112,925	171,705	20
0.09	0.13	0.15	0.10	0.14	0.12	0.20	0.30	0.42	0.16	0.83	0.17	0.09	0.12	21
9	21	42	131	167	4	57	62	12	187	309	45	60	65	22
10	5	12	64	130	8	55	30	41	235	159	60	52	69	23
16	5	.....	102	153	15	102	95	.....	274	.....	82	54	101	24
346	160	81	37	108	3,252	419	79	52	253	70	737	831	333	25
394	765	.....	76	63	1,231	567	189	.....	239	33	541	985	413	26
319	668	.....	117	227	604	369	126	.....	251	.....	402	1,269	681	27
6	3	.....	113	4	5	41	66	.....	144	.....	49	61	62	28
41.2	29.2	0.5	83.1	44.0	43.3	157.1	53.5	.....	489.0	0.2	352.0	557.5	164.9	29
59	23	.....	120	20	61	170	59	.....	539	1	242	336	164	30
88	28	.....	266	48	74	276	232	.....	541	.....	346	340	246	31
58	185	.....	291	85	71	480	337	.....	923	1	905	1,549	518	32
85	159	.....	117	51	85	925	77	.....	1,217	2	551	1,071	545	33
82	47	.....	193	3,171	126	1,081	576	.....	1,526	.....	363	1,371	1,459	34
0.3	0.3	.....	1.9	.....	.....	.....	4.5	.....	0.7	0.1	6.0	3.7	0.1	35
1	.....	.....	.....	5	13	1	4	.....	4	.....	5	8	3	36
1	.....	1	.....	136	13	5	4	.....	5	.....	5	8	4	37
.....	.....	.....	2	60	4	2	.....	.....	5	.....	3	1	5	38
.....	.....	.....	3	16	11	16	13	.....	10	.....	5	2	21	39
(5)	.....	(5)	.....	320	11,405	41	205	.....	202,694	.....	177	4,500	24,002	40
.....	.....	.....	1	1,024	8,497	14,060	.....	.....	2,547	.....	476	150	11,270	41
.....	.....	.....	12	37	6,685	672	110	.....	753	.....	44,049	150	38,419	42
.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	44
.....	.....	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	360	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	47
.....	.....	.....	.....	75	845	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	18	47	3	202	.....	.....	4	12	.....	332	.....	1	1	49
.....	1	.....	2	155	.....	.....	3	.....	.....	166	.....	.....	.....	50
1	.....	.....	2	156	1	1	4	.....	.....	.....	.....	.....	2	51
.....	10,372	39,605	27	94,623	.....	.....	1,450	8,600	.....	273,360	.....	(5)	(5)	52
.....	50	.....	190	74,391	.....	.....	875	.....	.....	146,400	.....	.....	.....	53
800	.....	.....	18	95,300	.....	3,300	419	.....	.....	.....	.....	.....	3	54
.....	17	47	3	204	.....	.....	4	12	1	330	1	1	1	55
.....	1	.....	2	153	.....	.....	3	.....	.....	166	.....	.....	.....	56
1	.....	.....	4	153	2	2	4	.....	.....	.....	.....	.....	2	57
.....	311	1,302	5	3,472	.....	.....	57	331	(5)	9,578	(5)	(5)	(5)	58
.....	1	.....	21	3,176	.....	.....	22	.....	.....	3,528	.....	.....	.....	59
60	.....	.....	8	3,471	5	5	9	.....	.....	.....	.....	.....	.....	60
.....	11,222	41,355	27	97,403	.....	.....	1,450	9,700	(5)	289,725	(5)	(5)	(5)	61
.....	50	.....	190	76,123	.....	.....	875	.....	.....	146,000	.....	.....	.....	62
800	.....	.....	118	91,010	.....	10	419	.....	.....	.....	.....	.....	3	63
.....	38	55	63	69	.....	.....	118	74	(5)	46	(5)	(5)	(5)	64
.....	40	.....	14	67	.....	.....	35	.....	.....	35	.....	.....	.....	65
20	.....	.....	82	57	170	35	44	.....	.....	.....	.....	.....	62	66
.....	38	55	63	68	.....	.....	112	74	.....	46	.....	(5)	(5)	67
5	2	.....	9	1	3	1	7	.....	38	.....	18	23	3	68
2,589	(5)	.....	1,204	(5)	3,985	(5)	3,314	.....	19,465	.....	16,117	26,638	6,560	69
5,378	(5)	.....	1,825	(5)	50,872	(5)	20,484	.....	15,581	.....	41,180	136,810	2,420	70
100	(5)	.....	13	(5)	81	(5)	38	.....	304	.....	110	279	8	71

[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties]

	ITEM (For definitions and explanations, see text)	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia	All other counties[1]
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	3,560,339	2,543,191	3,314,026	2,998,344	5,457,224	7,855,433	5,013,801	19,955,967
2	Land and buildings, irrigated farms....dollars..	1,961,630	1,160,963	909,768	2,772,800	156,020	1,665,290	3,681,205	1,046,374
	Operated by—								
3	(a) Owners and managers....dollars..	1,918,230	993,558	719,686	2,618,214	125,920	1,449,954	3,248,545	845,151
4	(b) Tenants....dollars..	43,400	167,405	190,082	154,586	30,100	215,336	432,660	201,220
5	Average, land and buildings, per farm....dollars..	3,280.32	4,116.89	1,783.86	1,667.35	2,943.77	32,024.81	2,565.30	7,317.30
6	per acre in farms....dollars..	97.82	5.31	15.38	16.48	11.41	2.60	7.41	5.93
7	Buildings, irrigated farms reporting value....number...	562	275	459	1,539	37	49	1,243	141
8	Total reported....dollars..	613,645	164,126	185,775	720,522	11,585	120,565	927,353	155,540
9	Average, per irrigated farm reporting....dollars..	1,091.90	596.82	404.74	468.18	313.11	2,460.51	746.06	1,103.12
10	per acre on all irrigated farms....dollars..	30.60	0.75	3.14	4.28	0.85	0.19	1.87	0.88
11	Buildings, nonirrigated farms reporting value....number...	347	112	267	125	1,107	939	445	1,766
12	Total reported....dollars..	349,035	96,189	331,846	71,204	590,614	647,940	133,184	1,952,184
13	Average, per nonirrigated farm reporting....dollars..	1,005.86	858.83	1,242.87	569.63	533.53	690.03	299.29	1,105.43
14	per acre on all nonirrigated farms....dollars..	0.66	0.13	0.38	3.23	0.41	0.35	0.20	0.61
15	Implements and machinery, irrigated farms reporting value..number...	413	272	439	1,242	51	49	1,124	136
16	Total reported....dollars..	120,629	87,510	102,308	243,965	20,582	59,423	285,371	107,261
17	Average, per irrigated farm reporting....dollars..	292.08	321.73	233.05	196.43	403.57	1,212.71	253.89	788.68
18	per acre, on all irrigated farms....dollars..	6.02	0.40	1.73	1.45	1.51	0.09	0.57	0.61
19	Implements and machinery, nonirrigated farms reporting value....number...	257	107	229	85	1,120	799	376	1,635
20	Total reported....dollars..	168,499	55,192	170,388	18,413	696,170	381,534	118,046	1,851,407
21	Average, per acre, on all nonirrigated farms....dollars..	0.32	0.07	0.19	0.83	0.48	0.21	0.18	0.58
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	67	70	12	107	9	36	14	3
23	1930...number....	78	48	22	110	8	17	45	4
24	1920...number....	102	66	95	168	7	70	46	46
25	Average size of enterprise based on irrigable area....1940...acres....	196	102	2,322	501	530	194	4,705	2,430
26	1930...acres....	218	268	442	906	60	273	1,033	.....
27	1920[2]..acres....	120	279	313	525	221	287	1,060	256
28	Diversion dams....1940...number....	59	27	8	91	4	34	25	1
29	Main canals and laterals....1940...length, miles....	182.2	87.0	176.2	390.4	18.1	72.2	413.8	26.1
30	1930...length, miles....	208	112	104	422	5	38	387	26
31	1920...length, miles....	153	134	307	376	40	190	308	39
32	1940...capacity, c.f.s.[3]....	261	502	390	1,018	48	208	1,871	140
33	1930...capacity, c.f.s.[3]....	324	600	339	1,475	6	85	1,201	125
34	1920...capacity, c.f.s.[3]....	226	523	814	1,268	2	407	360	198
35	Pipe lines[4]....1940...length, miles....	2.8	3.7	0.6	0.1	.....	0.1	0.6	0.6
36	Storage dams....1940...number....	10	13	1	7	4	6	6	1
37	Reservoirs....1940...number....	12	22	2	7	4	6	6	1
38	1930...number....	1	3	.....	5	.....	3	4	4
39	1920...number....	8	11	11	3	1	11	6	12
40	1940...capacity, acre-feet..	4,719	2,639,029	(5)	32,725	64	1,291	55,447	(5)
41	1930...capacity, acre-feet..	10,000	2,638,863	.....	27,073	.....	1,126	53,054	5
42	1920...capacity, acre-feet..	160	2,638,862	80,003	1,735	75	76	14	8
43	Wells, flowing....1940...number....	.....	7	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	1	1	.....	.....	.....	.....	1
46	1940...yield, g.p.m....	.....	153	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	20	7	.....	.....	.....	.....	60
49	Wells, pumped....1940...number....	4	47	2	2	6	2	.....	2
50	1930...number....	.....	13	.....	.....	4	.....	.....	12
51	1920...number....	2	11	8	.....	.....	4	.....	51
52	1940...yield, g.p.m....	1,747	4,314	(5)	(5)	1,550	(5)	.....	(5)
53	1930...yield, g.p.m....	.....	479	.....	.....	7	.....	.....	6,315
54	1920...yield, g.p.m....	.....	1,269	3,600	.....	.....	47	.....	26,180
55	Pumping plants....1940...number....	4	59	2	2	5	3	.....	3
56	1930...number....	.....	17	.....	.....	4	.....	.....	12
57	1920...number....	1	15	11	.....	.....	5	2	42
58	Prime movers....1940...capacity, hp....	56	288	(5)	(5)	35	34	.....	210
59	1930...capacity, hp....	.....	26	.....	.....	4	.....	.....	214
60	1920...capacity, hp....	2	59	94	.....	.....	33	20	742
61	Pumps....1940...capacity, g.p.m....	3,149	8,549	(5)	(5)	700	1,606	.....	9,750
62	1930...capacity, g.p.m....	.....	549	.....	.....	7	.....	.....	5,965
63	1920...capacity, g.p.m....	.....	2,839	3,875	.....	.....	544	2,000	25,995
64	Pumping lift, from all sources....1940...average, feet....	27	17	(5)	(5)	68	38	.....	42
65	1930...average, feet....	.....	74	.....	.....	212	.....	.....	33
66	1920...average, feet....	1	31	27	.....	.....	50	52	109
67	from pumped wells....1940...average, feet....	26	18	(5)	(5)	68	(5)	.....	(5)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	16	5	5	31	1	.....	8	1
69	Irrigated area in these enterprises....acres....	4,317	3,646	13,221	22,076	(5)	.....	33,289	(5)
70	Wages and salaries paid and payable....dollars..	6,582	5,901	36,507	6,587	(5)	.....	105,483	(5)
71	Persons employed during week ending April 29....number...	41	36	51	177	(5)	.....	185	(5)

* Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	*44,834,560	44,917,120	44,917,120	44,917,120	44,917,120	44,917,120	44,917,120
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	73,962	84,606	77,975	77,690	74,360	45,332	27,611
Land in all farms....acres....	37,936,136	39,118,136	38,657,894	36,214,751	28,426,650	15,542,640	7,660,333
Farms irrigated:[1]							
Farms....number...	479	273	113	340	69	54	7
Increase or decrease (-) over preceding census....percent..	[2] 323.9	.....	-66.8	392.8	27.8	671.4	.....
Proportion of all farms....percent..	0.6	0.3	0.1	0.4	0.1	0.1	(3)
Land in farms....acres....	344,988	(4)	56,654	(4)	(4)	(4)	(4)
Proportion of all farm land....percent..	0.9	(4)	0.1	(4)	(4)	(4)	(4)
Area irrigated....acres....	[5] 19,975	[6] 11,759	[7] 10,651	(8)	(8)	4,872	445
Increase or decrease (-) over preceding census....percent..	[2] 87.5	.....	.....	.....	.....	994.8	.....
Proportion of total land area of State....percent..	(3)	(3)	(3)	.....	.....	(3)	(3)
Proportion of all farm land....percent..	0.1	(3)	(3)	.....	.....	(3)	(3)
Value of irrigated farms (land and buildings)....dollars..	4,371,806	(4)	1,304,150	(4)	(4)	(4)	(4)
Average per farm....dollars..	9,126.94	(4)	11,541.15	(4)	(4)	(4)	(4)
Average per acre....dollars..	12.67	(4)	23.02	(4)	(4)	(4)	(4)
Value of farm implements and machinery[9]....dollars..	616,899	(4)	148,185	(4)	(4)	(4)	(4)
Average per farm[9]....dollars..	1,287.89	(4)	1,311.37	(4)	(4)	(4)	(4)
Average per acre[9]....dollars..	1.79	(4)	2.62	(4)	(4)	(4)	(4)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	80	(4)	23	30	49	(4)	(4)
Farms irrigated....number...	358	(4)	(4)	(4)	(4)	(4)	(4)
Area irrigated....acres....	21,615	(4)	9,392	12,072	10,248	(4)	(4)
Area existing works were capable of supplying with water....acres....	36,522	(4)	24,006	34,235	21,917	(4)	(4)
Area irrigable....acres....	39,558	(4)	24,860	[10] 57,476	[10] 38,173	(4)	(4)
Additional area existing works were capable of supplying with water....acres....	14,907	(4)	14,614	22,163	11,669	(4)	(4)
Additional irrigable area in enterprises not supplied with water....acres....	17,943	(4)	15,468	[10] 45,404	[10] 27,925	(4)	(4)
Investment in irrigation enterprises....dollars..	1,755,489	(4)	1,267,314	1,857,118	836,482	16,980	(4)
Increase or decrease (-) over preceding census....percent..	[2] 38.5	(4)	-31.8	122.0	(11)	.....	.....
Average per acre based on area works were capable of supplying with water....dollars..	48.07	(4)	52.79	54.25	38.17	(4)	(4)
Increase or decrease (-) over preceding census....percent..	[2] -8.9	(4)	-2.7	42.1	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	1,785,539	(4)	1,343,911	2,072,766	836,482	(4)	(4)
Average per acre based on irrigable area in enterprises....dollars..	45.14	(4)	54.06	[10] 36.06	[10] 21.91	(4)	(4)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	1.41	(4)	1.97	5.50	28.40	(4)	(4)

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Less than one-tenth of 1 percent. [4] Not available. [5] Irrigated land from which crops were harvested plus 510 acres of irrigated land used only for pasture. [6] Irrigated land from which crops were harvested. [7] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [8] Data were secured for crops irrigated but the returns were considered relatively incomplete. [9] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [10] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [11] Percent not shown when more than 1,000. [*] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	73,962	37,936,136	15,536,632	19,465	510	490,197,358	12.92	140,374,996	3.70	76,876,269	2.03
Owners and managers.....	40,585	23,339,785	9,370,874	13,546	313	315,623,932	13.52	93,981,284	4.03	49,698,711	2.13
Tenants.....	33,377	14,596,351	6,165,758	5,919	197	174,573,426	11.96	46,393,712	3.18	27,177,558	1.86
Irrigated farms, total.....	479	344,988	88,922	19,465	510	4,371,806	12.67	1,200,510	3.48	616,899	1.79
Owners and managers.....	309	262,554	65,686	13,546	313	3,236,068	12.33	850,450	3.24	451,137	1.72
Tenants.....	170	82,434	23,236	5,919	197	1,135,738	13.78	350,060	4.25	165,762	2.01
Wholly irrigated farms.....	158	26,118	11,399	11,399	313	1,425,076	54.56	440,725	16.87	204,328	7.82
Owners and managers.....	99	19,739	7,001	7,001	197	911,026	46.15	290,825	14.73	129,068	6.54
Tenants.....	59	6,379	4,398	4,398	116	514,050	80.58	149,900	23.50	75,260	11.80
Partly irrigated farms.....	321	318,870	77,523	8,066	197	2,946,730	9.24	759,785	2.38	412,571	1.29
Owners and managers.....	210	242,815	58,685	6,545	116	2,325,042	9.58	559,625	2.30	322,069	1.33
Tenants.....	111	76,055	18,838	1,521	81	621,688	8.17	200,160	2.63	90,502	1.19
Nonirrigated farms, total.....	73,483	37,591,148	15,447,710	.....	.....	485,825,552	12.92	139,174,486	3.70	76,259,370	2.03

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	80	39,558	36,522	21,615	9,392	12,072	130.1	21,302	21,290	20,977	1.8	1.27	0.69
Streams, gravity	10	[2] 29,542	[2] 29,522	[2] 19,073	6,584	9,030	[2] 189.7	[2] 18,773	[2] 19,073	[2] 18,773	[2] 1.9	[2] 1.01	[2] 0.53
Streams, pumped	52	9,691	6,678	2,359	1,669	2,469	41.3	2,359	2,069	2,069	1.2	3.45	2.83
Streams, gravity and pumped	2	([2])	([2])	([2])	.....	.....	.....	([2])	([2])	([2])	([2])	([2])	([2])
Wells, pumped	9	53	53	47	.....	.....	.....	47	47	47	0.4	7.26	17.95
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	3	126	126	49	8	.....	512.5	36	14	1	([3])	([3])	([3])
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	4	146	143	87	600	508	-85.5	87	87	87	1.2	3.45	2.86
City water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other mixed	.....	.....	.....	.....	.....	65	.....	.....	.....	.....	.....	.....	.....
Other and not reported	.....	.....	.....	.....	531	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered.
[2] Data for 2 enterprises with "Streams, gravity and pumped" source of supply are included with enterprises reporting "Streams, gravity" source of supply in the 1940 Census.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	1,755,489	100.0	48.07	1,267,314	100.0	52.79	-4.72	21,290	1.41	8,773	1.97	-0.56	10,951	5.50
Streams, gravity	[3] 1,519,707	[3] 86.5	[3] 51.48	1,223,603	96.5	59.39	[3] -7.91	[3] 19,073	[3] 1.17	6,584	2.22	[3] -1.05	8,485	3.55
Streams, pumped	226,162	12.9	33.87	10,340	0.8	5.67	28.20	2,069	3.45	1,589	1.59	1.86	2,466	12.21
Streams, gravity and pumped	([3])	([3])	([3])	.....	.....	.....	.....	([3])	([3])	.....	.....	.....	.....	.....
Wells, pumped	3,120	0.2	58.87	.....	.....	.....	.....	47	7.26	.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	1,275	0.1	10.12	96	([4])	12.00	-1.88	14	0.79	.....	.....	.....	.....	.....
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	5,225	0.3	36.54	20,000	1.6	19.23	17.31	87	3.45	600	0.25	3.20	.....	.....
City water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other mixed	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other and not reported	.....	.....	.....	13,275	1.0	25.00	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation.
[2] Based on area works were capable of supplying with water.
[3] Data for 2 enterprises with "Streams, gravity and pumped" source of supply are included with enterprises reporting "Streams, gravity" source of supply in the 1940 Census.
[4] Less than one-tenth of 1 percent.

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	21,615	.....	9,392	12,072	130.1
Individual and partnership	2,232	.....	3,303	3,306	-32.4
Cooperative, incorporated[1]	500	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....
Irrigation district	4,605	.....	.....	.....	.....
Bureau of Reclamation[1 2 *]	14,131	.....	6,089	8,766	132.1
Office of Indian Affairs[2]	147	.....	.....	.....	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	36,522	.....	24,006	34,235	52.1
Individual and partnership	3,996	.....	4,006	7,997	-0.2
Cooperative, incorporated[1]	590	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....
Irrigation district	11,824	.....	.....	.....	.....
Bureau of Reclamation[1 2 *]	19,928	.....	20,000	26,238	-0.4
Office of Indian Affairs[2]	184	.....	.....	.....	.....
IRRIGABLE AREA[3]					
Total	39,558	.....	24,860	57,476	59.1
Individual and partnership	4,710	.....	4,541	11,445	3.7
Cooperative, incorporated[1]	610	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....
Irrigation district	14,124	.....	.....	.....	.....
Bureau of Reclamation[1 2 *]	19,928	.....	20,319	46,031	-1.9
Office of Indian Affairs[2]	186	.....	.....	.....	.....

[1] Data for less than 3 enterprises shown with permission of the enterprises involved. [2] U. S. Dept. of the Interior. [3] For 1920 relates to total area. Irrigable area for that year was not reported. [*] For explanation of areas, see text, p. 447.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES: Total ✓	ENTERPRISES: Serving 5 or more farms	AREAS: Irrigable	AREAS: Works were capable of supplying with water	AVERAGE COST: Primary enterprises: Works and equipment per acre[2]	AVERAGE COST: Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST: Supplemental enterprises: Works and equipment per acre	AVERAGE COST: Supplemental enterprises: Maintenance and operation per acre	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area ✓	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	80	7	39,558	36,522	47.99	1.41	.....	.....	358	21,615	21,507	12	96
Individual and partnership	67	.....	4,710	3,996	13.10	3.27	.....	.....	65	2,232	2,159	12	61
Cooperative, incorporated[4]	2	1	610	590	96.61	3.40	.....	.....	35	500	500	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irrigation district	3	3	14,124	11,824	19.83	0.50	.....	.....	34	4,605	4,570	.....	35
U. S. Bureau of Reclamation[4 *]	1	1	19,928	19,928	69.91	1.27	.....	.....	198	14,131	14,131	.....	.....
U. S. Office of Indian Affairs	7	2	186	184	85.82	7.97	.....	.....	26	147	147	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for less than 3 enterprises shown with permission of the enterprises involved. [*] For explanation of areas and investment, see text, p. 447.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940: Total	1940: Primary enterprises	1940: Supplemental enterprises	1940: Total cost of works and equipment	1940: Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	1,755,489	1,755,489	.....	1,752,862	2,627	1,267,314	1,857,118	38.5	48.07	.....	70,952	30,050
Individual and partnership	54,732	54,732	.....	52,335	2,397	55,091	81,693	-0.7	13.70	.....	.....	5,150
Cooperative, incorporated[2]	57,130	57,130	.....	57,000	130	.....	.....	.....	96.83	.....	1,500	12,400
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irrigation district	234,600	234,600	.....	234,500	100	.....	.....	.....	19.84	.....	67,000	12,500
U. S. Bureau of Reclamation[2 *]	1,393,237	1,393,237	.....	1,393,237	.....	1,212,223	1,775,425	14.9	69.91	.....	.....	.....
U. S. Office of Indian Affairs	15,790	15,790	.....	15,790	.....	.....	.....	.....	85.82	.....	2,452	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for less than 3 enterprises shown with permission of the enterprises involved. [*] For explanation of investment, see text, p. 447.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	5	34,177	31,877	1,337,648	57.36	41.96	1	23,854	13,187	1.58	23,425	18,909	14,749
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, incorporated[3]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	525	277	278
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irrigation district	3	14,124	11,824	204,500	23.30	17.30	.....	.....	.....	.....	7,704	3,208	3,201
Bureau of Reclamation[3] [4] [6]	1	19,928	19,928	[5]1,125,708	74.59	56.49	1	[5]23,854	[5]13,187	1.58	15,092	15,092	11,270
Office of Indian Affairs[3] [4]	1	125	125	[6]7,440	84.55	59.52	.....	.....	.....	.....	104	332	.....

[1] Only for enterprises serving 5 or more farms. [2] In payment of principal, interest, and/or other funded obligations. [3] Data for less than 3 enterprises shown with permission of the enterprises involved. [4] U. S. Dept. of the Interior. [5] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [6] Represents construction costs of irrigation works less cancellations and repayments. [6] For explanation of areas and investment, see text, p. 447.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	21,290	30,072	.....	.....	1.41	.....	6	14,611	21
Individual and partnership	2,157	7,046	.....	.....	3.27	.....	.....	.....	.....
Cooperative, incorporated[2]	500	1,700	.....	.....	3.40	.....	1	([3])	([3])
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irrigation district	4,355	2,176	.....	.....	0.50	.....	2	([3])	([3])
U. S. Bureau of Reclamation[2] [4]	14,131	17,979	.....	.....	1.27	.....	1	12,466	17
U. S. Office of Indian Affairs[2]	147	1,171	.....	.....	7.97	.....	2	620	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for less than 3 enterprises shown with permission of the enterprises involved. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [4] For explanation of areas and investment, see text, p. 447.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	19	14	616	158	1.2	14	3,946	3.8	....	.....	11	378	83	1,253	83	104,158
Individual and partnership	15	12	152	10	0.2	12	3,226	3.4	....	.....	11	378	59	494	59	39,683
Cooperative, incorporated	2	2	32	21	0.9	2	720	0.2	....	.....	.....	.....	6	82	6	6,825
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Irrigation district	1	.....	396	29	0.1	.....	.....	0.1	....	.....	.....	.....	4	340	4	43,200
Bureau of Reclamation[3]	.....	.....	.....	[4]95	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Office of Indian Affairs[3]	1	.....	36	3	.....	.....	.....	0.1	....	.....	.....	.....	14	337	14	14,450

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior. [4] Heading of the Main Canal is in Montana, therefore, capacity not shown in North Dakota.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include that portion of the Lower Yellowstone Project which lies in McKenzie County, North Dakota. This area is not reported under any other classification.

The investment attributed to the Bureau of Reclamation in State table 7 includes the construction cost of the irrigation features originally charged to North Dakota lands. Drainage costs are not included.

Under the Water Conservation and Utilization Program designed to combat the effect of drought and maintain established agricultural areas, the Bureau of Reclamation has been authorized to construct two new projects in North Dakota. The Buford-Trenton Project in Williams County will irrigate 13,400 acres unsuccessfully dry-farmed, and the Bismarck Project in Burleigh County is to provide water for 4,800 acres also unsuccessfully dry-farmed. The Department of Agriculture is to have charge of the operation and maintenance of both of these projects when they are completed. As these projects were not in operation when the census was taken, no data for them are included.

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STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	19	14	9	10
Concrete or masonry	.....	.....	1	2
Timber	1	.....	.....	.....
Earth and rock	14	14	8	8
Other and mixed	[1] 4	.....	.....	.....
Not reported	.....	.....	.....	.....

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	83	100.0	104,158	100.0	17
Electric motor	9	10.8	36,784	35.3	17
Centrifugal	4	4.8	750	0.7	19
Turbine	3	3.6	36,000	34.6	24
Plunger	2	2.4	34	(1)	11
Other	.....	.....	.....	.....	.....
Internal-combustion engine	64	77.2	62,930	60.4	15
Centrifugal	58	70.0	49,560	47.6	14
Turbine	2	2.4	10,200	9.8	19
Plunger	1	1.2	30	(1)	80
Other	3	3.6	3,140	3.0	18
Other kinds of motive power	10	12.0	4,444	4.3	27
Centrifugal	1	1.2	4,000	3.9	22
Turbine	.....	.....	.....	.....	.....
Plunger	9	10.8	444	0.4	28
Other	.....	.....	.....	.....	.....
Mixed kinds of motive power	.....	.....	.....	.....	.....
Centrifugal	.....	.....	.....	.....	.....
Turbine	.....	.....	.....	.....	.....
Plunger	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....
Total, 1930	13	.....	24,900	.....	24
Increase or decrease (-) 1930–1940	70	.....	79,258	.....	-7

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	83	100.0	1,253	100.0
Centrifugal pump	58	70.0	703	56.1
Electric	4	4.8	28	2.2
Internal-combustion	53	64.0	650	51.9
Other	1	1.2	25	2.0
Turbine pump	4	4.8	340	27.1
Electric	3	3.6	270	21.5
Internal-combustion	1	1.2	70	5.6
Other	.....	.....	.....	.....
Plunger pump	12	14.4	41	3.3
Electric	2	2.4	2	0.2
Internal-combustion	1	1.2	6	0.5
Other	9	10.8	33	2.6
Other and mixed types of pumps	9	10.8	169	13.5
Electric	.....	.....	.....	.....
Internal-combustion	9	10.8	169	13.5
Other	.....	.....	.....	.....
Total, 1930	[2] 13	.....	216	.....
Increase or decrease (-) 1930–1940	70	.....	1,037	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930–1940
	1940[1]	1930	
	Miles	*Miles*	*Percent*
Total	3.8	1.2	216.7
Concrete:			
1 to 12 inches	.....	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	0.3	.....	.....
Metal:			
1 to 12 inches	3.3	1.2	175.0
13 to 24 inches	0.1	.....	.....
Over 24 inches	.....	.....	.....
Wood-stave:			
1 to 12 inches	.....	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Clay and other:			
1 to 12 inches	0.1	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....

[1] Includes siphons and farm pipe lines reported.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	9	2	8
Area irrigable in these enterprises.....acres....	26,826	20,359	[1] 49,581
Area irrigated in these enterprises.....acres....	15,277	([2])	([2])
Area for which drains have been installed.....acres....	11,552	3,040	1,613
Additional area needing drainage.....acres....	242	2,000	659
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	75.6	[3] 14.9	[1] 3.3
(b) All irrigation enterprises.....percent..	53.4	32.4	13.4
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	44.0	24.8	[1] 4.6
(b) Irrigated area reporting.....percent..	77.2	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1 2]	1919[1]	1939	1929[2]	1919	1939	1929[3]	1919[3]
From surface sources reported:									
Total water entering canals.....acre-feet..	87,466	37,025	28,106	79,407	37,025	28,106	8,059	.....	.....
Area irrigated by these enterprises.....acres.....	19,340	6,089	8,766	15,111	6,089	8,766	4,229	.....	.....
Average water per acre irrigated.....acre-feet..	4.5	6.1	3.2	5.3	6.1	3.2	1.9	.....	.....
Total water delivered to irrigators.....acre-feet..	39,289	9,778	11,636	.....	9,778	11,636	39,289	.....	.....
Area irrigated by these enterprises.....acres.....	21,253	6,089	8,766	.....	6,089	8,766	21,253	.....	.....
Average water per acre irrigated.....acre-feet..	1.8	1.6	1.3	.....	1.6	1.3	1.8	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	20	.....	.....	.....	.....	.....	20	.....	.....
Area irrigated by these enterprises.....acres.....	49	.....	.....	.....	.....	.....	49	.....	.....
Average water per acre irrigated.....acre-feet..	0.4	.....	.....	.....	.....	.....	0.4	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources were not segregated for 1929 and 1919. [2] The quantities of water include only those reported by United States Bureau of Reclamation. [3] Not tabulated.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	21,615	100.0	.....	9,392	100.0	12,072	100.0
Appropriation[1].....	20,419	94.5	.....	7,763	82.7	11,612	96.2
Riparian.....	872	4.0	.....	.....	.....	.....	.....
Underground.....	47	0.2	.....	.....	.....	.....	.....
Adjudicated by court.....	.....	.....	.....	960	10.2	.....	.....
Other mixed and not reported...	277	1.3	.....	669	7.1	460	3.8

[1] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY, BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	80	5	61	7	5	[2] 1	[2] 1
2	Irrigated farms, 1939.....number...	358	.....	61	18	46	35	198
3	Area irrigated, 1939.....acres....	21,615	.....	1,937	338	4,709	500	14,131
4	(a) From which crops were harvested.....acres....	21,507	.....	1,914	288	4,674	500	14,131
5	(b) On which crops failed.....acres....	12	.....	12	.....	.....	.....	.....
6	(c) Irrigated pasture.....acres....	96	.....	11	50	35	.....	.....
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	1,755,489	3,730	48,457	10,700	243,240	56,125	1,393,237
8	(a) Cost of irrigation works and equipment.....dollars..	1,752,862	3,725	46,110	10,650	243,140	56,000	1,393,237
9	(b) Investment in water rights.....dollars..	2,627	5	2,347	50	100	125	.....
10	Area works were capable of supplying with water.....acres....	36,522	179	3,279	596	11,965	575	19,928
11	Average investment per acre irrigated.....dollars..	81.22	.....	25.02	31.66	51.65	112.25	98.59
12	Average investment per acre which the works could supply with water....dollars..	48.07	20.84	14.79	17.95	20.33	97.61	69.91
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	71	.....	58	7	4	[2] 1	[2] 1
14	(a) Area irrigated in these enterprises.....acres....	21,290	.....	1,862	338	4,459	500	14,131
15	(b) Cost of maintenance and operation.....dollars..	30,072	.....	5,646	2,239	2,508	1,700	17,979
16	(c) Average cost per irrigated acre reporting.....dollars..	1.41	.....	3.03	6.62	0.56	3.40	1.27
17	Total annual charges[3].....dollars..	18,909	.....	.....	.....	3,540	277	15,092
18	Average charge per irrigated acre reporting.....dollars..	0.99	.....	.....	.....	0.79	0.55	1.07
19	Area against which charges were assessed.....acres....	23,425	.....	.....	.....	7,808	525	15,092
20	Average annual charge per acre assessed.....dollars..	0.81	.....	.....	.....	0.45	0.53	1.00
21	Total charges collected[3].....dollars..	14,749	.....	.....	.....	3,201	278	11,270
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[4].....number...	5	.....	.....	.....	4	.....	[2] 1
23	(a) Area irrigated in these enterprises.....acres....	18,824	.....	.....	.....	4,693	.....	14,131
24	(b) Indebtedness.....dollars..	1,337,648	.....	.....	.....	211,940	.....	1,125,708
25	(c) Average indebtedness per acre irrigated.....dollars..	71.06	.....	.....	.....	45.16	.....	79.66
26	(d) Cost of irrigation works and equipment.....dollars..	1,635,177	.....	.....	.....	241,940	.....	1,393,237
27	(e) Investment in water rights.....dollars..	100	.....	.....	.....	100	.....	.....
28	(f) Total investment.....dollars..	1,635,277	.....	.....	.....	242,040	.....	1,393,237
29	(g) Maintenance and operation.....dollars..	20,194	.....	.....	.....	2,215	.....	17,979
30	(h) Total annual charges[3].....dollars..	18,339	.....	.....	.....	3,247	.....	15,092
31	(i) Total charges collected[3].....dollars..	14,471	.....	.....	.....	3,201	.....	11,270
32	(j) Area against which annual charges were assessed.....acres....	22,884	.....	.....	.....	7,792	.....	15,092
33	(k) Average indebtedness per acre assessed.....dollars..	57.36	.....	.....	.....	23.99	.....	74.59
34	(l) Average charges per acre assessed.....dollars..	0.80	.....	.....	.....	0.42	.....	1.00
35	(m) Average charges per acre irrigated.....dollars..	0.99	.....	.....	.....	0.73	.....	1.07
36	Enterprises reporting arrearage[4].....number...	1	.....	.....	.....	.....	.....	1
37	(a) Area assessed in these enterprises.....acres....	15,092	.....	.....	.....	.....	.....	15,092
38	(b) Total arrearage.....dollars..	23,854	.....	.....	.....	.....	.....	23,854
39	(c) Average arrearage per acre assessed.....dollars..	1.58	.....	.....	.....	.....	.....	1.58
40	(d) Indebtedness.....dollars..	1,125,708	.....	.....	.....	.....	.....	1,125,708
	TYPE, 1940							
41	Individual and partnership.....number...	67	4	61	2	.....	.....	.....
42	Cooperative (incorporated, and unincorporated).....number...	2	1	.....	.....	.....	1	.....
43	Irrigation district.....number...	3	.....	.....	.....	3	.....	.....
44	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	1
45	U. S. Office of Indian Affairs.....number...	7	.....	.....	5	2	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
46	Enterprises reporting pay roll.....number...	6	.....	.....	.....	4	[2] 1	[2] 1
47	Wages and salaries paid and payable for 1939.....dollars..	14,611	.....	.....	.....	1,045	1,100	12,466
48	Persons employed during week ending April 29, 1939.....number...	21	.....	.....	.....	1	3	17
	SOURCE OF WATER SUPPLY, 1939							
49	Streams, gravity.....number...	10	.....	7	1	1	.....	1
50	Streams, pumped.....number...	52	4	38	6	4	.....	.....
51	Wells, pumped.....number...	9	.....	9	.....	.....	.....	.....
52	Wells, pumped and flowing; or wells flowing.....number...	.....	.....	.....	.....	.....	.....	.....
53	Lakes, gravity or pumped.....number...	.....	.....	.....	.....	.....	.....	.....
54	Streams and springs; or springs.....number...	3	.....	3	.....	.....	.....	.....
55	Mixed, streams and wells.....number...	2	.....	1	.....	.....	1	.....
56	Other mixed or stored storm water.....number...	4	1	3	.....	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Missouri River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Williston	Williams	1,878	14.85	+0.05	2.41	+0.39	1.43	-0.21	6.62	-0.07	4.39	-0.06	43.2	+3.9
Medora	Billings	2,271	13.47	-1.84	1.29	-0.35	1.20	-0.70	6.79	+0.04	4.19	-0.83	.....	.....
Bowman	Bowman	2,872	15.55	+0.64	0.81	-0.92	0.83	-0.78	9.08	+2.72	4.83	-0.38	43.5	+1.8
Dunn Center	Dunn	2,191	14.65	-1.80	2.14	+0.31	0.88	-0.84	6.44	-1.08	5.19	-0.19	40.7	-0.2
Mott	Hettinger	2,424	14.21	-2.31	1.29	-0.73	1.25	-0.94	6.32	-0.51	5.35	-0.13	44.6	+3.8
Washburn	McLean	1,731	13.45	-2.15	1.50	-0.48	1.07	-0.41	6.95	+0.30	3.93	-1.56	44.4	+3.8
Bismarck	Burleigh	1,674	14.62	-1.72	1.21	-0.87	1.16	-0.62	7.68	+0.49	4.57	-0.72	43.8	+3.3
Linton	Emmons	1,711	15.72	-0.84	0.54	-1.45	0.27	-1.38	9.75	+2.93	5.16	-0.94	44.2	+2.6
Red River														
Crosby	Divide	1,954	12.39	-2.77	3.32	+1.37	1.58	+0.14	5.50	-0.78	1.99	-3.50	40.8	+2.9
Minot	Ward	1,557	15.94	+0.18	3.37	+1.23	1.49	+0.04	5.70	-0.84	5.38	-0.25	42.5	+3.7
Bottineau	Bottineau	1,638	11.06	-4.97	1.34	-0.70	0.95	-0.47	5.06	-1.10	3.71	-2.70	39.5	+3.3
Carrington	Foster	1,579	14.99	-1.91	1.85	-0.10	1.67	+0.31	7.01	-0.33	4.46	-1.79	40.9	+1.8
Devils Lake	Ramsey	1,478	14.94	-3.11	1.40	-1.11	1.00	-0.75	7.24	+0.13	5.30	-1.38	40.1	+3.1
Ellendale	Dickey	1,451	18.71	-0.48	0.68	-1.51	1.51	-0.43	11.11	+3.27	5.41	-1.81	43.7	+2.1
Langdon	Cavalier	1,615	14.26	-4.04	1.61	-0.98	1.80	-0.19	6.63	+0.06	4.22	-2.93	39.3	+3.9
Valley City	Barnes	1,245	11.79	-6.90	0.88	-1.47	1.19	-0.45	5.65	-2.15	4.07	-2.83	42.8	+2.6
Grand Forks	Grand Forks	830	16.65	-2.97	2.23	-0.59	2.31	+0.50	6.47	-1.09	5.64	-1.79	40.2	+1.8
Wahpeton	Richland	962	17.68	-3.25	1.22	-1.57	1.91	+0.35	10.66	+2.36	3.89	-4.39	44.1	+2.4

[1] Departure from normal.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
5	64	6	3	1	[2] 1	.....	74	[2] 1	3	2	1
.....	83	14	48	15	198	.....	84	7	57	210	2
.....	896	1,225	5,363		14,131	.....	2,291	88	19,236		3
.....	873	1,175	5,328		14,131	.....	2,218	88	19,201		4
.....	12	.....	.....		.....	.....	12	.....	.....		5
.....	11	50	35		.....	.....	61	.....	35		6
3,730	57,047	33,750	267,725		1,393,237	.....	64,087	7,440	1,683,962		7
3,725	54,800	33,600	267,500		1,393,237	.....	61,685	7,440	1,683,737		8
5	2,247	150	225		.....	.....	2,402	.....	225		9
179	2,275	1,833	12,307		19,928	.....	4,070	125	32,327		10
.....	63.67	27.55	49.92		98.59	.....	27.97	84.55	87.54		11
20.84	25.08	18.41	21.75		69.91	.....	15.75	59.52	52.09		12
.....	61	5	4		[2] 1	.....	66	[2] 1	4		13
.....	821	975	5,363		14,131	.....	2,216	88	18,986		14
.....	5,527	2,290	4,276		17,979	.....	8,178	39	21,855		15
.....	6.73	2.35	0.80		1.27	.....	3.69	0.44	1.15		16
.....	332	.....	3,485		15,092	.....	293	39	18,577		17
.....	3.19	.....	0.72		1.07	.....	18.31	0.44	0.98		18
.....	104	.....	8,229		15,092	.....	16	88	23,321		19
.....	3.19	.....	0.42		1.00	.....	18.31	0.44	0.80		20
.....	.....	.....	3,479		11,270	.....	.....	.....	14,749		21
.....	[2] 1		4		[2] 1	.....	.....	[2] 1	4		22
.....	88		4,605		14,131	.....	.....	88	18,736		23
.....	7,440		204,500		1,125,708	.....	.....	7,440	1,330,208		24
.....	84.55		44.41		79.66	.....	.....	84.55	71.00		25
.....	7,440		234,500		1,393,237	.....	.....	7,440	1,627,737		26
.....	.....		100		.....	.....	.....	.....	100		27
.....	7,440		234,600		1,393,237	.....	.....	7,440	1,627,837		28
.....	39		2,176		17,979	.....	.....	39	20,155		29
.....	39		3,208		15,092	.....	.....	39	18,300		30
.....	.....		3,201		11,270	.....	.....	.....	14,471		31
.....	88		7,704		15,092	.....	.....	88	22,796		32
.....	84.55		23.30		74.59	.....	.....	84.55	57.26		33
.....	0.44		0.42		1.00	.....	.....	0.44	0.80		34
.....	0.44		0.74		1.07	.....	.....	0.44	0.99		35
.....	.....	.....			1	.....	.....	.....	1		36
.....	.....	.....			15,092	.....	.....	.....	15,092		37
.....	.....	.....			23,854	.....	.....	.....	23,854		38
.....	.....	.....			1.58	.....	.....	.....	1.58		39
.....	.....	.....			1,125,708	.....	.....	.....	1,125,708		40
4	57	5	1	.....	.....	.....	67	.....	.....	.....	41
1	.....	.....	1	.....	.....	.....	1	.....	1	.....	42
.....	.....	1	1	1	.....	.....	.....	.....	2	1	43
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	44
.....	7	.....	.....	.....	.....	.....	6	1	.....	.....	45
.....	2	.....	3		[2] 1	.....	1	[2] 1	4		46
.....	[5]	.....	1,525		12,466	.....	[5]	500	13,991		47
.....	.....	.....	4		17	.....	.....	.....	21		48
.....	5	2	1	1	1	.....	8	.....	1	1	49
4	43	4	1	.....	.....	.....	49	1	1	1	50
.....	9	.....	.....	.....	.....	.....	9	.....	.....	.....	51
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	3	.....	.....	.....	.....	.....	3	.....	.....	.....	54
.....	1	.....	1	.....	.....	.....	1	.....	1	.....	55
1	3	.....	.....	.....	.....	.....	4	.....	.....	.....	56

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation in North Dakota during both the calendar year (1939) and the water year (October 1938 through September 1939), as reported by the United States Weather Bureau, was substantially below normal, particularly in the drainage basins tributary to the Red River.

The average annual precipitation for the State over the period 1892 to 1939 inclusive was 16.92 inches. The average precipitations for the calendar years 1938 and 1939 were 15.33, a departure of -1.59, and 14.15, a departure of -2.72 inches, respectively.

In 1939 the precipitation averaged below normal in all sections of the State. Only three months, February, June, and August, had precipitations in excess of the normal. November 1939 was the driest month in the climatological history of North Dakota. Dust storms were light and less frequent than in other years. Due to the fact that June was cool and wet, crops were mostly good throughout the State and hay was plentiful. Livestock was good to excellent.

The mean temperature for the year was above normal at almost every station in the State. February, March, June, and October were the only months with subnormal temperatures. February with a mean temperature of -0.8°, was by far the coldest month of the year and December was the warmest December since State-wide records began in 1892. The frost free season extended from May 11 to September 23 or 25 at most stations, which made the growing season somewhat longer than average.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	LAKE WINNIPEG (CANADA)			MISSISSIPPI RIVER					
			Red River			Missouri River					
			Total	Direct (1)	Assiniboine River (Canada) Souris River (2)	Total	Direct[1] (4)	Little Missouri River (7)	Knife River (6)	Heart River (10)	Cannonball River (11)
	IRRIGATED FARMS AND AREAS										
1	Irrigated farms....1939...number....	358	61	6	55	297	254	5	4	12	22
2	Area irrigated....1939...acres....	21,615	4,493	272	4,221	17,122	16,706	72	28	45	271
3	(a) Cropland harvested....1939...acres....	21,507	4,458	272	4,186	17,049	16,701	72	28	39	209
4	(b) Crop failure....1939...acres....	12	.....	.....	.....	12	.....	.....	.....	.....	12
5	(c) Pasture....1939...acres....	96	35	.....	35	61	5	.....	.....	6	50
6	Area irrigated....1929...acres....	9,392	2,099	.....	1,453	7,293	.....	.....	.....	.....	.....
7	1919...acres....	12,072	.....	.....	.....	12,072	.....	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939....percent....	130.1	114.1	.....	190.5	134.8	.....	.....	.....	.....	.....
9	Irrigable area in enterprises....1940...acres....	39,558	8,100	455	7,645	31,458	30,157	95	412	115	679
10	1930...acres....	24,860	2,409	.....	1,453	22,451	.....	.....	.....	.....	.....
11	1920[2]...acres....	57,476	.....	.....	.....	57,476	.....	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated...1940...acres....	17,943	3,607	183	3,424	14,336	13,451	23	384	70	408
13	1930...acres....	15,468	310	.....	.....	15,158	.....	.....	.....	.....	.....
14	1920[2]...acres....	45,404	.....	.....	.....	45,404	.....	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres....	36,522	7,980	335	7,645	28,542	27,637	95	107	115	588
16	1930...acres....	24,006	2,099	.....	1,453	21,907	.....	.....	.....	.....	.....
17	1920...acres....	34,235	.....	.....	.....	34,235	.....	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940....percent....	52.1	280.2	.....	426.2	30.3	.....	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	14,907	3,487	63	3,424	11,420	10,931	23	79	70	317
20	1930...acres....	14,614	.....	.....	.....	14,614	.....	.....	.....	.....	.....
21	1920...acres....	22,163	.....	.....	.....	22,163	.....	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	59.2	56.3	81.2	55.2	60.0	60.4	75.8	26.2	39.1	46.1
23	1929...percent....	39.1	100.0	.....	100.0	33.3	.....	.....	.....	.....	.....
24	1919...percent....	35.3	.....	.....	.....	35.3	.....	.....	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1										
25	Total investment in irrigation enterprises....1940...dollars....	1,755,489	130,566	9,741	120,825	1,624,923	1,604,533	1,839	3,475	5,751	9,325
26	(a) Cost of irrigation works and equipment....1940...dollars....	1,752,862	130,225	9,625	120,600	1,622,637	1,602,367	1,825	3,450	5,735	9,260
27	(b) Investment in water rights (reported)....1940...dollars....	2,627	341	116	225	2,286	2,166	14	25	16	65
28	Total investment in irrigation enterprises....1930...dollars....	1,267,314	20,925	.....	5,775	1,246,389	.....	.....	.....	.....	.....
29	1920...dollars....	1,857,118	.....	.....	.....	1,857,118	.....	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940....percent....	38.5	524.0	.....	1,992.2	30.4	.....	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	48.07	16.36	29.08	15.80	56.93	58.06	19.36	32.48	50.01	15.86
32	1930...dollars....	52.79	9.97	.....	3.97	56.89	.....	.....	.....	.....	.....
33	1920...dollars....	54.25	.....	.....	.....	54.25	.....	.....	.....	.....	.....
34	Average investment per acre irrigated....1939...dollars....	81.22	29.06	35.81	28.62	94.90	96.05	25.54	124.11	127.80	34.41
35	Estimated final investment in existing enterprises...1940...dollars....	1,785,539	142,566	9,741	132,825	1,642,973	1,618,798	1,839	4,375	6,451	11,510
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	45.14	17.60	21.41	17.37	52.23	53.68	19.36	10.62	56.10	16.95
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS										
37	Enterprises reporting maintenance and operation...1939...number....	71	13	6	7	58	21	4	3	12	18
38	Area irrigated in these enterprises....1939...acres....	21,290	4,493	272	4,221	16,797	16,421	52	8	45	271
39	Cost of maintenance and operation....1939...dollars....	30,072	5,912	1,816	4,096	24,160	22,424	95	42	612	987
40	Average cost, per acre irrigated....1939...dollars....	1.41	1.32	6.68	0.97	1.44	1.37	1.83	5.25	13.60	3.64
41	Total annual charges (reported)[3] [4]....1939...dollars....	18,909	3,235	.....	3,235	15,674	15,674	.....	.....	.....	.....
42	Average annual charge per acre irrigated....1939...dollars....	0.99	0.83	.....	0.83	1.03	1.03	.....	.....	.....	.....
43	Area against which charges were assessed....1939...acres....	23,425	7,249	.....	7,249	16,176	16,176	.....	.....	.....	.....
44	Average annual charge per acre assessed....1939...dollars....	0.81	0.45	.....	0.45	0.97	0.97	.....	.....	.....	.....
45	Total charges collected[5]....1939...dollars....	14,749	3,479	.....	3,479	11,270	11,270	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	1,337,648	29,500	.....	29,500	1,308,148	1,308,148	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939										
47	Enterprises reporting water delivered....1939...number....	72	12	5	7	60	21	5	4	12	18
48	Area irrigated by these enterprises....1939...acres....	21,302	4,480	259	4,221	16,822	16,406	72	28	45	271
49	Water delivered....1939...acre-feet..	39,309	6,528	164	6,364	32,781	31,805	46	27	26	877
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	1.5	0.6	1.5	1.9	1.9	0.6	1.0	0.6	3.2
51	Average cost of water per acre irrigated....1939...dollars....	1.27	1.23	7.01	0.88	1.29	1.21	1.83	5.25	13.60	3.64
52	Average cost of water per acre-foot delivered...1939...dollars....	0.69	0.85	11.07	0.58	0.66	1.22	2.86	5.44	23.54	1.13
	DRAINAGE OF IRRIGATED LAND										
53	Enterprises reporting land drained or needing drainage....1939...number....	9	.....	.....	.....	9	5	.....	.....	2	2
54	Irrigable area in these enterprises....1939...acres....	26,826	.....	.....	.....	26,826	26,766	.....	.....	(5)	(5)
55	Irrigated area in these enterprises....1939...acres....	15,277	.....	.....	.....	15,277	15,261	.....	.....	(5)	(5)
56	Area for which drains have been installed....1939...acres....	11,552	.....	.....	.....	11,552	11,536	.....	.....	(5)	(5)
57	Additional area needing drainage....1939...acres....	242	.....	.....	.....	242	198	.....	.....	(5)	(5)

[1] Data for 2 enterprises in Yellow River Drainage Basin (8) (number refers to separate map) and for 2 enterprises in James River Drainage Basin (5) are included with Missouri River "Direct" Drainage Basin (4). [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	LAKE WINNIPEG (CANADA)			MISSISSIPPI RIVER					
			Red River			Missouri River					
			Total	Direct (1)	Assiniboine River (Canada) / Souris River (2)	Total	Direct[1] (4)	Little Missouri River (7)	Knife River (6)	Heart River (10)	Cannonball River (11)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1										
1	Enterprises.....1940..number.....	80	13	6	7	67	24	5	6	12	20
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	457	614	56	1,092	426	1,152	19	18	10	29
3	Diversion dams.....1940..total number.....	19	5	3	2	14	7	1	3	.....	3
4	1930..total number.....	9	.....	.....	.....	9	.....	.....	.....	.....	.....
5	1920..total number[2].....	26	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	(b) Timber.....1940..number.....	1	.....	.....	.....	1	.....	.....	1	.....	.....
8	(c) Earth and rock.....1940..number.....	14	5	3	2	9	3	1	2	.....	3
9	(d) Other, mixed, and not reported..1940..number.....	4	.....	.....	.....	4	4	.....	.....	.....	.....
10	Main canals and laterals.....1940..total length, miles.....	159.2	23.9	.....	23.9	135.3	133.3	.....	1.0	.....	1.0
11	1930..total length, miles.....	87	1	.....	.....	86	.....	.....	.....	.....	.....
12	1920..total length, miles[2].....	151	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	(a) Earth.....1940..length, miles.....	158	23	.....	23	135	133	.....	1	.....	1
14	(b) Lined.....1940..length, miles.....	1.2	0.9	.....	0.9	0.3	0.3	.....	.....	.....	.....
15	1940..capacity, c.f.s.[3].....	616	365	15	350	251	192	5	9	10	35
16	1930..capacity, c.f.s.[3].....	1,072	2	.....	.....	1,070	.....	.....	.....	.....	.....
17	1920..capacity, c.f.s.[2 3].....	836	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	Pipe lines[4].....1940..total length, miles.....	3.8	1.9	0.5	1.4	1.9	0.6	0.2	.....	0.7	0.4
19	1930..total length, miles.....	1.2	1.2	.....	.....	.....	.....	.....	.....	.....	.....
20	1920..total length, miles[2].....	0.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete.....1940..length, miles.....	0.3	0.1	.....	0.1	0.2	0.1	.....	.....	.....	0.1
22	(b) Metal.....1940..length, miles.....	3.4	1.8	0.5	1.3	1.6	0.5	0.2	.....	0.6	0.3
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other.....1940..length, miles.....	0.1	.....	.....	.....	0.1	.....	.....	.....	0.1	.....
25	Storage dams.....1940..total number.....	14	2	.....	2	12	2	.....	1	2	7
26	1930..total number.....	10	.....	.....	.....	10	.....	.....	.....	.....	.....
27	1920..total number[2].....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	14	2	.....	2	12	2	.....	1	2	7
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs.....1940..total number.....	14	2	.....	2	12	2	.....	1	2	7
32	(a) 1-99 acre-feet capacity.....1940..number.....	10	.....	.....	.....	10	1	.....	1	2	6
33	(b) 100-999 acre-feet capacity....1940..number.....	3	[5]2	.....	[5]2	1	1	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
35	1940..total capacity, ac.-ft.[6]..	3,946	720	.....	720	3,226	(7)	.....	(7)	(7)	2,781
36	1930..total number.....	8	.....	.....	.....	8	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.....	1,466	.....	.....	.....	1,466	.....	.....	.....	.....	.....
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number[2].....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.[2].....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	11	.....	.....	.....	11	1	.....	.....	4	6
45	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number[2].....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.....	378	.....	.....	.....	378	(7)	.....	.....	39	39
48	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.[2].....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants.....1940..total number.....	83	16	6	10	67	26	3	6	14	18
51	1930..total number.....	13	8	.....	5	5	.....	.....	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	1,253	274	114	160	979	727	13	71	67	101
53	1930..capacity, hp.....	216	153	.....	123	63	.....	.....	.....	.....	.....
54	1920..capacity, hp.[2].....	2,068	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric.....1940..number.....	9	1	.....	1	8	3	.....	.....	5	.....
56	1940..capacity, hp.....	300	(7)	.....	(7)	292	270	.....	.....	22	.....
57	(b) Internal-combustion.....1940..number.....	64	15	6	9	49	22	3	6	7	11
58	1940..capacity, hp.....	895	266	114	152	629	432	13	71	43	70
59	(c) Other.....1940..number.....	10	.....	.....	.....	10	1	.....	.....	2	7
60	1940..capacity, hp.....	58	.....	.....	.....	58	(7)	.....	.....	(7)	31
61	Pumps.....1940..total number.....	83	16	6	10	67	26	3	6	14	18
62	1930..number.....	13	8	.....	5	5	.....	.....	.....	.....	.....
63	1920..number[2].....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.....	104,158	26,045	6,270	19,775	78,113	66,000	1,400	3,300	3,104	4,309
65	1930..capacity, g.p.m.....	24,900	20,400	.....	14,400	4,500	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.[2].....	51,250	.....	.....	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal.....1940..number.....	63	12	3	9	51	22	3	6	10	10
68	1940..capacity, g.p.m.....	54,310	19,975	3,200	16,775	34,335	22,800	1,400	3,300	3,065	3,770
69	1940..average capacity, g.p.m..	862	1,665	1,067	1,864	673	1,036	467	550	306	377
70	(b) Turbine.....1940..number.....	5	[5]1	.....	[5]1	4	4	.....	.....	.....	.....
71	1940..capacity, g.p.m.....	46,200	3,000	.....	3,000	43,200	43,200	.....	.....	.....	.....
72	1940..average capacity, g.p.m..	9,240	3,000	.....	3,000	10,800	10,800	.....	.....	.....	.....
73	(c) Plunger.....1940..number.....	12	1	1	.....	11	.....	.....	.....	4	7
74	1940..capacity, g.p.m.....	508	(7)	(7)	.....	478	.....	.....	.....	39	439
75	1940..average capacity, g.p.m..	42	(7)	(7)	.....	43	.....	.....	.....	10	63
76	(d) Other.....1940..number.....	3	2	2	.....	1	.....	.....	.....	.....	1
77	1940..capacity, g.p.m.....	3,140	(7)	(7)	.....	(7)	.....	.....	.....	.....	(7)
78	Pumping lift, from all sources.....1940..average, feet.....	17	21	30	13	16	15	17	16	15	19
79	1930..average, feet.....	24	13	.....	13	40	.....	.....	.....	.....	.....
80	1920..average, feet[2].....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells.....1940..average, feet.....	25	.....	.....	.....	25	(7)	.....	.....	11	30
82	from surface sources...1940..average, feet.....	16	21	30	13	15	14	17	16	16	13

[1] Data for 2 enterprises in Yellow River Drainage basin (8) (number refers to separate map) and for 2 enterprises in James River Drainage Basin (5) are included with Missouri River "Direct" Drainage Basin (4). [2] Not tabulated by drainage basin in 1920. [3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4] Includes siphons and farm pipe lines reported. [5] Data for less than 3 enterprises shown with permission of the enterprises involved. [6] Total capacity of all reservoirs regardless of size. [7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.— IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Billings	Cass	Dunn	Grant	McKenzie	Mercer
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]							
1	All farms....1940...number....	73,962	471	2,592	1,359	1,233	1,563	1,057
2	1930...number....	77,975	531	2,595	1,407	1,511	1,738	1,030
3	Irrigated farms....1940...number....	479	7	9	12	21	167	8
4	1930...number....	113	.....	.....	1	.....	89	.....
5	Increase or decrease (-), 1930-1940....percent....	323.9	.....	.....	(1)	.....	87.6	.....
6	Operated by—(a) Owners and managers....1940...number....	309	6	6	10	8	115	8
7	1930...number....	85	.....	.....	.....	.....	65	.....
8	(b) Tenants....1940...number....	170	1	3	2	13	52	.....
9	1930...number....	28	.....	.....	.....	.....	24	.....
10	Land in all farms....1940...acres.....	37,936,136	352,125	1,093,727	1,009,967	894,049	915,963	628,676
11	Land in irrigated farms....1940...acres.....	344,988	9,715	4,486	20,540	24,440	50,706	4,023
12	Average per farm....1940...acres.....	720	1,388	498	1,712	1,164	304	503
13	(a) Operated by owners and managers....1940...acres.....	262,554	(2)	3,696	(2)	8,015	43,072	4,023
14	Average per farm....1940...acres.....	850	(2)	616	(2)	1,002	375	503
15	(b) Operated by tenants....1940...acres.....	82,434	(2)	790	(2)	16,425	7,634	.....
16	Average per farm....1940...acres.....	485	(2)	263	(2)	1,263	147	.....
17	Approximate land area....1940...acres.....	44,834,560	728,960	1,119,360	1,323,520	1,070,080	1,796,400	698,880
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres.....	21,615	37	234	43	39	15,361	26
19	(a) Cropland harvested....1939...acres.....	21,507	37	234	43	31	15,361	26
20	(b) Crop failure....1939...acres.....	12	.....	.....	.....	2	.....	.....
21	(c) Pasture....1939...acres.....	96	.....	.....	.....	6	.....	.....
22	Area irrigated....1929...acres.....	9,392	.....	.....	.....	.....	6,097	.....
23	1919...acres.....	12,072	.....	.....	.....	.....	6,630	.....
24	Increase or decrease (-), 1929-1939....percent....	130.1	.....	.....	.....	.....	151.9	.....
25	Irrigable area in enterprises....1940...acres.....	39,558	60	245	364	65	27,328	167
26	1930...acres.....	24,860	.....	.....	.....	.....	20,327	.....
27	1920[3]...acres.....	57,476	.....	.....	.....	.....	21,424	.....
28	Excess of irrigable area over the area irrigated...1940...acres.....	17,943	23	11	321	26	11,967	141
29	1930...acres.....	15,468	.....	.....	.....	.....	14,230	.....
30	Area works were capable of supplying with water...1940...acres.....	36,522	60	242	59	50	25,028	167
31	1930...acres.....	24,006	.....	.....	.....	.....	20,008	.....
32	1920...acres.....	34,235	.....	.....	.....	.....	14,726	.....
33	Increase or decrease (-), 1930-1940....percent....	52.1	.....	.....	.....	.....	25.1	.....
34	Excess, capability of works over area irrigated...1940...acres.....	14,907	23	8	16	11	9,667	141
35	1930...acres.....	14,614	.....	.....	.....	.....	13,911	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	6.3	0.4	5.2	0.2	0.2	30.3	0.6
37	1929...percent....	16.6	.....	.....	.....	.....	29.5	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	59.2	61.7	96.7	72.9	78.0	61.4	15.6
39	1929...percent....	39.1	.....	.....	.....	.....	30.5	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	1,755,489	1,514	7,416	3,092	3,470	1,568,237	5,542
41	(a) Cost of irrigation works and equipment....1940...dollars....	1,752,862	1,500	7,300	3,067	3,460	1,568,237	5,542
42	(b) Investment in water rights (reported)....1940...dollars....	2,627	14	116	25	10	.....	.....
43	Total investment in all enterprises....1930...dollars....	1,267,314	.....	.....	.....	.....	1,212,319	.....
44	1920...dollars....	1,857,118	.....	.....	.....	.....	1,235,209	.....
45	Increase or decrease (-), 1930-1940....percent....	38.5	.....	.....	.....	.....	29.4	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	48.07	25.23	30.64	52.41	69.40	62.66	33.19
47	1930...dollars....	52.79	.....	.....	.....	.....	60.59	.....
48	1920...dollars....	54.25	.....	.....	.....	.....	83.88	.....
49	Average investment per acre irrigated....1939...dollars....	81.22	40.92	31.69	71.91	88.97	102.09	213.15
50	Estimated final investment in existing enterprises...1940...dollars....	1,785,539	1,514	7,416	3,292	4,705	1,580,737	7,117
51	1930...dollars....	1,343,911	.....	.....	.....	.....	1,285,816	.....
52	1920...dollars....	2,072,766	.....	.....	.....	.....	1,321,457	.....
53	Increase or decrease (-), 1930-1940....percent....	32.9	.....	.....	.....	.....	22.9	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	45.14	25.23	30.27	9.04	72.38	57.84	42.62
55	1930...dollars....	54.06	.....	.....	.....	.....	63.26	.....
56	1920[3]...dollars....	36.06	.....	.....	.....	.....	61.68	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
57	Enterprises reporting maintenance and operation...1939...number.....	73	3	4	4	9	2	3
58	Area irrigated in these enterprises....1939...acres.....	21,290	17	234	23	39	(2)	26
59	Cost of maintenance and operation....1939...dollars....	30,072	70	1,715	48	680	(2)	281
60	Average cost, per acre irrigated....1939...dollars....	1.41	4.12	7.33	2.09	17.44	(2)	10.81
61	1929...dollars....	1.97	.....	.....	.....	.....	2.34	.....
62	Total annual charges (reported)[4 5]....1939...dollars....	18,909	.....	.....	6	.....	15,342	6
63	Average annual charge per acre irrigated....1939...dollars....	0.99	.....	.....	0.40	.....	1.02	0.40
64	Area against which charges were assessed....1939...acres.....	23,425	.....	.....	15	.....	16,072	15
65	Average annual charge per acre assessed....1939...dollars....	0.81	.....	.....	0.40	.....	0.95	0.40
66	Total charges collected[4]....1939...dollars....	14,749	.....	.....	.....	.....	11,270	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	1,337,648	.....	.....	1,267	.....	1,300,708	1,267
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number.....	74	4	4	5	9	3	3
69	Area irrigated in these enterprises....1939...acres.....	21,302	37	234	43	39	15,361	26
70	Water delivered in these enterprises....1939...acre-feet..	39,309	26	125	49	18	30,058	54
71	Average water delivered per acre irrigated....1939...acre-feet..	1.8	0.7	0.5	1.1	0.5	2.0	2.1
72	Average cost of water per acre irrigated....1939...dollars....	1.27	4.12	7.33	2.09	17.44	1.02	10.81
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number.....	9	.....	.....	.....	2	2	.....
74	Irrigable area in these enterprises....1939...acres.....	26,826	.....	.....	.....	(2)	(2)	.....
75	Irrigated area in these enterprises....1939...acres.....	15,277	.....	.....	.....	(2)	(2)	.....
76	Area for which drains have been installed....1939...acres.....	11,552	.....	.....	.....	(2)	(2)	.....
77	Additional area needing drainage....1939...acres.....	242	.....	.....	.....	(2)	.....	.....

[a] Census of Agriculture. [1] Percent not shown when more than 1,000. [2] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census. [3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Morton	Sioux	Slope	Stark	Ward	Williams	All other counties[1]
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number	1,755	447	589	1,320	2,447	2,080	57,049
2	1930...number	1,851	688	737	1,337	2,662	2,288	59,600
3	Irrigated farms....1940...number	9	51	8	21	30	10	126
4	1930...number	.....	.....	2	.....	2	7	12
5	Increase or decrease (-), 1930-1940....percent	.....	.....	300.0	.....	(2)	42.9	950.0
6	Operated by—(a) Owners and managers....1940...number	7	32	6	17	7	7	80
7	1930...number	.....	.....	.....	.....	.....	6	14
8	(b) Tenants....1940...number	2	19	2	4	23	3	46
9	1930...number	.....	.....	.....	.....	.....	1	3
10	Land in all farms....1940...acres	1,106,368	371,509	587,430	825,140	1,110,636	1,028,040	28,012,506
11	Land in irrigated farms....1940...acres	889	67,983	9,040	12,862	3,042	10,758	126,504
12	Average per farm....1940...acres	99	1,333	1,130	612	101	1,076	1,004
13	(a) Operated by owners and managers....1940...acres	(3)	48,992	(3)	10,692	2,711	6,402	98,051
14	Average per farm....1940...acres	(3)	1,531	(3)	629	387	915	1,226
15	(b) Operated by tenants....1940...acres	(3)	18,991	(3)	2,170	331	4,356	28,453
16	Average per farm....1940...acres	(3)	1,000	(3)	542	14	1,452	619
17	Approximate land area....1940...acres	1,237,120	719,360	784,640	844,160	1,310,720	1,344,000	31,855,360
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	68	75	217	24	846	282	4,363
19	(a) Cropland harvested....1939...acres	68	69	163	24	846	277	4,328
20	(b) Crop failure....1939...acres	.....	6	4	.....	.....	.....	.....
21	(c) Pasture....1939...acres	.....	.....	50	.....	.....	5	35
22	Area irrigated....1929...acres	.....	.....	.....	.....	.....	1,085	2,210
23	1919...acres	.....	.....	.....	.....	.....	5,442	.....
24	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	.....	-74.0	97.4
25	Irrigable area in enterprises....1940...acres	162	139	506	66	921	1,475	8,060
26	1930...acres	.....	.....	.....	.....	.....	1,848	2,685
27	1920[4]...acres	.....	.....	.....	.....	.....	36,052	.....
28	Excess of irrigable area over the area irrigated...1940...acres	94	64	289	42	75	1,193	3,697
29	1930...acres	.....	.....	.....	.....	.....	763	475
30	Area works were capable of supplying with water...1940...acres	132	81	506	66	921	1,305	7,905
31	1930...acres	.....	.....	.....	.....	.....	1,633	2,365
32	1920...acres	.....	.....	.....	.....	.....	19,509	.....
33	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	-20.1	234.2
34	Excess, capability of works over area irrigated...1940...acres	64	6	289	42	75	1,023	3,542
35	1930...acres	.....	.....	.....	.....	.....	548	155
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	7.6	0.1	2.4	0.2	27.8	2.6	3.4
37	1929...percent	.....	.....	.....	.....	.....	17.7	7.4
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	51.5	92.6	42.9	36.4	91.9	21.6	55.2
39	1929...percent	.....	.....	.....	.....	.....	66.4	93.4
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	3,282	10,140	2,450	3,620	61,225	12,600	72,901
41	(a) Cost of irrigation works and equipment....1940...dollars	3,250	10,140	2,400	3,620	61,100	10,500	72,746
42	(b) Investment in water rights (reported)....1940...dollars	32	.....	50	.....	125	2,100	155
43	Total investment in all enterprises....1930...dollars	.....	.....	.....	.....	.....	32,400	22,595
44	1920...dollars	.....	.....	.....	.....	.....	621,909	.....
45	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	-61.1	222.6
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	24.86	125.19	4.84	54.85	66.48	9.66	9.22
47	1930...dollars	.....	.....	.....	.....	.....	19.84	9.55
48	1920...dollars	.....	.....	.....	.....	.....	31.88	.....
49	Average investment per acre irrigated....1939...dollars	48.26	135.20	11.29	150.83	72.37	44.68	16.71
50	Estimated final investment in existing enterprises...1940...dollars	3,582	10,790	2,450	4,120	73,225	12,600	73,991
51	1930...dollars	.....	.....	.....	.....	.....	32,900	25,195
52	1920...dollars	.....	.....	.....	.....	.....	751,309	.....
53	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	-61.7	193.7
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	22.11	77.63	4.84	62.42	79.51	8.54	9.18
55	1930...dollars	.....	.....	.....	.....	.....	17.80	9.38
56	1920[4]...dollars	.....	.....	.....	.....	.....	20.84	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
57	Enterprises reporting maintenance and operation...1939...number	8	10	5	5	6	3	11
58	Area irrigated in these enterprises....1939...acres	68	75	217	24	846	247	4,363
59	Cost of maintenance and operation....1939...dollars	332	1,423	146	315	2,170	1,550	3,113
60	Average cost, per acre irrigated....1939...dollars	4.88	18.97	0.67	13.12	2.57	6.28	0.71
61	1929...dollars	.....	.....	.....	.....	.....	0.56	1.54
62	Total annual charges (reported)[5 6]....1939...dollars	.....	293	.....	.....	277	.....	2,985
63	Average annual charge per acre irrigated....1939...dollars	.....	18.31	.....	.....	0.55	.....	0.87
64	Area against which charges were assessed....1939...acres	.....	16	.....	.....	525	.....	6,782
65	Average annual charge per acre assessed....1939...dollars	.....	18.31	.....	.....	0.53	.....	0.44
66	Total charges collected[5]....1939...dollars	.....	.....	.....	.....	278	.....	3,201
67	Indebtedness to December 31 (reported)[6]....1939...dollars	.....	.....	.....	.....	.....	.....	34,406
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	8	10	5	5	6	4	8
69	Area irrigated in these enterprises....1939...acres	68	75	217	24	846	282	4,050
70	Water delivered in these enterprises....1939...acre-feet	16	141	826	14	929	406	6,647
71	Average water delivered per acre irrigated....1939...acre-feet	0.2	1.9	3.8	0.6	1.1	1.4	1.6
72	Average cost of water per acre irrigated....1939...dollars	4.88	18.97	0.67	13.12	0.88	6.28	1.01
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	.....	2	.....	1	2
74	Irrigable area in these enterprises....1939...acres	.....	.....	.....	(3)	.....	(3)	(3)
75	Irrigated area in these enterprises....1939...acres	.....	.....	.....	(3)	.....	(3)	(3)
76	Area for which drains have been installed....1939...acres	.....	.....	.....	(3)	.....	(3)	(3)
77	Additional area needing drainage....1939...acres	.....	.....	.....	(3)	.....	(3)	(3)

*Census of Agriculture. [1]Data between census years not comparable (see headnote). [2]Percent not shown when more than 1,000. [3]Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census. [4]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [5]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [6]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Billings	Cass	Dunn	Grant	McKenzie	Mercer
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	490,197,358	1,912,489	34,238,227	7,293,693	6,086,202	8,255,455	5,530,123
2	Land and buildings, irrigated farms.....dollars..	4,371,806	40,500	226,720	137,160	130,210	1,614,155	58,270
	Operated by—							
3	(a) Owners and managers.....dollars..	3,236,068	(1)	193,700	(1)	46,840	1,131,025	58,270
4	(b) Tenants.....dollars..	1,135,738	(1)	33,020	(1)	83,370	483,130	.....
5	Average, land and buildings, per farm.....dollars..	9,126.94	5,785.71	25,191.11	11,430.00	6,200.48	9,665.60	7,283.75
6	per acre in farms.....dollars..	12.67	4.17	50.54	6.68	5.33	31.83	14.48
7	Buildings, irrigated farms reporting value.....number...	469	6	8	12	20	163	8
8	Total reported.....dollars..	1,200,510	9,600	36,700	37,000	40,860	425,640	19,250
9	Average, per irrigated farm reporting.....dollars..	2,559.72	1,600.00	4,587.50	3,083.33	2,043.00	2,611.29	2,406.25
10	per acre on all irrigated farms.....dollars..	3.48	0.99	8.18	1.80	1.67	8.39	4.78
11	Buildings, nonirrigated farms reporting value.....number...	68,151	440	2,404	1,272	1,159	1,315	1,018
12	Total reported.....dollars..	139,174,486	417,074	9,704,660	1,645,635	1,671,970	1,661,265	1,477,532
13	Average, per nonirrigated farm reporting.....dollars..	2,042.15	947.90	4,036.88	1,293.74	1,442.60	1,263.32	1,451.41
14	per acre on all nonirrigated farms.....dollars..	3.70	1.22	8.91	1.66	1.92	1.92	2.37
15	Implements and machinery, irrigated farms reporting value..number...	459	7	8	12	21	161	7
16	Total reported.....dollars..	616,899	4,600	40,790	22,470	19,050	256,890	8,800
17	Average, per irrigated farm reporting.....dollars..	1,344.01	657.14	5,098.75	1,872.50	907.14	1,595.59	1,257.14
18	per acre, on all irrigated farms.....dollars..	1.79	0.47	9.09	1.09	0.78	5.07	2.19
19	Implements and machinery, nonirrigated farms reporting value.....number...	66,987	441	2,399	1,186	1,145	1,250	1,000
20	Total reported.....dollars..	76,259,370	242,867	4,534,153	914,427	803,346	1,154,051	768,080
21	Average, per acre, on all nonirrigated farms.....dollars..	2.03	0.71	4.16	0.92	0.92	1.33	1.23
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[2]82	4	4	5	10	3	5
23	1930...number.....	23	.....	.....	1	.....	2	.....
24	1920...number.....	30	.....	.....	.....	.....	4	.....
25	Average size of enterprise based on irrigable area.....1940...acres.....	482	15	61	73	6	9,109	33
26	1930...acres.....	1,081	.....	.....	.....	.....	10,164	.....
27	1920[3]..acres.....	1,916	.....	.....	.....	.....	5,356	.....
28	Diversion dams.....1940...number.....	19	.....	3	1	1	.....	2
29	Main canals and laterals.....1940...length, miles.....	159.2	.....	.....	1.0	.....	124.1	.....
30	1930...length, miles.....	87	.....	.....	.....	.....	71	.....
31	1920...length, miles.....	151	.....	.....	.....	.....	60	.....
32	1940...capacity, c.f.s.[4]....	616	3	13	9	8	96	8
33	1930...capacity, c.f.s.[4]....	1,072	.....	.....	.....	.....	830	.....
34	1920...capacity, c.f.s.[4]....	836	.....	.....	.....	.....	276	.....
35	Pipe lines[5].....1940...length, miles.....	3.8	0.2	.....	.....	0.1	0.1	.....
36	Storage dams.....1940...number.....	14	.....	.....	1	3	.....	.....
37	Reservoirs.....1940...number.....	14	.....	.....	1	3	.....	.....
38	1930...number.....	8	.....	.....	.....	.....	.....	.....
39	1920...number.....	9	.....	.....	.....	.....	1	.....
40	1940...capacity, acre-feet..	3,946	.....	.....	(1)	47	.....	.....
41	1930...capacity, acre-feet..	1,466	.....	.....	.....	.....	.....	.....
42	1920...capacity, acre-feet..	1,110	.....	.....	.....	.....	400	.....
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	11	.....	.....	.....	4	.....	.....
50	1930...number.....	.....	.....	.....	.....	.....	.....	.....
51	1920...number.....	.....	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	378	.....	.....	.....	11	.....	.....
53	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	83	3	5	5	11	4	6
56	1930...number.....	13	.....	.....	.....	.....	.....	.....
57	1920...number.....	4	.....	.....	.....	.....	.....	.....
58	Prime movers.....1940...capacity, hp.....	1,253	13	99	65	50	340	87
59	1930...capacity, hp.....	216	.....	.....	.....	.....	.....	.....
60	1920...capacity, hp.....	2,068	.....	.....	.....	.....	.....	.....
61	Pumps.....1940...capacity, g.p.m.....	104,158	1,400	5,270	3,400	1,511	43,200	3,125
62	1930...capacity, g.p.m.....	24,900	.....	.....	.....	.....	.....	.....
63	1920...capacity, g.p.m.....	51,250	.....	.....	.....	.....	.....	.....
64	Pumping lift, from all sources.....1940...average, feet.....	17	17	30	13	21	26	18
65	1930...average, feet.....	24	.....	.....	.....	.....	.....	.....
66	1920...average, feet.....	38	.....	.....	.....	.....	.....	.....
67	from pumped wells.....1940...average, feet.....	25	.....	.....	.....	35	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	8	.....	.....	[7]1	.....	2	[7]1
69	Irrigated area in these enterprises.....acres....	19,090	.....	.....	15	.....	(1)	15
70	Wages and salaries paid and payable.....dollars..	14,611	.....	.....	85	.....	(1)	85
71	Persons employed during week ending April 29.....number...	21	.....	.....	.....	.....	(1)	.....

*Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.

[2] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

[5] Includes siphons and farm pipe lines reported.

[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

[7] Data for less than 3 enterprises shown with permission of the enterprises involved.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Morton	Sioux	Slope	Stark	Ward	Williams	All other counties[1]
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	12,559,097	2,224,348	3,142,505	8,665,267	12,818,363	10,869,174	376,602,415
2	Land and buildings, irrigated farms.....dollars..	36,500	296,479	72,220	162,860	256,140	93,985	1,246,607
	Operated by—							
3	(a) Owners and managers.....dollars..	(2)	207,479	(2)	138,300	148,180	67,175	985,209
4	(b) Tenants.....dollars..	(2)	89,000	(2)	24,560	107,960	26,810	261,398
5	Average, land and buildings, per farm.....dollars..	4,055.56	5,813.31	9,027.50	7,755.24	8,538.00	9,398.50	9,893.71
6	per acre in farms.....dollars..	41.06	4.36	7.99	12.66	84.20	8.74	9.85
7	Buildings, irrigated farms reporting value.....number...	9	49	8	21	30	10	125
8	Total reported.....dollars..	14,650	65,300	16,600	56,350	153,600	22,275	302,685
9	Average, per irrigated farm reporting.....dollars..	1,627.78	1,332.65	2,075.00	2,683.33	5,120.00	2,227.50	2,421.48
10	per acre on all irrigated farms.....dollars..	16.48	0.96	1.84	4.38	50.49	2.07	2.39
11	Buildings, nonirrigated farms reporting value.....number...	1,672	377	538	1,226	2,184	1,854	52,692
12	Total reported.....dollars..	3,632,510	347,560	760,936	2,316,580	3,663,410	2,691,374	109,183,980
13	Average, per nonirrigated farm reporting.....dollars..	2,172.55	921.91	1,414.38	1,889.54	1,677.39	1,451.66	2,072.12
14	per acre on all nonirrigated farms.....dollars..	3.29	1.15	1.32	2.85	3.31	2.65	3.92
15	Implements and machinery, irrigated farms reporting value..number...	8	49	8	21	29	10	118
16	Total reported.....dollars..	6,900	39,755	15,870	26,225	17,410	13,855	144,284
17	Average, per irrigated farm reporting.....dollars..	862.50	811.33	1,983.75	1,248.81	600.34	1,385.50	1,222.75
18	per acre, on all irrigated farms.....dollars..	7.76	0.58	1.76	2.04	5.72	1.29	1.14
19	Implements and machinery, nonirrigated farms reporting value.....number...	1,649	361	561	1,238	2,093	1,716	51,948
20	Total reported.....dollars..	1,541,503	204,096	568,623	1,434,481	2,013,169	1,621,545	60,459,029
21	Average, per acre, on all nonirrigated farms.....dollars..	1.39	0.67	0.98	1.77	1.82	1.59	2.17
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	8	10	5	5	6	4	13
23	1930...number.....	.....	.....	1	.....	2	6	11
24	1920...number.....	.....	.....	.....	.....	.....	26	.....
25	Average size of enterprise based on irrigable area.....1940...acres.....	20	14	101	13	154	369	620
26	1930...acres.....	.....	.....	.....	.....	.....	308	.....
27	1920[3]..acres.....	.....	.....	.....	.....	.....	1,387	.....
28	Diversion dams.....1940...number.....	.....	.....	1	.....	1	2	8
29	Main canals and laterals.....1940...length, miles.....	.....	3.0	.....	.....	23.9	6.2	1.0
30	1930...length, miles.....	.....	.....	.....	.....	.....	14	2
31	1920...length, miles.....	.....	.....	.....	.....	.....	91	.....
32	1940...capacity, c.f.s.[4]....	8	22	14	4	50	34	347
33	1930...capacity, c.f.s.[4]....	.....	.....	.....	.....	.....	228	14
34	1920...capacity, c.f.s.[4]....	.....	.....	.....	.....	.....	560	.....
35	Pipe lines[5].....1940...length, miles.....	.....	0.3	0.1	0.6	1.4	0.1	0.9
36	Storage dams.....1940...number.....	.....	1	4	.....	2	2	1
37	Reservoirs.....1940...number.....	.....	1	4	.....	[6]2	2	1
38	1930...number.....	.....	.....	.....	.....	.....	6	2
39	1920...number.....	.....	.....	.....	.....	.....	8	.....
40	1940...capacity, acre-feet..	.....	(2)	2,710	.....	720	(2)	(2)
41	1930...capacity, acre-feet..	.....	.....	.....	.....	.....	983	(2)
42	1920...capacity, acre-feet..	.....	.....	.....	.....	.....	710	.....
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	1	2	2	1	.....	.....	1
50	1930...number.....	.....	.....	.....	.....	.....	.....	.....
51	1920...number.....	.....	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	(2)	(2)	(2)	(2)	.....	.....	(2)
53	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	8	10	3	6	10	1	11
56	1930...number.....	.....	.....	.....	.....	.....	1	12
57	1920...number.....	.....	.....	.....	.....	.....	4	.....
58	Prime movers.....1940...capacity, hp.....	44	155	4	35	160	(2)	176
59	1930...capacity, hp.....	.....	.....	.....	.....	.....	20	196
60	1920...capacity, hp.....	.....	.....	.....	.....	.....	2,068	.....
61	Pumps.....1940...capacity, g.p.m.....	3,430	7,728	325	1,519	19,775	(2)	9,475
62	1930...capacity, g.p.m.....	.....	.....	.....	.....	.....	1,000	23,900
63	1920...capacity, g.p.m.....	.....	.....	.....	.....	.....	51,250	.....
64	Pumping lift, from all sources.....1940...average, feet.....	13	16	10	16	13	(2)	14
65	1930...average, feet.....	.....	.....	.....	.....	.....	100	16
66	1920...average, feet.....	.....	.....	.....	.....	.....	38	.....
67	from pumped wells.....1940...average, feet.....	(2)	(2)	(2)	(2)	.....	.....	(2)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	.....	[6]1	.....	.....	[6]1	.....	2
69	Irrigated area in these enterprises.....acres....	.....	16	.....	.....	500	.....	(2)
70	Wages and salaries paid and payable.....dollars..	.....	120	.....	.....	1,100	.....	(2)
71	Persons employed during week ending April 29.....number...	.....	.....	.....	.....	3	.....	(2)

* Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Data for less than 3 enterprises shown with permission of the enterprises involved.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

CENSUS OF IRRIGATION — OKLAHOMA

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF — 1940	1935	1930	1920	1910	1900[1]	1890[2]
Approximate land area of State.....acres....	[*] 44,341,120	[3] 44,396,160	44,424,960	44,424,960	44,424,960	44,424,960	44,424,960
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	179,687	213,325	203,866	191,988	190,192	108,000	8,826
Land in all farms.....acres....	34,803,317	35,334,870	33,790,817	31,951,934	28,859,353	22,988,339	1,606,423
Farms irrigated:[4]							
Farms.....number...	275	184	99	73	137	124	(5)
Increase or decrease (-) over preceding census.....percent..	[6] 177.8	.....	35.6	-46.7	10.5	.....	.....
Proportion of all farms.....percent..	0.2	0.1	(7)	(7)	0.1	0.1	.....
Land in farms.....acres....	190,592	(5)	57,367	(5)	(5)	(5)	(5)
Proportion of all farm land.....percent..	0.5	(5)	0.2	(5)	(5)	(5)	(5)
Area irrigated.....acres....	[8] 4,437	[9] 1,361	[10] 2,109	(11)	2,759	(5)	
Increase or decrease (-) over preceding census.....percent..	[6] 110.4	.....	.....	.....	.....	.....	.....
Proportion of total land area of State.....percent..	(7)	(7)	(7)	.....	.....	(7)	.....
Proportion of all farm land.....percent..	(7)	(7)	(7)	.....	.....	(7)	.....
Value of irrigated farms (land and buildings).....dollars..	3,251,114	(5)	1,671,866	(5)	(5)	(5)	(5)
Average per farm.....dollars..	11,822.23	(5)	16,887.54	(5)	(5)	(5)	(5)
Average per acre.....dollars..	17.06	(5)	29.14	(5)	(5)	(5)	(5)
Value of farm implements and machinery[12].....dollars..	324,257	(5)	99,517	(5)	(5)	(5)	(5)
Average per farm[12].....dollars..	1,179.12	(5)	1,005.22	(5)	(5)	(5)	(5)
Average per acre[12].....dollars..	1.70	(5)	1.73	(5)	(5)	(5)	(5)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	120	(5)	77	33	114	(5)	(5)
Farms irrigated.....number...	147	(5)	(5)	(5)	(5)	(5)	(5)
Area irrigated.....acres....	4,160	(5)	1,573	2,969	4,388	(5)	(5)
Area existing works were capable of supplying with water.....acres....	8,624	(5)	7,331	9,672	6,397	(5)	(5)
Area irrigable.....acres....	13,494	(5)	7,344	[13] 11,742	[13] 8,528	(5)	(5)
Additional area existing works were capable of supplying with water.....acres....	4,464	(5)	5,758	6,703	2,009	(5)	(5)
Additional irrigable area in enterprises not supplied with water.....acres....	9,334	(5)	5,771	[13] 8,773	[13] 4,140	(5)	(5)
Investment in irrigation enterprises.....dollars..	272,186	(5)	160,099	151,325	47,200	21,872	(5)
Increase or decrease (-) over preceding census.....percent..	[6] 70.0	(5)	5.8	220.6	115.8	(5)	(5)
Average per acre based on area works were capable of supplying with water.....dollars..	31.56	(5)	21.84	15.65	7.38	(5)	(5)
Increase or decrease (-) over preceding census.....percent..	[6] 44.5	(5)	39.6	112.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	299,486	(5)	167,909	162,775	47,200	(5)	(5)
Average per acre based on irrigable area in enterprises.....dollars..	22.19	(5)	22.86	[13] 13.86	[13] 5.53	(5)	(5)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	3.35	(5)	7.62	2.92	0.51	(5)	(5)

[1] Figures for 1900 include Indian Territory. [2] The 1890 figures for land area include Indian Territory; those for number of farms and farm acreage are for Oklahoma Territory alone, no data available for Indian Territory. [3] Due to relocation of the one-hundredth meridian (U. S. Supreme Court decision March 17, 1930) 45 square miles were transferred from Oklahoma to Texas. [4] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [5] Not available. [6] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [7] Less than one-tenth of 1 percent. [8] Irrigated land from which crops were harvested plus 406 acres of irrigated land used only for pasture. [9] Irrigated land from which crops were harvested. [10] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [11] Data were secured for crops irrigated but the returns were considered relatively incomplete. [12] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [13] For 1920 and 1910 relates to total area in enterprises. Irrigable area for those years were not reported. [*] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from those shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939 — Total	CROPLAND HARVESTED 1939 — Irrigated[1]	Irrigated pasture 1939	VALUE OF FARMS (land and buildings) — Total	VALUE OF FARMS (land and buildings) — Average per acre[2]	VALUE OF BUILDINGS — Total	VALUE OF BUILDINGS — Average per acre[2]	VALUE OF IMPLEMENTS AND MACHINERY — Total	VALUE OF IMPLEMENTS AND MACHINERY — Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	179,687	34,803,317	12,766,219	4,031	406	831,140,748	23.88	141,515,968	4.07	78,448,733	2.25
Owners and managers.....	81,866	20,034,386	6,805,483	2,819	406	495,176,545	24.72	91,660,139	4.58	47,690,049	2.38
Tenants.....	97,821	14,768,931	5,960,736	1,212	.....	335,964,203	22.75	49,855,829	3.38	30,758,684	2.08
Irrigated farms, total.....	275	190,592	30,510	4,031	406	3,251,114	17.06	878,415	4.61	324,257	1.70
Owners and managers.....	205	155,752	24,007	2,819	406	2,631,046	16.89	774,330	4.97	258,271	1.66
Tenants.....	70	34,840	6,503	1,212	.....	620,068	17.80	104,085	2.99	65,986	1.89
Wholly irrigated farms.....	56	44,736	1,068	1,068	346	420,030	9.39	189,685	4.24	37,277	0.83
Owners and managers.....	41	31,367	730	730	346	328,790	10.48	163,800	5.22	33,285	1.06
Tenants.....	15	13,369	338	338	.....	91,240	6.82	25,885	1.94	3,992	0.30
Partly irrigated farms.....	219	145,856	29,442	2,963	60	2,831,084	19.41	688,730	4.72	286,980	1.97
Owners and managers.....	164	124,385	23,277	2,089	60	2,302,256	18.51	610,530	4.91	224,986	1.81
Tenants.....	55	21,471	6,165	874	.....	528,828	24.63	78,200	3.64	61,994	2.89
Nonirrigated farms, total.....	179,412	34,612,725	12,735,709	.....	.....	827,889,634	23.92	140,637,553	4.06	78,124,476	2.26

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	120	13,494	8,624	4,160	1,573	2,969	164.5	3,974	3,869	3,702	1.4	3.34	2.34
Streams, gravity	11	2,606	2,356	1,631	355	2,522	359.4	1,604	1,631	1,604	0.9	0.63	0.68
Streams, pumped	32	7,033	2,699	1,163	320	188	263.4	1,027	1,158	1,022	1.2	2.96	2.44
Streams, gravity and pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	39	1,346	1,143	792	63	107	(c)	792	724	724	2.0	6.48	3.31
Wells, flowing	.....	.....	.....	.....	.....	18	.....	.....	.....	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	1	(2)	(2)	(2)	19	.....	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Lakes, pumped	4	155	95	40	35	.....	14.3	40	40	40	1.0	9.35	9.35
Springs	3	22	22	21	5	6	320.0	21	21	21	2.1	3.67	1.75
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	7	104	104	77	.....	.....	.....	77	77	77	2.5	13.64	5.50
City water	18	1,850	1,850	255	235	3	8.5	232	37	33	2.9	12.12	4.21
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	2	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Waste water, seepage or drainage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other mixed	3	177	154	85	40	125	112.5	85	85	85	2.4	6.76	2.88
Other and not reported	.....	.....	.....	.....	501	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [c] Percent not shown when more than 1,000.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*
Total	272,186	100.0	31.56	160,099	100.0	21.84	9.72	3,869	3.35	935	7.62	-4.27	2,626
Streams, gravity	44,210	16.2	18.76	101,950	63.7	19.83	-1.07	1,631	0.75	255	15.00	-14.25	2,322
Streams, pumped	67,378	24.8	24.96	9,670	6.0	15.35	9.61	1,158	2.96	320	3.00	-0.04	123
Streams, gravity and pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	87,265	32.1	76.35	12,225	7.6	185.23	-108.88	724	6.48	61	14.30	-7.82	32
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	(3)	(3)	(3)	1,000	0.6	52.63	(3)	(3)	(3)	19	5.26	(3)	.....
Lakes, pumped	7,509	2.8	79.04	1,000	0.6	28.57	50.47	40	9.38	.....	.....	.....	.....
Springs	3,480	1.3	158.18	19,000	11.9	37.62	120.56	21	3.67	5	3.00	0.67	6
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	6,000	2.2	57.69	.....	.....	.....	.....	77	13.64	.....	.....	.....	.....
City water	10,044	3.7	5.43	229	0.2	0.97	4.46	37	10.86	235	4.89	5.97	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....
Waste water, seepage or drainage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other mixed	5,600	2.1	36.36	2,500	1.6	12.50	23.86	85	6.78	40	5.00	1.78	125
Other and not reported	.....	.....	.....	12,525	7.8	25.00	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION — OKLAHOMA

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	4,160	.....	1,573	2,969	164.5
Individual and partnership	3,816	.....	1,453	969	162.6
Cooperative, incorporated	.....	.....	120	2,000	.....
Cooperative, unincorporated	.....	.....			.....
Bureau of Reclamation[1] *	.....	.....	.....	.....	.....
Office of Indian Affairs[1]	334	.....	.....	.....	.....
Other federal	10	.....	.....	.....	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	8,624	.....	7,331	9,672	17.6
Individual and partnership	7,961	.....	2,531	2,072	214.5
Cooperative, incorporated	.....	.....	4,800	7,600	.....
Cooperative, unincorporated	.....	.....			.....
Bureau of Reclamation[1] *	.....	.....	.....	.....	.....
Office of Indian Affairs[1]	648	.....	.....	.....	.....
Other federal	15	.....	.....	.....	.....
IRRIGABLE AREA[2]					
Total	13,494	.....	7,344	11,742	83.7
Individual and partnership	12,831	.....	2,544	4,142	404.4
Cooperative, incorporated	.....	.....	4,800	7,600	.....
Cooperative, unincorporated	.....	.....			.....
Bureau of Reclamation[1] *	.....	.....	.....	.....	.....
Office of Indian Affairs[1]	648	.....	.....	.....	.....
Other federal	15	.....	.....	.....	.....

[1] U. S. Dept. of the Interior. [2] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 463.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES: Total	ENTERPRISES: Serving 5 or more farms	AREAS: Irrigable	AREAS: Works were capable of supplying with water	AVERAGE COST: Primary enterprises: Works and equipment per acre[2]	AVERAGE COST: Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST: Supplemental enterprises: Works and equipment per acre	AVERAGE COST: Supplemental enterprises: Maintenance and operation per acre	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	120	3	13,494	8,624	31.26	3.35	.....	.....	147	4,160	3,603	148	409
Individual and partnership	101	1	12,831	7,961	22.40	3.43	.....	.....	107	3,816	3,259	148	409
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Office of Indian Affairs	18	2	648	648	138.36	2.14	.....	.....	39	334	334	.....	.....
Other federal	[4] 1	.....	15	15	109.27	13.80	.....	.....	1	10	10	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for less than 3 enterprises shown with permission of the enterprises involved. * For explanation of areas and investment, see text, p. 463.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940: Total	1940: Primary enterprises	1940: Supplemental enterprises	1940: Total cost of works and equipment	1940: Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	272,186	272,186	.....	269,618	2,568	160,099	151,325	70.0	31.56	.....	.....	27,300
Individual and partnership	180,892	180,892	.....	178,324	2,568	85,099	110,658	112.6	22.72	.....	.....	27,300
Cooperative, incorporated	.....	.....	.....	.....	.....	75,000	40,667	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....				.....	.....	.....	.....
U. S. Bureau of Reclamation*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Office of Indian Affairs	89,655	89,655	.....	89,655	.....	.....	.....	.....	138.36	.....	.....	.....
Other federal	1,639	1,639	.....	1,639	.....	.....	.....	.....	109.27	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. * For explanation of investment, see text, p. 463.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE, CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area		Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Total arrearages		Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
		Irrigable 1940	Works were capable of supplying with water 1940					Dec. 31 1939	Dec. 31 1938				
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	[3] 2	40	40	15,850	106.79	396.25	.....	.....	.....	.....	719	530	.....
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(4)	(4)	.....
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[5]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Office of Indian Affairs[5]	[3] 2	40	40	[6] 15,850	106.79	396.25	.....	.....	.....	.....	(4)	(4)	.....
Other federal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. No supplemental enterprises reported indebtedness in this State. [2] In payment of principal, interest, and/or other funded obligations. [3] Data for less than 3 enterprises shown with permission of the enterprises involved. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [5] U. S. Dept. of the Interior. [6] Represents construction cost of irrigation works less cancellations and repayments. [7] For explanation of areas and investment, see text, p. 463.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	3,869	12,973	.....	.....	3.35	.....	.....	.....	.....
Individual and partnership	3,540	12,151	.....	.....	3.43	.....	.....	.....	.....
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation[2]	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Office of Indian Affairs	319	684	.....	.....	2.14	.....	.....	.....	.....
Other federal	10	138	.....	.....	13.80	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] For explanation of areas and investment, see text, p. 463.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	8	21	277	41	1.2	20	900	24.4	....	.....	77	15,486	116	1,037	116	59,280
Individual and partnership	8	17	261	40	1.2	14	829	17.5	....	.....	55	13,886	80	735	80	50,515
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3]	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Office of Indian Affairs[3]	.....	4	15	1	.....	6	71	6.6	....	.....	22	1,600	35	272	35	8,015
Other federal	.....	.....	1	.....	.....	.....	.....	0.3	....	.....	.....	.....	1	30	1	750

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	8	21	4	3
Concrete or masonry	1	2	.....	2
Timber	.....	.....	.....	.....
Earth and rock	6	18	4	1
Other and mixed	.....	1	.....	.....
Not reported	1	.....	.....	.....

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940, AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	116	100.0	59,280	100.0	36
Electric motor	**32**	**27.6**	**7,259**	**12.2**	**55**
Centrifugal	15	13.0	4,200	7.1	42
Turbine	10	8.6	2,320	3.9	55
Plunger	7	6.0	739	1.2	82
Other	.....	.....	.....	.....	.....
Internal-combustion engine	**65**	**56.0**	**49,935**	**84.2**	**25**
Centrifugal	56	48.3	45,415	76.6	22
Turbine	7	6.0	4,410	7.4	45
Plunger	2	1.7	110	0.2	32
Other	.....	.....	.....	.....	.....
Other kinds of motive power	**17**	**14.7**	**86**	**0.2**	**50**
Centrifugal	.....	.....	.....	.....	.....
Turbine	.....	.....	.....	.....	.....
Plunger	17	14.7	86	0.2	50
Other	.....	.....	.....	.....	.....
Mixed kinds of motive power	**2**	**1.7**	**2,000**	**3.4**	**25**
Centrifugal	2	1.7	2,000	3.4	25
Turbine	.....	.....	.....	.....	.....
Plunger	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....
Total, 1930	30	.....	8,855	.....	33
Increase or decrease (-) 1930-1940	86	.....	50,425	.....	3

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	116	100.0	1,037	100.0
Centrifugal pump	**68**	**58.6**	**669**	**64.5**
Electric	13	11.2	95	9.2
Internal-combustion	55	47.4	574	55.3
Other	.....	.....	.....	.....
Turbine pump	**10**	**8.6**	**107**	**10.3**
Electric	5	4.3	29	2.8
Internal-combustion	5	4.3	78	7.5
Other	.....	.....	.....	.....
Plunger pump	**26**	**22.4**	**41**	**4.0**
Electric	7	6.0	21	2.0
Internal-combustion	2	1.7	3	0.3
Other	17	14.7	17	1.7
Other and mixed types of pumps	**12**	**10.4**	**220**	**21.2**
Electric	8	6.9	105	10.1
Internal-combustion	4	3.5	115	11.1
Other	.....	.....	.....	.....
Total, 1930	[1]25	.....	229	.....
Increase or decrease (-) 1930-1940	91	.....	808	.....

[1] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930	
	Miles	*Miles*	*Percent*
Total	24.4	0.7	([2])
Concrete:			
1 to 12 inches	0.6	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Metal:			
1 to 12 inches	23.6	0.7	([2])
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Wood-stave:			
1 to 12 inches	0.1	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....
Clay and other:			
1 to 12 inches	0.1	.....	.....
13 to 24 inches	.....	.....	.....
Over 24 inches	.....	.....	.....

[1] Includes siphons and farm pipe lines reported.

[2] Percent not shown when more than 1,000.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	11	4	3
Area irrigable in these enterprises.....acres....	838	189	[1]1,960
Area irrigated in these enterprises.....acres....	342	([2])	([2])
Area for which drains have been installed.....acres....	429	95	.....
Additional area needing drainage.....acres....	106	50	1,820
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	125.4	[3]50.3	.....
(b) All irrigation enterprises.....percent..	10.3	6.0	.....
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	63.8	76.7	[1]92.9
(b) Irrigated area reporting.....percent..	156.4	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED			NOT MEASURED		
	1939	1929[1]	1919[1]	1939[2]	1929[1]	1919[1]	1939	1929[1]	1919[1]
From surface sources reported:									
Total water entering canals.....acre-feet..	16	.....	.....	16	.....	.....	.....	.....	.....
Area irrigated by these enterprises.....acres.....	19	.....	.....	19	.....	.....	.....	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	0.8	.....	.....	.....	.....	.....
Total water delivered to irrigators.....acre-feet..	3,836	.....	.....	.....	.....	.....	3,836	.....	.....
Area irrigated by these enterprises.....acres.....	3,069	.....	.....	.....	.....	.....	3,069	.....	.....
Average water per acre irrigated.....acre-feet..	1.2	.....	.....	.....	.....	.....	1.2	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	1,835	.....	.....	7	.....	.....	1,828	.....	.....
Area irrigated by these enterprises.....acres.....	905	.....	.....	15	.....	.....	890	.....	.....
Average water per acre irrigated.....acre-feet..	2.0	.....	.....	0.5	.....	.....	2.1	.....	.....

[1] Not reported.

[2] Data only for enterprises serving 5 or more farms.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	4,160	100.0	.....	1,573	100.0	2,969	100.0
Appropriation[1].....	2,294	55.1	.....	742	47.1	560	18.8
Riparian.....	766	18.4	.....	17	1.1	80	2.7
Underground.....	576	13.9	.....	78	5.0	120	4.1
Riparian and underground.....	89	2.1	.....	.....	.....	.....	.....
Adjudicated by court.....	266	6.4	.....	.....	.....	2,200	74.1
Other mixed and not reported.....	169	4.1	.....	736	46.8	9	0.3

[1] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

BUREAU OF RECLAMATION ACTIVITIES

There were no projects of the United States Bureau of Reclamation in operation in Oklahoma at the time the Irrigation Census of 1940 was taken. Consequently, none of the areas or investment reported in State tables 5, 6, 7, 8, and 9 relate to activities of that agency.

The Bureau has under construction, however, the Lugert-Altus Project on the North Fork of the Red River, which will irrigate about 70,000 acres of productive land that has been unsuccessfully dry-farmed. The project is located in Greer, Kiowa, and Jackson Counties.

The reservoir of 200,000 acre-feet capacity will serve for flood control and also supplement the municipal water supply for the city of Altus. A nonreimbursable allocation for flood control, a Work Projects Administration grant for labor, and the municipal water supply cost to be borne by the city of Altus will materially reduce the cost of irrigation. The estimated over-all cost of the project is $5,600,000, of which $2,520,000 is represented by the flood control and WPA grants, $1,080,000 by the water allocation to the city of Altus, and $2,000,000 by irrigation.

The droughts of the thirties, which had the effect of reducing population in Oklahoma for the first decade since it became a State, has revived interest in irrigation in the State. State authorities and the Bureau of Reclamation are conducting investigations of potential projects at various points, several in connection with flood control projects.

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STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS			
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms
1	Enterprises, 1940.....number...	120	9	97	11	3
2	Irrigated farms, 1939.....number...	147	.....	97	24	26
3	Area irrigated, 1939.....acres....	4,160	.....	2,269	1,157	734
4	(a) From which crops were harvested.....acres....	3,603	.....	2,173	1,057	373
5	(b) On which crops failed.....acres....	148	.....	43	90	15
6	(c) Irrigated pasture.....acres....	409	.....	53	10	346
	CAPITAL INVESTMENT, 1940					
7	Total capital investment in all enterprises.....dollars..	272,186	17,644	168,694	44,498	41,350
8	(a) Cost of irrigation works and equipment.....dollars..	269,618	17,644	166,659	44,465	40,850
9	(b) Investment in water rights.....dollars..	2,568	.....	2,035	33	500
10	Area works were capable of supplying with water.....acres....	8,624	210	3,624	3,750	1,040
11	Average investment per acre irrigated.....dollars..	65.43	.....	74.35	38.46	56.34
12	Average investment per acre which the works could supply with water....dollars..	31.56	84.02	46.55	11.87	39.76
	MAINTENANCE AND OPERATION, AND CHARGES, 1939					
13	Enterprises reporting maintenance and operation.....number...	107	5	90	12	
14	(a) Area irrigated in these enterprises.....acres....	3,869	.....	2,127	1,742	
15	(b) Cost of maintenance and operation.....dollars..	12,973	5	10,714	2,254	
16	(c) Average cost per irrigated acre reporting.....dollars..	3.35	.....	5.04	1.29	
17	Total annual charges[2].....dollars..	530	.....	.....	530	
18	Average charge per irrigated acre reporting.....dollars..	0.74	.....	.....	0.74	
19	Area against which charges were assessed.....acres....	719	.....	.....	719	
20	Average annual charge per acre assessed.....dollars..	0.74	.....	.....	0.74	
21	Total charges collected[2].....dollars..	.....	.....	.....	.....	
	INDEBTEDNESS AND ARREARAGE, 1939					
22	Enterprises reporting indebtedness[3].....number...	[4] 2	.....	.....	.....	2
23	(a) Area irrigated in these enterprises.....acres....	34	.....	.....	.....	34
24	(b) Indebtedness.....dollars..	15,850	.....	.....	.....	15,850
25	(c) Average indebtedness per acre irrigated.....dollars..	466.18	.....	.....	.....	466.18
26	(d) Cost of irrigation works and equipment.....dollars..	15,850	.....	.....	.....	15,850
27	(e) Investment in water rights.....dollars..	.....	.....	.....	.....	.....
28	(f) Total investment.....dollars..	15,850	.....	.....	.....	15,850
29	(g) Maintenance and operation.....dollars..	31	.....	.....	.....	31
30	(h) Total annual charges[2].....dollars..	30	.....	.....	.....	30
31	(i) Total charges collected[2].....dollars..	.....	.....	.....	.....	.....
32	(j) Area against which annual charges were assessed.....acres....	19	.....	.....	.....	19
33	(k) Average indebtedness per acre assessed.....dollars..	106.79	.....	.....	.....	106.79
34	(l) Average charges per acre assessed.....dollars..	1.58	.....	.....	.....	1.58
35	(m) Average charges per acre irrigated.....dollars..	1.58	.....	.....	.....	1.58
	TYPE, 1940					
36	Individual and partnership.....number...	101	7	85	8	1
37	Cooperative (incorporated and unincorporated).....number...	.....	.....	.....	.....	.....
38	U. S. Bureau of Reclamation.....number...	.....	.....	.....	.....	.....
39	U. S. Office of Indian Affairs.....number...	18	2	11	3	2
40	All other.....number...	1	.....	1	.....	.....
	SOURCE OF WATER SUPPLY, 1939					
41	Streams, gravity.....number...	11	1	7	2	1
42	Streams, pumped.....number...	32	1	26	4	1
43	Wells, pumped.....number...	39	3	31	4	1
44	Wells, pumped and flowing; or wells flowing.....number...	.....	.....	.....	.....	.....
45	Lakes, gravity or pumped.....number...	5	1	4	.....	.....
46	Streams and springs; or springs.....number...	3	.....	3	.....	.....
47	Mixed, streams and wells.....number...	2	.....	2	.....	.....
48	Other mixed or stored storm water.....number...	28	3	24	1	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940. [2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [3] Indebtedness was reported only by enterprises serving 5 or more farms. [4] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water Year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual Mean	Departure[1]
Arkansas River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Springer, N. Mex.	Colfax	5,857	14.57	+0.08	2.39	+0.70	1.64	+0.35	3.41	-1.33	7.13	+0.36	50.1	+0.1
Tucumcari, N. Mex.	Quay	4,100	12.56	-5.54	2.17	-0.60	1.81	+0.35	3.82	-2.20	4.76	-3.09	58.1	+0.1
Boise City	Cimarron	4,000	16.11	+0.06	3.44	+0.48	4.31	+2.78	5.83	+0.45	2.53	-3.65	55.4	+1.8
Buffalo	Harper	1,850	16.87	-5.27	1.00	-2.65	4.02	+0.98	9.25	+1.25	2.60	-4.85	61.2	+2.5
Oakwood	Dewey	1,854	21.65	-4.97	2.76	-2.17	5.66	+2.39	8.61	-2.23	4.62	-2.96	61.9	+3.4
Enid	Garfield	1,269	25.45	-5.21	3.01	-2.69	5.60	+1.76	12.36	+0.52	4.48	-4.80	62.8	+3.5
Norman	Cleveland	1,171	25.90	-7.41	2.45	-4.74	5.33	+0.26	13.24	+0.67	4.88	-3.60	62.0	+1.1
Blackwell	Kay	1,020	22.75	-9.02	2.93	-3.07	3.56	-0.52	12.66	+0.95	3.60	-6.38	61.4	+1.6
Bristow	Creek	818	29.65	-6.20	4.67	-3.61	5.43	-0.75	11.65	-0.53	7.90	-1.31	62.2	+0.8
Pawhuska	Osage	885	26.27	-11.86	3.99	-2.92	5.74	-0.02	12.37	-1.91	4.17	-7.01	[2]	[2]
McAlester	Pittsburg	738	32.85	-10.48	4.44	-5.34	9.51	+1.35	11.00	-4.33	7.90	-2.16	[2]	[2]
Miami	Ottawa	801	34.24	-10.19	4.15	-4.69	6.93	-0.78	14.93	+0.30	8.23	-5.02	60.7	+1.7
Sallisaw	Sequoyah	531	31.82	-11.05	6.75	-3.07	9.27	+0.77	12.33	-2.42	3.47	-6.33	63.5	+1.5
Red River														
Canyon, Texas	Randall	3,577	17.87	-2.11	3.60	+0.06	2.51	+0.41	9.32	+3.06	2.44	-5.64	[2]	[2]
Hollis	Harmon	1,610	17.55	-7.18	1.88	-3.81	4.99	+1.95	8.43	-0.24	2.25	-5.08	64.5	+2.1
Cloud Chief	Washita	1,400	22.21	-7.67	2.63	-4.00	4.58	+1.07	9.80	-1.55	5.20	-3.19	63.0	+2.2
Lawton	Comanche	1,111	17.20	-15.54	2.55	-4.70	5.52	+1.37	6.14	-6.52	2.99	-5.69	65.5	+3.8
Sulphur	Murray	1,011	25.09	-12.68	3.98	-4.78	6.76	+0.44	9.83	-4.08	4.52	-4.26	65.1	+2.3
Idabel	McCurtain	504	39.91	-5.09	5.61	-5.01	15.68	+4.39	14.23	-0.06	4.39	-4.41	64.8	+0.9

[1] Departure from normal. [2] Not available.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY, BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS, CENSUS OF 1940—Continued

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	ACRES IRRIGATED				COST OF IRRIGATION WORKS AND EQUIPMENT		
		No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999
1	Enterprises, 1940.....number...	9	102	7	2	108	9	3
2	Irrigated farms, 1939.....number...	.....	128	11	8	114	25	8
3	Area irrigated, 1939.....acres....	.....	1,885	2,275		2,393	778	989
4	(a) From which crops were harvested.....acres....	.....	1,759	1,844		2,257	718	628
5	(b) On which crops failed.....acres....	.....	73	75		73	60	15
6	(c) Irrigated pasture.....acres....	.....	53	356		63	.....	346
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	17,644	190,972	63,570		125,561	66,125	80,500
8	(a) Cost of irrigation works and equipment.....dollars..	17,644	188,924	63,050		123,503	66,115	80,000
9	(b) Investment in water rights.....dollars..	.....	2,048	520		2,058	10	500
10	Area works were capable of supplying with water.....acres....	210	2,864	5,550		5,568	867	2,189
11	Average investment per acre irrigated.....dollars..	.....	101.31	27.94		52.47	84.99	81.40
12	Average investment per acre which the works could supply with water....dollars..	84.02	66.68	11.45		22.55	76.27	36.77
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	5	94	8		96	8	3
14	(a) Area irrigated in these enterprises.....acres....	.....	1,728	2,141		2,117	763	989
15	(b) Cost of maintenance and operation.....dollars..	5	10,629	2,339		10,454	859	1,660
16	(c) Average cost per irrigated acre reporting.....dollars..	.....	6.15	1.09		4.94	1.13	1.68
17	Total annual charges[2].....dollars..	.....	30	500		30	.....	500
18	Average charge per irrigated acre reporting.....dollars..	.....	1.58	0.71		1.58	.....	0.71
19	Area against which harges were assessed.....acres....	.....	19	700		19	.....	700
20	Average annual charge per acre assessed.....dollars..	.....	1.58	0.71		1.58	.....	0.71
21	Total charges collected[2].....dollars..	.....	.....	.....		.....	.....	.....
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3].....number...	.....	2	.....	.....	1	1	.....
23	(a) Area irrigated in these enterprises.....acres....	.....	34	.....	.....	19	15	.....
24	(b) Indebtedness.....dollars..	.....	15,850	.....	.....	2,029	13,821	.....
25	(c) Average indebtedness per acre irrigated.....dollars..	.....	466.18	.....	.....	106.79	921.40	.....
26	(d) Cost of irrigation works and equipment.....dollars..	.....	15,850	.....	.....	2,029	13,821	.....
27	(e) Investment in water rights.....dollars..	.....	.....	.....	.....	.....	.....	.....
28	(f) Total investment.....dollars..	.....	15,850	.....	.....	2,029	13,821	.....
29	(g) Maintenance and operation.....dollars..	.....	31	.....	.....	31	.....	.....
30	(h) Total annual charges[2].....dollars..	.....	30	.....	.....	30	.....	.....
31	(i) Total charges collected[2].....dollars..	.....	.....	.....	.....	.....	.....	.....
32	(j) Area against which annual charges were assessed.....acres....	.....	19	.....	.....	19	.....	.....
33	(k) Average indebtedness per acre assessed.....dollars..	.....	106.79	.....	.....	106.79	.....	.....
34	(l) Average charges per acre assessed.....dollars..	.....	1.58	.....	.....	1.58	.....	.....
35	(m) Average charges per acre irrigated.....dollars..	.....	1.58	.....	.....	1.58	.....	.....
	TYPE, 1940							
36	Individual and partnership.....number...	7	86	6	2	95	3	3
37	Cooperative (incorporated and unincorporated).....number...	.....	.....	.....	.....	.....	.....	.....
38	U. S. Bureau of Reclamation.....number...	.....	.....	.....	.....	.....	.....	.....
39	U. S. Office of Indian Affairs.....number...	2	15	1	.....	12	6	.....
40	All other.....number...	.....	1	.....	.....	1	.....	.....
	SOURCE OF WATER SUPPLY, 1939							
41	Streams, gravity.....number...	1	6	2	2	8	2	1
42	Streams, pumped.....number...	1	28	3	.....	29	2	1
43	Wells, pumped.....number...	3	35	1	.....	34	5	.....
44	Wells, pumped and flowing; or wells flowing.....number...	.....	.....	.....	.....	.....	.....	.....
45	Lakes, gravity or pumped.....number...	1	4	.....	.....	5	.....	.....
46	Streams and springs; or springs.....number...	.....	3	.....	.....	3	.....	.....
47	Mixed, streams and wells.....number...	.....	2	.....	.....	1	.....	1
48	Other mixed or stored storm water.....number...	3	24	1	.....	28	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940. [2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [3] Indebtedness was reported only by enterprises serving 5 or more farms.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation in Oklahoma during the calendar year (1938) was slightly above normal (+0.82 inches) and during the calendar year (1939) was considerably below normal (-5.56 inches) as reported by the United States Weather Bureau.

The precipitation during the water year (October 1938 through September 1939) was substantially below normal for the entire State (-8.11 inches) as indicated by the average for 16 typical Oklahoma weather stations shown in State table 18. Five of these typical weather stations in the drainage basins of the tributaries of the Red River show an average deficiency of 9.63 inches for the water year. The Weather Bureau reports further:

"The average precipitation was 26.71 inches, which is 5.56 inches less than the average of the past 48 years. During the last 20 years, only 1936, with an average of 22.69 inches, was drier than this year, and there have been only 7 drier years than 1939, since the record began. September was the driest month, and was also, by far, the driest September on record, the State average precipitation being only 0.33 inch. January, February, and June were the only months with more than normal precipitation, and the latter month was the wettest of the year. Heavy dust storms occurred with much more than usual frequency during the first half of the year. The storm on March 11th covered practically the entire State, and for much of Oklahoma, was reported to have been the heaviest of record.

"The average temperature for the year, 62.7°, was 2.2° above the 48-year average. Only in 1921, 1933, 1934 and 1938 were the annual mean temperatures higher, while the mean this year was only 0.1° lower than last year."

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore, Mississippi River total for Oklahoma is identical with State Total)				
			Arkansas River				
			Total	Direct (3)	Salt Fork Arkansas River (4)	Cimarron River (5)	Verdigris River (2)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	147	102	34	4	22	6
2	Area irrigated....1939...acres....	4,160	3,051	308	84	2,008	24
3	(a) Cropland harvested....1939...acres....	3,603	2,547	308	84	1,546	24
4	(b) Crop failure....1939...acres....	148	148	.....	.....	116	.....
5	(c) Pasture....1939...acres....	409	356	.....	.....	346	.....
6	Area irrigated....1929...acres....	1,573	954	.....	.....	293	.....
7	1919...acres....	2,969	2,843	.....	.....	2,588	.....
8	Increase or decrease (-), 1929-1939....percent....	164.5	219.8	.....	.....	585.3	.....
9	Irrigable area in enterprises....1940...acres....	13,494	9,853	456	147	7,968	27
10	1930...acres....	7,344	5,987	.....	.....	5,088	.....
11	1920[1]...acres....	11,742	11,449	.....	.....	10,929	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	9,334	6,802	148	63	5,960	3
13	1930...acres....	5,771	5,033	.....	.....	4,795	.....
14	1920[1]...acres....	8,773	8,606	.....	.....	8,341	.....
15	Area works were capable of supplying with water...1940...acres....	8,624	5,290	456	97	3,718	27
16	1930...acres....	7,331	5,974	.....	.....	5,076	.....
17	1920...acres....	9,672	9,379	.....	.....	8,879	.....
18	Increase or decrease (-), 1930-1940....percent....	17.6	-11.4	.....	.....	-26.8	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	4,464	2,239	148	13	1,710	3
20	1930...acres....	5,758	5,020	.....	.....	4,783	.....
21	1920...acres....	6,703	6,536	.....	.....	6,291	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	48.2	57.7	67.5	86.6	54.0	88.9
23	1929...percent....	21.5	16.0	.....	.....	5.8	.....
24	1919...percent....	30.7	30.3	.....	.....	29.1	.....
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	272,186	216,335	69,441	4,175	63,110	2,815
26	(a) Cost of irrigation works and equipment....1940...dollars....	269,618	215,687	69,441	4,175	62,600	2,740
27	(b) Investment in water rights (reported)....1940...dollars....	2,568	648	.....	.....	510	75
28	Total investment in irrigation enterprises....1930...dollars....	160,099	134,045	.....	.....	102,750	.....
29	1920...dollars....	151,325	142,597	.....	.....	93,157	.....
30	Increase or decrease (-), 1930-1940....percent....	70.0	61.4	.....	.....	-38.6	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	31.56	40.90	152.28	43.04	16.97	104.26
32	1930...dollars....	21.84	22.44	.....	.....	20.24	.....
33	1920...dollars....	15.65	15.20	.....	.....	10.49	.....
34	Average investment per acre irrigated....1939...dollars....	65.43	70.91	225.46	49.70	31.43	117.29
35	Estimated final investment in existing enterprises..1940...dollars....	299,486	240,585	69,441	5,175	80,610	2,815
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	22.19	24.42	152.28	35.20	10.12	104.26
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number....	107	77	20	4	14	6
38	Area irrigated in these enterprises....1939...acres....	3,869	2,982	288	84	2,008	24
39	Cost of maintenance and operation....1939...dollars....	12,973	8,525	1,844	160	1,905	372
40	Average cost per acre irrigated....1939...dollars....	3.35	2.86	6.40	1.90	0.95	15.50
41	Total annual charges (reported)[2 3]....1939...dollars....	530	500	.....	.....	500	.....
42	Average annual charge per acre irrigated....1939...dollars....	0.74	0.71	.....	.....	0.71	.....
43	Area against which charges were assessed....1939...acres....	719	700	.....	.....	700	.....
44	Average annual charge per acre assessed....1939...dollars....	0.74	0.71	.....	.....	0.71	.....
45	Total charges collected[2]....1939...dollars....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[3]....1939...dollars....	15,850	13,821	13,821	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	105	71	20	4	14	6
48	Area irrigated by these enterprises....1939...acres....	3,974	3,020	308	84	2,008	24
49	Water delivered....1939...acre-feet..	5,671	3,738	576	88	1,952	29
50	Average water delivered per acre irrigated....1939...acre-feet..	1.4	1.2	1.9	1.0	1.0	1.2
51	Average cost of water per acre irrigated....1939...dollars....	3.34	2.82	6.40	1.90	0.95	15.50
52	Average cost of water per acre-foot delivered..1939...dollars....	2.34	2.28	3.42	1.82	0.98	12.83
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	11	4	1	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres....	838	293	(4)	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres....	342	157	(4)	.....	.....	.....
56	Area for which drains have been installed....1939...acres....	429	17	(4)	.....	.....	.....
57	Additional area needing drainage....1939...acres....	106	16	.....	.....	.....	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued					
		Arkansas River—Continued			Red River		
		Canadian River					
		Total	Direct (7)	North Canadian River (6)	Total	Direct (9)	Washita River (10)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	36	8	28	45	28	17
2	Area irrigated....1939...acres....	627	83	544	1,109	841	268
3	(a) Cropland harvested....1939...acres....	585	83	502	1,056	841	215
4	(b) Crop failure....1939...acres....	32	.....	32	.....	.....	.....
5	(c) Pasture....1939...acres....	10	.....	10	53	.....	53
6	Area irrigated....1929...acres....	319	.....	.....	619	.....	.....
7	1919...acres....	251	.....	.....	126	.....	.....
8	Increase or decrease (-), 1929-1939....percent....	96.6	.....	.....	79.2	.....	.....
9	Irrigable area in enterprises....1940...acres....	1,255	128	1,127	3,641	2,875	766
10	1930...acres....	556	.....	.....	1,357	.....	.....
11	1920[1]...acres....	502	.....	.....	293	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	628	45	583	2,532	2,034	498
13	1930...acres....	237	.....	.....	738	.....	.....
14	1920[1]...acres....	251	.....	.....	167	.....	.....
15	Area works were capable of supplying with water...1940...acres....	992	128	864	3,334	2,830	504
16	1930...acres....	556	.....	.....	1,357	.....	.....
17	1920...acres....	495	.....	.....	293	.....	.....
18	Increase or decrease (-), 1930-1940....percent....	78.4	.....	.....	145.7	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	365	45	320	2,225	1,989	236
20	1930...acres....	237	.....	.....	738	.....	.....
21	1920...acres....	244	.....	.....	167	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	63.2	64.8	63.0	33.3	29.7	53.2
23	1929...percent....	57.4	.....	.....	45.6	.....	.....
24	1919...percent....	50.7	.....	.....	43.0	.....	.....
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	76,794	7,812	68,982	55,851	24,919	30,932
26	(a) Cost of irrigation works and equipment....1940...dollars....	76,731	7,812	68,919	53,931	23,899	30,032
27	(b) Investment in water rights (reported)....1940...dollars....	63	.....	63	1,920	1,020	900
28	Total investment in irrigation enterprises....1930...dollars....	13,195	.....	.....	26,054	.....	.....
29	1920...dollars....	46,234	.....	.....	8,728	.....	.....
30	Increase or decrease (-), 1930-1940....percent....	482.0	.....	.....	114.4	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	77.41	61.03	79.84	16.75	8.81	61.37
32	1930...dollars....	23.73	.....	.....	19.20	.....	.....
33	1920...dollars....	93.40	.....	.....	29.79	.....	.....
34	Average investment per acre irrigated....1939...dollars....	122.48	94.12	126.81	50.36	29.63	115.42
35	Estimated final investment in existing enterprises..1940...dollars....	82,544	10,562	71,982	58,901	26,394	32,507
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	65.77	82.52	63.87	16.18	9.18	42.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number....	33	9	24	30	16	14
38	Area irrigated in these enterprises....1939...acres....	578	83	495	887	620	267
39	Cost of maintenance and operation....1939...dollars....	4,244	414	3,830	4,448	3,104	1,344
40	Average cost per acre irrigated....1939...dollars....	7.34	4.99	7.74	5.01	5.01	5.03
41	Total annual charges (reported)[2] [3]....1939...dollars....	.....	.....	.....	30	30	.....
42	Average annual charge per acre irrigated....1939...dollars....	.....	.....	.....	1.58	1.58	.....
43	Area against which charges were assessed....1939...acres....	.....	.....	.....	19	19	.....
44	Average annual charge per acre assessed....1939...dollars....	.....	.....	.....	1.58	1.58	.....
45	Total charges collected[2]....1939...dollars....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[3]....1939...dollars....	.....	.....	.....	2,029	2,029	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	27	4	23	34	19	15
48	Area irrigated by these enterprises....1939...acres....	596	56	540	954	686	268
49	Water delivered....1939...acre-feet..	1,093	37	1,056	1,933	1,514	419
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	0.7	2.0	2.0	2.2	1.6
51	Average cost of water per acre irrigated....1939...dollars....	7.39	3.79	7.80	5.39	5.58	5.03
52	Average cost of water per acre-foot delivered..1939...dollars....	4.03	5.73	3.99	2.66	2.53	3.22
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	3	1	2	7	2	5
54	Irrigable area in these enterprises....1939...acres....	287	([4])	([4])	545	([4])	205
55	Irrigated area in these enterprises....1939...acres....	151	([4])	([4])	185	([4])	39
56	Area for which drains have been installed....1939...acres....	12	.....	([4])	412	([4])	92
57	Additional area needing drainage....1939...acres....	16	([4])	([4])	90	([4])	70

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION – OKLAHOMA

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		STATE TOTAL	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore, Mississippi River total for Oklahoma is identical with State Total)				
				Arkansas River				
				Total	Direct (3)	Salt Fork Arkansas River (4)	Cimarron River (5)	Verdigris River (2)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises	1940..number	120	81	23	4	14	6
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	72	65	20	24	266	4
3	Diversion dams	1940..total number	8	6	.....	1	2	.....
4		1930..total number	4	2	.....	.....	2	.....
5		1920..total number	7	7	.....	.....	7	.....
6	(a) Concrete and masonry	1940..number	1	.....	.....	.....	1	.....
7	(b) Timber	1940..number	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock	1940..number	6	4	.....	1	1	.....
9	(d) Other, mixed, and not reported	1940..number	1	1	.....	.....	.....	.....
10	Main canals and laterals	1940..total length, miles	42.2	36.2	2.0	1.1	31.0	.....
11		1930..total length, miles	24	21	.....	.....	20	.....
12		1920..total length, miles	57	56	.....	.....	52	.....
13	(a) Earth	1940..length, miles	41	35	2	1	30	.....
14	(b) Lined	1940..length, miles	1.2	1.2	.....	0.1	1.0	.....
15		1940..capacity, c.f.s.[1]	277	215	11	15	174	3
16		1930..capacity, c.f.s.[1]	77	68	.....	.....	66	.....
17		1920..capacity, c.f.s.[1]	344	290	.....	.....	282	.....
18	Pipe lines[2]	1940..total length, miles	24.4	19.5	11.2	0.2	.....	0.5
19		1930..total length, miles	0.7	0.4	.....	.....	0.2	.....
20		1920..total length, miles	4.3	4.3	.....	.....	.....	.....
21	(a) Concrete	1940..length, miles	0.6	.....	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	23.6	19.4	11.2	0.2	.....	0.5
23	(c) Wood-stave	1940..length, miles	0.1	0.1	.....	.....	.....	.....
24	(d) Other, mixed, and not reported	1940..length, miles	0.1	.....	.....	.....	.....	.....
25	Storage dams	1940..total number	21	14	2	2	5	1
26		1930..total number	3	2	.....	.....	1	.....
27		1920..total number	3	2	.....	.....	.....	.....
28	(a) Concrete and masonry	1940..number	2	1	.....	.....	1	.....
29	(b) Earth and rock	1940..number	18	12	1	2	4	1
30	(c) Other, mixed, and not reported	1940..number	1	1	1	.....	.....	.....
31	Reservoirs	1940..total number	20	15	4	2	4	1
32	(a) 1-99 acre-feet capacity	1940..number	19	14	4	2	3	1
33	(b) 100-999 acre-feet capacity	1940..number	1	1	.....	.....	1	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....
35		1940..total capacity, ac.-ft.[3]	900	854	37	(4)	733	(4)
36		1930..total number	7	6	.....	.....	4	.....
37		1930..total capacity, ac.-ft.	293	281	.....	.....	271	.....
38	Wells, flowing	1940..number	.....	.....	.....	.....	.....	.....
39		1930..number	.....	.....	.....	.....	.....	.....
40		1920..number	1	.....	.....	.....	.....	.....
41		1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42		1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43		1920..yield, g.p.m.	100	.....	.....	.....	.....	.....
44	Wells, pumped	1940..number	77	58	29	1	2	.....
45		1930..number	18	16	.....	.....	4	.....
46		1920..number	19	19	.....	.....	5	.....
47		1940..yield, g.p.m.	15,486	12,315	2,370	(4)	(4)	.....
48		1930..yield, g.p.m.	2,715	2,625	.....	.....	530	.....
49		1920..yield, g.p.m.	3,643	3,643	.....	.....	2,485	.....
50	Pumping plants	1940..total number	116	77	33	3	9	3
51		1930..total number	25	16	.....	.....	4	.....
52	Prime movers	1940..capacity, hp.	1,037	606	111	14	187	10
53		1930..capacity, hp.	229	145	.....	.....	31	.....
54		1920..capacity, hp.	184	120	.....	.....	33	.....
55	(a) Electric	1940..number	33	22	9	.....	.....	2
56		1940..capacity, hp.	250	167	51	.....	.....	(4)
57	(b) Internal-combustion	1940..number	66	39	10	2	9	1
58		1940..capacity, hp.	770	423	46	(4)	187	(4)
59	(c) Other	1940..number	17	16	14	1	.....	.....
60		1940..capacity, hp.	17	16	14	(4)	.....	.....
61	Pumps	1940..total number	116	77	33	3	9	3
62		1930..number	30	21	.....	.....	7	.....
63		1920..number	26	22	.....	.....	4	.....
64		1940..capacity, g.p.m.	59,280	32,083	4,910	960	13,700	150
65		1930..capacity, g.p.m.	8,855	3,425	.....	.....	680	.....
66		1920..capacity, g.p.m.	7,668	4,668	.....	.....	1,485	.....
67	(a) Centrifugal	1940..number	73	43	14	2	7	2
68		1940..capacity, g.p.m.	51,615	27,190	4,130	(4)	11,700	(4)
69		1940..average capacity, g.p.m.	707	632	295	(4)	1,671	(4)
70	(b) Turbine	1940..number	17	11	3	.....	2	.....
71		1940..capacity, g.p.m.	6,730	4,310	560	.....	(4)	.....
72		1940..average capacity, g.p.m.	396	392	187	.....	(4)	.....
73	(c) Plunger	1940..number	26	23	16	1	.....	1
74		1940..capacity, g.p.m.	935	583	220	(4)	.....	(4)
75		1940..average capacity, g.p.m.	36	25	14	(4)	.....	(4)
76	(d) Other	1940..number	.....	.....	.....	.....	.....	.....
77		1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	36	40	47	27	20	11
79		1930..average, feet	33	35	.....	.....	24	.....
80		1920..average, feet	59	69	.....	.....	26	.....
81	from pumped wells	1940..average, feet	48	46	46	(4)	(4)	.....
82	from surface sources	1940..average, feet	26	30	52	20	17	11

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Total capacity of all reservoirs regardless of size. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		MISSISSIPPI RIVER—Continued				
			Arkansas River—Continued			Red River	
			Canadian River				
		Total	Direct (7)	North Canadian River (6)	Total	Direct (9)	Washita River (10)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	34	9	25	39	23	16
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	29	14	35	85	123	32
3	Diversion dams....1940..total number	3	3	.....	2	2	.....
4	1930..total number	.....	.....	.....	2	.....	.....
5	1920..total number	.....	.....	.....	.....	.....	.....
6	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....
7	(b) Timber....1940..number	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	2	2	.....	2	2	.....
9	(d) Other, mixed, and not reported..1940..number	1	1	.....	.....	.....	.....
10	Main canals and laterals....1940..total length, miles	2.1	2.1	.....	6.0	1.0	5.0
11	1930..total length, miles	1	.....	.....	3	.....	.....
12	1920..total length, miles	4	.....	.....	1	.....	.....
13	(a) Earth....1940..length, miles	2	2	.....	6	1	5
14	(b) Lined....1940..length, miles	0.1	0.1	.....	.....	.....	.....
15	1940..capacity, c.f.s.[1]	12	8	4	62	41	21
16	1930..capacity, c.f.s.[1]	2	.....	.....	9	.....	.....
17	1920..capacity, c.f.s.[1]	8	.....	.....	54	.....	.....
18	Pipe lines[2]....1940..total length, miles	7.6	1.3	6.3	4.9	2.2	2.7
19	1930..total length, miles	0.2	.....	.....	0.3	.....	.....
20	1920..total length, miles	4.0	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	0.6	0.3	0.3
22	(b) Metal....1940..length, miles	7.5	1.3	6.2	4.2	1.9	2.3
23	(c) Wood-stave....1940..length, miles	0.1	.....	0.1	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	0.1	.....	0.1
25	Storage dams....1940..total number	4	2	2	7	2	5
26	1930..total number	1	.....	.....	1	.....	.....
27	1920..total number	2	.....	.....	1	.....	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	1	.....	1
29	(b) Earth and rock....1940..number	4	2	2	6	2	4
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	4	2	2	5	2	3
32	(a) 1-99 acre-feet capacity....1940..number	4	2	2	5	2	3
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]	68	[4]	[4]	46	[4]	5
36	1930..total number	1	.....	.....	1	.....	.....
37	1930..total capacity, ac.-ft.	1	.....	.....	12	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....
39	1930..number	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	1	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	100	.....	.....
44	Wells, pumped....1940..number	26	.....	26	19	16	3
45	1930..number	3	.....	.....	2	.....	.....
46	1920..number	12	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	8,435	.....	8,435	3,171	2,570	601
48	1930..yield, g.p.m.	645	.....	.....	90	.....	.....
49	1920..yield, g.p.m.	1,106	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	29	2	27	39	25	14
51	1930..total number	6	.....	.....	9	.....	.....
52	Prime movers....1940..capacity, hp.	284	[4]	274	431	269	162
53	1930..capacity, hp.	45	.....	.....	84	.....	.....
54	1920..capacity, hp.	78	.....	.....	64	.....	.....
55	(a) Electric....1940..number	11	[5] 1	10	11	5	6
56	1940..capacity, hp.	111	8	103	83	18	65
57	(b) Internal-combustion....1940..number	17	1	16	27	20	7
58	1940..capacity, hp.	172	[4]	170	347	251	96
59	(c) Other....1940..number	1	.....	1	1	.....	1
60	1940..capacity, hp.	[4]	.....	[4]	[4]	.....	[4]
61	Pumps....1940..total number	29	2	27	39	25	14
62	1930..number	5	.....	.....	9	.....	.....
63	1920..number	16	.....	.....	4	.....	.....
64	1940..capacity, g.p.m.	12,363	[4]	11,763	27,197	16,420	10,777
65	1930..capacity, g.p.m.	1,295	.....	.....	5,430	.....	.....
66	1920..capacity, g.p.m.	3,141	.....	.....	3,000	.....	.....
67	(a) Centrifugal....1940..number	18	2	16	30	20	10
68	1940..capacity, g.p.m.	10,310	[4]	9,710	24,425	14,300	10,125
69	1940..average capacity, g.p.m.	573	[4]	607	814	715	1,012
70	(b) Turbine....1940..number	6	.....	6	6	5	[5] 1
71	1940..capacity, g.p.m.	1,750	.....	1,750	2,420	2,120	300
72	1940..average capacity, g.p.m.	292	.....	292	403	424	300
73	(c) Plunger....1940..number	5	.....	5	3	.....	3
74	1940..capacity, g.p.m.	303	.....	303	352	.....	352
75	1940..average capacity, g.p.m.	61	.....	61	117	.....	117
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	45	[4]	47	31	24	40
79	1930..average, feet	45	.....	.....	30	.....	.....
80	1920..average, feet	89	.....	.....	30	.....	.....
81	from pumped wells....1940..average, feet	49	.....	49	57	35	93
82	from surface sources...1940..average, feet	37	[4]	39	22	21	24

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Total capacity of all reservoirs regardless of size. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprises involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alfalfa	Caddo	Canadian	Carter	Cimarron	Cotton
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	179,687	2,012	4,425	2,436	2,517	605	1,544
2	1930...number....	203,866	2,328	5,961	2,961	2,195	887	2,045
3	Irrigated farms....1940...number....	275	3	6	5	6	20	15
4	1930...number....	99	3	.....	.....	4	8	1
5	Increase or decrease (-), 1930-1940....percent....	177.8	.....	.....	.....	50.0	150.0	(2)
	Operated by—							
6	(a) Owners and managers....1940...number....	205	3	5	5	6	12	9
7	1930...number....	69	.....	.....	.....	.....	8	.....
8	(b) Tenants....1940...number....	70	.....	1	.....	.....	8	6
9	1930...number....	30	.....	.....	.....	.....	.....	.....
10	Land in all farms....1940...acres....	34,803,317	507,276	800,543	525,564	345,222	929,453	385,803
11	Land in irrigated farms....1940...acres....	190,592	720	3,526	1,356	170	82,990	4,983
12	Average per farm....1940...acres....	693	240	588	271	28	4,150	332
13	(a) Operated by owners and managers....1940...acres....	155,752	720	(3)	1,356	170	72,882	3,516
14	Average per farm....1940...acres....	760	240	(3)	271	28	6,074	391
15	(b) Operated by tenants....1940...acres....	34,840	.....	(3)	.....	.....	10,108	1,467
16	Average per farm....1940...acres....	498	.....	(3)	.....	.....	1,264	244
17	Approximate land area....1940...acres....	44,341,120	565,760	816,000	566,400	530,560	1,172,480	402,560
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	4,160	24	141	18	42	1,548	189
19	(a) Cropland harvested....1939...acres....	3,603	24	91	18	39	1,086	189
20	(b) Crop failure....1939...acres....	148	.....	.....	.....	.....	116	.....
21	(c) Pasture....1939...acres....	409	.....	50	.....	3	346	.....
22	Area irrigated....1929...acres....	1,573	.....	.....	.....	.....	146	.....
23	1919...acres....	2,969	.....	.....	.....	.....	315	.....
24	Increase or decrease (-), 1929-1939....percent....	164.5	.....	.....	.....	.....	960.3	.....
25	Irrigable area in enterprises....1940...acres....	13,494	37	246	45	55	2,302	196
26	1930...acres....	7,344	.....	.....	.....	.....	226	.....
27	1920[4]...acres....	11,742	.....	.....	.....	.....	2,255	.....
28	Excess of irrigable area over the area irrigated..1940...acres....	9,334	13	105	27	13	754	7
29	1930...acres....	5,771	.....	.....	.....	.....	80	.....
30	Area works were capable of supplying with water...1940...acres....	8,624	37	246	45	55	2,052	194
31	1930...acres....	7,331	.....	.....	.....	.....	226	.....
32	1920...acres....	9,672	.....	.....	.....	.....	905	.....
33	Increase or decrease (-), 1930-1940....percent....	17.6	.....	.....	.....	.....	808.0	.....
34	Excess, capability of works over area irrigated...1940...acres....	4,464	13	105	27	13	504	5
35	1930...acres....	5,758	.....	.....	.....	.....	80	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	2.2	3.3	4.0	1.3	24.7	1.9	3.8
37	1929...percent....	2.7	.....	.....	.....	.....	0.4	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	48.2	64.9	57.3	40.0	76.4	75.4	97.4
39	1929...percent....	21.5	.....	.....	.....	.....	64.6	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	272,186	575	9,787	11,039	5,300	44,910	6,150
41	(a) Cost of irrigation works and equipment....1940...dollars....	269,618	575	9,787	11,039	4,400	44,400	6,150
42	(b) Investment in water rights (reported)....1940...dollars....	2,568	.....	.....	.....	900	510	.....
43	Total investment in all enterprises....1930...dollars....	160,099	.....	.....	.....	.....	26,125	.....
44	1920...dollars....	151,325	.....	.....	.....	.....	33,680	.....
45	Increase or decrease (-), 1930-1940....percent....	70.0	.....	.....	.....	.....	71.9	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	31.56	15.54	39.78	245.31	96.36	21.89	31.70
47	1930...dollars....	21.84	.....	.....	.....	.....	115.60	.....
48	1920...dollars....	15.65	.....	.....	.....	.....	37.22	.....
49	Average investment per acre irrigated....1939...dollars....	65.43	23.96	69.41	613.28	126.19	29.01	32.54
50	Estimated final investment in existing enterprises..1940...dollars....	299,486	575	10,087	11,039	5,300	46,410	6,150
51	1930...dollars....	167,909	.....	.....	.....	.....	26,125	.....
52	1920...dollars....	162,775	.....	.....	.....	.....	42,680	.....
53	Increase or decrease (-), 1930-1940....percent....	78.4	.....	.....	.....	.....	77.6	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	22.19	15.54	41.00	245.31	96.36	20.16	31.38
55	1930...dollars....	22.86	.....	.....	.....	.....	115.60	.....
56	1920[4]...dollars....	13.86	.....	.....	.....	.....	18.93	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
57	Enterprises reporting maintenance and operation...1939...number....	107	3	4	3	4	10	4
58	Area irrigated in these enterprises....1939...acres....	3,869	24	140	18	42	1,548	189
59	Cost of maintenance and operation....1939...dollars....	12,973	60	273	181	650	1,285	826
60	Average cost per acre irrigated....1939...dollars....	3.35	2.50	1.95	10.06	15.48	0.83	4.37
61	1929...dollars....	7.62	.....	.....	.....	.....	2.43	.....
62	Total annual charges (reported)[6 7]....1939...dollars....	530	.....	.....	.....	.....	500	.....
63	Average annual charge per acre irrigated....1939...dollars....	0.74	.....	.....	.....	.....	0.71	.....
64	Area against which charges were assessed....1939...acres....	719	.....	.....	.....	.....	700	.....
65	Average annual charge per acre assessed....1939...dollars....	0.74	.....	.....	.....	.....	0.71	.....
66	Total charges collected[6]....1939...dollars....	.....	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars....	15,850	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	105	3	5	[5] 2	4	10	4
69	Area irrigated in these enterprises....1939...acres....	3,974	24	141	18	42	1,548	189
70	Water delivered in these enterprises....1939...acre-feet..	5,671	35	196	9	78	1,482	399
71	Average water delivered per acre irrigated....1939...acre-feet..	1.4	1.5	1.4	0.5	1.9	1.0	2.1
72	Average cost of water per acre irrigated....1939...dollars....	3.34	2.50	1.95	10.00	15.48	0.83	4.37
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	11	.....	.....	.....	3	.....	.....
74	Irrigable area in these enterprises....1939...acres....	838	.....	.....	.....	50	.....	.....
75	Irrigated area in these enterprises....1939...acres....	342	.....	.....	.....	38	.....	.....
76	Area for which drains have been installed....1939...acres....	429	.....	.....	.....	11	.....	.....
77	Additional area needing drainage....1939...acres....	106	.....	.....	.....	.....	.....	.....

*Census of Agriculture.
[1]Data between census years not comparable (see headnote).
[2]Percent not shown when more than 1,000.
[3]Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Custer	Ellis	Harper	Jackson	Kay	Muskogee	Oklahoma	Osage	Potta-watomie	Texas	Tillman	Tulsa	All other counties[1]	
2,290	1,443	945	2,048	2,663	3,614	3,424	2,464	3,595	1,408	2,119	2,689	137,446	1
2,988	1,685	1,204	2,849	2,849	4,487	3,111	2,354	3,760	2,020	2,763	2,489	154,930	2
3	7	8	13	5	3	21	4	5	20	4	12	115	3
.....	.....	2	8	1	1	13	1	3	6	1	1	46	4
.....	.....	300.0	62.5	400.0	200.0	61.5	300.0	66.7	233.3	300.0	(2)	150.0	5
2	6	7	8	3	3	15	4	5	15	2	7	88	6
.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	58	7
1	1	1	5	2	.....	6	.....	.....	5	2	5	27	8
.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	25	9
594,852	703,892	605,054	470,017	562,703	392,569	338,698	1,156,106	422,366	1,153,916	530,930	284,091	24,094,262	10
1,467	5,410	11,164	2,212	234	465	311	7,854	432	15,672	960	897	49,769	11
489	773	1,396	170	47	155	15	1,964	86	784	240	75	433	12
(3)	(3)	(3)	1,253	(3)	465	189	7,854	432	11,872	(3)	620	38,038	13
(3)	(3)	(3)	157	(3)	155	13	1,964	86	791	(3)	89	432	14
(3)	(3)	(3)	959	(3)	.....	122	.....	.....	3,800	(3)	277	11,731	15
(3)	(3)	(3)	192	(3)	.....	20	.....	.....	760	(3)	55	434	16
639,360	782,080	661,760	499,200	604,160	526,080	453,760	1,467,520	511,360	1,315,840	551,040	366,080	31,909,120	17
55	56	570	308	60	33	53	19	13	87	43	178	723	18
55	56	560	308	60	33	53	19	13	55	43	178	723	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	.....	.....	20
.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
.....	.....	.....	420	.....	.....	.....	.....	.....	.....	.....	.....	1,007	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,654	23
.....	.....	.....	-26.7	.....	.....	.....	.....	.....	.....	.....	.....	-28.2	24
277	66	5,880	2,015	66	96	65	33	73	132	140	178	1,592	25
.....	.....	.....	585	.....	.....	.....	.....	.....	.....	.....	.....	6,533	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9,487	27
222	10	5,310	1,707	6	63	12	14	60	45	97	.....	869	28
.....	.....	.....	165	.....	.....	.....	.....	.....	.....	.....	.....	5,526	29
85	66	1,790	1,992	66	96	65	33	13	119	120	178	1,372	30
.....	.....	.....	585	.....	.....	.....	.....	.....	.....	.....	.....	6,520	31
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,767	32
.....	.....	.....	240.5	.....	.....	.....	.....	.....	.....	.....	.....	-79.0	33
30	10	1,220	1,684	6	63	12	14	.....	32	77	.....	649	34
.....	.....	.....	165	.....	.....	.....	.....	.....	.....	.....	.....	5,513	35
3.7	1.0	5.1	13.9	25.6	7.1	17.0	0.2	3.0	0.6	4.5	19.8	1.5	36
.....	.....	.....	44.0	.....	.....	.....	.....	.....	.....	.....	.....	5.9	37
64.7	84.8	31.8	15.5	90.9	34.4	81.5	57.6	100.0	73.1	35.8	100.0	52.7	38
.....	.....	.....	71.8	.....	.....	.....	.....	.....	.....	.....	.....	15.4	39
8,685	3,400	19,210	6,720	30,145	7,324	4,590	5,317	1,400	1,978	3,300	11,800	90,556	40
8,685	3,400	19,200	5,700	30,145	7,324	4,590	5,242	1,400	1,950	3,300	11,800	90,531	41
.....	.....	10	1,020	.....	.....	.....	75	.....	28	.....	.....	25	42
.....	.....	.....	4,504	.....	.....	.....	.....	.....	.....	.....	.....	129,470	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	117,645	44
.....	.....	.....	49.2	.....	.....	.....	.....	.....	.....	.....	.....	-30.1	45
102.18	51.52	10.73	3.37	456.74	76.29	70.62	161.12	107.69	16.62	27.50	66.29	66.00	46
.....	.....	.....	7.70	.....	.....	.....	.....	.....	.....	.....	.....	19.86	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.42	48
157.91	60.71	33.70	21.82	502.42	221.94	86.60	279.84	107.69	22.74	76.74	66.29	125.25	49
11,460	3,650	35,710	7,020	30,145	7,324	5,090	5,317	1,400	1,978	4,325	11,800	94,706	50
.....	.....	.....	4,504	.....	.....	.....	.....	.....	.....	.....	.....	137,280	51
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120,095	52
.....	.....	.....	55.9	.....	.....	.....	.....	.....	.....	.....	.....	-31.0	53
41.37	55.30	6.07	3.48	456.74	76.29	78.31	161.12	19.18	14.98	30.89	66.29	59.49	54
.....	.....	.....	7.70	.....	.....	.....	.....	.....	.....	.....	.....	21.01	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.66	56
4	6	4	6	[5] 2	4	6	4	3	4	2	10	24	57
55	56	570	144	45	28	53	19	13	87	(3)	178	620	58
378	376	845	872	51	172	508	265	151	395	(3)	1,550	3,860	59
6.87	6.71	1.48	6.06	1.13	6.14	9.58	13.95	11.62	4.54	(3)	8.71	6.23	60
.....	.....	.....	3.45	.....	.....	.....	.....	.....	.....	.....	.....	14.34	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.58	63
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.58	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	13,821	.....	.....	.....	.....	.....	.....	.....	2,029	67
3	2	4	8	3	4	5	4	3	4	3	10	24	68
55	(3)	570	308	60	33	49	19	13	87	43	178	568	69
125	(3)	525	787	29	49	137	7	8	75	88	478	1,136	70
2.3	(3)	0.9	2.6	0.5	1.5	2.8	0.4	0.6	0.9	2.0	2.7	2.0	71
6.85	(3)	1.48	6.06	1.13	6.11	10.35	13.95	11.62	4.54	6.88	8.71	7.14	72
.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	4	73
.....	.....	(3)	.....	.....	(3)	(3)	.....	.....	.....	(3)	.....	490	74
.....	.....	(3)	.....	.....	(3)	(3)	.....	.....	.....	(3)	.....	152	75
.....	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	(3)	.....	381	76
.....	.....	(3)	.....	.....	.....	.....	.....	.....	.....	(3)	.....	76	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Data for less than 3 enterprises shown with permission of the enterprises involved.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alfalfa	Caddo	Canadian	Carter	Cimarron	Cotton
	FARM VALUES, 1940[a]							
1	Land and buildings, all farms....dollars..	831,140,748	25,363,523	24,069,651	23,875,846	7,609,785	5,539,236	9,355,579
2	Land and buildings, irrigated farms....dollars..	3,251,114	28,000	104,400	140,675	108,000	251,950	144,848
	Operated by—							
3	(a) Owners and managers....dollars..	2,631,046	28,000	(2)	140,675	108,000	213,970	98,820
4	(b) Tenants....dollars..	620,068	.....	(2)	.....	.....	37,980	46,028
5	Average, land and buildings, per farm....dollars..	11,822.23	9,333.33	17,400.00	28,135.00	18,000.00	12,597.50	9,656.53
6	per acre in farms....dollars..	17.06	38.89	29.61	103.74	635.29	3.04	29.07
7	Buildings, irrigated farms reporting value....number...	268	3	6	5	6	19	13
8	Total reported....dollars..	878,415	6,000	22,500	41,115	82,500	42,775	17,900
9	Average, per irrigated farm reporting....dollars..	3,277.67	2,000.00	3,750.00	8,223.00	13,750.00	2,251.32	1,376.92
10	per acre on all irrigated farms....dollars..	4.61	8.33	6.38	30.32	485.29	0.52	3.59
11	Buildings, nonirrigated farms reporting value....number...	173,242	1,889	4,305	2,339	2,433	491	1,465
12	Total reported....dollars..	140,637,553	3,094,667	3,841,231	3,660,158	1,387,860	526,311	1,270,034
13	Average, per nonirrigated farm reporting....dollars..	811.80	1,638.26	892.06	1,564.84	570.43	1,071.92	866.92
14	per acre on all nonirrigated farms....dollars..	4.06	6.11	4.82	6.98	4.02	0.62	3.33
15	Implements and machinery, irrigated farms reporting value..number...	245	3	5	5	5	19	14
16	Total reported....dollars..	324,257	4,250	13,700	24,700	4,965	24,417	15,085
17	Average, per irrigated farm reporting....dollars..	1,323.50	1,416.67	2,740.00	4,940.00	993.00	1,285.11	1,077.50
18	per acre, on all irrigated farms....dollars..	1.70	5.90	3.89	18.22	29.21	0.29	3.03
19	Implements and machinery, nonirrigated farms reporting value....number...	152,490	1,737	3,839	2,114	2,044	513	1,323
20	Total reported....dollars..	78,124,476	2,392,643	2,159,364	1,993,711	435,763	653,414	995,141
21	Average, per acre, on all nonirrigated farms....dollars..	2.26	4.72	2.71	3.80	1.26	0.77	2.61
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	120	3	5	3	4	10	4
23	1930...number....	77	2	.....	.....	4	5	1
24	1920...number....	33	.....	.....	.....	.....	6	.....
25	Average size of enterprise based on irrigable area....1940...acres....	112	12	49	15	14	230	49
26	1930...acres....	95	.....	.....	.....	.....	45	.....
27	1920[3]..acres....	356	.....	.....	.....	.....	376	.....
28	Diversion dams....1940...number....	8	.....	.....	.....	.....	2	.....
29	Main canals and laterals....1940...length, miles....	42.2	0.1	.....	.....	4.0	11.0	.....
30	1930...length, miles....	24	.....	.....	.....	.....	3	.....
31	1920...length, miles....	57	.....	.....	.....	.....	15	.....
32	1940...capacity, c.f.s.[4]....	277	1	10	2	4	106	11
33	1930...capacity, c.f.s.[4]....	77	.....	.....	.....	.....	5	.....
34	1920...capacity, c.f.s.[4]....	344	.....	.....	.....	.....	123	.....
35	Pipe lines[5]....1940...length, miles....	24.4	0.1	1.4	1.0	0.4	.....	0.4
36	Storage dams....1940...number....	21	2	.....	.....	2	5	.....
37	Reservoirs....1940...number....	20	2	.....	.....	.....	4	.....
38	1930...number....	7	.....	.....	.....	.....	4	.....
39	1920...number....	8	.....	.....	.....	.....	.....	.....
40	1940...capacity, acre-feet..	900	(2)	.....	.....	.....	733	.....
41	1930...capacity, acre-feet..	293	.....	.....	.....	.....	271	.....
42	1920...capacity, acre-feet..	52	.....	.....	.....	.....	.....	.....
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	1	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	100	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	77	1	1	[6]2	1	.....	10
50	1930...number....	18	.....	.....	.....	.....	3	.....
51	1920...number....	19	.....	.....	.....	.....	1	.....
52	1940...yield, g.p.m....	15,486	(2)	(2)	400	(2)	.....	1,000
53	1930...yield, g.p.m....	2,715	.....	.....	.....	.....	30	.....
54	1920...yield, g.p.m....	3,643	.....	.....	.....	.....	1,600	.....
55	Pumping plants....1940...number....	116	2	6	4	3	4	6
56	1930...number....	25	.....	.....	.....	.....	2	.....
57	1920...number....	22	.....	.....	.....	.....	1	.....
58	Prime movers....1940...capacity, hp....	1,037	(2)	88	45	9	58	56
59	1930...capacity, hp....	229	.....	.....	.....	.....	3	.....
60	1920...capacity, hp....	184	.....	.....	.....	.....	8	.....
61	Pumps....1940...capacity, g.p.m....	59,280	(2)	4,852	1,250	650	6,200	4,700
62	1930...capacity, g.p.m....	8,855	.....	.....	.....	.....	30	.....
63	1920...capacity, g.p.m....	7,668	.....	.....	.....	.....	600	.....
64	Pumping lift, from all sources....1940...average, feet....	36	(2)	46	76	44	16	23
65	1930...average, feet....	33	.....	.....	.....	.....	26	.....
66	1920...average, feet....	59	.....	.....	.....	.....	16	.....
67	from pumped wells....1940...average, feet....	48	(2)	(2)	71	(2)	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll....number...	.....	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises....acres....	.....	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable....dollars..	.....	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29....number...	.....	.....	.....	.....	.....	.....	.....

[a] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

Irrigation data omitted from any of the counties listed are included under "All other counties"

Custer	Ellis	Harper	Jackson	Kay	Muskogee	Oklahoma	Osage	Potta-watomie	Texas	Tillman	Tulsa	All other counties[1]	
16,904,442	8,449,315	7,061,913	14,973,705	25,736,628	9,887,597	22,227,807	18,688,425	10,622,823	14,228,978	23,294,943	15,210,910	548,039,642	1
40,000	54,280	129,580	104,640	46,700	82,730	148,906	228,600	35,100	128,650	58,000	76,950	1,338,905	2
(2)	(2)	(2)	62,740	(2)	82,730	114,856	228,600	35,100	95,200	(2)	36,000	1,042,695	3
(2)	(2)	(2)	41,900	(2)	.....	34,050	.....	.....	33,650	(2)	40,950	296,210	4
13,333.33	7,754.29	16,197.50	8,049.23	9,340.00	27,576.67	7,090.76	57,150.00	7,020.00	6,442.50	14,500.00	6,412.50	11,642.65	5
27.27	10.03	11.61	47.31	199.57	177.91	478.80	29.11	81.25	8.22	60.42	85.79	26.90	6
3	7	8	13	4	3	21	4	5	20	4	12	112	7
3,450	8,800	15,800	24,100	29,550	29,500	63,220	30,400	20,500	25,950	9,300	26,950	378,105	8
1,150.00	1,257.14	1,975.00	1,853.85	7,387.50	9,833.33	3,010.48	7,600.00	4,100.00	1,297.50	2,325.00	2,245.83	3,375.94	9
2.35	1.63	1.42	10.90	126.28	63.44	203.28	3.87	47.45	1.66	9.69	30.04	7.60	10
2,187	1,389	867	1,965	2,559	3,516	3,324	2,403	3,514	1,269	2,001	2,623	132,722	11
2,680,914	1,378,930	990,894	1,844,720	3,910,865	2,266,871	5,531,258	3,802,778	2,445,738	1,828,270	2,819,453	4,001,896	93,354,605	12
1,225.84	1,007.25	1,142.90	938.79	1,528.28	644.73	1,664.04	1,582.51	696.00	1,440.72	1,409.02	1,525.73	703.38	13
4.52	1.97	1.67	3.94	6.95	5.78	16.35	3.31	5.80	1.61	5.32	14.13	3.88	14
3	6	8	13	3	3	13	4	4	20	4	11	102	15
2,370	4,275	13,300	19,475	5,550	11,350	6,740	5,300	2,700	17,730	4,395	12,342	131,613	16
790.00	712.50	1,662.50	1,498.08	1,850.00	3,783.33	518.46	1,325.00	675.00	886.50	1,098.75	1,122.00	1,290.32	17
1.62	0.79	1.19	8.80	23.72	24.41	21.67	0.67	6.25	1.13	4.58	13.76	2.64	18
2,077	1,177	839	1,849	2,309	3,216	2,342	1,926	2,940	1,218	1,800	2,417	116,810	19
2,174,127	1,099,940	864,058	1,544,995	2,475,562	931,757	1,097,115	1,181,588	925,521	1,475,342	2,194,739	1,143,680	52,386,016	20
3.66	1.57	1.45	3.30	4.40	2.38	3.24	1.03	2.19	1.30	4.14	4.04	2.18	21
4	6	4	8	3	6	6	4	3	4	5	10	28	22
.....	.....	1	7	1	1	13	1	3	1	1	1	35	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27	24
69	11	1,470	252	22	16	11	8	24	33	28	18	57	25
.....	.....	.....	84	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	351	27
.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	28
1.0	1.1	20.0	1.0	.....	2.0	.....	.....	.....	.....	.....	.....	2.0	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	31
3	6	68	18	.....	9	.....	2	.....	.....	1	1	35	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	33
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	221	34
0.2	.....	.....	1.0	2.6	3.1	1.4	0.5	1.2	.....	.....	3.9	7.2	35
1	.....	.....	1	2	.....	.....	1	1	.....	.....	.....	6	36
1	.....	.....	1	[6] 2	.....	.....	2	.....	1	.....	.....	7	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	39
(2)	.....	.....	(2)	6	.....	.....	(2)	.....	(2)	.....	.....	110	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100	48
[6] 1	.....	4	.....	16	.....	2	[6] 2	.....	7	4	10	16	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	51
400	.....	2,660	.....	380	.....	(2)	70	.....	1,100	1,420	1,570	6,253	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,685	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,043	54
3	.....	7	6	17	2	5	2	1	4	5	10	29	55
.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	18	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	57
35	.....	139	47	39	(2)	10	(2)	(2)	24	47	28	390	58
.....	.....	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	166	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	176	60
4,300	.....	7,660	5,100	520	(2)	740	(2)	(2)	1,800	2,920	1,620	15,278	61
.....	.....	.....	3,900	.....	.....	.....	.....	.....	.....	.....	.....	4,925	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,068	63
39	.....	26	19	78	(2)	60	(2)	(2)	22	31	26	39	64
.....	.....	.....	19	.....	.....	.....	.....	.....	.....	.....	.....	38	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62	66
70	.....	27	.....	78	.....	(2)	60	.....	22	35	28	47	67
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Data for less than 3 enterprises are shown with permission of the enterprises involved.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	[8] 61,664,000	61,188,480	61,188,480	61,188,480	61,188,480	61,188,480	61,188,480
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	61,829	64,826	55,153	50,206	45,502	35,837	25,530
Land in all farms....acres....	17,988,307	17,357,549	16,548,678	13,542,318	11,685,110	10,071,328	6,909,888
Farms irrigated:[1]							
Farms....number...	16,159	13,243	11,387	9,154	6,669	4,636	3,150
Increase or decrease (-) over preceding census....percent..	[2] 41.9	.....	24.4	37.3	43.9	47.2	.....
Proportion of all farms....percent..	26.1	20.4	20.6	18.2	14.7	12.9	12.3
Land in farms....acres....	8,730,104	(3)	6,306,825	(3)	(3)	(3)	(3)
Proportion of all farm land....percent..	48.5	(3)	38.1	(3)	(3)	(3)	(3)
Area irrigated....acres....	[4] 1,030,228	[5] 578,838	[6] 637,967	(7)	(7)	388,310	177,944
Increase or decrease (-) over preceding census....percent..	[2] 61.5	.....	.....	.....	.....	118.2	.....
Proportion of total land area of State....percent..	1.7	0.9	1.0	.....	.....	0.6	0.3
Proportion of all farm land....percent..	5.7	3.3	3.9	.....	.....	3.9	2.6
Value of irrigated farms (land and buildings)....dollars..	152,701,476	(3)	160,937,926	(3)	(3)	(3)	(3)
Average per farm....dollars..	9,449.93	(3)	14,133.48	(3)	(3)	(3)	(3)
Average per acre....dollars..	17.49	(3)	25.52	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8]....dollars..	15,346,736	(3)	10,981,075	(3)	(3)	(3)	(3)
Average per farm[8]....dollars..	949.73	(3)	964.35	(3)	(3)	(3)	(3)
Average per acre[8]....dollars..	1.76	(3)	1.74	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	5,884	(3)	4,066	4,710	3,745	(3)	(3)
Farms irrigated....number...	19,389	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated....acres....	1,049,176	(3)	898,713	986,162	686,129	(3)	(3)
Area existing works were capable of supplying with water....acres....	1,261,081	(3)	1,158,210	1,344,046	830,526	(3)	(3)
Area irrigable....acres....	1,441,417	(3)	1,478,128	[9] 1,925,987	[9] 2,527,208	(3)	(3)
Additional area existing works were capable of supplying with water....acres....	211,905	(3)	259,497	357,884	144,397	(3)	(3)
Additional irrigable area in enterprises not supplied with water....acres....	392,241	(3)	579,415	[9] 939,825	[9] 1,841,079	(3)	(3)
Investment in irrigation enterprises....dollars..	50,961,251	(3)	38,754,548	28,929,151	12,760,214	1,843,771	825,660
Increase or decrease (-) over preceding census....percent..	[2] 31.5	(3)	34.0	126.7	592.1	123.3	.....
Average per acre based on area works were capable of supplying with water....dollars..	40.41	(3)	33.46	21.52	15.36	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] 20.8	(3)	55.5	40.1	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	53,884,430	(3)	60,039,939	41,585,742	39,216,619	(3)	(3)
Average per acre based on irrigable area in enterprises....dollars..	37.38	(3)	40.62	[9] 21.59	[9] 15.52	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	1.25	(3)	1.41	1.19	0.75	(3)	(3)

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 299,546 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [8] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	61,829	17,988,307	2,824,316	730,682	299,546	476,817,354	26.51	115,245,583	6.41	44,607,932	2.48
Owners and managers	50,552	15,548,863	2,273,134	612,191	264,849	396,802,291	25.52	99,425,228	6.39	37,196,120	2.39
Tenants	11,277	2,439,444	551,182	118,491	34,697	80,015,063	32.80	15,820,355	6.49	7,411,812	3.04
Irrigated farms, total	16,159	8,730,104	989,378	730,682	299,546	152,701,476	17.49	33,570,300	3.85	15,346,736	1.76
Owners and managers	13,345	7,968,948	836,900	612,191	264,849	131,641,303	16.52	29,582,709	3.71	13,280,611	1.67
Tenants	2,814	761,156	152,478	118,491	34,697	21,060,173	27.67	3,987,591	5.24	2,066,125	2.71
Wholly irrigated farms	10,551	4,332,604	588,183	588,183	228,577	85,468,774	19.73	19,223,279	4.44	8,763,433	2.02
Owners and managers	8,667	3,894,331	488,447	488,447	203,338	72,839,962	18.70	16,861,881	4.33	7,540,262	1.94
Tenants	1,884	438,273	99,736	99,736	25,239	12,628,812	28.81	2,361,398	5.39	1,223,171	2.79
Partly irrigated farms	5,608	4,397,500	401,195	142,499	70,969	67,232,702	15.29	14,347,021	3.26	6,583,303	1.50
Owners and managers	4,678	4,074,617	348,453	123,744	61,511	58,801,341	14.43	12,720,828	3.12	5,740,349	1.41
Tenants	930	322,883	52,742	18,755	9,458	8,431,361	26.11	1,626,193	5.04	842,954	2.61
Nonirrigated farms, total	45,670	9,258,203	1,834,938	.....	.....	324,115,878	35.01	81,675,283	8.82	29,261,196	3.16

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	5,884	1,441,417	1,261,081	1,049,176	898,713	986,162	16.7	925,920	983,423	892,684	3.5	1.45	0.42
Primary sources:													
Streams, gravity	3,172	1,090,191	927,233	786,059	674,396	786,354	16.6	696,432	733,371	669,621	3.1	0.99	0.31
Streams, pumped	976	64,245	59,955	45,008	50,537	64,576	-10.9	43,967	43,438	42,580	2.5	4.86	1.96
Streams, gravity and pumped	63	174,763	166,279	132,382	14,686	253	804.5	113,411	132,038	113,107	4.8	1.99	0.41
Wells, pumped	621	12,315	11,805	8,173	3,804	1,993	114.9	8,081	7,891	7,819	2.1	6.38	3.10
Wells, flowing	8	253	209	155	87	72	78.2	124	115	114	2.9	0.32	0.11
Wells, pumped and flowing	.....	.....	.....	.....	.....	340	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	21	7,071	6,541	5,254	10,490	5,750	-50.7	4,666	4,929	4,491	2.2	0.77	0.35
Lakes, pumped	42	4,434	4,373	3,298	6,092	1,620	-45.9	3,298	3,208	3,208	1.2	1.73	1.45
Springs	500	19,938	19,453	15,274	6,973	9,584	119.0	11,386	13,585	10,295	2.2	0.83	0.38
Springs and streams	150	27,736	27,381	20,773	.....	.....	.....	15,305	15,234	14,293	2.7	0.32	0.12
Stored storm water	14	2,141	1,691	1,014	1,501	3,763	-32.4	1,014	872	872	1.5	0.41	0.27
City water	12	126	126	73	4	258	(2)	48	46	45	2.7	13.24	4.89
Sewage	.....	.....	.....	.....	35	10	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	37	7,308	6,100	4,416	994	105	344.3	3,427	4,416	3,427	1.9	2.30	1.19
Streams, gravity; wells, flowing	10	6,973	6,679	6,585	2,328	200	182.9	6,585	6,585	6,585	1.4	0.19	0.14
Streams, pumped; wells, pumped	38	1,588	1,468	1,043	.....	.....	.....	1,043	1,003	1,003	2.9	5.43	1.88
Waste water, seepage or drainage	64	2,721	2,526	2,283	.....	.....	.....	2,210	2,033	2,033	2.6	2.00	0.77
Other mixed	60	19,614	19,262	17,386	124,002	111,137	-86.0	14,903	14,659	13,191	3.3	1.72	0.52
Other and not reported	.....	.....	.....	.....	2,834	147	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	27	158,971	138,212	101,843	.....	.....	.....	79,950	94,536	79,915	2.2	0.89	0.41
Streams, pumped	11	2,453	2,453	2,424	7,887	.....	-69.5	363	2,404	343	1.6	2.57	1.62
Wells, pumped	58	906	893	703	612	.....	14.9	656	703	656	5.6	6.43	1.14
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Percent not shown when more than 1,000. [3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	50,961,251	100.0	40.41	38,754,548	100.0	33.46	6.95	982,940	1.25	863,685	1.41	-0.16	801,891	1.19
Primary sources:														
Streams, gravity	23,386,278	45.9	25.22	23,940,310	61.8	28.05	-2.83	732,888	0.72	645,238	0.90	-0.18	631,124	1.00
Streams, pumped	1,824,836	3.6	30.44	4,468,284	11.5	53.43	-22.99	43,438	4.14	50,014	5.72	-1.58	59,087	3.09
Streams, gravity and pumped	18,977,045	67.2	114.13	347,967	0.9	23.77	90.36	132,038	2.50	12,376	1.54	0.96	253	2.55
Wells, pumped	499,877	1.0	42.34	246,833	0.6	59.06	-16.72	7,891	6.42	3,711	10.72	-4.30	1,419	8.04
Wells, flowing	4,820	(3)	23.06	7,972	(3)	65.88	-42.82	115	0.36	87	0.63	-0.27	66	9.47
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	18.00
Lakes, gravity	58,615	0.1	8.96	245,802	0.6	13.52	-4.56	4,929	0.72	10,490	0.57	0.15	1,735	0.90
Lakes, pumped	59,040	0.1	13.50	185,600	0.5	17.92	-4.42	3,208	1.73	6,061	2.16	-0.43	457	2.52
Springs	523,473	1.0	26.91	89,648	0.2	7.95	18.96	13,585	0.69	6,543	1.00	-0.31	6,735	0.92
Springs and streams	169,632	0.3	6.20	.....	.....	.....	.....	15,234	0.31	.....	.....	.....	.....	.....
Stored storm water	21,565	(3)	12.75	39,785	0.1	16.07	-3.32	872	0.41	1,501	0.30	0.11	3,287	1.28
City water	5,485	(3)	43.53	50	(3)	7.50	36.03	46	13.35	4	7.50	5.85	252	23.89
Sewage	.....	.....	.....	10	(3)	0.28	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	183,680	0.4	30.11	32,292	0.1	27.89	2.22	4,416	2.48	994	5.58	-3.10	95	17.89
Streams, gravity; wells flowing	24,226	(3)	3.63	6,425	(3)	2.67	0.96	6,585	0.19	2,328	0.14	0.05	200	4.00
Streams, pumped; wells, pumped	38,168	0.1	26.00	.....	.....	.....	.....	1,003	5.43	.....	.....	.....	.....	.....
Waste water, seepage or drainage	32,362	0.1	12.81	.....	.....	.....	.....	2,033	2.00	.....	.....	.....	.....	.....
Other mixed	917,211	1.8	47.62	8,893,269	22.9	57.95	-10.33	14,659	1.57	123,586	1.94	-0.37	97,014	1.13
Other and not reported	.....	.....	.....	19,171	(3)	6.71	.....	.....	.....	752	1.80	.....	147	0.78
Supplemental sources:[4]														
Streams, gravity and/or storage	4,178,629	8.2	30.23	.....	.....	.....	.....	94,536	0.69	.....	.....	.....	.....	.....
Streams, pumped	15,062	(3)	6.14	229,690	0.6	20.74	-14.60	2,404	0.64	7,887	2.48	-1.84	.....	.....
Wells, pumped	41,247	0.1	46.19	1,460	(3)	2.38	43.81	703	6.73	612	0.29	6.44	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	1,049,176	104,970	898,713	986,162	16.7
Individual and partnership	543,612	16,363	450,841	590,626	20.6
Cooperative, incorporated	114,087	1,530	[2] 184,940	186,037	-14.5
Cooperative, unincorporated	44,087	2,035			
Irrigation district	204,271	.....	160,974	92,081	26.9
Commercial	7,123	.....	12,619	27,338	-43.6
Bureau of Reclamation[3] [4]	130,403	85,042	61,829	54,981	110.9
Office of Indian Affairs[3]	5,168	.....	4,135	4,000	25.0
State	.....	.....	325	.....	.....
City and/or sewage	425	.....	.....	330	-98.2
Other		.....	23,050	30,769	
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	1,261,081	141,558	1,158,210	1,344,046	8.9
Individual and partnership	650,375	17,206	539,903	689,723	20.5
Cooperative, incorporated	125,416	4,584	[2] 222,189	236,171	-21.6
Cooperative, unincorporated	48,829	2,035			
Irrigation district	233,836	.....	240,019	198,540	-2.6

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	16,988	.....	21,517	67,163	-21.0
Bureau of Reclamation[3] [4]	175,171	117,733	85,612	76,525	104.6
Office of Indian Affairs[3]	9,822	.....	13,345	7,600	-26.4
State	.....	.....	325	300	.....
City and/or sewage	644	.....	.....	340	-98.2
Other		.....	35,300	67,684	
IRRIGABLE AREA[5]					
Total	1,441,417	162,330	1,478,128	1,925,987	-2.5
Individual and partnership	675,595	17,244	624,617	828,471	8.2
Cooperative, incorporated	128,874	4,584	[2] 288,948	329,241	-38.0
Cooperative, unincorporated	50,133	2,035			
Irrigation district	271,897	.....	279,576	271,172	-2.7
Commercial	84,988	.....	29,567	150,289	187.4
Bureau of Reclamation[3] [4]	178,418	138,467	182,950	171,444	-2.5
Office of Indian Affairs[3]	50,868	.....	15,345	9,600	231.5
State	.....	.....	325	300	.....
City and/or sewage	644	.....	.....	390	-98.9
Other		.....	56,800	165,080	

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Includes 1 Carey Act enterprise. [3] U. S. Dept. of the Interior. [4] For 1920 relates to total area. Irrigable area for that year was not reported. [5] For explanation of areas, see text, p. 479.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total ✓	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area ✓	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
Total	*Number* 5,884	*Number* 327	*Acres* 1,441,417	*Acres* 1,261,081	*Dollars* 36.61	*Dollars* 1.18	*Dollars* 29.91	*Dollars* 0.73	*Number* 19,389	*Acres* 1,049,176	*Acres* 790,925	*Acres* 13,781	*Acres* 244,470
Individual and partnership	5,616	94	675,595	650,375	8.10	0.72	9.86	0.41	6,762	543,612	367,743	4,338	171,531
Cooperative, incorporated	102	94	128,874	125,416	32.56	0.76	4.58	0.20	2,596	114,087	93,411	375	20,301
Cooperative, unincorporated	90	68	50,133	48,829	9.72	0.36	4.42	0.24	817	44,087	33,907	.....	10,180
Irrigation district	39	38	271,897	233,836	53.90	1.98	.....	.....	6,206	204,271	177,757	2,299	24,215
Commercial	7	7	84,988	16,988	23.46	2.68	.....	.....	280	7,123	6,428	.....	695
U. S. Bureau of Reclamation*	19	19	178,418	175,171	131.12	2.13	34.27	0.82	2,598	130,403	108,039	6,739	15,625
U. S. Office of Indian Affairs	7	5	50,868	9,822	35.36	1.52	.....	.....	113	5,168	3,215	30	1,923
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	2	2	644	644	34.69	7.13	.....	.....	17	425	425	.....	.....
Other	2	.....					.....	.....					.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. * For explanation of areas and investment, see text, p. 479.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	*Dollars* 50,961,251	*Dollars* 46,726,313	*Dollars* 4,234,938	*Dollars* 50,399,668	*Dollars* 561,583	*Dollars* 38,754,548	*Dollars* 28,929,151	*Percent* 31.5	*Dollars* 37.05	*Dollars* 29.92	*Dollars* 296,948	*Dollars* 2,923,179
Individual and partnership	5,592,899	5,422,518	170,381	5,437,542	155,357	4,871,362	6,584,382	14.8	8.34	9.90	259	273,913
Cooperative, incorporated	4,242,235	4,221,235	21,000	4,104,837	137,398	[2] 6,286,247	3,143,698	-24.7	33.66	4.58	11,358	265,200
Cooperative, unincorporated	490,755	481,755	9,000	483,608	7,147				9.87	4.42	955	2,290
Irrigation district	12,821,775	12,821,775	.....	12,602,599	219,176	13,983,818	6,313,753	-8.3	54.83	.....	113,746	297,905
Commercial	441,013	441,013	.....	398,513	42,500	1,606,957	3,281,034	-72.6	25.96	.....	1,044	51,000
U. S. Bureau of Reclamation*	27,002,875	22,968,318	4,034,557	27,002,875	.....	11,408,297	5,956,950	136.7	131.12	34.27	154,588	396,371
U. S. Office of Indian Affairs	347,360	347,360	.....	347,355	5	257,317	230,038	35.0	35.37	.....	14,998	1,636,500
State	.....	.....	.....	.....	.....	9,550	10,107	.....	.....	.....	.....	.....
City and/or sewage	22,339	22,339	.....	22,339	.....	.....	171,068	-93.3	34.69	.....	.....	.....
Other			.....		.....	331,000	3,232,121			.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Includes 1 Carey Act enterprise. * For explanation of investment, see text, p. 479.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING					ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area					Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 73	*Acres* 599,008	*Acres* 429,854	*Dollars* 14,329,768	*Dollars* 36.06	*Dollars* 33.43	*Number* 13	*Dollars* 1,800,973	*Dollars* 1,588,681	*Dollars* 22.64	*Acres* 686,561	*Dollars* 994,245	*Dollars* 929,550
Partnership	1	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	49,982	13,612	4,316
Cooperative, incorporated	22	67,212	64,524	447,164	7.15	6.93	3	3,930	5,366	0.44	123,808	101,654	89,498
Cooperative, unincorporated	2	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	35,592	12,531	2,069
Irrigation district	31	249,996	212,606	4,955,383	23.73	23.31	6	1,673,643	1,470,609	36.18	226,034	612,883	661,319
Commercial	3	81,000	14,000	146,724	22.23	10.48	1				[7] 7,944	[7] 19,384	[7] 10,490
Bureau of Reclamation[8] [9]	9	151,883	128,389	[9] 8,449,199	83.85	73.75	3	[9] 123,400	[9] 112,706	5.09	240,334	231,347	160,109
Office of Indian Affairs[8]	5	46,354	7,772	[10] 328,128	100.69	42.22	.....	.....	.....	.....	2,867	2,834	1,749
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	([7])	([7])	([7])
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $34.82. [4] Based on primary enterprises only; State average for supplemental enterprises is $31.72. [5] Based on primary enterprises only; no supplemental enterprises reported arrearage. [6] Data are included only in State total because less than 3 enterprises reported in the 1940 Census. [7] Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census. [8] U. S. Dept. of the Interior. [9] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [10] Represents construction costs of irrigation works less cancellations and repayments. *For explanation of areas and investment, see text, p. 479.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre				
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 982,940	*Dollars* 1,157,018	*Acres* 97,643	*Dollars* 71,049	*Dollars* 1.18	*Dollars* 0.73	*Number* 185	*Dollars* 621,247	*Number* 1,094
Individual and partnership	488,921	352,611	16,286	6,738	0.72	0.41	33	6,199	58
Cooperative, incorporated	113,605	86,692	1,530	303	0.76	0.20	70	42,262	162
Cooperative, unincorporated	36,604	13,106	2,035	482	0.36	0.24	23	3,225	51
Irrigation district	202,971	402,571	.....	.....	1.98	.....	35	281,315	531
Commercial	7,123	19,096	.....	.....	2.68	.....	7	13,861	36
U. S. Bureau of Reclamation*	130,403	277,250	77,792	63,526	2.13	0.82	15	262,501	236
U. S. Office of Indian Affairs	3,198	4,872	.....	.....	1.52	.....	[2] 2	11,884	20
State	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	115	820	.....	.....	7.13	.....	.....	.....	.....
Other			.....	.....		.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for less than 3 enterprises shown with permission of the enterprises involved. *For explanation of areas and investment, see text, p. 479.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 5,097	*Number* 247	*Sec.-ft.* 37,290	*Miles* 8,222	*Miles* 296.0	257	*Ac.-ft.* 2,212,315	*Miles* 665.2	76	*G.p.m.* 3,396	901	*G.p.m.* 209,289	2,275	*Hp.* 29,527	2,265	*G.p.m.* 1,510,958
Individual and partnership	4,802	203	19,151	3,968	79.9	214	93,338	514.6	76	3,396	896	206,439	2,193	17,167	2,183	1,002,592
Cooperative, incorporated	97	15	4,956	732	19.0	13	124,355	13.4	.....	.....	.....	.....	13	1,730	13	117,385
Cooperative, unincorporated	91	3	1,211	264	8.5	3	4,635	1.8	.....	.....	1	60	6	115	6	9,570
Irrigation district	76	14	6,008	2,048	51.9	15	236,887	42.8	.....	.....	.....	.....	40	5,213	40	210,075
Commercial	5	1	248	117	1.6	1	400	3.5	.....	.....	2	1,600	[3] 2	100	2	1,600
Bureau of Reclamation[3]	10	9	5,382	1,010	134.0	9	1,748,300	77.7	.....	.....	.....	.....	16	5,090	16	165,006
Office of Indian Affairs[3]	12	2	327	80	1.1	2	4,400	0.8	.....	.....	1	800	3	70	3	4,230
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	4	.....	7	3	.....	.....	.....	10.6	.....	.....	1	390	2	42	2	500
Other																

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	5,097	247	3,806	167	Earth and rock	2,220	156	.....	61
					Other and mixed	[1] 1,266	29	[1] 2,754	73
Concrete or masonry	663	33	422	24	Not reported	71	6	101	9
Timber	877	23	529	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	2,265	100.0	1,510,958	100.0	27
Electric motor	**1,179**	**52.1**	**858,647**	**56.8**	**32**
Centrifugal	932	41.2	757,885	50.2	23
Turbine	103	4.6	88,024	5.8	64
Plunger	116	5.1	6,059	0.4	72
Other	28	1.2	6,679	0.4	39
Internal-combustion engine	**968**	**42.7**	**480,152**	**31.8**	**20**
Centrifugal	822	36.3	411,768	27.3	17
Turbine	53	2.3	36,563	2.4	46
Plunger	63	2.8	7,077	0.5	38
Other	30	1.3	24,744	1.6	17
Other kinds of motive power	**27**	**1.2**	**24,247**	**1.6**	**47**
Centrifugal	9	0.4	16,660	1.1	27
Turbine	3	0.1	7,382	0.5	71
Plunger	13	0.6	164	[1]	55
Other	2	0.1	41	[1]	52
Mixed kinds of motive power	**91**	**4.0**	**147,912**	**9.8**	**25**
Centrifugal	69	3.0	106,038	7.0	23
Turbine	6	0.3	10,360	0.7	20
Plunger	9	0.4	589	[1]	35
Other	7	0.3	30,925	2.0	29
Total, 1930	1,157	.....	1,022,213	.....	27
Increase or decrease (-) 1930-1940	1,108	.....	488,745	.....	.....

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	2,275	100.0	29,527	100.0
Centrifugal pump	**1,775**	**78.0**	**24,807**	**84.0**
Electric	929	40.8	14,642	49.5
Internal-combustion	832	36.6	7,787	26.4
Other	14	0.6	2,378	8.1
Turbine pump	**145**	**6.4**	**2,340**	**7.9**
Electric	92	4.1	1,345	4.5
Internal-combustion	51	2.2	964	3.3
Other	2	0.1	31	0.1
Plunger pump	**180**	**7.9**	**533**	**1.8**
Electric	108	4.8	267	0.9
Internal-combustion	58	2.5	248	0.8
Other	[2] 14	0.6	18	0.1
Other and mixed types of pumps	**175**	**7.7**	**1,847**	**6.3**
Electric	92	4.1	826	2.8
Internal-combustion	58	2.5	618	2.1
Other	[2] 25	1.1	403	1.4
Total, 1930	[3] 1,091	.....	21,257	.....
Increase or decrease (-) 1930-1940	1,184	.....	8,270	.....

[1] Less than one-tenth of 1 percent. [2] Includes a portion of 30 water wheels for which no horsepower was reported. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	665.2	[3] 225.3	195.3
Concrete:			
1 to 12 inches	61.8	30.6	102.0
13 to 24 inches	26.9	30.9	16.5
Over 24 inches	9.1		
Metal:			
1 to 12 inches	438.5	72.9	501.5
13 to 24 inches	33.1	7.8	550.0
Over 24 inches	17.6		

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Wood-stave:			
1 to 12 inches	36.3	41.0	-11.5
13 to 24 inches	19.4	27.4	14.6
Over 24 inches	12.0		
Clay and other:			
1 to 12 inches	5.8	0.9	544.4
13 to 24 inches	0.1	.....	.....
Over 24 inches	4.6		

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 2.0 miles wood pipe lines not segregated by size; 5.2 miles 1 to 12 inches and 6.6 miles 13 to 30 inches in diameter, pipe lines not segregated by material.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	274	182	176
Area irrigable in these enterprises.....acres...	338,991	436,425	[1] 347,750
Area irrigated in these enterprises.....acres...	265,771	[2]	[2]
Area for which drains have been installed..acres...	126,698	230,413	93,799
Additional area needing drainage.....acres...	18,786	94,866	46,115

ITEM	1940	1930	1920
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage...percent..	47.7	[3] 52.8	[1] 27.0
(b) All irrigation enterprises.....percent..	12.1	25.6	9.5
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	42.9	74.5	[1] 40.2
(b) Irrigated area reporting.....percent..	54.7	[2]	[2]

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,595,022	1,715,553	2,237,727	1,999,155	1,111,684	1,016,713	595,867	603,869	1,221,014
Area irrigated by these enterprises.....acres.....	493,654	360,007	498,843	380,214	212,678	212,100	113,440	147,329	286,743
Average water per acre irrigated.....acre-feet..	5.3	4.8	4.5	5.3	5.2	4.8	5.3	4.1	4.3
Total water delivered to irrigators.....acre-feet..	2,992,612	572,347	458,880	1,166,420	526,439	159,035	1,826,192	45,908	299,845
Area irrigated by these enterprises.....acres.....	912,102	186,198	206,448	279,585	166,215	109,326	632,517	19,983	97,122
Average water per acre irrigated.....acre-feet..	3.3	3.1	2.2	4.2	3.2	1.5	2.9	2.3	3.1
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	27,994	.....	.....	87	.....	.....	27,907	.....	.....
Area irrigated by these enterprises.....acres.....	13,618	.....	.....	214	.....	.....	13,604	.....	.....
Average water per acre irrigated.....acre-feet..	2.0	.....	.....	0.4	.....	.....	2.1	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	25,412	.....	.....	22,840	.....	.....	2,572	.....	.....
Area irrigated by these enterprises.....acres.....	20,581	.....	.....	17,776	.....	.....	2,805	.....	.....
Average water per acre irrigated.....acre-feet..	1.2	.....	.....	1.3	.....	.....	0.9	.....	.....
Total water delivered to irrigators.....acre-feet..	172,481	.....	.....	1,071	.....	.....	171,410	.....	.....
Area irrigated by these enterprises.....acres.....	80,313	.....	.....	1,530	.....	.....	78,783	.....	.....
Average water per acre irrigated.....acre-feet..	2.1	.....	.....	0.7	.....	.....	2.2	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	3,701	.....	.....	.....	.....	.....	3,701	.....	.....
Area irrigated by these enterprises.....acres.....	656	.....	.....	.....	.....	.....	656	.....	.....
Average water per acre irrigated.....acre-feet..	5.6	.....	.....	.....	.....	.....	5.6	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated						
	Primary enterprises	Proportion of total	Supplemental enterprises[1]	Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	1,049,176	100.0	104,970	898,713	100.0	986,162	100.0
Appropriation[2]	594,555	56.7	51,664	355,657	39.6	647,623	65.7
Riparian	47,628	4.5	32	92,546	10.3	14,277	1.5
Appropriation and riparian	68,965	6.6	39,271	.....	.....	.....	.....
Underground	7,468	0.7	703	3,963	0.4	3,235	0.3
Appropriation and underground	8,418	0.8	.....	.....	.....	.....	.....
Riparian and underground	2,948	0.3	.....	.....	.....	.....	.....
Adjudicated by court	303,378	28.9	13,116	399,451	44.4	293,913	29.8
Other mixed and not reported	15,816	1.5	184	47,096	5.3	27,114	2.7

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 130,403 acres irrigated in 1939 with a primary water supply within the Vale and Umatilla Projects and the areas located within Oregon of the Klamath, Owyhee, and Boise Projects, and their statistics are not duplicated under any other type of enterprise. Areas totalling 85,042 acres irrigated in Oregon in 1939 with a supplemental water supply from works constructed by the Bureau of Reclamation are served by the Burnt River, Baker, Stanfield, Klamath, Umatilla, and McKay Reservoir Projects. These lands are also reported as receiving a primary water supply through other types of enterprises, mostly irrigation districts.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates to the above enterprises and reflects construction costs by the Bureau of Reclamation together with additional costs incurred by certain non-Federal irrigation enterprises now receiving a primary water supply from facilities constructed by the Bureau of Reclamation.

Data on the Deschutes Project in North Central Oregon, under construction by the Bureau of Reclamation in 1939, were not included in the 1940 Census of Irrigation.

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STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY, BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	5,788	84	5,019	373	230	58	23	1
2	Irrigated farms, 1939.....number...	19,389	.....	5,019	946	2,312	2,799	8,313	
3	Area irrigated, 1939.....acres....	1,049,176	.....	434,393	63,453	136,540	151,118	263,672	
4	(a) From which crops were harvested.....acres....	790,925	.....	277,927	48,378	110,802	126,139	227,679	
5	(b) On which crops failed.....acres....	13,781	.....	3,824	194	589	2,451	6,723	
6	(c) Irrigated pasture.....acres....	244,470	.....	152,642	14,881	25,149	22,528	29,270	
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	46,726,313	85,337	4,179,057	663,966	3,580,789	7,900,963	30,316,201	
8	(a) Cost of irrigation works and equipment.....dollars..	46,165,446	83,150	4,037,054	653,362	3,470,725	7,680,682	30,240,473	
9	(b) Investment in water rights.....dollars..	560,867	2,187	142,003	10,604	110,064	220,281	75,728	
10	Area works were capable of supplying with water.....acres....	1,261,081	5,947	520,372	75,465	164,903	173,186	321,208	
11	Average investment per acre irrigated.....dollars..	44.54	.....	9.62	10.46	26.23	52.28	114.98	
12	Average investment per acre which the works could supply with water..dollars..	37.05	14.35	8.03	8.80	21.71	45.62	94.38	
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	5,178	44	4,514	346	194	56	23	1
14	(a) Area irrigated in these enterprises.....acres....	982,940	.....	404,592	59,237	116,906	138,529	263,676	
15	(b) Cost of maintenance and operation.....dollars..	1,157,018	571	309,924	40,958	57,677	202,619	545,269	
16	(c) Average cost per irrigated acre reporting.....dollars..	1.18	.....	0.77	0.69	0.49	1.46	2.07	
17	Total annual charges[2].....dollars..	921,724	.....	.....	.....	69,997	252,116	599,611	
18	Average charge per irrigated acre reporting.....dollars..	1.73	.....	.....	.....	0.60	1.67	2.27	
19	Area against which charges were assessed.....acres....	587,585	.....	.....	.....	126,976	150,224	310,385	
20	Average annual charge per acre assessed.....dollars..	1.57	.....	.....	.....	0.55	1.68	1.93	
21	Total charges collected[2].....dollars..	920,583	.....	.....	.....	42,645	220,427	657,511	
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3].....number...	71	.....	.....	.....	19	33	18	1
23	(a) Area irrigated in these enterprises.....acres....	334,717	.....	.....	.....	18,287	108,589	207,841	
24	(b) Indebtedness.....dollars..	13,560,102	.....	.....	.....	490,495	1,872,052	11,197,555	
25	(c) Average indebtedness per acre irrigated.....dollars..	40.51	.....	.....	.....	26.82	17.24	53.88	
26	(d) Cost of irrigation works and equipment.....dollars..	25,623,399	.....	.....	.....	951,838	4,584,428	20,087,133	
27	(e) Investment in water rights.....dollars..	292,940	.....	.....	.....	6,645	210,567	75,728	
28	(f) Total investment.....dollars..	25,916,339	.....	.....	.....	958,483	4,794,995	20,162,861	
29	(g) Maintenance and operation.....dollars..	553,167	.....	.....	.....	11,743	157,916	383,508	
30	(h) Total annual charges[2].....dollars..	769,038	.....	.....	.....	22,393	211,043	535,602	
31	(i) Total charges collected[2].....dollars..	799,218	.....	.....	.....	19,548	184,140	595,530	
32	(j) Area against which annual charges were assessed.....acres....	374,937	.....	.....	.....	18,851	117,974	238,112	
33	(k) Average indebtedness per acre assessed.....dollars..	36.06	.....	.....	.....	23.93	15.87	47.03	
34	(l) Average charges per acre assessed.....dollars..	2.05	.....	.....	.....	1.19	1.79	2.25	
35	(m) Average charges per acre irrigated.....dollars..	2.31	.....	.....	.....	1.37	1.94	2.58	
36	Enterprises reporting arrearage[3].....number...	13	.....	.....	.....	3	5	5	.....
37	(a) Area assessed in these enterprises.....acres....	79,551	.....	.....	.....	3,030	37,778	38,743	.....
38	(b) Total arrearage.....dollars..	1,800,973	.....	.....	.....	195,952	64,128	1,540,893	.....
39	(c) Average arrearage per acre assessed.....dollars..	22.64	.....	.....	.....	64.67	1.70	39.77	.....
40	(d) Indebtedness.....dollars..	4,196,344	.....	.....	.....	366,500	242,679	3,587,165	.....
	TYPE, 1940								
41	Individual and partnership.....number...	5,529	83	5,006	351	86	3	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	188	.....	11	19	127	28	3	.....
43	Irrigation district.....number...	39	1	.....	1	7	15	14	1
44	Commercial.....number...	7	.....	.....	.....	3	4	.....	.....
45	U. S. Bureau of Reclamation.....number...	14	.....	.....	.....	2	6	6	.....
46	U. S. Office of Indian Affairs.....number...	7	.....	.....	2	3	2	.....	.....
47	All other.....number...	4	.....	2	.....	2	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	181	.....	.....	.....	104	53	23	1
49	Wages and salaries paid and payable for 1939.....dollars..	617,781	.....	.....	.....	26,463	122,823	468,495	
50	Persons employed during week ending April 29, 1939.....number...	1,086	.....	.....	.....	171	233	682	
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	3,172	46	2,552	302	212	44	16	.....
52	Streams, pumped.....number...	976	15	924	26	4	7	.....	.....
53	Wells, pumped.....number...	621	12	594	13	2	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	8	.....	8	.....	.....	.....	.....	.....
55	Lakes, gravity or pumped.....number...	63	2	57	4	.....	.....	.....	.....
56	Streams and springs; or springs.....number...	650	4	628	13	5	.....	.....	.....
57	Mixed, streams and wells.....number...	148	1	123	6	5	6	6	1
58	Other mixed or stored storm water.....number...	150	4	133	9	2	1	1	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	96	9	73	3	4	2	5	.....
2	Irrigated farms, 1939.....number...	1,262	.....	73	6	33	61	1,089	.....
3	Area irrigated, 1939.....acres....	104,970	.....	1,684	60	11,279		91,947	.....
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	4,234,938	11,728	48,811	1,350	304,592		3,868,457	.....
5	(a) Cost of irrigation works and equipment.....dollars..	4,234,222	11,650	48,223	1,350	304,592		3,868,407	.....
6	(b) Investment in water rights.....dollars..	716	78	588	.....	.....		50	.....
7	Area works were capable of supplying with water.....acres....	141,558	3,101	2,096	61	11,333		124,967	.....
8	Average investment per acre irrigated.....dollars..	40.34	.....	28.99	22.50	27.01		42.07	.....
9	Average investment per acre which the works could supply with water..dollars..	29.92	3.78	23.29	22.13	26.88		30.96	.....
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	86	4	69	3	4	1	5	.....
11	(a) Area irrigated in these enterprises.....acres....	97,643	.....	1,607	60	4,029		91,947	.....
12	(b) Cost of maintenance and operation.....dollars..	71,049	189	5,566	318	650		64,326	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	0.73	.....	3.46	5.30	0.16		0.70	.....
14	Total annual charges[2].....dollars..	72,521	180	.....	.....	625		71,716	.....
15	Average charge per irrigated acre reporting.....dollars..	0.76	.....	.....	.....	0.16		0.78	.....
16	Area against which charges were assessed.....acres....	98,976	3,000	.....	.....	4,029		91,947	.....
17	Average annual charge per acre assessed.....dollars..	0.73	0.06	.....	.....	0.16		0.78	.....
18	Total charges collected[2].....dollars..	8,967	.....	.....	.....	457		8,510	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
84	4,458	758	411	57	20	5,500	168	71	43	6	1
.....	5,129	1,592	2,963	3,581	6,124	7,387	1,327	1,575	6,559	2,541	2
.....	102,340	124,515	280,245	204,928	337,148	428,024	94,244	131,633	263,425	131,850	3
.....	76,993	97,177	214,506	153,051	249,198	311,907	71,105	83,463	206,952	118,398	4
.....	820	1,338	1,401	3,638	6,584	3,667	886	128	2,950	6,150	5
.....	24,527	26,000	64,338	48,239	81,366	112,450	22,253	48,042	54,423	7,302	6
85,337	2,357,882	1,075,619	5,165,244	9,952,510	28,089,721	3,255,493	1,248,882	2,724,250	18,238,630	21,259,058	7
83,150	2,316,855	1,045,881	5,077,676	9,650,913	27,990,971	3,186,152	1,214,339	2,622,037	17,883,860	21,259,058	8
2,187	41,027	29,738	87,568	301,597	98,750	69,341	34,543	102,213	354,770	.....	9
5,947	145,024	142,420	323,017	239,053	405,620	502,104	105,276	177,944	313,246	162,511	10
.....	23.04	8.64	18.43	48.57	83.32	7.61	13.25	20.70	69.24	161.24	11
14.35	16.26	7.55	15.99	41.63	69.25	6.48	11.86	15.31	58.22	130.82	12
44	3,985	697	380	53	19	4,908	155	67	42	6	13
.....	93,294	114,576	255,639	194,786	324,645	387,927	84,760	127,481	250,918	131,854	14
571	207,316	72,173	137,353	280,859	458,746	306,875	59,628	83,534	451,178	255,803	15
.....	2.22	0.63	0.54	1.44	1.41	0.79	0.70	0.66	1.80	1.94	16
.....	4,302	9,300	97,444	357,198	453,480	20,818	26,084	94,392	581,558	198,872	17
.....	2.75	0.78	0.87	2.23	1.84	0.35	0.58	1.36	2.57	1.51	18
.....	1,645	13,750	120,717	182,383	269,090	60,421	50,269	78,780	233,656	164,459	19
.....	2.62	0.68	0.81	1.96	1.69	0.34	0.52	1.20	2.49	1.21	20
.....	2,302	4,516	70,817	403,217	439,731	11,287	10,889	79,361	639,364	179,682	21
.....	2	1	28	29	11	9	5	23	29	5	22
.....	414		26,184	123,842	184,277	8,966	6,102	45,701	189,914	93,034	23
.....	8,600		1,046,267	5,058,986	7,446,249	12,435	20,559	447,372	7,000,975	6,078,761	24
.....	20.77		39.96	40.85	40.41	1.39	3.37	9.79	38.70	65.34	25
.....	14,500		1,742,120	8,139,422	15,727,357	30,027	52,332	1,074,225	12,709,077	11,757,738	26
.....	5,000		51,693	197,497	38,750	120	5,090	72,960	214,770	.....	27
.....	19,500		1,793,813	8,336,919	15,766,107	30,147	57,422	1,147,185	12,923,847	11,757,738	28
.....	850		36,123	229,536	286,658	4,080	3,571	50,878	371,449	123,189	29
.....	897		54,354	298,896	414,891	5,256	3,974	76,925	500,506	182,377	30
.....	245		48,728	351,000	399,245	3,461	3,940	68,661	559,968	163,188	31
.....	1,250		29,133	141,494	203,060	9,004	8,928	51,253	196,276	109,476	32
.....	6.88		34.56	35.75	36.67	1.38	0.87	8.21	35.67	55.53	33
.....	0.72		1.87	2.11	2.04	0.58	0.45	1.50	2.55	1.67	34
.....	2.17		2.24	2.41	2.25	0.59	0.68	1.75	2.77	1.96	35
.....	.....	.....	3	8	2	.....	1	4	7	[4]1	36
.....	.....	.....	3,030	76,521		.....	13,678		56,845	9,028	37
.....	.....	.....	195,952	1,605,021		.....	21,680		1,710,558	68,735	38
.....	.....	.....	64.67	20.97		.....	1.59		30.09	7.61	39
.....	.....	.....	366,590	3,829,844		.....	82,028		3,072,173	1,042,143	40
83	4,423	709	292	16	6	5,384	113	28	4	.....	41
.....	32	45	92	16	3	108	50	26	3	1	42
1	.....	.....	14	17	7	3	1	11	22	2	43
.....	.....	2	3	2	.....	1	1	3	2	.....	44
.....	.....	.....	4	6	4	.....	.....	.....	11	3	45
.....	1	.....	6	.....	.....	1	2	3	1	.....	46
.....	2	2	.....	.....	.....	3	1	.....	.....	.....	47
.....	10	29	88	41	13	56	42	37	40	6	48
.....	1,078	3,172	85,127	181,728	346,676	8,254	8,433	79,277	281,318	240,499	49
49	8	51	261	232	534	108	90	147	340	401	50
46	2,079	644	349	40	14	2,972	119	53	24	4	51
15	904	40	13	4	.....	947	20	6	3	.....	52
12	600	8	1	.....	.....	613	8	.....	.....	.....	53
.....	8	.....	.....	.....	.....	8	.....	.....	.....	.....	54
2	48	5	7	1	.....	59	1	3	.....	.....	55
4	599	25	19	3	.....	640	5	4	1	.....	56
1	99	24	11	7	6	121	9	3	13	2	57
4	121	12	11	2	.....	140	6	2	2	.....	58

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
9	73	3	4	2	5	86	4	.....	5	[4]1	1
.....	76	3	54	40	1,089	115	29	.....	890	228	2
.....	1,235	509	11,279		91,947	2,951	2,822	.....	89,358	9,839	3
11,728	48,636	1,525	304,592		3,868,457	51,389	33,500	.....	2,118,982	2,031,067	4
11,650	48,048	1,525	304,592		3,868,407	50,723	33,500	.....	2,118,932	2,031,067	5
78	588	.....	.....		50	666	.....	.....	50	.....	6
3,101	1,648	509	11,333		124,967	3,519	5,822	.....	118,118	14,099	7
.....	39.38	3.00	27.01		42.07	17.41	11.87	.....	23.71	206.43	8
3.78	29.51	3.00	26.88		30.96	14.60	5.75	.....	17.94	144.06	9
4	69	3	4	1	5	77	4	.....	4	[4]1	10
.....	1,158	509	4,029		91,947	2,874	2,822	.....	82,108	9,839	11
189	5,359	525	650		64,326	5,829	894	.....	52,520	11,806	12
.....	4.63	1.03	0.16		0.70	2.03	0.32	.....	0.64	1.20	13
180	.....	.....	625		71,716	91	714	.....	59,910	11,806	14
.....	.....	.....	0.16		0.78	0.07	0.25	.....	0.73	1.20	15
3,000	.....	.....	4,029		91,947	1,224	5,805	.....	82,108	9,839	16
0.06	.....	.....	0.16		0.78	0.07	0.12	.....	0.73	1.20	17
.....	.....	.....	457		8,510	.....	457	.....	8,510	.....	18

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for less than 3 enterprises shown with permission of the enterprise involved.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[2]...number...	[3] 2	.....	.....	.....	.....	[3] 1	[3] 1	.....
20	(a) Area irrigated in these enterprises...acres...	24,266	.....	.....	.....	.....	7,250	17,016	.....
21	(b) Indebtedness...dollars..	769,666	.....	.....	.....	.....	177,166	592,500	.....
22	(c) Average indebtedness per acre irrigated...dollars..	31.72	.....	.....	.....	.....	24.44	34.82	.....
23	(d) Cost of irrigation works and equipment...dollars..	881,592	.....	.....	.....	.....	281,592	600,000	.....
24	(e) Total investment...dollars..	881,592	.....	.....	.....	.....	281,592	600,000	.....
25	(f) Maintenance and operation...dollars..	2,796	.....	.....	.....	.....	.....	2,796	.....
26	(g) Total annual charges[4]...dollars..	10,186	.....	.....	.....	.....	.....	10,186	.....
27	(h) Total charges collected[4]...dollars..	8,510	.....	.....	.....	.....	.....	8,510	.....
28	(i) Area against which annual charges were assessed...acres...	17,016	.....	.....	.....	.....	.....	17,016	.....
29	(j) Average indebtedness per acre assessed...dollars..	34.82	.....	.....	.....	.....	.....	34.82	.....
30	(k) Average charges per acre assessed...dollars..	0.60	.....	.....	.....	.....	.....	0.60	.....
31	(l) Average charges per acre irrigated...dollars..	0.60	.....	.....	.....	.....	.....	0.60	.....
	TYPE, 1940								
32	Individual and partnership...number...	87	8	73	3	2	.....	1	.....
33	Cooperative (incorporated and unincorporated)...number...	4	1	.....	.....	2	1	.....	.....
34	U. S. Bureau of Reclamation...number...	5	.....	.....	.....	.....	1	4	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
35	Enterprises reporting pay roll...number...	4	1	.....	.....	.....	1	2	.....
36	Wages and salaries paid and payable for 1939...dollars..	3,466	(5)	.....	.....	.....	(5)	(5)	.....
37	Persons employed during week ending April 29, 1939...number...	8	.....	.....	.....	.....	(5)	(5)	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939								
38	Streams, pumped...number...	11	1	8	1	1	.....	.....	.....
39	Wells, pumped or flowing...number...	58	6	50	2	.....	.....	.....	.....
40	Streams, gravity or storage...number...	27	2	15	.....	3	2	5	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[3] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Columbia River Direct		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Astoria	Clatsop	10	72.76	-3.81	26.97	-2.89	34.90	+5.34	7.74	-3.78	3.15	-2.48	51.9	+0.7
Snake River														
Danner	Malheur	4,000	8.27	(2)	3.30	(2)	2.90	-0.30	0.97	-1.61	1.10	+0.40	47.6	+1.7
Harper	Malheur	2,156	5.25	-2.98	1.47	-0.98	2.04	-0.46	1.01	-1.41	0.73	-0.13	49.2	+1.0
Baker	Baker	3,445	6.21	-6.96	1.77	-1.89	1.49	-2.23	1.76	-2.22	1.19	-0.62	47.9	+2.6
Wallowa	Wallowa	2,935	11.18	-5.47	5.03	+0.09	3.05	-1.81	2.04	-2.33	1.06	-1.42	47.1	+2.0
Walla Walla River														
Milton	Umatilla	1,100	9.99	-4.29	2.58	-1.90	4.51	+0.09	2.28	-1.42	0.62	-1.06	54.4	+1.4
Umatilla River														
Echo	Umatilla	601	7.22	-2.80	2.06	-1.60	3.50	+0.26	0.77	-1.25	0.89	-0.21	55.3	+1.5
John Day River														
Prairie City	Grant	3,425	14.37	-0.88	4.50	-0.04	4.95	+0.19	3.68	-0.23	1.24	-0.80	50.7	+2.4
Ukiah	Umatilla	3,340	14.02	-3.92	5.13	-0.35	4.98	+0.13	3.21	-2.23	0.70	-1.47	45.0	+2.0
Deschutes River														
Bend	Deschutes	3,623	7.96	-4.95	2.27	-1.89	2.83	-1.67	2.03	-0.81	0.83	-0.58	49.8	+2.9
Antelope	Wasco	2,630	7.72	-3.19	3.08	-0.52	2.19	-1.11	1.71	-1.31	0.74	-0.25	50.1	+1.7
Hood River														
Parkdale	Hood River	1,740	29.90	-9.91	12.51	-4.60	14.37	-1.64	2.25	-2.33	0.77	-1.34	49.2	+2.2
Willamette River														
Oakridge	Lane	1,313	31.26	-7.36	11.33	-2.71	14.30	-0.58	4.19	-2.93	1.44	-1.14	54.6	+1.7
Corvallis	Benton	266	25.10	-15.17	10.51	-5.95	9.96	-6.09	2.63	-2.64	2.00	-0.49	54.9	+2.7
Detroit	Marion	1,450	62.37	-5.76	25.49	-1.20	29.10	+2.36	4.97	-5.44	2.81	-1.48	50.0	(3)
Hillsboro	Washington	203	26.26	(4)	11.04	(3)	11.20	-2.17	2.18	-2.71	1.84	-0.14	52.6	+0.7
Umpqua River														
Roseburg	Douglas	479	24.69	-8.22	8.80	-3.81	10.80	-2.28	3.21	-2.08	1.88	-0.05	55.6	+2.2
Rogue River														
Jacksonville	Jackson	1,640	18.70	-5.90	7.01	-2.68	7.15	-2.47	3.46	-0.38	1.08	-0.37	53.9	+1.2
Klamath River														
Sand Creek	Klamath	4,682	24.76	-0.04	10.63	+0.85	7.11	-3.40	2.83	-0.61	4.19	+3.12	42.2	+0.7
Klamath Falls	Klamath	4,100	9.02	-3.18	3.43	-1.19	3.58	-0.84	0.90	-1.18	1.11	+0.03	50.1	+2.2
Malheur Lake														
Harney Branch Experiment Station	Harney	4,139	5.59	-4.40	2.16	-0.90	2.23	-1.29	0.54	-1.91	0.66	-0.30	45.7	+1.7
Trout Creek														
Andrews (near)	Harney	4,100	5.74	-1.57	2.62	+0.50	1.75	-0.38	0.88	-1.28	0.49	-0.41	50.0	+1.0
Lake Albert														
Valley Falls	Lake	4,326	9.16	-2.55	3.16	+0.01	2.52	-1.38	2.45	-0.80	1.03	-0.38	48.1	+0.9
Silver Lake														
Lake	Lake	4,200	5.69	-2.04	1.92	-0.05	1.25	-0.83	1.81	-0.48	0.71	-0.68	46.4	+1.8

[1] Departure from normal. [2] Data for November 1938 not available. [3] Data not available. [4] Data for October 1938 not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	.....	.....	.....	[3]1	[3]1	.....	.....	.....	[3]2	.....	19
.....	.....	.....	.....	7,250	17,016	.....	.....	.....	24,266	.....	20
.....	.....	.....	.....	177,166	592,500	.....	.....	.....	769,666	.....	21
.....	.....	.....	.....	22.44	34.82	.....	.....	.....	31.72	.....	22
.....	.....	.....	.....	281,592	600,000	.....	.....	.....	881,592	.....	23
.....	.....	.....	.....	281,592	600,000	.....	.....	.....	881,592	.....	24
.....	.....	.....	.....	.....	2,796	.....	.....	.....	2,796	.....	25
.....	.....	.....	.....	.....	10,186	.....	.....	.....	10,186	.....	26
.....	.....	.....	.....	.....	8,510	.....	.....	.....	8,510	.....	27
.....	.....	.....	.....	.....	17,016	.....	.....	.....	17,016	.....	28
.....	.....	.....	.....	.....	34.82	.....	.....	.....	34.82	.....	29
.....	.....	.....	.....	.....	0.60	.....	.....	.....	0.60	.....	30
.....	.....	.....	.....	.....	0.60	.....	.....	.....	0.60	.....	31
8	73	3	2	.....	1	85	1	.....	1	.....	32
1	.....	.....	2	1	.....	1	3	.....	.....	.....	33
.....	.....	.....	.....	1	4	.....	.....	.....	4	1	34
1	.....	.....	1	.....	2	1	1	.....	2	.....	35
[6]	.....	.....	[6]	.....	[6]	[6]	[6]	.....	[6]	.....	36
.....	.....	.....	[6]	.....	[6]	[6]	.....	.....	[6]	.....	37
1	8	1	.....	1	.....	10	1	.....	.....	.....	38
6	52	.....	.....	.....	.....	57	1	.....	.....	.....	39
2	13	2	4	1	5	19	2	.....	5	1	40

[4] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Data are included only in State total because less than 3 enterprises reported in the 1940 Census.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

The year 1939 as a whole for the State of Oregon was dry and warm; since State-wide records were begun in 1890 only 3 years have been warmer and 4 years drier, according to the U. S. Weather Bureau.

Precipitation.—The average annual precipitation for the calendar year at 179 stations was 20.77 inches, a departure of -5.33 inches from the normal. For the Western Division the annual average was 43.90 inches, a departure of -9.93 inches, and for the Eastern Division, 10.50 inches, a departure of -3.31 inches.

The average precipitation for the water year (October 1938 through September 1939) at 22 stations listed in State table 18 with complete records, and which are representative of the major drainage basins in Oregon, was 18.55 inches, a departure of -5.01 inches from the average normal precipitation at these stations. The average precipitation at the 16 stations located west of the Cascade Range was 10.86 inches, a departure of -3.70 inches, and for the 6 stations representative of the Pacific Slope the average precipitation was 33.94 inches, a departure of -7.70 inches from the water year normal for these stations.

The average snowfall for the year was: Western Division, 19.6 inches; Eastern Division, 45.3 inches; State, 33.7 inches. The average number of days with 0.01 inch, or more, was: Western Division, 135; Eastern Division, 67; State 97.

Temperature.—The average temperature was above normal in July, August, and September, with several periods of unusual warmth; new high temperature records were established at several eastern stations late in July and the maximum for the month was within 2° of the record for the State. The first half of July had frequent rains, but there was little after that till near the close of August. There was a shortage of water for irrigation and for livestock and pasturage became dry and short. Conditions were favorable for the rapid spread of forest fires.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER		
			Total	Direct (1)	Snake River Total
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms....1939...number....	19,389	12,726	117	5,577
2	Area irrigated....1939...acres....	1,049,176	622,684	1,801	362,501
3	(a) Cropland harvested....1939...acres....	790,925	518,295	1,147	293,374
4	(b) Crop failure....1939...acres....	13,781	11,661	18	6,778
5	(c) Pasture....1939...acres....	244,470	92,728	636	62,349
6	Area irrigated....1929...acres....	898,713	504,956	.....	288,928
7	1919...acres....	986,162	638,223	92	394,205
8	Increase or decrease (-), 1929-1939....percent....	16.7	23.3	.....	25.5
9	Irrigable area in enterprises....1940...acres....	1,441,417	873,078	2,153	463,934
10	1930...acres....	1,478,128	880,067	.....	514,972
11	1920[2]...acres....	1,925,987	1,145,451	223	628,588
12	Excess of irrigable area over the area irrigated..1940...acres....	392,241	250,394	352	101,433
13	1930...acres....	579,415	375,111	.....	226,044
14	1920[2]...acres....	939,825	507,228	131	234,383
15	Area works were capable of supplying with water...1940...acres....	1,261,081	745,507	2,056	434,254
16	1930...acres....	1,158,210	658,449	.....	370,026
17	1920...acres....	1,344,046	846,918	123	489,719
18	Increase or decrease (-), 1930-1940....percent....	8.9	13.2	.....	17.4
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	211,905	122,823	255	71,753
20	1930...acres....	259,497	153,493	.....	81,098
21	1920...acres....	357,884	208,695	91	95,514
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	83.2	83.5	87.6	83.5
23	1929...percent....	77.6	76.7	.....	78.1
24	1919...percent....	73.4	75.4	74.8	80.5
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises....1940...dollars....	50,961,251	37,565,199	106,703	24,982,561
26	(a) Cost of irrigation works and equipment....1940...dollars....	50,399,668	37,294,025	106,148	24,868,171
27	(b) Investment in water rights (reported)....1940...dollars....	561,583	271,174	555	114,390
28	Total investment in irrigation enterprises....1930...dollars....	38,754,548	23,937,566	.....	11,994,581
29	1920...dollars....	28,929,151	18,480,068	11,150	7,093,652
30	Increase or decrease (-), 1930-1940....percent....	31.5	56.9	.....	108.3
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	40.41	50.39	51.90	57.53
32	1930...dollars....	33.46	36.35	.....	32.42
33	1920...dollars....	21.52	21.82	90.65	14.49
34	Average investment per acre irrigated....1939...dollars....	48.57	60.33	59.25	68.92
35	Estimated final investment in existing enterprises..1940...dollars....	53,884,430	38,649,014	108,048	25,622,624
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	37.38	44.27	50.18	55.23
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises		Primary / Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	5,185 / 87	3,789 / 80	85	1,396 / 24
38	Area irrigated in these enterprises....1939...acres....	982,940 / 97,643	581,462 / 56,163	1,575	331,550 / 45,527
39	Cost of maintenance and operation....1939...dollars....	1,157,018 / 71,049	730,315 / 28,821	7,946	344,759 / 12,202
40	Average cost, per acre irrigated....1939...dollars....	1.18 / 0.73	1.26 / 0.51	5.05	1.04 / 0.27
41	Total annual charges (reported)[4 5]....1939...dollars....	921,724 / 72,521	519,291 / 30,855	2,689	174,240 / 19,049
42	Average annual charge per acre irrigated....1939...dollars....	1.77 / 0.76	1.41 / 0.56	9.81	0.77 / 0.42
43	Area against which charges were assessed....1939...acres....	587,585 / 98,976	427,320 / 57,694	274	260,130 / 47,855
44	Average annual charge per acre assessed....1939...dollars....	1.57 / 0.73	1.22 / 0.53	9.81	0.67 / 0.40
45	Total charges collected[4]....1939...dollars....	920,583 / 8,967	465,206 / 8,510	2,098	150,867 / 8,510
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	13,560,102 / 769,666	10,043,368 / 769,666	.....	5,913,415 / 769,666
	WATER DELIVERED TO IRRIGATORS, 1939				
47	Enterprises reporting water delivered....1939...number....	5,345 / 74	3,942 / 68	91	1,450 / 19
48	Area irrigated by these enterprises....1939...acres....	925,920 / 80,969	566,211 / 41,504	1,685	319,225 / 30,917
49	Water delivered....1939...acre-feet..	3,020,606 / 176,182	1,989,116 / 97,438	2,441	1,059,655 / 45,967
50	Average water delivered per acre irrigated....1939...acre-feet..	3.3 / 2.2	3.5 / 2.3	1.4	3.3 / 1.5
51	Average cost of water per acre irrigated....1939...dollars....	1.35 / 0.94	1.33 / 0.83	5.82	0.69 / 0.60
52	Average cost of water per acre-foot delivered..1939...dollars....	0.41 / 0.43	0.38 / 0.35	4.01	0.21 / 0.40
	DRAINAGE OF IRRIGATED LAND				
53	Enterprises reporting land drained or needing drainage....1939...number....	276 /	209 /	7	56 / .....
54	Irrigable area in these enterprises....1939...acres....	338,991 /	193,747 /	249	145,573 / .....
55	Irrigated area in these enterprises....1939...acres....	265,771 /	148,156 /	183	111,666 / .....
56	Area for which drains have been installed....1939...acres....	126,698 /	49,242 /	21	43,462 / .....
57	Additional area needing drainage....1939...acres....	18,786 /	10,391 /	154	6,106 / .....

[1] Data for 2 enterprises in Whitehorse Creek Drainage Basin (60) (number refers to separate map) included in State totals only. Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State total.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

COLUMBIA RIVER—Continued									
Snake River—Continued									
	Owyhee River				Malheur River				
	Total	Direct	Jordan Creek		Total	Direct	Bully Creek	Willow Creek	
Direct (2)		(3)	(5)			(6)	(7)	(8)	
877	1,056	964	92		1,066	965	37	64	1
38,160	67,273	57,017	10,256		74,262	65,213	3,848	5,201	2
30,364	57,040	49,486	7,554		61,836	54,105	3,343	4,388	3
460	3,405	1,542	1,863		1,975	1,384	338	253	4
7,336	6,828	5,989	839		10,451	9,724	167	560	5
31,814	18,165	.....	.....		32,122	.....	.....	.....	6
22,199	36,295	.....	.....		52,850	.....	.....	.....	7
19.9	270.3	.....	.....		131.2	.....	.....	.....	8
45,655	88,275	75,831	12,444		93,585	80.154	4,513	8,918	9
39,347	114,389	.....	.....		103,463	.....	.....	.....	10
31,925	78,311	.....	.....		117,688	.....	.....	.....	11
7,495	21,002	18,814	2,188		19,323	14,941	665	3,717	12
7,533	96,224	.....	.....		71,341	.....	.....	.....	13
9,726	42,016	.....	.....		64,838	.....	.....	.....	14
44,124	88,120	75,676	12,444		92,535	79,109	4,513	8,913	15
35,881	27,133	.....	.....		77,574	.....	.....	.....	16
25,469	42,093	.....	.....		79,618	.....	.....	.....	17
23.0	224.8	.....	.....		19.3	.....	.....	.....	18
5,964	20,847	18,659	2,188		18,273	13,896	665	3,712	19
4,067	8,968	.....	.....		45,452	.....	.....	.....	20
3,270	5,798	.....	.....		26,768	.....	.....	.....	21
86.5	76.3	75.3	82.4		80.3	82.4	85.3	58.4	22
88.7	66.9	.....	.....		41.4	.....	.....	.....	23
87.2	86.2	.....	.....		66.4	.....	.....	.....	24
2,348,898	10,843,102	10,387,682	455,420		8,905,106	8,016,813	29,660	858,633	25
2,344,355	10,842,088	10,386,763	455,325		8,807,181	8,008,888	29,660	768,633	26
4,543	1,014	919	95		97,925	7,925	.....	90,000	27
1,169,589	2,838,913	.....	.....		5,512,944	.....	.....	.....	28
909,478	1,154,185	.....	.....		2,027,683	.....	.....	.....	29
100.8	281.9	.....	.....		61.5	.....	.....	.....	30
53.23	123.05	137.27	36.60		96.24	101.34	6.57	96.33	31
32.60	104.63	.....	.....		71.07	.....	.....	.....	32
35.71	27.42	.....	.....		25.47	.....	.....	.....	33
61.55	161.18	182.19	44.41		119.91	122.93	7.71	165.09	34
2,397,033	11,086,657	10,631,237	455,420		9,197,076	8,058,763	29,660	1,108,653	35
52.50	125.59	140.20	36.60		98.28	100.54	6.57	124.32	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.		
268	3	52	5	40	5	12	179	1	107	33	1	39	37
36,920	1,669	64,069	11,769	56,275	11,769	7,794	72,999	(3)	64,113	3,848	(3)	5,038	38
56,237	138	153,294	8,125	138,696	8,125	14,598	71,485	(3)	65,214	974	(3)	5,297	39
1.52	0.08	2.39	0.69	2.46	0.69	1.87	0.98	(3)	1.02	0.25	(3)	1.05	40
36,199	123	46,684	7,715	32,067	7,715	14,617	46,952	.....	43,732	.....	.....	3,220	41
1.81	0.08	0.82	0.66	0.63	0.66	2.27	0.94	.....	0.91	.....	.....	1.89	42
23,424	1,530	72,436	11,690	65,659	11,690	6,777	60,397	.....	57,597	.....	.....	2,800	43
1.55	0.08	0.64	0.66	0.49	0.66	2.16	0.78	.....	0.76	.....	.....	1.15	44
38,354	.....	44,933	.....	31,966	.....	12,967	37,739	.....	34,531	.....	.....	3,208	45
120,792	.....	739,000	.....	309,000	.....	430,000	4,949,246	.....	4,949,246	.....	.....	.....	46
283	3	60	3	47	3	13	176	1	105	32	1	39	47
36,614	1,669	61,119	11,743	57,017	11,743	4,102	73,056	(3)	64,113	3,744	(3)	5,199	48
135,962	1,533	292,976	21,210	285,399	21,210	7,637	250,123	(3)	236,339	4,208	(3)	9,576	49
3.7	0.9	4.8	1.8	5.0	1.8	1.9	3.4	(3)	3.7	1.1	(3)	1.8	50
1.68	0.08	0.64	0.68	0.64	0.68	0.46	0.76	(3)	0.76	0.24	(3)	1.15	51
0.45	0.09	0.13	0.38	0.13	0.38	0.25	0.22	(3)	0.21	0.21	(3)	0.62	52
36	.....	3	.....	3	.....	.....	7	.....	6	.....	.....	1	53
18,647	.....	68,073	.....	68,073	.....	.....	56,654	.....	56,554	.....	.....	(3)	54
14,857	.....	50,632	.....	50,632	.....	.....	44,089	.....	44,049	.....	.....	(3)	55
8,011	.....	14,787	.....	14,787	.....	.....	20,603	.....	20,593	.....	.....	(3)	56
1,318	.....	2,470	.....	2,470	.....	.....	2,085	.....	2,085	.....	.....	.....	57

[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLUMBIA RIVER—Continued							
			Snake River—Continued						Grande Ronde River	
			Burnt River (9)		Powder River (10)		Imnaha River (11)		Total	
	IRRIGATED FARMS AND AREAS									
1	Irrigated farms	1939...number	215		1,001		73		1,289	
2	Area irrigated	1939...acres	23,475		93,161		1,469		64,701	
3	(a) Cropland harvested	1939...acres	20,490		72,901		1,273		49,470	
4	(b) Crop failure	1939...acres	113		818		.....		7	
5	(c) Pasture	1939...acres	2,872		19,442		196		15,224	
6	Area irrigated	1929...acres	18,519		104,089		6,838		57,635	
7		1919...acres	34,287		146,036		4,828		79,191	
8	Increase or decrease (-), 1929-1939	percent	26.8		-10.5		-78.5		12.2	
9	Irrigable area in enterprises	1940...acres	27,978		130,087		1,778		76,576	
10		1930...acres	40,686		120,742		8,528		65,227	
11		1920[1]...acres	54,467		188,463		10,146		98,774	
12	Excess of irrigable area over the area irrigated	1940...acres	4,503		36,926		309		11,875	
13		1930...acres	22,167		16,653		1,690		7,572	
14		1920[1]...acres	20,180		42,427		5,318		19,583	
15	Area works were capable of supplying with water	1940...acres	24,725		108,198		1,740		74,812	
16		1930...acres	20,076		116,492		8,190		63,174	
17		1920...acres	37,506		165,826		6,069		87,191	
18	Increase or decrease (-), 1930-1940	percent	23.2		-7.1		-78.8		18.4	
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	1,250		15,037		271		10,111	
20		1930...acres	1,557		12,403		1,352		5,519	
21		1920...acres	3,219		19,790		1,241		8,000	
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	94.9		86.1		84.4		86.5	
23		1929...percent	92.2		89.4		83.5		91.3	
24		1919...percent	91.4		88.1		79.6		90.8	
	CAPITAL INVESTED TO JANUARY 1									
25	Total investment in irrigation enterprises	1940...dollars	910,472		1,328,075		23,157		623,751	
26	(a) Cost of irrigation works and equipment	1940...dollars	908,122		1,323,546		22,672		620,207	
27	(b) Investment in water rights (reported)	1940...dollars	2,350		4,529		485		3,544	
28	Total investment in irrigation enterprises	1930...dollars	255,199		1,290,723		203,301		386,759	
29		1920...dollars	639,491		1,552,987		206,378		471,436	
30	Increase or decrease (-), 1930-1940	percent	256.8		2.9		-88.6		61.3	
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	36.82		12.27		13.31		8.34	
32		1930...dollars	12.71		11.08		24.82		6.12	
33		1920...dollars	17.05		9.37		34.01		5.41	
34	Average investment per acre irrigated	1939...dollars	38.78		14.26		15.76		9.64	
35	Estimated final investment in existing enterprises	1940...dollars	961,797		1,331,091		24,063		624,907	
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	34.38		10.23		13.53		8.16	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation	1939...number	83	[2] 1	348	6	62	1	404	7
38	Area irrigated in these enterprises	1939...acres	10,324	17,016	87,175	729	1,457	[3]	58,606	14,276
39	Cost of maintenance and operation	1939...dollars	4,351	2,796	33,265	125	1,378	[3]	24,749	1,003
40	Average cost, per acre irrigated	1939...dollars	0.42	0.16	0.38	0.17	0.95	[3]	0.42	0.07
41	Total annual charges (reported)[4] [5]	1939...dollars	1,019	10,186	21,954	45	.....	.....	21,432	980
42	Average annual charge per acre irrigated	1939...dollars	0.37	0.60	0.42	0.10	.....	.....	0.49	0.07
43	Area against which charges were assessed	1939...acres	2,760	17,016	52,583	464	.....	.....	48,530	17,155
44	Average annual charge per acre assessed	1939...dollars	0.37	0.60	0.42	0.10	.....	.....	0.44	0.06
45	Total charges collected[4]	1939...dollars	.....	8,510	13,648	.....	.....	.....	16,193	.....
46	Indebtedness to December 31 (reported)[5]	1939...dollars	.....	592,500	48,455	177,166	.....	.....	55,922	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered	1939...number	91	[2] 1	361	5	62	1	417	5
48	Area irrigated by these enterprises	1939...acres	10,832	17,016	79,032	297	1,469	[3]	57,103	124
49	Water delivered	1939...acre-feet	20,421	22,500	169,877	320	4,788	[3]	185,508	293
50	Average water delivered per acre irrigated	1939...acre-feet	1.9	1.3	2.1	1.1	3.3	[3]	3.2	2.4
51	Average cost of water per acre irrigated	1939...dollars	0.41	0.60	0.36	0.30	0.95	[3]	0.50	0.17
52	Average cost of water per acre-foot delivered	1939...dollars	0.22	0.45	0.17	0.28	0.29	[3]	0.15	0.07
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage	1939...number	.....	.....	1	.....	.....	.....	9	.....
54	Irrigable area in these enterprises	1939...acres	.....	.....	[3]	.....	.....	.....	2,195	.....
55	Irrigated area in these enterprises	1939...acres	.....	.....	[3]	.....	.....	.....	2,084	.....
56	Area for which drains have been installed	1939...acres	.....	.....	[3]	.....	.....	.....	57	.....
57	Additional area needing drainage	1939...acres	.....	.....	.....	.....	.....	.....	233	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data for less than 3 enterprises shown with permission of the enterprise involved.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued

Snake River—Continued			Walla Walla River	Umatilla River			
Grande Ronde River—Continued							
Direct	Wallowa River	Joseph Creek		Total	Direct	Birch Creek	Butter Creek
(12)	(13)	(14)	(15)		(16)	(17)	(18)	
560	701	28	848	907	817	55	35	1
17,483	46,196	1,022	15,765	37,016	30,476	2,559	3,981	2
15,422	33,294	754	13,277	28,563	23,457	2,369	2,737	3
7	.....	.....	34	4,277	3,883	.....	394	4
2,054	12,902	268	2,454	4,176	3,136	190	850	5
.....	.....	.....	11,123	35,795	.....	.....	.....	6
.....	.....	.....	17,514	43,571	.....	.....	.....	7
.....	.....	.....	41.7	3.4	.....	.....	.....	8
25,174	50,301	1,101	20,022	50,783	42,250	2,832	5,701	9
.....	.....	.....	14,359	57,038	.....	.....	.....	10
.....	.....	.....	18,457	99,012	.....	.....	.....	11
7,691	4,105	79	4,257	13,767	11,774	273	1,720	12
.....	.....	.....	3,236	21,243	.....	.....	.....	13
.....	.....	.....	943	55,441	.....	.....	.....	14
23,595	50,116	1,101	19,758	47,915	40,392	2,728	4,795	15
.....	.....	.....	11,526	48,284	.....	.....	.....	16
.....	.....	.....	17,780	83,341	.....	.....	.....	17
.....	.....	.....	71.4	-0.8	.....	.....	.....	18
6,112	3,920	79	3,993	10,899	9,916	169	814	19
.....	.....	.....	403	12,489	.....	.....	.....	20
.....	.....	.....	266	39,770	.....	.....	.....	21
74.1	92.2	92.8	79.8	77.3	75.5	93.8	83.0	22
.....	.....	.....	96.5	74.1	.....	.....	.....	23
.....	.....	.....	98.5	52.3	.....	.....	.....	24
150,152	466,458	7,141	350,857	5,705,027	5,652,710	23,447	28,870	25
148,906	464,371	6,930	334,320	5,651,105	5,599,210	23,095	28,800	26
1,246	2,087	211	16,537	53,922	53,500	352	70	27
.....	.....	.....	195,702	3,752,200	.....	.....	.....	28
.....	.....	.....	280,934	4,308,892	.....	.....	.....	29
.....	.....	.....	79.3	52.0	.....	.....	.....	30
6.36	9.31	6.49	17.76	119.07	139.95	8.59	6.02	31
.....	.....	.....	16.98	77.71	.....	.....	.....	32
.....	.....	.....	15.80	51.70	.....	.....	.....	33
8.59	10.10	6.99	22.26	154.12	185.48	9.16	7.25	34
150,691	467,075	7,141	354,537	5,733,304	5,679,387	23,447	30,470	35
5.99	9.29	6.49	17.71	112.90	134.42	8.28	5.34	36

Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises			
195	2	185	5	24	256	52	125	3	49	3	43	33	37
13,327	(3)	44,337	14,187	942	14,311	700	35,584	9,935	29,357	9,935	2,288	3,929	38
6,359	(3)	17,775	995	615	20,294	4,677	49,971	11,932	44,175	11,932	3,033	2,763	39
0.48	(3)	0.40	0.07	0.65	1.40	6.68	1.40	1.20	1.50	1.20	1.32	0.70	40
3,384	.....	18,032	980	16	8,806	.....	59,417	11,806	59,317	11,806	100	.....	41
0.38	.....	0.51	0.07	0.08	1.19	.....	2.20	1.20	2.21	1.20	0.58	.....	42
10,700	.....	37,630	17,155	200	7,442	.....	33,516	9,839	33,344	9,839	172	.....	43
0.32	.....	0.48	0.06	0.08	1.18	.....	1.77	1.20	1.78	1.20	0.58	.....	44
990	.....	15,203	.....	.....	9,093	.....	62,389	.....	62,389	.....	.....	.....	45
.....	.....	55,922	.....	.....	15,000	.....	1,892,002	.....	1,892,002	.....	.....	.....	46
208	3	186	2	23	263	45	143	3	64	3	45	34	47
16,141	92	39,940	(3)	1,022	11,339	651	36,906	9,935	30,366	9,935	2,559	3,981	48
32,853	167	149,804	(3)	2,851	76,043	3,688	208,320	47,782	189,472	47,782	8,675	10,173	49
2.0	1.8	3.8	(3)	2.8	6.7	5.7	5.6	4.8	6.2	4.8	3.4	2.6	50
0.45	0.09	0.52	(3)	0.61	1.30	6.39	1.93	1.20	2.14	1.20	1.32	0.70	51
0.22	0.05	0.14	(3)	0.22	0.19	1.13	0.34	0.25	0.34	0.25	0.39	0.28	52
3	.....	6	.....	.....	1	.....	5	.....	5	.....	.....	.....	53
511	.....	1,684	.....	.....	(3)	.....	33,608	.....	33,608	.....	.....	.....	54
501	.....	1,583	.....	.....	(3)	.....	23,656	.....	23,656	.....	.....	.....	55
47	.....	10	.....	.....	.....	.....	3,219	.....	3,219	.....	.....	.....	56
80	.....	153	.....	.....	(3)	.....	2,660	.....	2,660	.....	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued						
			John Day River			Deschutes River		
		Willow Creek (19)	Total	Direct (20)	Rock Creek (21)	Total	Direct (22)	Squaw Creek (23)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number	106	718	673	45	1,717	1,118	87
2	Area irrigated....1939...acres	4,337	43,736	42,319	1,417	104,087	59,559	7,680
3	(a) Cropland harvested....1939...acres	3,986	36,711	35,388	1,323	94,231	56,476	6,180
4	(b) Crop failure....1939...acres	.....	83	83	.....	388	43	288
5	(c) Pasture....1939...acres	351	6,942	6,848	94	9,468	3,040	1,212
6	Area irrigated....1929...acres	5,382	40,495	.....	.....	94,015	.....	.....
7	1919...acres	5,553	36,141	.....	.....	111,916	.....	.....
8	Increase or decrease (-), 1929-1939....percent	-19.4	8.0	.....	.....	10.7	.....	.....
9	Irrigable area in enterprises....1940...acres	4,996	49,839	47,973	1,866	130,224	75,871	11,456
10	1930...acres	6,265	45,211	.....	.....	181,445	.....	.....
11	1920[1]...acres	7,159	48,191	.....	.....	291,014	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	659	6,103	5,654	449	26,137	16,312	3,776
13	1930...acres	883	4,716	.....	.....	87,430	.....	.....
14	1920[1]...acres	1,606	12,050	.....	.....	179,098	.....	.....
15	Area works were capable of supplying with water...1940...acres	4,922	47,814	46,045	1,769	112,412	62,864	9,375
16	1930...acres	6,060	44,384	.....	.....	139,444	.....	.....
17	1920...acres	6,618	41,492	.....	.....	174,790	.....	.....
18	Increase or decrease (-), 1930-1940....percent	-18.8	7.7	.....	.....	-19.4	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	585	4,078	3,726	352	8,325	3,305	1,695
20	1930...acres	678	3,889	.....	.....	45,429	.....	.....
21	1920...acres	1,065	5,351	.....	.....	62,874	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	88.1	91.5	91.9	80.1	92.6	94.7	81.9
23	1929...percent	88.8	91.2	.....	.....	67.4	.....	.....
24	1919...percent	83.9	87.1	.....	.....	64.0	.....	.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars	51,042	433,991	407,133	26,858	3,743,928	2,732,828	193,682
26	(a) Cost of irrigation works and equipment....1940...dollars	50,690	424,301	397,740	26,561	3,732,239	2,732,786	193,650
27	(b) Investment in water rights (reported)....1940...dollars	352	9,690	9,393	297	11,689	42	32
28	Total investment in irrigation enterprises....1930...dollars	79,547	436,492	.....	.....	6,046,877	.....	.....
29	1920...dollars	60,139	510,248	.....	.....	5,078,636	.....	.....
30	Increase or decrease (-), 1930-1940....percent	-35.8	-0.6	.....	.....	-38.1	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	10.37	9.08	8.84	15.18	33.31	43.47	20.66
32	1930...dollars	13.13	9.83	.....	.....	43.36	.....	.....
33	1920...dollars	9.09	12.30	.....	.....	29.06	.....	.....
34	Average investment per acre irrigated....1939...dollars	11.77	9.92	9.62	18.95	35.97	45.88	25.22
35	Estimated final investment in existing enterprises..1940...dollars	53,417	456,596	427,538	29,058	3,853,513	2,816,163	193,682
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	10.69	9.16	8.91	15.57	29.59	37.12	16.91
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
37	Enterprises reporting maintenance and operation...1939...number	74	555	523	32	235	67	9
38	Area irrigated in these enterprises....1939...acres	3,851	42,680	41,399	1,281	100,502	59,043	5,809
39	Cost of maintenance and operation....1939...dollars	4,066	29,240	27,743	1,497	115,542	79,095	6,031
40	Average cost, per acre irrigated....1939...dollars	1.06	0.69	0.67	1.17	1.15	1.34	1.04
41	Total annual charges (reported)[3] [4]....1939...dollars	20	1,835	1,810	25	194,020	141,026	10,062
42	Average annual charge per acre irrigated....1939...dollars	0.19	0.45	0.48	0.10	2.56	2.57	1.82
43	Area against which charges were assessed....1939...acres	106	4,113	3,867	246	85,624	62,478	7,001
44	Average annual charge per acre assessed....1939...dollars	0.19	0.45	0.47	0.10	2.27	2.26	1.44
45	Total charges collected[3]....1939...dollars	.....	67	67	.....	168,128	123,559	5,107
46	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	.....	.....	.....	1,896,081	1,509,417	65,134
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number	78	577	538	39	236	73	7
48	Area irrigated by these enterprises....1939...acres	4,056	41,344	39,927	1,417	100,783	58,839	5,733
49	Water delivered....1939...acre-feet	6,867	117,073	113,732	3,341	400,246	310,204	19,402
50	Average water delivered per acre irrigated....1939...acre-feet	1.7	2.8	2.8	2.4	4.0	5.3	3.4
51	Average cost of water per acre irrigated....1939...dollars	1.10	0.68	0.66	1.17	2.11	2.48	1.79
52	Average cost of water per acre-foot delivered..1939...dollars	0.65	0.24	0.23	0.50	0.53	0.47	0.53
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number	.....	6	6	.....	3	1	.....
54	Irrigable area in these enterprises....1939...acres	.....	442	442	.....	8,514	[2]	.....
55	Irrigated area in these enterprises....1939...acres	.....	435	435	.....	8,513	[2]	.....
56	Area for which drains have been installed....1939...acres	.....	212	212	.....	5	.....	.....
57	Additional area needing drainage....1939...acres	.....	10	10	.....	506	[2]	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued												
Deschutes River—Con.					Willamette River							
Crooked River (24)	White River (25)	Fifteenmile Creek (26)	Hood River (27)	Sandy River (28)	Total	Direct (29)	Calapooya River (30)	Santiam River (31)	Luckiamute River (32)	Yamhill River (33)	Molalla River (34)	
312	200	84	1,274	23	1,355	618	29	202	24	112	203	1
32,205	4,643	1,985	25,066	310	26,080	11,474	592	4,749	623	2,205	2,894	2
27,529	4,046	1,663	24,172	286	20,885	9,422	428	4,183	398	1,502	2,212	3
.....	57	23	1	7	52	12	.....	7	.....	12	6	4
4,676	540	299	893	17	5,143	2,040	164	559	225	691	646	5
.....	.....	.....	22,370	.....	4,250	.....	.....	.....	.....	.....	.....	6
.....	.....	.....	19,765	.....	2,892	.....	.....	.....	.....	.....	.....	7
.....	.....	.....	12.1	.....	513.6	.....	.....	.....	.....	.....	.....	8
36,429	6,468	2,650	30,963	396	117,118	34,892	937	66,201	1,313	3,474	4,801	9
.....	.....	.....	31,240	.....	25,919	.....	.....	.....	.....	.....	.....	10
.....	.....	.....	39,660	.....	4,656	.....	.....	.....	.....	.....	.....	11
4,224	1,825	665	5,897	86	91,038	23,418	345	61,452	690	1,269	1,907	12
.....	.....	.....	8,870	.....	21,669	.....	.....	.....	.....	.....	.....	13
.....	.....	.....	19,895	.....	1,764	.....	.....	.....	.....	.....	.....	14
34,319	5,854	2,632	27,391	364	45,989	20,497	784	11,018	1,252	2,908	4,505	15
.....	.....	.....	28,352	.....	7,022	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	21,101	.....	4,302	.....	.....	.....	.....	.....	.....	17
.....	.....	.....	-3.4	.....	554.9	.....	.....	.....	.....	.....	.....	18
2,114	1,211	647	2,325	54	19,909	9,023	192	6,269	629	703	1,611	19
.....	.....	.....	5,982	.....	2,772	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	1,336	.....	1,410	.....	.....	.....	.....	.....	.....	21
93.8	79.3	75.4	91.5	85.2	56.7	56.0	75.5	43.1	49.8	75.8	64.2	22
.....	.....	.....	78.9	.....	60.5	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	93.7	.....	67.2	.....	.....	.....	.....	.....	.....	24
648,608	168,810	46,660	871,919	30,162	1,242,349	582,029	15,651	217,707	22,890	80,663	118,962	25
645,623	160,180	46,055	862,751	29,985	1,188,260	537,379	15,541	212,238	22,713	79,596	117,907	26
2,985	8,630	605	9,168	177	54,089	44,650	110	5,469	177	1,067	1,055	27
.....	.....	.....	957,875	.....	311,911	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	807,269	.....	100,561	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	-9.0	.....	298.3	.....	.....	.....	.....	.....	.....	30
18.90	28.84	17.73	31.83	82.86	27.01	28.40	19.96	19.76	18.28	27.74	26.41	31
.....	.....	.....	33.79	.....	44.42	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	38.26	.....	23.38	.....	.....	.....	.....	.....	.....	33
20.14	36.36	23.51	34.78	97.30	47.64	50.73	26.44	45.84	36.74	36.58	41.11	34
662,858	180,810	46,775	922,344	31,037	1,466,819	670,432	17,490	287,996	25,310	93,040	129,734	35
18.20	27.95	17.65	29.79		78.38	12.52	19.21	18.67	4.35	19.28	26.78	27.02	36
			Primary Enterprises	Sup.								
136	23	43	54	1	22	944	489	25	76	15	84	121	37
31,007	4,643	1,925	24,709	(2)	308	24,467	10,961	452	4,387	513	2,132	2,706	38
26,683	3,733	2,167	39,475	(2)	1,987	115,068	56,407	1,663	14,146	2,858	9,180	16,541	39
0.86	0.80	1.13	1.60	(2)	6.45	4.70	5.15	3.68	3.22	5.57	4.31	6.11	40
37,165	5,767	564	66,605	.....	.....	11,095	4,512	.....	5,200	.....	149	594	41
3.19	1.56	0.98	2.79	.....	.....	2.32	5.19	.....	1.89	.....	0.85	0.69	42
11,645	4,500	922	28,676	.....	.....	6,517	1,470	.....	3,586	.....	175	1,157	43
3.19	1.28	0.61	2.32	.....	.....	1.70	3.07	.....	1.45	.....	0.85	0.51	44
32,312	7,150	526	69,591	.....	.....	2,447	2,100	.....	.....	.....	.....	347	45
321,180	350	.....	191,146	.....	.....	135,724	85,000	.....	50,724	.....	.....	.....	46
135	21	47	76	1	21	960	506	28	74	21	81	124	47
31,779	4,432	1,700	25,046	(2)	294	23,833	10,986	590	4,315	607	2,129	2,708	48
62,138	8,502	2,452	78,688	(2)	437	36,894	15,719	619	7,337	1,436	2,757	5,815	49
2.0	1.9	1.4	3.1	(2)	1.5	1.5	1.4	1.0	1.7	2.4	1.3	2.1	50
1.57	1.41	1.15	2.75	(2)	5.95	4.88	5.29	3.66	3.27	5.57	4.23	6.46	51
0.80	0.74	0.79	0.88	(2)	4.00	3.15	3.70	3.51	1.92	2.35	3.27	3.01	52
2	.....	2	14	.....	4	111	17	.....	.....	1	10	37	53
(2)	.....	(2)	230	.....	57	4,881	284	.....	.....	(2)	243	1,365	54
(2)	.....	(2)	203	.....	49	3,336	233	.....	.....	(2)	155	945	55
(2)	.....	(2)	58	.....	47	2,207	124	.....	.....	(2)	125	520	56
(2)	.....	.....	13	.....	.....	857	34	.....	.....	.....	8	64	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basins totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Con.		PACIFIC SLOPE		
		Willamette River—Con.			Rogue River	
		Tualatin River (35)	Clackamas River (36)	Total	Total	Direct (37)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	115	52	4,809	4,359	2,342
2	Area irrigated....1939...acres....	3,185	358	71,884	64,944	21,255
3	(a) Cropland harvested....1939...acres....	2,409	301	52,627	49,163	15,681
4	(b) Crop failure....1939...acres....	15	.....	97	79	40
5	(c) Pasture....1939...acres....	761	57	19,160	15,702	5,534
6	Area irrigated....1929...acres....	.....	.....	60,693	58,960	11,931
7	1919...acres....	.....	.....	40,703	38,569	3,256
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	18.4	10.1	78.1
9	Irrigable area in enterprises....1940...acres....	4,711	789	88,266	77,253	27,873
10	1930...acres....	.....	.....	85,324	81,714	20,123
11	1920[2]...acres....	.....	.....	139,826	131,131	14,166
12	Excess of irrigable area over the area irrigated..1940...acres....	1,526	431	16,382	12,309	6,618
13	1930...acres....	.....	.....	24,631	22,754	8,192
14	1920[2]...acres....	.....	.....	99,123	92,562	10,910
15	Area works were capable of supplying with water...1940...acres....	4,329	696	84,743	74,680	26,239
16	1930...acres....	.....	.....	77,877	74,651	14,836
17	1920...acres....	.....	.....	56,469	52,816	4,673
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	8.8	(3)	76.9
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	1,144	338	12,859	9,736	4,984
20	1930...acres....	.....	.....	17,184	15,691	2,905
21	1920...acres....	.....	.....	15,766	14,247	1,417
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	73.6	51.4	8.48	87.0	81.0
23	1929...percent....	.....	.....	77.9	79.0	80.4
24	1919...percent....	.....	.....	72.1	73.0	69.7
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	167,613	36,834	5,305,470	5,031,147	2,164,329
26	(a) Cost of irrigation works and equipment....1940...dollars....	166,288	36,598	5,275,788	5,004,744	2,160,076
27	(b) Investment in water rights (reported)....1940...dollars....	1,325	236	29,682	26,403	4,253
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	5,230,947	5,144,992	1,605,192
29	1920...dollars....	.....	.....	1,975,189	1,783,989	165,665
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	1.4	-2.2	34.8
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	38.72	52.92	62.61	67.37	82.49
32	1930...dollars....	.....	.....	67.17	68.92	108.20
33	1920...dollars....	.....	.....	34.98	33.78	35.45
34	Average investment per acre irrigated....1939...dollars....	52.63	102.89	73.81	77.47	101.83
35	Estimated final investment in existing enterprises..1940...dollars....	205,568	37,249	5,424,154	5,122,161	2,238,433
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	43.64	47.21	61.45	66.30	80.31
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	97	37	877	.....	515	.....	177
38	Area irrigated in these enterprises....1939...acres....	2,987	329	69,730	.....	63,275	.....	20,976
39	Cost of maintenance and operation....1939...dollars....	12,199	2,074	210,832	.....	187,578	.....	97,822
40	Average cost, per acre irrigated....1939...dollars....	4.08	6.30	3.02	.....	2.96	.....	4.66
41	Total annual charges (reported)[5] [6]....1939...dollars....	.....	640	213,245	.....	212,756	.....	115,976
42	Average annual charge per acre irrigated....1939...dollars....	.....	4.96	4.44	.....	4.49	.....	6.95
43	Area against which charges were assessed....1939...acres....	.....	129	52,436	.....	51,733	.....	19,424
44	Average annual charge per acre assessed....1939...dollars....	.....	4.96	4.07	.....	4.11	.....	5.97
45	Total charges collected[5]....1939...dollars....	.....	.....	271,460	.....	271,297	.....	114,907
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	.....	.....	1,236,206	.....	1,236,206	.....	373,510
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	90	36	907	1	541	1	189
48	Area irrigated by these enterprises....1939...acres....	2,152	346	66,815	(4)	60,521	(4)	18,834
49	Water delivered....1939...acre-feet..	2,851	360	211,639	(4)	202,690	(4)	88,887
50	Average water delivered per acre irrigated....1939...acre-feet..	1.3	1.0	3.2	(4)	3.3	(4)	4.7
51	Average cost of water per acre irrigated....1939...dollars....	4.50	6.37	3.70	.....	3.69	.....	6.18
52	Average cost of water per acre-foot delivered..1939...dollars....	3.40	6.12	1.17	.....	1.10	.....	1.31
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	42	4	26	.....	5	.....	2
54	Irrigable area in these enterprises....1939...acres....	2,660	314	13,325	.....	12,531	.....	(4)
55	Irrigated area in these enterprises....1939...acres....	1,876	112	12,379	.....	11,867	.....	(4)
56	Area for which drains have been installed....1939...acres....	1,351	72	651	.....	444	.....	(4)
57	Additional area needing drainage....1939...acres....	751	.....	333	.....	218	.....	(4)

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Less than one-tenth of 1 percent.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

PACIFIC SLOPE—Continued							KLAMATH RIVER						
Rogue River—Continued											Upper Klamath Lake		
											Williamson River		
Little Butte Creek	Bear Creek	Evans Creek	Applegate River	Illinois River	Umpqua River	Other Pacific Slope streams	Total		Direct		Total		
(38)	(39)	(40)	(41)	(42)	(43)	(44)			(45)				
100	1,404	67	294	152	196	254	1,273		464		80		1
3,263	24,683	1,303	9,384	5,056	2,906	4,034	162,866		78,705		34,394		2
2,541	18,971	1,217	7,522	3,231	2,098	1,366	92,467		43,292		11,310		3
.....	1	.....	25	13	17	1	1,584		909		.....		4
722	5,711	86	1,837	1,812	791	2,667	68,815		34,504		23,064		5
11,726	14,862	1,215	9,266	4,328	.....	1,733	126,105		1,841		7,587		6
6,706	8,319	1,333	10,659	4,961	.....	2,134	90,570		3,185		7,800		7
-72.2	66.1	7.2	1.3	16.8	.....	132.8	29.2		(1)		353.3		8
3,299	27,169	1,454	10,375	7,083	5,200	5,813	233,874		98,684		69,488		9
12,247	20,425	1,517	12,620	6,079	.....	3,610	198,432		4,777		15,871		10
54,383	28,275	2,746	17,335	8,705	.....	8,695	239,940		5,910		10,150		11
36	2,486	151	991	2,027	2,294	1,779	71,008		19,979		35,094		12
521	5,563	302	3,354	1,751	.....	1,877	72,327		2,936		8,284		13
47,677	19,956	1,413	6,676	3,744	.....	6,561	149,370		2,725		2,350		14
3,299	27,161	1,410	10,207	6,361	4,755	5,308	186,018		86,661		36,914		15
12,171	20,293	1,482	11,871	5,836	.....	3,226	169,699		3,672		13,616		16
8,417	14,573	1,614	13,012	6,323	.....	3,653	135,099		5,800		9,980		17
-72.9	33.8	-4.9	-14.0	9.0	.....	64.5	9.6		(1)		171.1		18
36	2,478	107	823	1,308	1,849	1,271	23,152		7,956		2,520		19
445	5,431	267	2,605	1,508	.....	1,493	43,594		1,831		6,029		20
1,711	6,254	281	2,353	1,362	.....	1,519	44,529		2,615		2,180		21
98.9	90.9	92.4	91.9	79.4	61.1	76.0	87.6		90.8		93.2		22
96.3	73.2	82.0	78.1	74.2	.....	53.7	74.3		50.1		55.7		23
79.7	57.1	82.6	81.9	78.5	.....	58.4	67.0		54.9		78.2		24
9,221	2,692,456	21,859	91,884	51,398	114,266	160,057	5,136,003		1,464,349		415,089		25
9,180	2,674,250	21,179	91,279	48,780	112,880	158,164	4,955,757		1,439,756		404,034		26
41	18,206	680	605	2,618	1,386	1,893	180,246		24,593		11,055		27
1,219,886	1,475,733	22,504	166,953	203,421	.....	85,955	5,238,426		61,700		259,900		28
604,794	615,878	40,836	180,894	87,966	.....	191,200	3,811,932		43,141		32,368		29
-99.2	82.4	-2.9	-45.0	-74.7	.....	86.2	-2.0		(2)		59.7		30
2.80	99.13	15.50	9.00	8.08	24.03	30.15	27.61		16.90		11.24		31
100.23	72.72	15.18	14.06	34.86	.....	26.64	30.87		16.80		19.09		32
71.85	42.26	25.30	13.90	13.91	.....	52.34	28.22		7.44		3.24		33
2.83	109.08	16.78	9.79	10.17	39.32	39.68	31.54		18.61		12.07		34
9,221	2,692,656	22,284	96,659	62,908	126,768	175,225	6,828,833		1,581,699		1,970,289		35
2.80	99.11	15.33	9.32	8.88	24.38	30.14	29.20		16.03		28.35		36
Primary	Sup.						Primary	Sup.	Primary	Sup.	Primary	Sup.	
Enterprises							Enterprises		Enterprises		Enterprises		
43	.....	82	21	95	97	144	218	161	7	69	2	27	1	37
3,081	.....	24,466	1,241	8,931	4,580	2,774	3,681	153,945	41,480	71,191	(4)	33,042	(4)	38
1,452	.....	78,166	874	6,146	3,118	8,186	15,068	161,615	42,228	58,525	(4)	12,578	(4)	39
0.47	.....	3.19	0.70	0.69	0.68	2.95	4.09	1.05	1.02	0.82	(4)	0.38	(4)	40
1,103	.....	91,294	531	3,692	160	489	.....	175,133	41,666	61,319	4,554	2,482	.....	41
1.26	.....	3.98	0.67	0.62	1.07	0.78	.....	1.98	1.01	1.55	0.77	0.58	.....	42
878	.....	23,976	847	6,408	200	703	.....	93,950	41,282	40,784	5,939	5,182	.....	43
1.26	.....	3.81	0.63	0.58	0.80	0.70	.....	1.86	1.01	1.50	0.77	0.48	.....	44
1,002	.....	153,051	656	1,681	.....	163	.....	168,224	457	54,584	457	2,049	.....	45
100	.....	862,596	.....	.....	.....	.....	.....	1,904,668	.....	476,013	.....	253,846	.....	46
47	1	86	21	90	108	147	219	158	5	74	[7] 1	19	1	47
3,163	(4)	24,227	1,169	8,239	4,889	2,660	3,634	148,309	39,445	70,967	3,902	28,090	(4)	48
5,578	(4)	49,551	4,151	25,776	28,747	4,178	4,771	450,887	78,729	239,083	13,870	74,067	(4)	49
1.8	(4)	2.0	3.6	3.1	5.9	1.6	1.3	3.0	2.0	3.4	3.6	2.6	(4)	50
0.41	.....	3.87	0.84	0.70	0.65	3.11	4.36	1.35	1.06	1.10	1.05	0.21	(4)	51
0.23	.....	1.89	0.24	0.23	0.11	1.98	3.32	0.44	0.53	0.33	0.30	0.08	(4)	52
.....	.....	1	.....	.....	2	5	16	37	.....	19	.....	3	.....	53
.....	.....	(4)	.....	.....	(4)	203	591	112,758	.....	57,589	.....	1,729	.....	54
.....	.....	(4)	.....	.....	(4)	59	453	86,166	.....	45,004	.....	2,807	.....	55
.....	.....	.....	.....	.....	(4)	7	200	71,955	.....	41,733	.....	760	.....	56
.....	.....	(4)	.....	.....	(4)	70	45	8,004	.....	2,014	.....	842	.....	57

[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	KLAMATH RIVER—Continued			SACRAMENTO RIVER	INDEPENDENT BASINS
		Upper Klamath Lake—Continued			Pit River	Malheur Lake
		Williamson River—Continued				
		Direct (46)	Sprague River (47)	Lost River (48)	Goose Lake (49)	Total
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	47	33	729	176	215
2	Area irrigated....1939...acres	3,812	30,582	49,767	21,922	79,902
3	(a) Cropland harvested....1939...acres	2,720	8,590	37,865	19,136	47,943
4	(b) Crop failure....1939...acres	.....	.....	675	.....	250
5	(c) Pasture....1939...acres	1,092	21,992	11,227	2,786	31,709
6	Area irrigated....1929...acres	.....	7,587	60,450	.....	107,727
7	1919...acres	.....	7,800	58,568	.....	86,198
8	Increase or decrease (-), 1929-1939....percent	.....	303.1	-17.7	.....	-25.8
9	Irrigable area in enterprises....1940...acres	8,808	60,680	65,702	24,235	112,933
10	1930...acres	.....	15,871	77,170	.....	169,497
11	1920[1]...acres	.....	10,150	194,748	.....	199,968
12	Excess of irrigable area over the area irrigated..1940...acres	4,996	30,098	15,935	2,313	33,031
13	1930...acres	.....	8,284	16,720	.....	61,770
14	1920[1]...acres	.....	2,350	136,180	.....	113,770
15	Area works were capable of supplying with water...1940...acres	5,399	31,515	62,443	23,998	112,845
16	1930...acres	.....	13,616	75,857	.....	118,023
17	1920...acres	.....	9,980	95,304	.....	141,217
18	Increase or decrease (-), 1930-1940....percent	.....	131.5	-17.7	.....	-4.4
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	1,587	933	12,676	2,076	32,943
20	1930...acres	.....	6,029	15,407	.....	10,296
21	1920...acres	.....	2,180	36,736	.....	55,019
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	70.6	97.0	79.7	91.3	70.8
23	1929...percent	.....	55.7	79.7	.....	91.3
24	1919...percent	.....	78.2	61.5	.....	61.0
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	263,521	151,568	3,256,565	1,533,323	329,102
26	(a) Cost of irrigation works and equipment....1940...dollars	263,521	140,513	3,111,967	1,528,572	314,248
27	(b) Investment in water rights (reported)....1940...dollars	.....	11,055	144,598	4,751	14,854
28	Total investment in irrigation enterprises....1930...dollars	.....	259,900	4,295,740	.....	1,884,114
29	1920...dollars	.....	32,368	3,451,383	.....	1,137,612
30	Increase or decrease (-), 1930-1940....percent	.....	-41.7	-24.2	.....	-82.5
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	48.81	4.81	52.15	63.89	2.92
32	1930...dollars	.....	19.09	56.63	.....	15.96
33	1920...dollars	.....	3.24	36.21	.....	8.06
34	Average investment per acre irrigated....1939...dollars	69.13	4.96	65.44	69.94	4.12
35	Estimated final investment in existing enterprises..1940...dollars	313,721	1,656,568	3,276,845	1,535,473	336,612
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	35.62	27.30	49.87	63.36	2.98
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises		
37	Enterprises reporting maintenance and operation...1939...number	6	1	21	65	4	82	152
38	Area irrigated in these enterprises....1939...acres	3,760	(2)	29,282	49,712	35,539	19,441	76,573
39	Cost of maintenance and operation....1939...dollars	6,562	(2)	6,016	90,512	37,625	15,115	19,561
40	Average cost, per acre irrigated....1939...dollars	1.75	(2)	0.21	1.82	1.06	0.78	0.26
41	Total annual charges (reported)[3] [4]....1939...dollars	2,182	.....	300	111,332	37,112	12,000	392
42	Average annual charge per acre irrigated....1939...dollars	1.70	.....	0.10	2.49	1.05	1.58	0.15
43	Area against which charges were assessed....1939...acres	2,182	.....	3,000	47,984	35,345	8,000	2,629
44	Average annual charge per acre assessed....1939...dollars	1.00	.....	0.10	2.32	1.05	1.50	0.15
45	Total charges collected[3]....1939...dollars	1,749	.....	300	111,591	.....	14,031	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars	241,014	.....	12,832	1,174,809	.....	16,360	4,500
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number	4	1	15	65	3	73	147
48	Area irrigated by these enterprises....1939...acres	1,952	(2)	26,138	49,252	35,539	17,547	69,778
49	Water delivered....1939...acre-feet	7,591	(2)	66,476	137,737	64,845	47,418	158,015
50	Average water delivered per acre irrigated....1939...acre-feet	3.9	(2)	2.5	2.8	1.8	2.7	2.3
51	Average cost of water per acre irrigated....1939...dollars	1.30	(2)	0.13	2.34	1.06	0.85	0.26
52	Average cost of water per acre-foot delivered..1939...dollars	0.33	(2)	0.05	0.84	0.58	0.31	0.12
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number	2	.....	1	15	.....	3	.....
54	Irrigable area in these enterprises....1939...acres	(2)	.....	(2)	50,440	.....	230	.....
55	Irrigated area in these enterprises....1939...acres	(2)	.....	(2)	38,355	.....	139	.....
56	Area for which drains have been installed....1939...acres	.....	.....	(2)	29,462	.....	.....	.....
57	Additional area needing drainage....1939...acres	(2)	.....	(2)	5,148	.....	58	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

INDEPENDENT BASINS—Continued													
Malheur Lake—Continued											Quinn River		
	Harney Lake												
Silvies River	Total	Direct	Silver Creek	Donner und Blitzen River	Benjamin Lake	Silver Lake	Summer Lake	Lake Abert	Cowhead and Warner Lakes	Trout Creek	McDermitt Creek	Tennile Creek	
(50)		(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(61)	(62)	
164	10	3	7	41	3	20	23	31	55	38	7	11	1
53,156	9,182	1,150	8,032	17,564	160	6,315	3,508	27,389	33,467	9,381	2,970	1,149	2
30,182	3,552	560	2,992	14,209	160	3,786	2,678	20,749	19,561	7,870	2,370	1,004	3
210	40	40	.....	.....	.....	.....	.....	.....	10	44	.....	135	4
22,764	5,590	550	5,040	3,355	.....	2,529	830	6,640	13,896	1,467	600	2,410	5
28,727	.....	.....	.....	79,000	.....	.....	.....	.....	.....	.....	.....	.....	6
64,842	.....	.....	.....	21,356	.....	.....	.....	.....	.....	.....	.....	.....	7
85.0	.....	.....	.....	-77.8	.....	.....	.....	.....	.....	.....	.....	.....	8
80,373	14,750	1,470	13,280	17,810	170	14,609	4,823	28,691	39,574	11,011	3,014	4,189	9
59,997	.....	.....	.....	109,500	.....	.....	.....	.....	.....	.....	.....	.....	10
102,258	42,779	.....	42,779	54,931	.....	.....	.....	.....	.....	.....	.....	.....	11
27,217	5,568	320	5,248	246	10	8,294	1,315	1,302	6,107	1,630	44	40	12
31,270	.....	.....	.....	30,500	.....	.....	.....	.....	.....	.....	.....	.....	13
37,416	42,779	.....	42,779	33,575	.....	.....	.....	.....	.....	.....	.....	.....	14
80,285	14,750	1,470	13,280	17,810	170	14,609	4,823	28,691	38,914	10,614	3,010	4,189	15
33,523	.....	.....	.....	84,500	.....	.....	.....	.....	.....	.....	.....	.....	16
95,867	17,394	.....	17,394	27,956	.....	.....	.....	.....	.....	.....	.....	.....	17
139.5	.....	.....	.....	-78.9	.....	.....	.....	.....	.....	.....	.....	.....	18
27,129	5,568	320	5,248	246	10	8,294	1,315	1,302	5,447	1,233	40	40	19
4,796	.....	.....	.....	5,500	.....	.....	.....	.....	.....	.....	.....	.....	20
31,025	17,394	.....	17,394	6,600	.....	.....	.....	.....	.....	.....	.....	.....	21
66.2	62.3	78.2	60.5	98.6	94.1	43.2	72.7	95.5	86.0	88.4	98.7	99.0	22
85.7	.....	.....	.....	93.5	.....	.....	.....	.....	.....	.....	.....	.....	23
67.6	.....	.....	.....	76.4	.....	.....	.....	.....	.....	.....	.....	.....	24
207,402	80,220	4,050	76,170	41,480	1,725	296,927	365,585	237,348	116,568	47,230	11,371	10,900	25
203,848	70,220	4,050	66,170	40,180	1,725	291,927	365,585	186,935	111,165	47,185	11,356	10,900	26
3,554	10,000	.....	10,000	1,300	.....	5,000	.....	50,413	5,403	45	15	.....	27
80,114	.....	.....	.....	1,804,000	.....	.....	.....	.....	.....	.....	.....	.....	28
1,005,862	.....	.....	.....	131,750	.....	.....	.....	.....	.....	.....	.....	.....	29
158.9	.....	.....	.....	-97.7	.....	.....	.....	.....	.....	.....	.....	.....	30
2.58	5.44	2.76	5.74	2.33	10.15	20.32	75.80	8.27	3.00	4.45	3.78	2.60	31
2.39	.....	.....	.....	21.35	.....	.....	.....	.....	.....	.....	.....	.....	32
10.49	.....	.....	.....	4.71	.....	.....	.....	.....	.....	.....	.....	.....	33
3.90	8.74	3.52	9.48	2.36	10.78	47.02	104.21	8.67	3.48	5.03	3.83	2.63	34
213,952	80,220	4,050	76,170	42,440	1,725	296,927	365,585	247,348	123,108	48,880	11,371	10,900	35
2.66	5.44	2.76	5.74	2.38	10.15	20.32	75.80	8.62	3.11	4.44	3.77	2.60	36
104	8	2	6	40	3	8	4	14	41	34	7	11	37
52,297	8,712	(3)	7,872	15,564	160	2,635	3,122	25,928	30,912	9,334	2,970	4,149	38
13,232	1,093	(3)	1,057	5,236	478	1,455	1,613	5,794	6,130	2,325	560	875	39
0.25	0.13	(3)	0.13	0.34	2.99	0.55	0.52	0.22	0.20	0.25	0.19	0.21	40
392	.....	.....	.....	.....	.....	400	963	300	.....	.....	.....	.....	41
0.15	.....	.....	.....	.....	.....	0.50	0.77	0.25	.....	.....	.....	.....	42
2,629	.....	.....	.....	.....	.....	800	1,250	1,200	.....	.....	.....	.....	43
0.15	.....	.....	.....	.....	.....	0.50	0.77	0.25	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	400	962	300	.....	.....	.....	.....	45
4,500	.....	.....	.....	.....	.....	322,000	33,000	.....	.....	.....	.....	.....	46
98	10	3	7	39	3	7	1	15	35	37	7	11	47
45,212	9,182	1,150	8,032	15,384	160	2,495	(3)	26,724	7,582	9,351	2,970	4,149	48
99,333	25,874	1,140	24,734	32,808	405	7,079	(3)	103,685	14,729	12,302	7,685	5,700	49
2.2	2.8	1.0	3.1	2.1	2.5	2.8	(3)	3.9	1.9	1.3	2.6	1.4	50
0.27	0.13	0.04	0.13	0.33	2.99	0.52	(3)	0.22	0.52	0.25	0.19	0.21	51
0.12	0.04	0.04	0.04	0.15	1.18	0.18	(3)	0.06	0.27	0.19	0.07	0.15	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER				
			Total	Direct (1)	Snake River: Total	Snake River: Direct (2)	Owyhee River: Total
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	[2] 5,891	4,315	103	1,546	297	66
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	214	173	20	281	149	1,335
3	Diversion dams....1940..total number	5,097	3,827	13	1,925	283	56
4	1930..total number	3,806	2,700	.....	1,304	2	95
5	1920..total number	3,285	2,158	.....	1,162	.....	96
6	(a) Concrete and masonry....1940..number	663	564	2	160	18	5
7	(b) Timber....1940..number	877	563	8	308	42	1
8	(c) Earth and rock....1940..number	2,220	1,757	2	990	101	44
9	(d) Other, mixed, and not reported..1940..number	1,337	943	1	467	122	6
10	Main canals and laterals....1940..total length, miles	8,518.0	5,948.6	11.3	2,772.5	266.7	473.0
11	1930..total length, miles	8,177	5,651	.....	2,634	112	199
12	1920..total length, miles	9,071	6,556	1	3,610	112	247
13	(a) Earth....1940..length, miles	8,222	5,707	9	2,720	264	459
14	(b) Lined....1940..length, miles	296.0	241.6	2.3	52.5	2.7	14.0
15	1940..capacity, c.f.s.[3]	37,290	22,796	69	13,295	1,337	2,567
16	1930..capacity, c.f.s.[3]	25,906	17,120	.....	9,209	554	535
17	1920..capacity, c.f.s.[3]	28,897	19,161	2	10,917	330	1,555
18	Pipe lines[4]....1940..total length, miles	665.2	531.4	41.5	57.9	15.4	23.0
19	1930..total length, miles	225.3	204.2	.....	32.0	15.4	1.5
20	1920..total length, miles	159.6	132.2	2.5	29.2	14.4	2.4
21	(a) Concrete....1940..length, miles	97.8	86.9	0.8	24.9	9.0	9.7
22	(b) Metal....1940..length, miles	489.2	385.7	40.4	13.4	1.4	5.1
23	(c) Wood-stave....1940..length, miles	67.7	49.4	0.3	19.6	5.0	8.2
24	(d) Other....1940..length, miles	10.5	9.4	.....	.....	.....	.....
25	Storage dams....1940..total number	247	146	1	86	9	12
26	1930..total number	167	118	.....	73	2	14
27	1920..total number	309	168	.....	103	.....	18
28	(a) Concrete and masonry....1940..number	33	18	.....	10	1	1
29	(b) Earth and rock....1940..number	156	86	1	54	2	10
30	(c) Other, mixed, and not reported..1940..number	58	42	.....	22	6	1
31	Reservoirs....1940..total number	257	153	1	94	10	14
32	(a) 1-99 acre-feet capacity....1940..number	153	92	1	44	3	3
33	(b) 100-999 acre-feet capacity....1940..number	54	35	.....	31	6	7
34	(c) 1,000 and over acre-feet capacity....1940..number	50	26	.....	19	1	4
35	1940..total capacity, ac.-ft.[5]	2,212,315	1,426,761	([6])	1,170,186	6,050	756,146
36	1930..total number	120	80	.....	58	1	14
37	1930..total capacity, ac.-ft.	1,698,428	987,123	.....	783,260	6,000	391,053
38	Wells, flowing....1940..number	76	12	.....	6	.....	3
39	1930..number	59	15	.....	6	.....	.....
40	1920..number	65	19	.....	12	.....	4
41	1940..yield, g.p.m.	3,396	1,165	.....	275	.....	25
42	1930..yield, g.p.m.	6,535	2,005	.....	1,505	.....	.....
43	1920..yield, g.p.m.	11,968	1,182	.....	1,102	.....	787
44	Wells, pumped....1940..number	901	843	38	117	16	2
45	1930..number	558	535	.....	93	3	.....
46	1920..number	208	178	9	39	.....	2
47	1940..yield, g.p.m.	209,289	195,294	4,110	36,877	7,192	([6])
48	1930..yield, g.p.m.	136,669	121,217	.....	31,714	1,375	.....
49	1920..yield, g.p.m.	47,026	32,077	178	9,818	.....	340
50	Pumping plants....1940..total number	2,275	1,764	83	289	116	29
51	1930..total number	1,091	931	.....	266	78	75
52	Prime movers....1940..capacity, hp.	29,527	19,674	549	8,636	3,823	3,697
53	1930..capacity, hp.	21,257	12,666	.....	7,928	5,978	546
54	1920..capacity, hp.	13,769	11,470	42	9,289	5,594	1,312
55	(a) Electric....1940..number	1,221	936	59	177	91	16
56	1940..capacity, hp.	17,080	11,841	331	7,500	3,520	3,386
57	(b) Internal-combustion....1940..number	999	784	24	93	24	3
58	1940..capacity, hp.	9,617	7,348	218	746	303	41
59	(c) Other[7]....1940..number	55	44	.....	19	1	10
60	1940..capacity, hp.	2,830	485	.....	390	.....	270
61	Pumps....1940..total number	2,265	1,753	82	276	116	21
62	1930..number	1,157	978	.....	292	101	77
63	1920..number	614	442	12	190	60	60
64	1940..capacity, g.p.m.	1,510,958	969,794	14,667	419,949	181,530	169,089
65	1930..capacity, g.p.m.	1,022,213	600,215	.....	292,378	188,085	36,894
66	1920..capacity, g.p.m.	600,045	491,607	2,418	377,160	185,022	80,153
67	(a) Centrifugal....1940..number	1,832	1,426	31	239	103	18
68	1940..capacity, g.p.m.	1,292,351	865,699	9,196	392,506	171,491	161,257
69	1940..average capacity, g.p.m.	705	607	297	1,642	1,665	8,959
70	(b) Turbine....1940..number	165	125	12	21	10	3
71	1940..capacity, g.p.m.	142,329	85,324	2,762	24,792	8,594	7,832
72	1940..average capacity, g.p.m.	863	683	230	1,181	859	2,611
73	(c) Plunger....1940..number	201	154	35	7	.....	.....
74	1940..capacity, g.p.m.	13,889	10,450	2,574	291	.....	.....
75	1940..average capacity, g.p.m.	69	68	74	42	.....	.....
76	(d) Other....1940..number	67	48	4	9	3	.....
77	1940..capacity, g.p.m.	62,389	8,321	135	2,360	1,445	.....
78	Pumping lift, from all sources....1940..average, feet	27	28	88	20	20	28
79	1930..average, feet	27	27	.....	22	27	18
80	1920..average, feet	28	28	45	24	31	28
81	from pumped wells....1940..average, feet	35	35	143	19	20	([6])
82	from surface sources...1940..average, feet	22	22	41	21	20	29

[1] Data for 2 enterprises in Whitehorse Creek Drainage Basin (60) (number refers to separate map) are included only in State totals. Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State totals.

[2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table I.

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

COLUMBIA RIVER—Continued													
Snake River—Continued													
Owyhee River—Continued		Malheur River				Burnt River	Powder River	Imnaha River	Grande Ronde River				
Direct (3)	Jordan Creek (5)	Total	Direct (6)	Bully Creek (7)	Willow Creek (8)	(9)	(10)	(11)	Total	Direct (12)	Wallowa River (13)	Joseph Creek (14)	
52	14	186	108	34	44	97	392	64	444	221	198	25	1
1,455	889	498	732	133	203	255	276	27	168	107	253	44	2
44	12	351	199	38	114	273	512	103	347	102	196	49	3
.....	.....	331	.....	.....	.....	184	342	70	175	.....	.....	.....	4
.....	.....	256	.....	.....	.....	213	291	34	203	.....	.....	.....	5
4	1	20	14	1	5	.....	83	1	33	18	14	1	6
.....	1	33	14	18	1	13	104	5	110	24	85	1	7
35	9	230	120	12	98	241	182	28	164	54	67	43	8
5	1	68	51	7	10	19	143	69	40	6	30	4	9
397.7	75.3	755.6	606.5	48.0	101.1	294.1	515.2	69.7	398.2	164.5	214.5	19.2	10
.....	.....	420	.....	.....	.....	268	1,009	75	323	.....	.....	.....	11
.....	.....	624	.....	.....	.....	414	1,335	86	621	.....	.....	.....	12
384	75	740	599	48	93	285	512	67	393	163	211	19	13
13.7	0.3	15.6	7.5	.....	8.1	9.1	3.2	2.7	5.2	1.5	3.5	0.2	14
2,096	471	3,720	1,839	212	1,669	607	2,795	96	2,173	653	1,488	32	15
.....	.....	2,642	.....	.....	.....	458	2,722	212	1,551	.....	.....	.....	16
.....	.....	2,022	.....	.....	.....	781	3,754	102	1,883	.....	.....	.....	17
22.8	0.2	3.0	2.9	.....	0.1	6.3	2.9	1.6	5.7	4.8	0.7	0.2	18
.....	.....	4.3	.....	.....	.....	1.1	6.7	.....	.....	.....	.....	.....	19
.....	.....	2.0	.....	.....	.....	1.0	7.9	0.1	1.1	.....	.....	.....	20
9.7	.....	.....	.....	.....	.....	6.0	.....	.....	0.2	0.2	.....	.....	21
5.1	.....	0.4	0.4	.....	.....	0.2	1.0	0.6	4.7	3.9	0.6	0.2	22
8.0	0.2	2.6	2.5	.....	0.1	0.1	1.9	1.0	0.8	0.7	0.1	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
11	1	11	7	1	3	9	30	.....	15	6	9	.....	25
.....	.....	11	.....	.....	.....	9	22	.....	10	.....	.....	.....	26
.....	.....	34	.....	.....	.....	8	19	1	19	.....	.....	.....	27
1	.....	3	2	.....	1	.....	4	.....	1	.....	1	.....	28
9	1	8	5	1	2	6	21	.....	7	4	3	.....	29
1	.....	.....	.....	.....	.....	3	5	.....	7	2	5	.....	30
13	1	18	7	1	10	8	30	.....	14	9	5	.....	31
3	.....	9	1	.....	8	.....	18	.....	11	9	2	.....	32
7	.....	5	4	1	.....	6	6	.....	1	.....	1	.....	33
3	1	4	2	.....	2	2	6	.....	2	.....	2	.....	34
722,146	(6)	300,931	250,780	(6)	50,031	28,910	28,745	.....	49,404	50	49,354	.....	35
.....	.....	10	.....	.....	.....	5	19	.....	5	.....	.....	.....	36
.....	.....	234,323	.....	.....	.....	104,120	3,314	.....	41,766	.....	.....	.....	37
3	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	38
.....	.....	2	.....	.....	.....	1	3	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	40
25	.....	.....	.....	.....	.....	.....	250	.....	.....	.....	.....	.....	41
.....	.....	280	.....	.....	.....	75	1,150	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	315	.....	.....	.....	.....	.....	43
2	.....	4	.....	.....	4	1	24	.....	70	67	3	.....	44
.....	.....	1	.....	.....	.....	1	30	.....	58	.....	.....	.....	45
.....	.....	2	.....	.....	.....	.....	13	.....	20	.....	.....	.....	46
(6)	.....	1,346	.....	.....	1,346	(6)	6,710	.....	20,849	20,713	136	.....	47
.....	.....	25	.....	.....	.....	150	10,020	.....	20,144	.....	.....	.....	48
.....	.....	60	.....	.....	.....	.....	4,780	.....	4,203	.....	.....	.....	49
29	.....	17	6	.....	11	2	36	2	87	79	8	.....	50
.....	.....	12	.....	.....	.....	1	32	1	67	.....	.....	.....	51
3,697	.....	290	187	.....	103	(6)	484	(6)	316	302	14	.....	52
.....	.....	652	.....	.....	.....	2	377	6	367	.....	.....	.....	53
.....	.....	521	.....	.....	.....	24	1,601	23	189	.....	.....	.....	54
16	.....	7	2	.....	5	.....	20	.....	43	37	6	.....	55
3,386	.....	55	(6)	.....	10	.....	431	.....	108	98	10	.....	56
3	.....	9	3	.....	6	2	14	1	40	39	1	.....	57
41	.....	160	67	.....	93	(6)	52	(6)	164	160	(6)	.....	58
10	.....	1	1	.....	.....	.....	2	1	4	3	1	.....	59
270	.....	(6)	(6)	.....	.....	.....	(6)	.....	44	44	.....	.....	60
21	.....	14	6	.....	8	2	36	1	86	78	8	.....	61
.....	.....	12	.....	.....	.....	1	33	1	67	.....	.....	.....	62
.....	.....	10	.....	.....	.....	3	14	4	35	.....	.....	.....	63
169,089	.....	17,046	15,700	.....	1,346	(6)	15,590	(6)	33,564	33,133	431	.....	64
.....	.....	29,420	.....	.....	.....	150	14,025	300	23,504	.....	.....	.....	65
.....	.....	30,010	.....	.....	.....	965	69,132	500	10,743	.....	.....	.....	66
18	.....	9	5	.....	4	2	29	1	77	72	5	.....	67
161,257	.....	16,475	15,675	.....	800	(6)	7,905	(6)	32,248	31,898	350	.....	68
8,959	.....	1,831	3,135	.....	200	(6)	273	(6)	419	443	70	.....	69
3	.....	.....	.....	.....	.....	.....	5	.....	3	1	2	.....	70
7,832	.....	.....	.....	.....	.....	.....	7,590	.....	776	(6)	(6)	.....	71
2,611	.....	.....	.....	.....	.....	.....	1,518	.....	259	(6)	(6)	.....	72
.....	.....	2	1	.....	1	.....	2	.....	3	3	.....	.....	73
.....	.....	(6)	(6)	.....	(6)	.....	(6)	.....	155	155	.....	.....	74
.....	.....	(6)	(6)	.....	(6)	.....	(6)	.....	52	52	.....	.....	75
.....	.....	3	.....	.....	3	.....	.....	.....	3	2	1	.....	76
.....	.....	530	.....	.....	530	.....	.....	.....	385	(6)	(6)	.....	77
28	.....	19	20	.....	18	(6)	27	(6)	17	15	35	.....	78
.....	.....	25	.....	.....	.....	14	25	20	18	.....	.....	.....	79
.....	.....	17	.....	.....	.....	17	33	40	12	.....	.....	.....	80
(6)	.....	21	.....	.....	21	.....	25	.....	17	16	34	.....	81
29	.....	16	20	.....	9	(6)	32	(6)	19	11	35	.....	82

[4] Includes siphons and farm pipe lines reported.
[5] Total capacity of all reservoirs regardless of size.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[7] Includes water wheels for which no horsepower was reported.

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DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued					
			Umatilla River				
		Walla Walla River	Total	Direct	Birch Creek	Butter Creek	Willow Creek
		(15)		(16)	(17)	(18)	(19)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	349	147	67	45	35	83
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	57	326	603	61	137	59
3	Diversion dams....1940..total number	204	164	51	53	60	128
4	1930..total number	27	179	.....	.....	.....	117
5	1920..total number	101	139	.....	.....	.....	71
6	(a) Concrete and masonry....1940..number	124	94	35	22	37	78
7	(b) Timber....1940..number	12	11	2	6	3	17
8	(c) Earth and rock....1940..number	54	40	10	16	14	9
9	(d) Other, mixed, and not reported..1940..number	14	19	4	9	6	24
10	Main canals and laterals....1940..total length, miles	92.1	376.2	305.2	60.0	11.0	95.4
11	1930..total length, miles	95	416	.....	.....	.....	101
12	1920..total length, miles	206	461	.....	.....	.....	105
13	(a) Earth....1940..length, miles	85	258	187	60	11	93
14	(b) Lined....1940..length, miles	7.1	118.2	118.2	.....	.....	2.4
15	1940..capacity, c.f.s.[1]	727	1,639	1,387	113	139	133
16	1930..capacity, c.f.s.[1]	261	1,804	.....	.....	.....	171
17	1920..capacity, c.f.s.[1]	404	2,007	.....	.....	.....	110
18	Pipe lines[2]....1940..total length, miles	18.4	64.1	63.3	0.8	.....	1.6
19	1930..total length, miles	2.4	43.4	.....	.....	.....	0.1
20	1920..total length, miles	23.6	14.3	.....	.....	.....	0.3
21	(a) Concrete....1940..length, miles	13.1	18.7	18.2	0.5	.....	0.2
22	(b) Metal....1940..length, miles	4.8	37.7	37.6	0.1	.....	0.9
23	(c) Wood-stave....1940..length, miles	0.3	7.7	7.5	0.2	.....	0.5
24	(d) Other....1940..length, miles	0.2	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	.....	2	2	.....	.....	.....
26	1930..total number	.....	6	.....	.....	.....	1
27	1920..total number	7	10	.....	.....	.....	7
28	(a) Concrete and masonry....1940..number	.....	1	1	.....	.....	.....
29	(b) Earth and rock....1940..number	.....	1	1	.....	.....	.....
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	.....	4	4	.....	.....	.....
32	(a) 1-99 acre-feet capacity....1940..number	.....	2	2	.....	.....	.....
33	(b) 100-999 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	2	2	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]	.....	123,012	123,012	.....	.....	.....
36	1930..total number	.....	3	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.	.....	52,412	.....	.....	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....
39	1930..number	1	.....	.....	.....	.....	.....
40	1920..number	1	2	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	125	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	200	8	7	1	.....	.....
45	1930..number	178	11	.....	.....	.....	2
46	1920..number	88	6	.....	.....	.....	.....
47	1940..yield, g.p.m.	39,212	2,200	2,000	(4)	.....	.....
48	1930..yield, g.p.m.	42,462	2,460	.....	.....	.....	2
49	1920..yield, g.p.m.	19,325	171	.....	.....	.....	.....
50	Pumping plants....1940..total number	221	19	17	2	.....	3
51	1930..total number	190	26	.....	.....	.....	2
52	Prime movers....1940..capacity, hp	953	177	170	(4)	.....	24
53	1930..capacity, hp	860	268	.....	.....	.....	4
54	1920..capacity, hp	467	115	.....	.....	.....	2
55	(a) Electric....1940..number	201	11	9	2	.....	1
56	1940..capacity, hp	812	90	83	(4)	.....	(4)
57	(b) Internal-combustion....1940..number	19	8	8	.....	.....	2
58	1940..capacity, hp	139	87	87	.....	.....	(4)
59	(c) Other[5]....1940..number	1	.....	.....	.....	.....	.....
60	1940..capacity, hp	(4)	.....	.....	.....	.....	.....
61	Pumps....1940..total number	221	19	17	2	.....	3
62	1930..number	190	27	.....	.....	.....	2
63	1920..number	93	13	.....	.....	.....	1
64	1940..capacity, g.p.m.	42,489	15,070	14,570	(4)	.....	956
65	1930..capacity, g.p.m.	46,264	13,790	.....	.....	.....	2
66	1920..capacity, g.p.m.	19,425	4,246	.....	.....	.....	200
67	(a) Centrifugal....1940..number	205	17	15	2	.....	.....
68	1940..capacity, g.p.m.	38,296	11,870	11,370	(4)	.....	.....
69	1940..average capacity, g.p.m.	187	698	758	(4)	.....	.....
70	(b) Turbine....1940..number	15	2	2	.....	.....	.....
71	1940..capacity, g.p.m.	4,175	(4)	(4)	.....	.....	.....
72	1940..average capacity, g.p.m.	278	(4)	(4)	.....	.....	.....
73	(c) Plunger....1940..number	1	.....	.....	.....	.....	2
74	1940..capacity, g.p.m.	(4)	.....	.....	.....	.....	(4)
75	1940..average capacity, g.p.m.	(4)	.....	.....	.....	.....	(4)
76	(d) Other....1940..number	.....	.....	.....	.....	.....	1
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(4)
78	Pumping lift, from all sources....1940..average, feet	32	20	18	(4)	.....	27
79	1930..average, feet	28	25	.....	.....	.....	65
80	1920..average, feet	25	34	.....	.....	.....	12
81	from pumped wells....1940..average, feet	33	19	19	(4)	.....	.....
82	from surface sources...1940..average, feet	27	20	18	(4)	.....	27

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] Total capacity of all reservoirs regardless of size.

WORKS, 1940, 1930, AND 1920—Continued

COLUMBIA RIVER—Continued													
John Day River			Deschutes River					Fifteenmile Creek	Hood River	Sandy River	Willamette River		
Total	Direct (20)	Rock Creek (21)	Total	Direct (22)	Squaw Creek (23)	Crooked River (24)	White River (25)	(26)	(27)	(28)	Total	Direct (29)	
597	558	39	266	86	13	144	23	54	83	23	1,064	529	1
80	83	45	423	731	721	238	255	49	330	16	43	39	2
712	680	32	404	66	28	288	22	62	38	5	172	60	3
712	.....	.....	224	.....	.....	.....	.....	.....	30	.....	68	.....	4
504	.....	.....	361	.....	.....	.....	.....	.....	34	.....	15	.....	5
45	27	18	27	12	.....	13	2	18	7	.....	9	1	6
57	49	8	40	4	4	28	4	11	10	2	87	31	7
457	453	4	123	35	2	77	9	16	20	3	43	14	8
153	151	2	214	15	22	170	7	17	1	.....	33	14	9
673.5	663.7	9.8	1,488.1	946.4	84.1	306.4	151.2	82.2	170.2	.....	187.1	32.0	10
689	.....	.....	1,413	.....	.....	.....	.....	.....	208	.....	38	.....	11
707	.....	.....	1,101	.....	.....	.....	.....	.....	220	.....	58	.....	12
671	662	9	1,470	935	84	300	151	82	147	.....	172	26	13
2.5	1.7	0.8	18.1	11.4	0.1	6.4	0.2	0.2	23.2	.....	15.1	6.0	14
1,791	1,733	58	3,000	1,981	301	595	123	77	691	12	136.2	458	15
952	.....	.....	4,156	.....	.....	.....	.....	.....	432	.....	72	.....	16
1,052	.....	.....	4,023	.....	.....	.....	.....	.....	435	.....	148	.....	17
19.4	18.8	0.6	9.1	7.2	.....	1.9	.....	3.1	23.5	14.3	278.5	180.6	18
1.9	.....	.....	12.4	.....	.....	.....	.....	.....	44.4	.....	43.6	.....	19
5.7	.....	.....	8.5	.....	.....	.....	.....	.....	38.6	.....	3.2	.....	20
0.6	0.6	.....	0.8	0.8	.....	.....	.....	2.0	3.8	.....	22.0	8.8	21
14.3	13.7	0.6	5.0	4.0	.....	1.0	.....	0.8	7.6	14.2	246.6	167.0	22
.....	.....	.....	3.2	2.3	.....	0.9	.....	0.1	11.4	0.1	6.2	3.9	23
4.5	4.5	.....	0.1	0.1	.....	.....	.....	0.2	0.7	.....	3.7	0.9	24
10	10	.....	13	3	4	6	.....	.....	3	.....	31	7	25
6	.....	.....	10	.....	.....	.....	.....	.....	3	.....	15	.....	26
8	.....	.....	25	.....	.....	.....	.....	.....	5	.....	.....	.....	27
2	2	.....	1	1	.....	.....	.....	.....	1	.....	3	2	28
7	7	.....	12	2	4	6	.....	.....	2	.....	9	1	29
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	4	30
5	4	1	16	4	3	9	.....	.....	5	.....	28	5	31
4	3	1	10	2	1	7	.....	.....	3	.....	28	5	32
.....	.....	.....	2	1	.....	1	.....	.....	2	.....	.....	.....	33
1	1	.....	4	1	2	1	.....	.....	.....	.....	.....	.....	34
1,606	1,605	(4)	130,974	80,402	2,505	48,067	.....	.....	803	.....	165	31	35
5	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	3	.....	36
1,609	.....	.....	148,829	.....	.....	.....	.....	.....	.....	.....	1,010	.....	37
3	3	.....	1	1	.....	.....	.....	.....	.....	.....	2	1	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	40
200	200	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	(4)	(4)	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	43
13	13	.....	12	10	.....	2	.....	1	.....	11	443	321	44
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	187	.....	45
6	.....	.....	3	.....	.....	.....	.....	.....	1	.....	15	.....	46
1,500	1,500	.....	3,118	1,688	.....	(4)	.....	(4)	.....	545	107,502	81,352	47
.....	.....	.....	13	.....	.....	.....	.....	.....	.....	.....	40,367	.....	48
475	.....	.....	386	.....	.....	.....	.....	.....	17	.....	1,369	.....	49
73	64	9	31	21	.....	10	.....	6	5	24	1,010	528	50
30	.....	.....	26	.....	.....	.....	.....	.....	3	.....	292	.....	51
876	798	78	364	198	.....	166	.....	65	26	122	7,882	3,889	52
385	.....	.....	823	.....	.....	.....	.....	.....	3	.....	2,032	.....	53
413	.....	.....	764	.....	.....	.....	.....	.....	36	.....	220	.....	54
6	5	1	7	1	.....	6	.....	4	4	20	446	259	55
45	43	(4)	166	(4)	.....	126	.....	12	24	91	2,768	1,438	56
63	55	8	16	12	.....	4	.....	2	1	4	552	263	57
825	749	76	185	145	.....	40	.....	(4)	(4)	31	5,040	2,425	58
4	4	.....	8	8	.....	.....	.....	.....	.....	.....	12	6	59
6	6	.....	13	13	.....	.....	.....	.....	.....	.....	74	26	60
73	64	9	29	19	.....	10	.....	6	7	25	1,012	528	61
30	.....	.....	26	.....	.....	.....	.....	.....	3	.....	311	.....	62
47	.....	.....	26	.....	.....	.....	.....	.....	5	.....	32	.....	63
68,453	61,318	7,135	20,931	8,546	.....	12,385	.....	362	585	3,016	382,816	157,046	64
40,420	.....	.....	36,331	.....	.....	.....	.....	.....	271	.....	160,749	.....	65
41,280	.....	.....	36,564	.....	.....	.....	.....	.....	755	.....	7,813	.....	66
46	38	8	21	13	.....	8	.....	5	4	8	850	451	67
60,080	52,970	7,110	18,493	7,458	.....	11,035	.....	812	455	1,935	332,056	142,305	68
1,306	1,394	889	881	574	.....	1,379	.....	162	114	242	391	316	69
15	15	.....	1	.....	.....	1	.....	.....	.....	4	55	21	70
7,595	7,595	.....	(4)	.....	.....	(4)	.....	.....	.....	645	41,405	8,748	71
506	506	.....	(4)	.....	.....	(4)	.....	.....	.....	161	753	417	72
7	6	1	4	4	.....	.....	.....	1	1	9	87	47	73
205	180	(4)	330	330	.....	.....	.....	(4)	(4)	340	6,536	3,893	74
29	30	(4)	82	82	.....	.....	.....	(4)	(4)	38	75	83	75
5	5	.....	3	2	.....	1	.....	.....	2	4	20	9	76
573	573	.....	1,358	(4)	.....	(4)	.....	.....	(4)	96	2,819	2,100	77
42	44	26	28	33	.....	20	.....	52	62	60	22	20	78
19	.....	.....	27	.....	.....	.....	.....	.....	32	.....	22	.....	79
25	.....	.....	38	.....	.....	.....	.....	.....	70	.....	24	.....	80
133	133	.....	29	37	.....	(4)	.....	(4)	.....	102	26	22	81
23	23	26	28	31	.....	23	.....	57	62	27	20	19	82

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Includes water wheels for which no horsepower was reported.

DRAINAGE BASIN TABLE II.— ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued						
		Willamette River—Continued						
		Calapooya River (30)	Santiam River (31)	Luckiamute River (32)	Yamhill River (33)	Molalla River (34)	Tualatin River (35)	Clackamas River (36)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises.....1940..number.....	29	86	23	99	141	116	41
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	27	128	54	29	32	37	17
3	Diversion dams.....1940..total number.....	4	10	8	18	31	35	6
4	1930..total number.....	.....	.....	.....	.....	.....	.....	.....
5	1920..total number.....	.....	.....	.....	.....	.....	.....	.....
6	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	2	2	4	.....
7	(b) Timber.....1940..number.....	3	6	2	14	14	17	.....
8	(c) Earth and rock.....1940..number.....	1	4	6	2	2	9	5
9	(d) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	13	5	1
10	Main canals and laterals.....1940..total length, miles.....	8.8	97.7	2.5	13.1	10.9	20.3	1.8
11	1930..total length, miles.....	.....	.....	.....	.....	.....	.....	.....
12	1920..total length, miles.....	.....	.....	.....	.....	.....	.....	.....
13	(a) Earth.....1940..length, miles.....	8	97	1	11	10	18	1
14	(b) Lined.....1940..length, miles.....	0.8	0.7	1.5	2.1	0.9	2.3	0.8
15	1940..capacity, c.f.s.[1].....	93	285	28	128	162	183	25
16	1930..capacity, c.f.s.[1].....	.....	.....	.....	.....	.....	.....	.....
17	1920..capacity, c.f.s.[1].....	.....	.....	.....	.....	.....	.....	.....
18	Pipe lines[2].....1940..total length, miles.....	5.6	14.4	3.0	16.1	25.7	25.8	7.3
19	1930..total length, miles.....	.....	.....	.....	.....	.....	.....	.....
20	1920..total length, miles.....	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete.....1940..length, miles.....	0.1	0.9	0.3	1.7	1.7	8.1	0.4
22	(b) Metal.....1940..length, miles.....	4.8	12.0	2.4	14.0	23.4	16.6	6.4
23	(c) Wood-stave.....1940..length, miles.....	0.1	0.2	0.3	0.1	0.5	1.1	.....
24	(d) Other.....1940..length, miles.....	0.6	1.3	.....	0.3	0.1	.....	0.5
25	Storage dams.....1940..total number.....	.....	.....	1	1	9	9	4
26	1930..total number.....	.....	.....	.....	.....	.....	.....	.....
27	1920..total number.....	.....	.....	.....	.....	.....	.....	.....
28	(a) Concrete and masonry.....1940..number.....	.....	.....	1	.....	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	.....	.....	.....	1	2	2	3
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	7	7	1
31	Reservoirs.....1940..total number.....	1	1	1	1	7	9	3
32	(a) 1-99 acre-feet capacity.....1940..number.....	1	1	1	1	7	9	3
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]..	(4)	(4)	(4)	(4)	28	82	16
36	1930..total number.....	.....	.....	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.....	.....	.....	.....	.....	.....	.....	.....
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	1	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	(4)	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	11	43	7	12	29	5	15
45	1930..number.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.....	2,080	11,049	3,500	3,895	4,231	197	1,198
48	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants.....1940..total number.....	26	76	19	71	152	102	36
51	1930..total number.....	.....	.....	.....	.....	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	190	539	249	846	878	1,117	174
53	1930..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric.....1940..number.....	6	25	3	22	47	60	24
56	1940..capacity, hp.....	27	132	48	132	230	659	102
57	(b) Internal-combustion.....1940..number.....	19	51	14	49	104	41	11
58	1940..capacity, hp.....	160	407	174	714	646	443	71
59	(c) Other[5].....1940..number.....	1	.....	2	.....	1	1	1
60	1940..capacity, hp.....	(4)	.....	(4)	.....	(4)	(4)	(4)
61	Pumps.....1940..total number.....	26	78	20	70	152	102	36
62	1930..number.....	.....	.....	.....	.....	.....	.....	.....
63	1920..number.....	.....	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.....	10,764	23,506	11,190	31,436	37,591	107,704	3,579
65	1930..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal.....1940..number.....	22	65	19	66	126	88	13
68	1940..capacity, g.p.m.....	9,029	19,566	10,110	29,306	34,950	84,630	2,160
69	1940..average capacity, g.p.m..	410	301	532	444	277	962	166
70	(b) Turbine.....1940..number.....	1	10	1	2	9	6	5
71	1940..capacity, g.p.m.....	(4)	3,460	(4)	(4)	1,606	22,600	911
72	1940..average capacity, g.p.m..	(4)	346	(4)	(4)	178	3,767	182
73	(c) Plunger.....1940..number.....	3	1	.....	2	12	7	15
74	1940..capacity, g.p.m.....	835	(4)	.....	(4)	904	314	480
75	1940..average capacity, g.p.m..	278	(4)	.....	(4)	75	45	32
76	(d) Other.....1940..number.....	.....	2	.....	.....	5	1	3
77	1940..capacity, g.p.m.....	.....	(4)	.....	.....	131	(4)	28
78	Pumping lift, from all sources.....1940..average, feet.....	16	15	31	27	18	25	53
79	1930..average, feet.....	.....	.....	.....	.....	.....	.....	.....
80	1920..average, feet.....	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells.....1940..average, feet.....	20	18	16	19	25	101	85
82	from surface sources...1940..average, feet.....	15	13	34	28	17	21	28

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] Total capacity of all reservoirs regardless of size.

WORKS, 1940, 1930, AND 1920—Continued

PACIFIC SLOPE										KLAMATH RIVER		
	Rogue River											
Total	Total	Direct	Little Butte Creek	Bear Creek	Evans Creek	Applegate River	Illinois River	Umpqua River	Other Pacific Slope streams	Total	Direct	
		(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)		(45)	
986	578	199	50	90	24	103	112	157	251	187	84	1
86	129	132	66	302	59	99	57	30	21	995	1,032	2
431	294	114	9	54	18	64	35	68	69	100	40	3
405	339	8	30	46	13	110	90	.....	66	67	6	4
335	257	8	13	29	22	55	87	.....	78	57	4	5
42	42	7	3	22	2	7	1	.....	.....	10	3	6
123	69	27	.....	5	4	21	12	19	35	46	20	7
181	148	67	6	27	11	22	15	13	20	26	15	8
85	35	13	.....	.....	1	14	7	36	14	18	2	9
1,067.5	976.7	366.0	46.3	306.6	20.6	134.1	103.1	55.9	34.9	822.8	323.9	10
1,188	1,129	137	316	169	16	201	106	.....	59	756	22	11
1,066	954	41	158	196	44	249	137	.....	112	555	43	12
1,029	944	351	45	297	20	133	98	52	33	812	322	13
38.5	32.7	15.0	1.3	9.6	0.6	1.1	5.1	3.9	1.9	10.8	1.9	14
2,326	1,867	680	178	242	37	357	373	197	262	6,607	3,184	15
1,813	1,710	322	172	327	49	461	237	.....	103	3,049	114	16
2,216	1,978	149	161	512	66	434	400	.....	238	3,162	62	17
118.6	39.0	20.5	0.3	15.0	0.9	1.2	1.1	29.3	50.3	10.5	4.5	18
16.3	10.0	5.4	2.1	0.6	.....	1.3	0.3	.....	6.3	3.5	0.1	19
23.7	20.5	7.1	0.8	6.3	0.5	2.1	1.0	.....	3.2	3.0	1.7	20
8.0	3.9	0.8	.....	2.7	0.2	0.2	.....	3.2	0.9	1.5	0.7	21
92.9	22.9	11.6	0.3	8.6	0.6	0.7	1.1	24.5	45.5	7.8	3.6	22
17.0	12.2	8.1	.....	3.7	0.1	0.3	.....	1.3	3.5	0.8	0.2	23
0.7	.....	.....	.....	.....	.....	.....	.....	0.3	0.4	0.4	.....	24
45	31	11	1	2	1	7	9	9	5	27	6	25
20	14	2	2	3	.....	6	1	.....	6	10	.....	26
26	18	.....	2	6	.....	4	3	.....	8	18	.....	27
10	10	2	.....	.....	1	.....	7	.....	.....	3	2	28
23	19	9	1	2	.....	5	2	1	3	22	3	29
12	2	.....	.....	.....	.....	2	.....	8	2	2	1	30
43	32	15	1	1	1	6	8	4	7	31	10	31
40	29	15	.....	.....	1	5	8	4	7	12	4	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	1	33
3	3	.....	1	1	.....	1	.....	.....	.....	8	5	34
21,714	21,624	227	(4)	(4)	(4)	1,132	13	16	74	654,954	552,558	35
16	11	1	2	3	.....	5	.....	.....	5	9	.....	36
45,948	45,924	5	21,000	24,225	.....	694	.....	.....	24	561,106	.....	37
4	2	1	.....	1	.....	.....	.....	.....	2	.....	.....	38
1	1	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	39
4	3	.....	.....	.....	.....	.....	.....	.....	1	1	.....	40
53	(4)	(4)	.....	(4)	.....	.....	.....	.....	(4)	.....	.....	41
2	2	.....	.....	.....	.....	.....	.....	.....	.....	41	.....	42
10,000	10,000	.....	.....	.....	.....	.....	.....	.....	.....	35	.....	43
37	21	11	.....	7	.....	.....	3	6	10	8	5	44
13	13	1	2	6	.....	1	.....	.....	.....	.....	.....	45
23	23	11	.....	9	.....	.....	2	.....	.....	2	.....	46
4,345	2,790	635	.....	1,425	.....	.....	730	1,125	430	2,040	800	47
6,292	6,292	1,800	540	3,780	.....	75	.....	.....	.....	.....	.....	48
11,499	11,499	6,964	.....	1,133	.....	.....	402	.....	.....	1,600	.....	49
362	118	77	3	27	2	4	5	83	161	131	44	50
91	70	30	3	17	5	8	.....	.....	21	56	17	51
5,246	3,596	3,352	7	131	(4)	25	71	629	1,021	4,309	1,404	52
4,817	4,501	4,132	7	79	63	175	.....	.....	316	3,620	440	53
789	723	347	9	120	77	93	32	.....	66	1,301	453	54
172	54	40	.....	12	.....	.....	2	31	87	107	34	55
1,491	898	836	.....	53	.....	.....	(4)	159	434	3,695	1,079	56
181	59	32	3	15	2	4	3	52	70	22	9	57
1,536	486	304	7	78	(4)	25	62	470	580	488	324	58
9	5	5	.....	.....	.....	.....	.....	.....	4	2	1	59
2,219	2,212	2,212	.....	.....	.....	.....	.....	.....	7	(4)	(4)	60
364	116	75	3	27	2	4	5	85	163	130	43	61
92	70	31	3	16	5	8	.....	.....	22	73	19	62
121	111	44	1	36	5	8	8	.....	10	36	15	63
194,352	122,682	103,108	1,650	12,719	(4)	1,690	2,690	31,639	40,031	323,971	121,705	64
99,809	73,224	49,645	550	6,510	1,150	12,825	.....	.....	26,585	309,289	34,147	65
41,852	38,147	16,597	.....	8,138	1,175	3,200	3,067	.....	3,705	62,475	30,755	66
306	96	61	3	22	1	4	5	69	141	91	29	67
186,848	118,496	102,097	1,650	9,769	(4)	1,690	2,690	29,667	38,685	224,669	65,985	68
611	1,234	1,674	550	444	(4)	422	538	430	274	2,469	2,275	69
7	4	1	.....	3	.....	.....	.....	2	1	25	8	70
3,160	2,650	(4)	.....	2,150	.....	.....	.....	(4)	(4)	46,145	11,210	71
451	662	(4)	.....	717	.....	.....	.....	(4)	(4)	1,846	1,401	72
40	11	10	.....	.....	1	.....	.....	12	17	6	1	73
3,176	638	413	.....	.....	(4)	.....	.....	1,582	956	257	(4)	74
79	58	41	.....	.....	(4)	.....	.....	132	56	43	(4)	75
11	5	3	.....	2	.....	.....	.....	2	4	8	5	76
1,168	898	98	.....	(4)	.....	.....	.....	(4)	260	52,900	44,500	77
22	22	27	10	11	(4)	14	14	25	21	21	21	78
28	30	36	38	16	43	38	.....	.....	19	30	33	79
28	26	30	23	23	29	26	11	.....	49	31	31	80
24	25	38	.....	15	.....	.....	10	20	26	36	33	81
22	21	26	10	10	(4)	14	15	26	20	19	19	82

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Includes water wheels for which no horsepower was reported.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	KLAMATH RIVER—Continued				SACRAMENTO RIVER	INDEPENDENT BASINS
		Upper Klamath Lake				Pit River	Malheur Lake
		Williamson River					
		Total	Direct (46)	Sprague River (47)	Lost River (48)	Goose Lake (49)	Total
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	31	8	23	72	90	158
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	1,191	675	1,370	867	267	714
3	Diversion dams....1940..total number	49	10	39	11	124	306
4	1930..total number	9	.....	9	13	.....	106
5	1920..total number	9	.....	9	8	.....	274
6	(a) Concrete and masonry....1940..number	1	1	.....	6	5	17
7	(b) Timber....1940..number	26	7	19	.....	42	73
8	(c) Earth and rock....1940..number	10	1	9	1	28	98
9	(d) Other, mixed, and not reported..1940..number	12	1	11	4	49	118
10	Main canals and laterals....1940..total length, miles	130.7	49.7	81.0	368.2	82.7	344.1
11	1930..total length, miles	38	.....	38	436	.....	157
12	1920..total length, miles	42	.....	42	303	.....	473
13	(a) Earth....1940..length, miles	127	49	78	363	80	344
14	(b) Lined....1940..length, miles	3.7	0.7	3.0	5.2	2.7	0.1
15	1940..capacity, c.f.s.[1]	1,156	243	913	2,267	761	2,312
16	1930..capacity, c.f.s.[1]	327	.....	327	1,008	.....	926
17	1920..capacity, c.f.s.[1]	212	.....	212	1,889	.....	1,513
18	Pipe lines[2]....1940..total length, miles	1.0	0.4	0.6	5.0	0.2	1.0
19	1930..total length, miles	0.5	.....	0.5	2.2	.....	.....
20	1920..total length, miles	.....	.....	.....	0.6	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	0.8	.....	0.2
22	(b) Metal....1940..length, miles	0.9	0.4	0.5	3.3	0.2	0.8
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	0.6	.....	.....
24	(d) Other, mixed, and not reported..1940..length, miles	0.1	.....	0.1	0.3	.....	.....
25	Storage dams....1940..total number	13	.....	13	8	3	6
26	1930..total number	6	.....	6	3	.....	4
27	1920..total number	5	.....	5	13	.....	79
28	(a) Concrete and masonry....1940..number	.....	.....	.....	1	.....	1
29	(b) Earth and rock....1940..number	13	.....	13	6	3	4
30	(c) Other....1940..number	.....	.....	.....	1	.....	1
31	Reservoirs....1940..total number	13	.....	13	8	5	6
32	(a) 1-99 acre-feet capacity....1940..number	6	.....	6	2	2	2
33	(b) 100-999 acre-feet capacity....1940..number	6	.....	6	4	.....	3
34	(c) 1,000 and over acre-feet capacity....1940..number	1	.....	1	2	3	1
35	1940..total capacity, ac.-ft.[3]	2,325	.....	2,325	100,071	70,005	4,832
36	1930..total number	6	.....	6	2	.....	.....
37	1930..total capacity, ac.-ft.	1,062	.....	1,062	560,000	.....	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	4	3
39	1930..number	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	.....	.....	.....	2
41	1940..yield, g.p.m.	.....	.....	.....	.....	35	30
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	12
44	Wells, pumped....1940..number	1	1	.....	2	3	4
45	1930..number	.....	.....	.....	.....	.....	6
46	1920..number	.....	.....	.....	2	.....	4
47	1940..yield, g.p.m.	(4)	(4)	.....	(4)	235	2,425
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	2,460
49	1920..yield, g.p.m.	.....	.....	.....	1,600	.....	1,650
50	Pumping plants....1940..total number	5	1	4	82	4	5
51	1930..total number	.....	.....	.....	26	.....	6
52	Prime movers....1940..capacity, hp.	87	(4)	86	2,818	6	70
53	1930..capacity, hp.	.....	.....	.....	2,480	.....	66
54	1920..capacity, hp.	.....	.....	.....	786	.....	32
55	(a) Electric....1940..number	1	1	.....	72	3	3
56	1940..capacity, hp.	(4)	(4)	.....	2,615	3	50
57	(b) Internal-combustion....1940..number	4	.....	4	9	1	2
58	1940..capacity, hp.	86	.....	86	78	(4)	(4)
59	(c) Other[5]....1940..number	.....	.....	.....	[6] 1	.....	.....
60	1940..capacity, hp.	.....	.....	.....	125	.....	.....
61	Pumps....1940..total number	5	1	4	82	4	5
62	1930..number	.....	.....	.....	38	.....	7
63	1920..number	.....	.....	.....	16	.....	6
64	1940..capacity, g.p.m.	13,070	(4)	13,000	189,196	241	4,200
65	1930..capacity, g.p.m.	.....	.....	.....	207,742	.....	2,950
66	1920..capacity, g.p.m.	.....	.....	.....	21,100	.....	1,815
67	(a) Centrifugal....1940..number	3	.....	3	59	3	2
68	1940..capacity, g.p.m.	5,000	.....	5,000	153,684	235	(4)
69	1940..average capacity, g.p.m.	1,667	.....	1,667	2,605	78	(4)
70	(b) Turbine....1940..number	.....	.....	.....	17	.....	3
71	1940..capacity, g.p.m.	.....	.....	.....	34,935	.....	2,100
72	1940..average capacity, g.p.m.	.....	.....	.....	2,055	.....	700
73	(c) Plunger....1940..number	1	1	.....	4	1	.....
74	1940..capacity, g.p.m.	(4)	(4)	.....	177	(4)	.....
75	1940..average capacity, g.p.m.	(4)	(4)	.....	44	(4)	.....
76	(d) Other....1940..number	1	.....	1	2	.....	.....
77	1940..capacity, g.p.m.	(4)	.....	(4)	(4)	.....	.....
78	Pumping lift, from all sources....1940..average, feet	9	(4)	9	22	21	45
79	1930..average, feet	.....	.....	.....	33	.....	23
80	1920..average, feet	.....	.....	.....	22	.....	18
81	from pumped wells....1940..average, feet	(4)	(4)	.....	(4)	21	61
82	from surface sources...1940..average, feet	9	.....	9	20	.....	12

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] Total capacity of all reservoirs regardless of size.

WORKS, 1940, 1930, AND 1920—Continued

INDEPENDENT BASINS—Continued													
Malheur Lake—Continued											Quinn River		
	Harney Lake												
Silvies River	Total	Direct	Silver Creek	Donner und Blitzen River	Benjamin Lake	Silver Lake	Summer Lake	Lake Abert	Cowhead and Warner Lakes	Trout Creek	McDermitt Creek	Tennile Creek	
(50)		(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(61)	(62)	
107	10	3	7	41	3	14	8	20	52	38	7	11	1
750	1,475	490	1,897	434	57	1,044	603	1,435	748	279	430	381	2
186	15	2	13	105	4	11	12	68	79	80	16	27	3
102	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	4
206	24	.....	24	44	.....	.....	.....	.....	.....	.....	.....	.....	5
13	.....	.....	.....	4	.....	.....	.....	.....	9	14	2	.....	6
39	9	.....	9	25	.....	2	.....	18	8	2	.....	.....	7
47	5	2	3	46	4	3	1	7	45	34	7	27	8
87	1	.....	1	30	.....	6	11	43	17	30	7	.....	9
279.1	26.0	.....	26.0	39.0	.....	11.6	11.1	46.0	70.6	48.0	22.0	40.0	10
98	.....	.....	.....	59	.....	.....	.....	.....	.....	.....	.....	.....	11
274	41	.....	41	158	.....	.....	.....	.....	.....	.....	.....	.....	12
279	26	.....	26	39	.....	11	11	46	69	48	22	40	13
0.1	.....	.....	.....	.....	.....	0.6	0.1	.....	1.6	.....	.....	.....	14
1,055	246	42	204	1,011	9	114	114	1,214	646	221	32	82	15
622	.....	.....	.....	304	.....	.....	.....	.....	.....	.....	.....	.....	16
876	398	.....	398	239	.....	.....	.....	.....	.....	.....	.....	.....	17
.....	0.2	.....	0.2	0.8	.....	.....	0.6	.....	2.7	0.2	.....	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	0.2	.....	.....	.....	.....	1.2	.....	.....	.....	21
.....	0.2	.....	0.2	0.6	.....	.....	0.1	.....	1.5	0.2	.....	.....	22
.....	.....	.....	.....	.....	.....	.....	0.5	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
2	3	1	2	1	.....	1	3	1	13	2	.....	.....	25
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
72	1	.....	1	6	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	28
1	3	1	2	.....	.....	1	3	1	13	.....	.....	.....	29
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	30
2	3	1	2	1	.....	1	3	1	12	2	.....	.....	31
1	1	.....	1	.....	.....	.....	3	.....	1	1	.....	.....	32
.....	2	1	1	1	.....	.....	.....	1	3	1	.....	.....	33
1	.....	.....	.....	.....	.....	1	.....	.....	8	.....	.....	.....	34
(4)	660	(4)	(4)	(4)	.....	(4)	85	(4)	15,042	(4)	.....	.....	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
.....	2	1	1	1	.....	.....	2	2	2	47	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	1,653	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	2	.....	2	10	.....	.....	.....	.....	.....	.....	.....	.....	43
4	.....	.....	.....	.....	1	4	1	.....	.....	.....	.....	.....	44
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
2	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
2,425	.....	.....	.....	.....	(4)	3,550	(4)	.....	.....	.....	.....	.....	47
2,460	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
1,200	450	.....	450	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
5	.....	.....	.....	.....	1	4	1	.....	3	.....	.....	.....	50
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
70	.....	.....	.....	.....	(4)	75	(4)	.....	82	.....	.....	.....	52
66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
26	6	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
2	.....	.....	.....	.....	1	4	1	.....	3	.....	.....	.....	57
(4)	.....	.....	.....	.....	(4)	75	(4)	.....	82	.....	.....	.....	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
5	.....	.....	.....	.....	1	4	1	.....	3	.....	.....	.....	61
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
2	3	.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	63
4,200	.....	.....	.....	.....	(4)	4,400	(4)	.....	12,000	.....	.....	.....	64
2,950	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65
1,265	550	.....	550	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
2	.....	.....	.....	.....	1	.....	.....	.....	3	.....	.....	.....	67
(4)	.....	.....	.....	.....	(4)	.....	.....	.....	12,000	.....	.....	.....	68
(4)	.....	.....	.....	.....	(4)	.....	.....	.....	4,000	.....	.....	.....	69
3	.....	.....	.....	.....	.....	4	1	.....	.....	.....	.....	.....	70
2,100	.....	.....	.....	.....	.....	4,400	(4)	.....	.....	.....	.....	.....	71
700	.....	.....	.....	.....	.....	1,100	(4)	.....	.....	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
45	.....	.....	.....	.....	(4)	32	(4)	.....	4	.....	.....	.....	78
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
22	15	.....	15	16	.....	.....	.....	.....	.....	.....	.....	.....	80
61	.....	.....	.....	.....	(4)	32	(4)	.....	.....	.....	.....	.....	81
12	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	82

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Includes water wheels for which no horsepower was reported.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Baker		Benton	Clackamas	Columbia
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[4]							
1	All farms....1940...number....	61,829		1,259		1,507	5,475	2,060
2	1930...number....	55,153		1,383		1,340	4,747	1,667
3	Irrigated farms....1940...number....	16,159		1,050		110	196	16
4	1930...number....	11,387		1,113		21	61	5
5	Increase or decrease (-), 1930-1940....percent....	41.9		-5.7		423.8	284.3	220.0
	Operated by—							
6	(a) Owners and managers....1940...number....	13,345		759		90	159	16
7	1930...number....	9,339		824		16	41	.....
8	(b) Tenants....1940...number....	2,814		291		20	37	.....
9	1930...number....	2,048		289		5	10	.....
10	Land in all farms....1940...acres....	17,988,307		795,435		221,054	301,231	138,085
11	Land in irrigated farms....1940...acres....	8,730,104		636,368		19,903	15,410	3,818
12	Average per farm....1940...acres....	540		606		181	79	239
13	(a) Operated by owners and managers....1940...acres....	7,968,948		556,424		17,694	13,384	3,818
14	Average per farm....1940...acres....	597		733		197	84	239
15	(b) Operated by tenants....1940...acres....	761,156		79,944		2,209	2,035	.....
16	Average per farm....1940...acres....	270		275		110	55	.....
17	Approximate land area....1940...acres....	61,664,000		1,973,760		414,080	1,209,600	413,440
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	1,049,176		121,591		1,251	2,278	648
19	(a) Cropland harvested....1939...acres....	790,925		94,887		856	1,643	160
20	(b) Crop failure....1939...acres....	13,781		974		1	.....	.....
21	(c) Pasture....1939...acres....	244,470		25,730		394	635	488
22	Area irrigated....1929...acres....	898,713		119,478		171	566	.....
23	1919...acres....	986,162		171,490		.....	.....	.....
24	Increase or decrease (-), 1929-1939....percent....	16.7		1.8		631.6	302.5	.....
25	Irrigable area in enterprises....1940...acres....	1,441,417		162,647		2,068	4,153	739
26	1930...acres....	1,478,128		159,981		380	999	.....
27	1920[2]...acres....	1,925,987		259,361		.....	.....	.....
28	Excess of irrigable area over the area irrigated...1940...acres....	392,241		41,056		817	1,875	91
29	1930...acres....	579,415		40,503		209	433	.....
30	Area works were capable of supplying with water...1940...acres....	1,261,081		136,875		1,963	3,775	735
31	1930...acres....	1,158,210		134,621		238	989	.....
32	1920...acres....	1,344,046		218,671		.....	.....	.....
33	Increase or decrease (-), 1930-1940....percent....	8.9		1.7		724.8	281.7	.....
34	Excess, capability of works over area irrigated...1940...acres....	211,905		15,284		712	1,497	87
35	1930...acres....	259,497		15,143		67	423	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	12.0		19.1		6.3	14.8	17.0
37	1929...percent....	14.2		21.2		5.2	22.7	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	83.2		88.8		63.7	60.3	88.2
39	1929...percent....	77.6		88.8		71.8	57.2	.....
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	50,961,251		1,909,544		52,091	119,540	10,925
41	(a) Cost of irrigation works and equipment....1940...dollars....	50,399,668		1,900,861		51,674	118,400	10,840
42	(b) Investment in water rights (reported)....1940...dollars....	561,583		8,683		417	1,140	85
43	Total investment in all enterprises....1930...dollars....	38,754,548		1,533,692		8,215	26,230	.....
44	1920...dollars....	28,929,151		2,153,639		.....	.....	.....
45	Increase or decrease (-), 1930-1940....percent....	31.5		24.5		534.1	355.7	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	40.41		13.95		26.54	31.67	14.86
47	1930...dollars....	33.46		11.39		34.52	26.52	.....
48	1920...dollars....	21.52		9.85		.....	.....	.....
49	Average investment per acre irrigated....1939...dollars....	48.57		15.70		41.64	52.48	16.86
50	Estimated final investment in existing enterprises...1940...dollars....	53,884,430		1,964,785		57,286	130,202	11,425
51	1930...dollars....	60,039,939		1,722,042		9,415	26,580	.....
52	1920...dollars....	41,585,742		2,941,589		.....	.....	.....
53	Increase or decrease (-), 1930-1940....percent....	-10.3		14.1		508.5	389.8	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	37.38		12.08		27.70	31.35	15.46
55	1930...dollars....	40.62		10.76		24.78	26.61	.....
56	1920[2]...dollars....	21.59		11.34		.....	.....	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises			
57	Enterprises reporting maintenance and operation...1939...number....	5,192	86	529	8	75	144	12
58	Area irrigated in these enterprises....1939...acres....	982,940	97,643	103,045	18,950	1,187	2,217	648
59	Cost of maintenance and operation....1939...dollars....	1,157,018	71,049	41,059	3,014	6,460	10,029	1,986
60	Average cost, per acre irrigated....1939...dollars....	1.18	0.73	0.40	0.16	5.44	4.52	3.06
61	1929...dollars....	1.41	.....	0.60	.....	4.82	5.12	.....
62	Total annual charges (reported)[4 5]....1939...dollars....	921,724	72,521	23,049	10,309	.....	916	.....
63	Average annual charge per acre irrigated....1939...dollars....	1.77	0.76	0.42	0.56	.....	1.00	.....
64	Area against which charges were assessed....1939...acres....	587,585	98,976	56,153	18,546	.....	1,217	.....
65	Average annual charge per acre assessed....1939...dollars....	1.57	0.73	0.41	0.56	.....	0.75	.....
66	Total charges collected[4]....1939...dollars....	920,583	8,967	14,407	8,510	.....	347	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	13,560,102	769,666	48,455	592,500	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	5,354	73	551	8	72	133	12
69	Area irrigated in these enterprises....1939...acres....	925,920	80,969	94,587	18,950	1,102	2,104	648
70	Water delivered in these enterprises....1939...acre-feet..	3,020,606	176,182	213,132	24,298	2,521	3,640	958
71	Average water delivered per acre irrigated....1939...acre-feet..	3.3	2.2	2.3	1.3	2.3	1.7	1.5
72	Average cost of water per acre irrigated....1939...dollars....	1.35	0.94	0.38	0.55	5.78	4.79	3.06
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	275	.....	7	.....	3	13	1
74	Irrigable area in these enterprises....1939...acres....	338,991	.....	704	.....	59	1,179	(3)
75	Irrigated area in these enterprises....1939...acres....	265,771	.....	580	.....	37	645	(3)
76	Area for which drains have been installed....1939...acres....	126,698	.....	51	.....	27	156	.....
77	Additional area needing drainage....1939...acres....	18,786	.....	25	.....	12	56	(3)

[4] Census of Agriculture.
[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

[Irrigation data omitted from any of the counties listed are included under "All other counties"]

Coos	Crook	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River		Jackson		Jefferson	Josephine	Klamath		
1,953	495	1,047	2,734	292	580	436	1,142		2,702		227	1,944	1,552		1
1,305	489	824	2,488	353	632	603	967		2,214		335	1,164	1,197		2
136	400	940	243	76	473	294	1,037		1,577		54	1,256	1,045		3
9	324	712	125	49	358	213	906		1,384		39	740	753		4
(1)	23.5	32.0	94.4	55.1	32.1	38.0	14.5		13.9		38.5	69.7	38.8		5
120	331	757	214	61	412	252	923		1,371		46	1,108	902		6
.....	237	584	111	41	318	164	845		1,249		33	658	626		7
16	69	183	29	15	61	42	114		206		8	148	143		8
.....	87	128	14	8	40	49	61		135		6	82	127		9
282,375	817,898	185,146	625,632	812,636	913,606	874,450	39,666		316,394		697,232	125,206	773,522		10
32,777	650,733	128,762	59,342	193,465	798,802	711,423	34,039		207,149		324,371	75,433	595,182		11
241	1,627	137	244	2,546	1,689	2,420	33		131		6,007	60	570		12
30,400	613,378	109,253	49,530	180,623	749,263	648,887	30,448		182,739		322,533	65,352	555,635		13
253	1,853	144	231	2,961	1,819	2,575	33		133		7,012	59	616		14
2,377	37,355	19,509	9,812	12,842	49,539	62,536	3,591		24,410		1,838	10,081	39,547		15
149	541	107	338	856	812	1,489	32		118		230	68	277		16
1,031,040	1,907,200	1,946,240	3,239,680	775,040	2,900,480	6,484,480	338,560		1,802,880		1,148,160	1,040,000	3,822,720		17
1,373	42,015	51,122	2,947	1,891	42,016	100,065	25,074		45,284		3,462	20,336	145,157		18
460	37,399	48,481	2,129	1,769	34,229	62,493	24,180		35,139		2,133	14,571	91,755		19
.....	.....	290	17	.....	.....	347	1		39		42	40	1,584		20
913	4,616	2,351	801	122	7,787	37,225	893		10,106		1,287	5,725	51,818		21
.....	35,810	48,056	1,445	1,589	35,895	126,496	22,370		40,213		5,207	19,475	125,049		22
.....	42,708	57,293	1,901	3,298	32,409	119,429	19,765		24,002		3,320	14,903	90,993		23
.....	17.3	6.4	103.9	19.0	17.1	-20.9	12.1		12.6		-33.5	4.4	16.1		24
2,173	48,305	62,311	5,299	2,503	44,795	141,533	30,983		52,159		4,704	25,904	215,235		25
.....	47,088	94,336	3,128	2,285	38,997	205,933	31,240		52,854		5,529	29,867	197,097		26
.....	62,449	176,387	8,370	4,621	42,079	224,301	39,660		107,195		6,171	25,127	239,478		27
800	6,290	11,189	2,352	612	2,779	41,468	5,909		6,875		1,242	5,568	70,078		28
.....	11,278	46,280	1,683	696	3,102	79,437	8,870		12,641		322	10,392	72,048		29
1,962	44,070	53,839	4,799	2,390	43,885	139,969	27,411		50,422		4,664	24,940	168,328		30
.....	44,829	82,984	2,830	1,834	38,699	153,832	28,352		50,448		5,475	25,140	168,434		31
.....	52,757	106,246	3,328	3,810	38,728	157,588	21,101		34,931		3,943	18,294	135,449		32
.....	-1.7	-35.1	69.6	30.3	13.4	-9.0	-3.3		-0.1		-14.8	-0.8	-0.1		33
589	2,055	2,717	1,852	499	1,869	39,904	2,337		5,138		1,202	4,604	23,171		34
.....	9,019	34,928	1,385	245	2,804	27,336	5,982		10,235		268	5,665	43,385		35
4.2	6.5	39.7	5.0	1.0	5.3	14.1	73.7		21.9		1.1	27.0	24.4		36
.....	7.9	50.6	2.4	1.8	6.2	32.1	66.3		23.6		1.5	33.2	38.3		37
70.0	95.3	95.0	61.4	79.1	95.7	71.5	91.5		89.8		74.2	81.5	86.2		38
.....	79.9	57.9	51.1	86.6	92.8	82.2	78.9		79.7		95.1	77.5	74.2		39
65,213	846,604	2,576,293	115,126	38,071	339,071	516,925	873,419		3,428,249		69,581	1,604,573	5,067,488		40
64,134	843,953	2,576,268	113,680	37,706	332,373	499,946	864,251		3,406,382		69,568	1,599,945	4,897,487		41
1,079	2,651	25	1,446	365	6,698	16,979	9,168		21,867		13	4,628	170,001		42
.....	2,859,630	2,625,021	73,520	50,306	275,763	2,013,634	957,875		3,408,561		49,565	1,750,516	5,298,971		43
.....	1,789,917	2,758,084	188,894	110,909	261,332	1,280,776	807,142		1,462,938		84,300	265,575	3,802,551		44
.....	-70.4	-1.9	56.6	-24.3	23.0	-74.3	-8.8		0.6		40.4	-8.3	-4.4		45
33.24	19.21	47.85	23.99	15.93	7.73	3.69	31.86		67.99		14.92	64.34	30.10		46
.....	63.79	31.63	25.98	27.43	7.12	13.09	33.78		67.56		9.05	69.63	31.46		47
.....	33.93	25.96	56.76	29.11	6.75	8.13	38.25		41.88		21.38	14.52	28.07		48
47.50	20.15	50.39	39.07	20.13	8.07	5.17	34.83		75.71		20.10	78.90	34.91		49
73,801	860,854	2,576,353	128,858	44,346	339,106	530,935	923,844		3,501,784		74,891	1,622,102	6,754,268		50
.....	3,061,630	2,652,421	74,470	62,906	277,117	2,368,534	1,037,175		3,418,426		50,665	1,780,366	6,604,003		51
.....	2,115,043	4,747,115	294,994	111,409	266,507	2,036,296	1,174,817		4,807,783		85,943	285,645	5,566,847		52
.....	-71.9	-2.9	73.0	-29.5	22.4	-77.6	-10.9		2.4		47.8	-8.9	2.3		53
33.96	17.82	41.35	24.32	17.72	7.57	3.75	29.82		67.14		15.92	62.62	31.38		54
.....	65.02	28.12	23.81	27.53	7.11	11.50	33.20		64.68		9.16	59.61	33.51		55
.....	33.87	26.91	35.24	24.11	6.33	9.08	29.62		44.85		13.93	11.37	23.25		56
							Primary Enterprises	Sup.	Primary Enterprises	Sup.			Primary Enterprises	Sup.	
94	129	16	147	50	397	245	55	1	287	.....	32	247	148	6	57
1,293	40,817	49,033	2,815	1,674	41,429	96,689	24,717	(3)	44,161	.....	3,298	19,790	136,236	41,480	58
7,784	32,815	74,062	8,307	2,886	19,153	24,427	39,650	(3)	109,838	.....	2,541	78,178	159,417	42,228	59
6.02	0.80	1.51	2.95	1.72	0.46	0.25	1.60	(3)	2.49	.....	0.77	3.95	1.17	1.02	60
.....	1.56	1.92	3.17	3.12	0.52	0.52	2.42	.....	3.88	.....	0.81	3.36	1.03	.....	61
.....	67,315	119,849	489	25	1,810	793	66,605	.....	130,526	.....	661	82,230	175,133	41,666	62
.....	3.01	2.47	0.78	0.10	0.48	0.16	2.79	.....	3.73	.....	0.79	6.64	1.98	1.01	63
.....	23,705	56,027	703	246	3,867	4,865	28,676	.....	36,963	.....	863	14,770	93,950	41,282	64
.....	2.84	2.14	0.70	0.10	0.47	0.16	2.32	.....	3.53	.....	0.77	5.57	1.86	1.01	65
.....	52,102	108,356	163	.....	67	137	69,591	.....	182,910	.....	520	88,387	168,224	457	66
.....	329,416	1,523,135	.....	.....	.....	4,500	191,146	.....	923,414	.....	2,080	312,792	1,904,668	.....	67
100	128	14	150	59	401	241	77	1	296	1	37	264	143	4	68
1,256	41,589	48,944	2,701	1,891	39,965	89,992	25,054	(3)	41,093	(3)	3,205	20,104	130,380	39,445	69
1,508	118,281	260,775	4,229	4,570	114,618	197,671	78,708	(3)	99,870	(3)	6,537	103,608	400,342	78,729	70
1.2	2.8	5.3	1.6	2.4	2.9	2.2	3.1	(3)	2.4	(3)	2.0	5.2	3.1	2.0	71
6.29	1.93	2.47	3.11	1.71	0.45	0.26	2.76	(3)	3.19	.....	0.93	4.59	1.52	1.06	72
7	2	.....	5	.....	4	1	14	.....	3	.....	.....	2	36	.....	73
224	(3)	.....	203	.....	352	(3)	230	.....	12,277	.....	.....	(3)	112,758	.....	74
170	(3)	.....	59	.....	352	(3)	203	.....	11,723	.....	.....	(3)	86,166	.....	75
112	(3)	.....	7	.....	172	.....	58	.....	404	.....	.....	(3)	71,955	.....	76
1	(3)	.....	70	.....	.....	(3)	13	.....	182	.....	.....	(3)	8,004	.....	77

[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	484	4,454	972	3,325	2,545	4,785	540
2	1930...number....	485	4,069	732	3,074	1,345	4,821	628
3	Irrigated farms....1940...number....	317	370	30	191	2,258	307	259
4	1930...number....	276	122	5	18	1,042	166	250
5	Increase or decrease (-), 1930-1940....percent....	14.9	203.3	500.0	961.1	116.7	84.9	3.6
	Operated by—							
6	(a) Owners and managers....1940...number....	264	321	24	158	1,787	220	204
7	1930...number....	226	110	.....	.....	732	118	199
8	(b) Tenants....1940...number....	53	49	6	33	471	87	55
9	1930...number....	50	12	.....	.....	310	48	51
10	Land in all farms....1940...acres....	863,205	509,056	110,735	484,800	900,641	376,815	968,362
11	Land in irrigated farms....1940...acres....	698,326	46,785	5,972	33,435	666,098	37,458	511,961
12	Average per farm....1940...acres....	2,203	126	199	175	295	122	1,977
13	(a) Operated by owners and managers....1940...acres....	601,290	37,974	5,017	28,936	585,490	29,688	476,301
14	Average per farm....1940...acres....	2,278	118	209	183	328	135	2,335
15	(b) Operated by tenants....1940...acres....	97,036	8,811	955	4,499	80,608	7,770	35,660
16	Average per farm....1940...acres....	1,831	180	159	136	171	89	648
17	Approximate land area....1940...acres....	5,292,800	2,940,160	643,840	1,468,160	6,316,800	750,720	1,317,760
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	110,339	4,732	242	2,093	153,843	6,641	10,196
19	(a) Cropland harvested....1939...acres....	66,430	3,558	129	1,612	130,574	5,938	9,655
20	(b) Crop failure....1939...acres....	.....	7	.....	9	5,882	6	55
21	(c) Pasture....1939...acres....	43,909	1,167	113	472	17,387	697	486
22	Area irrigated....1929...acres....	70,417	1,104	.....	.....	93,008	1,475	11,898
23	1919...acres....	99,220	.....	.....	.....	109,463	.....	10,031
24	Increase or decrease (-), 1929-1939....percent....	56.7	328.6	.....	.....	65.4	350.2	-14.3
25	Irrigable area in enterprises....1940...acres....	126,432	24,247	469	6,063	197,842	67,138	13,346
26	1930...acres....	103,876	20,151	.....	.....	263,237	3,017	16,075
27	1920[3]...acres....	183,997	.....	.....	.....	219,475	.....	19,941
28	Excess of irrigable area over the area irrigated...1940...acres....	16,093	19,515	227	3,970	43,999	60,497	3,150
29	1930...acres....	33,459	19,047	.....	.....	170,229	1,542	4,177
30	Area works were capable of supplying with water...1940...acres....	124,740	10,493	404	5,684	196,848	11,822	12,670
31	1930...acres....	94,317	2,719	.....	.....	145,757	1,938	15,865
32	1920...acres....	149,467	.....	.....	.....	143,266	.....	15,561
33	Increase or decrease (-), 1930-1940....percent....	32.3	285.9	.....	.....	35.1	510.0	-20.1
34	Excess, capability of works over area irrigated...1940...acres....	14,401	5,761	162	3,591	43,005	5,181	2,474
35	1930...acres....	23,900	1,615	.....	.....	52,749	463	3,967
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	15.8	10.1	4.1	6.3	23.1	17.7	2.0
37	1929...percent....	14.4	9.4	.....	.....	23.0	11.7	1.8
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	88.5	45.1	59.9	36.8	78.2	56.2	80.5
39	1929...percent....	74.7	40.6	.....	.....	63.8	76.1	75.0
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	2,621,301	369,768	6,029	112,588	21,841,296	259,217	1,164,589
41	(a) Cost of irrigation works and equipment....1940...dollars....	2,545,546	326,684	5,894	112,000	21,742,707	253,218	1,164,237
42	(b) Investment in water rights (reported)....1940...dollars....	75,755	43,084	135	588	98,589	5,999	352
43	Total investment in all enterprises....1930...dollars....	2,318,721	111,151	.....	.....	9,688,384	101,050	1,008,907
44	1920...dollars....	3,504,761	.....	.....	.....	4,057,373	.....	1,393,045
45	Increase or decrease (-), 1930-1940....percent....	13.0	232.7	.....	.....	125.4	156.5	15.4
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	21.01	35.24	14.92	19.81	110.96	21.93	91.92
47	1930...dollars....	24.58	40.88	.....	.....	66.47	52.14	63.59
48	1920...dollars....	23.45	.....	.....	.....	28.32	.....	89.52
49	Average investment per acre irrigated....1939...dollars....	23.76	78.14	24.91	53.79	141.97	39.03	114.22
50	Estimated final investment in existing enterprises...1940...dollars....	2,644,941	442,910	6,929	185,817	22,419,756	265,957	1,166,589
51	1930...dollars....	2,323,346	262,661	.....	.....	27,903,254	109,915	1,011,377
52	1920...dollars....	3,896,381	.....	.....	.....	4,835,543	.....	1,628,878
53	Increase or decrease (-), 1930-1940....percent....	13.8	68.6	.....	.....	-19.7	142.0	15.3
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	20.92	18.27	14.77	30.65	113.32	3.96	87.41
55	1930...dollars....	22.37	13.03	.....	.....	106.00	36.43	62.92
56	1920[3]...dollars....	21.18	.....	.....	.....	22.03	.....	81.68
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					Primary Enterprises	Sup. Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	147	269	20	100	285	6	139	87
58	Area irrigated in these enterprises....1939...acres....	99,776	4,516	195	1,907	148,995	11,814	5,988	9,678
59	Cost of maintenance and operation....1939...dollars....	31,613	29,345	599	9,433	271,431	8,135	26,549	11,591
60	Average cost, per acre irrigated....1939...dollars....	0.32	6.50	3.07	4.95	1.82	0.69	4.43	1.20
61	1929...dollars....	0.92	10.46	.....	.....	2.66	.....	10.60	1.66
62	Total annual charges (reported)[4] [5]....1939...dollars....	13,663	4,512	.....	.....	128,128	7,715	5,518	7,630
63	Average annual charge per acre irrigated....1939...dollars....	1.26	5.19	.....	.....	1.09	0.66	1.96	1.52
64	Area against which charges were assessed....1939...acres....	11,250	1,470	.....	.....	146,723	11,690	3,655	6,448
65	Average annual charge per acre assessed....1939...dollars....	1.21	3.07	.....	.....	0.87	0.66	1.51	1.18
66	Total charges collected[4]....1939...dollars....	15,693	2,100	.....	.....	120,130	.....	.....	7,020
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	371,360	85,000	.....	.....	5,809,038	.....	50,724	552,743
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number....	131	288	21	99	298	4	156	93
69	Area irrigated in these enterprises....1939...acres....	73,346	4,549	237	2,011	146,150	11,788	6,195	9,915
70	Water delivered in these enterprises....1939...acre-feet....	228,039	5,358	264	2,067	612,002	21,255	12,411	43,084
71	Average water delivered per acre irrigated....1939...acre-feet....	3.1	1.2	1.1	1.0	4.2	1.8	2.0	4.3
72	Average cost of water per acre irrigated....1939...dollars....	0.39	6.67	3.13	5.06	1.00	0.68	4.57	1.29
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number....	4	5	3	.....	38	.....	37	[6]1
74	Irrigable area in these enterprises....1939...acres....	19,161	119	110	.....	142,435	.....	606	6,732
75	Irrigated area in these enterprises....1939...acres....	19,070	116	36	.....	108,763	.....	492	4,914
76	Area for which drains have been installed....1939...acres....	4,850	19	56	.....	43,354	.....	499	.....
77	Additional area needing drainage....1939...acres....	58	14	14	.....	5,833	.....	16	1,900

*Census of Agriculture.
[1]Data between census years not comparable (see headnote).
[2]Percent not shown when more than 1,000.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill	All other counties[1]	
2,260	1,743	343	960	2,312	1,255	989	1,007	4,348	249	2,817	1,036	1
1,733	1,882	369	811	2,265	1,276	952	1,076	3,917	284	2,690	1,036	2
87	83	20	81	1,325	554	618	345	111	151	128	21	3
76	12	8	17	1,166	491	459	293	47	122	10	5	4
14.5	591.7	150.0	376.5	13.6	12.8	34.6	17.7	136.2	23.8	(2)	320.0	5
58	70	11	64	1,063	470	479	284	97	135	97	18	6
.....	9	.....	.....	962	398	339	241	.....	114	.....	144	7
29	13	9	17	262	84	139	61	14	16	31	3	8
.....	3	.....	.....	204	93	120	52	.....	8	.....	56	9
79,770	222,622	462,375	90,259	1,608,180	471,173	579,063	875,843	244,957	772,850	290,947	156,086	10
6,594	18,118	14,371	10,924	778,711	217,013	302,604	242,257	13,454	612,760	20,325	5,952	11
76	218	719	135	588	392	490	702	121	4,058	159	283	12
4,122	15,756	9,559	8,562	742,359	201,725	262,664	212,801	12,234	583,877	15,928	5,304	13
71	225	869	134	698	429	548	749	126	4,325	164	295	14
2,472	2,362	4,812	2,362	36,352	15,288	39,940	29,456	1,220	28,883	4,397	648	15
85	182	535	139	139	182	287	483	87	1,805	142	216	16
271,360	472,960	531,200	713,600	2,067,840	1,300,480	2,033,920	1,527,680	458,240	1,092,480	453,760	1,562,880	17
823	3,018	202	1,763	46,907	29,691	49,123	8,945	3,114	7,517	3,255	222	18
691	2,394	193	396	36,174	25,349	35,751	7,832	2,479	6,833	2,529	124	19
19	3	7	.....	4,256	14	.....	122	15	39	12	.....	20
113	621	2	1,367	6,477	4,328	13,372	991	620	645	714	98	21
.....	635	.....	.....	39,968	38,379	43,146	9,559	.....	6,351	.....	953	22
.....	.....	.....	.....	56,050	53,183	52,445	9,382	.....	7,475	.....	7,402	23
.....	375.3	.....	.....	17.4	-22.6	13.9	-6.4	.....	18.4	.....	-76.7	24
1,202	4,482	242	2,107	62,515	39,251	53,658	17,179	4,487	10,030	4,913	303	25
.....	933	.....	.....	60,932	41,846	49,226	40,044	.....	7,691	.....	1,386	26
.....	.....	.....	.....	104,015	69,414	64,513	48,742	.....	11,005	.....	9,686	27
379	1,464	40	344	15,608	9,560	4,535	8,234	1,373	2,513	1,658	81	28
.....	298	.....	.....	20,964	3,467	6,080	30,485	.....	1,340	.....	433	29
1,114	4,175	229	1,960	60,001	37,638	53,406	11,927	4,180	9,167	4,303	293	30
.....	775	.....	.....	49,550	40,874	47,642	11,536	.....	7,413	.....	1,119	31
.....	.....	.....	.....	91,543	61,444	56,601	13,611	.....	8,692	.....	9,015	32
.....	438.7	.....	.....	21.1	-7.9	12.1	3.4	.....	23.7	.....	-73.8	33
291	1,157	27	197	13,094	7,947	4,283	2,982	1,066	1,650	1,048	71	34
.....	140	.....	.....	9,582	2,495	4,496	1,977	.....	1,062	.....	166	35
12.5	16.7	1.4	16.1	6.0	13.7	16.2	3.7	23.1	1.2	16.0	3.7	36
.....	14.3	.....	.....	8.3	24.0	17.5	4.8	.....	1.4	.....	4.8	37
73.9	72.3	88.2	89.9	78.2	78.9	92.0	75.0	74.5	82.0	75.6	75.8	38
.....	81.9	.....	.....	80.7	93.9	90.6	82.9	.....	85.7	.....	85.2	39
60,074	74,172	22,218	64,538	4,942,227	566,153	501,122	370,794	160,448	81,084	102,191	8,729	40
59,847	73,473	22,177	64,165	4,871,728	564,173	498,333	360,981	159,203	78,090	101,084	8,660	41
227	699	41	373	70,499	1,980	2,789	9,813	1,245	2,994	1,107	69	42
.....	46,042	.....	.....	3,012,147	286,335	486,513	600,910	.....	103,899	.....	58,990	43
.....	.....	.....	.....	3,309,599	260,912	497,791	486,627	.....	159,590	.....	293,396	44
.....	61.1	.....	.....	64.1	97.7	3.0	-38.3	.....	-22.0	.....	-85.2	45
53.93	17.77	97.02	32.93	82.37	15.04	9.38	31.09	38.38	8.85	23.75	29.79	46
.....	59.41	.....	.....	60.79	7.00	10.21	52.09	.....	14.02	.....	52.72	47
.....	.....	.....	.....	36.15	4.25	8.79	35.75	.....	18.36	.....	32.55	48
72.99	24.58	109.99	36.61	105.36	19.07	10.20	41.45	51.52	10.79	31.40	39.32	49
61,799	80,992	23,593	66,713	4,973,184	566,757	503,080	469,709	196,778	88,869	115,768	9,449	50
.....	56,442	.....	.....	3,555,772	291,385	492,403	717,140	.....	103,899	.....	66,595	51
.....	.....	.....	.....	4,428,916	262,522	618,521	998,752	.....	167,495	.....	314,746	52
.....	43.5	.....	.....	39.9	94.5	2.2	-34.5	.....	-14.5	.....	-85.8	53
51.41	18.07	97.49	31.66	79.55	14.44	9.38	27.34	43.86	8.86	23.56	31.18	54
.....	60.50	.....	.....	58.36	6.96	10.00	17.91	.....	13.51	.....	48.05	55
.....	.....	.....	.....	42.58	3.78	9.59	20.49	.....	15.22	.....	32.49	56
				Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises						
45	59	16	68	367 / 55	235 / 4	292 / 6	140	93	126	89	8	57
645	2,890	202	1,595	44,199 / 10,635	24,085 / 553	46,972 / 14,210	8,686	2,834	7,333	3,179	216	58
3,247	11,359	961	4,491	62,520 / 16,609	8,734 / 53	20,235 / 1,000	13,398	11,322	9,091	11,481	1,026	59
5.03	3.93	4.76	2.82	1.41 / 1.56	0.36 / 0.10	0.43 / 0.07	1.54	4.00	1.24	3.61	4.75	60
.....	4.94	.....	.....	2.06 /	0.44 /	0.58 /	3.31	.....	1.81	.....	14.84	61
1,525	51	.....	.....	60,613 / 11,806	4,614 / 45	18,048 / 980	7,923	.....	.....	98	.....	62
25.42	0.85	.....	.....	2.06 / 1.20	0.30 / 0.10	0.51 / 0.07	1.58	.....	.....	0.85	.....	63
60	60	.....	.....	34,616 / 9,839	17,188 / 464	37,830 / 17,155	6,165	.....	.....	115	.....	64
25.42	0.85	.....	.....	1.75 / 1.20	0.27 / 0.10	0.48 / 0.06	1.29	.....	.....	0.85	.....	65
1,525	.....	.....	.....	64,462 /	990 /	15,203 /	8,249	.....	.....	.....	.....	66
.....	.....	.....	.....	1,354,259 /	..... / 177,166	55,922 /	41,450	.....	.....	.....	.....	67
47	66	14	59	391 / 48	256 / 4	292 / 3	153	86	131	87	8	68
680	2,992	190	1,529	42,470 / 10,586	27,368 / 124	42,667 / 55	8,414	1,999	7,186	3,189	218	69
1,143	5,209	338	2,112	248,470 / 51,470	52,219 / 222	158,075 / 192	15,486	2,481	16,916	3,758	206	70
1.7	1.7	1.8	1.4	5.9 / 4.9	1.9 / 1.8	3.7 / 3.5	1.8	1.2	2.4	1.2	0.9	71
7.14	3.90	4.07	3.14	1.83 / 1.52	0.35 / 0.09	0.54 / 0.33	1.91	4.41	1.25	3.59	4.70	72
5	6	2	4	7 /	3 /	6 /	3	38	.....	10	5	73
67	310	(7)	127	27,108 /	511 /	1,684 /	41	2,385	.....	243	203	74
53	189	(7)	117	18,889 /	501 /	1,583 /	39	1,722	.....	155	151	75
52	109	(7)	27	3,219 /	47 /	10 /	11	1,277	.....	125	16	76
.....	20	(7)	19	855 /	80 /	153 /	2	731	.....	8	63	77

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.
[7] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Baker	Benton	Clackamas	Columbia	Coos
	FARM VALUES, 1940*						
1	Land and buildings, all farms....dollars..	476,817,354	12,419,255	10,959,243	29,730,859	8,118,086	9,593,609
2	Land and buildings, irrigated farms....dollars..	152,701,476	11,424,759	960,165	1,706,415	389,400	1,317,150
	Operated by—						
3	(a) Owners and managers....dollars..	131,641,303	8,690,829	831,365	1,436,115	389,400	1,144,350
4	(b) Tenants....dollars..	21,060,173	2,733,930	128,800	270,300	.....	172,800
5	Average, land and buildings, per farm....dollars..	9,449.93	10,880.72	8,728.77	8,706.20	24,337.50	9,684.93
6	per acre in farms....dollars..	17.49	17.95	48.24	110.67	101.99	40.19
7	Buildings, irrigated farms reporting value....number...	14,822	1,026	110	193	16	136
8	Total reported....dollars..	33,570,300	2,185,045	238,102	496,450	78,650	315,010
9	Average, per irrigated farm reporting....dollars..	2,264.90	2,129.67	2,164.56	2,572.28	4,915.62	2,316.25
10	per acre on all irrigated farms....dollars..	3.85	3.43	11.96	32.20	20.60	9.61
11	Buildings, nonirrigated farms reporting value....number...	45,667	200	1,373	5,213	2,027	1,775
12	Total reported....dollars..	81,675,283	191,765	2,588,334	9,417,592	2,524,121	2,297,871
13	Average, per nonirrigated farm reporting....dollars..	1,788.50	958.82	1,885.17	1,806.56	1,245.25	1,294.58
14	per acre on all nonirrigated farms....dollars..	8.82	1.21	12.87	32.95	18.80	9.21
15	Implements and machinery, irrigated farms reporting value..number..	13,395	973	97	186	14	124
16	Total reported....dollars..	15,346,736	849,483	100,020	195,340	24,985	122,203
17	Average, per irrigated farm reporting....dollars..	1,145.71	873.06	1,031.13	1,050.22	1,784.64	985.51
18	per acre, on all irrigated farms....dollars..	1.76	1.33	5.03	12.67	6.54	3.73
19	Implements and machinery, nonirrigated farms reporting value....number...	38,054	169	1,091	4,456	1,487	1,371
20	Total reported....dollars..	29,261,196	88,349	958,884	2,241,588	666,607	612,113
21	Average, per acre, on all nonirrigated farms....dollars..	3.16	0.56	4.77	7.84	4.96	2.45
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises....1940...number....	[1] 5,898	585	86	154	12	105
23	1930...number....	[1] 4,071	561	15	20	2	4
24	1920...number....	4,710	825	.....	.....	.....	.....
25	Average size of enterprise based on irrigable area....1940...acres....	244	278	24	27	62	21
26	1930...acres....	363	285	25	50	.....	.....
27	1920[2]..acres....	409	314	.....	.....	.....	.....
28	Diversion dams....1940...number....	5,097	957	23	26	2	19
29	Main canals and laterals....1940...length, miles....	8,518.0	814.8	15.2	10.3	1.7	8.0
30	1930...length, miles....	8,177	1,247	5	9	.....	.....
31	1920...length, miles....	9,071	1,662	.....	.....	.....	.....
32	1940...capacity, c.f.s.[3]....	37,290	3,950	121	136	13	118
33	1930...capacity, c.f.s.[3]....	25,906	3,193	5	15	.....	.....
34	1920...capacity, c.f.s.[3]....	28,897	3,925	.....	.....	.....	.....
35	Pipe lines[4]....1940...length, miles....	665.2	9.7	15.0	30.4	2.0	24.5
36	Storage dams....1940...number....	247	38	1	17	1	4
37	Reservoirs....1940...number....	257	39	.....	10	1	7
38	1930...number....	120	27	.....	1	.....	.....
39	1920...number....	266	53	.....	.....	.....	.....
40	1940...capacity, acre-feet..	2,212,315	42,264	.....	46	(5)	74
41	1930...capacity, acre-feet..	1,698,428	110,088	.....	2	.....	.....
42	1920...capacity, acre-feet..	1,905,037	36,145	.....	.....	.....	.....
43	Wells, flowing....1940...number....	76	3	.....	1	.....	2
44	1930...number....	59	4	.....	4	.....	.....
45	1920...number....	65	8	.....	.....	.....	.....
46	1940...yield, g.p.m....	3,396	250	.....	(5)	.....	(5)
47	1930...yield, g.p.m....	6,535	1,225	.....	150	.....	.....
48	1920...yield, g.p.m....	11,968	315	.....	.....	.....	.....
49	Wells, pumped....1940...number....	901	25	21	46	.....	7
50	1930...number....	558	31	5	8	.....	.....
51	1920...number....	208	13	.....	.....	.....	.....
52	1940...yield, g.p.m....	209,289	6,740	7,757	3,724	.....	170
53	1930...yield, g.p.m....	136,669	10,170	725	323	.....	.....
54	1920...yield, g.p.m....	47,026	4,780	.....	.....	.....	.....
55	Pumping plants....1940...number....	2,275	40	53	136	11	83
56	1930...number....	1,091	35	9	15	.....	.....
57	1920...number....	573	19	.....	.....	.....	.....
58	Prime movers....1940...capacity, hp....	29,527	554	581	770	89	565
59	1930...capacity, hp....	21,257	405	95	89	.....	.....
60	1920...capacity, hp....	13,769	1,668	.....	.....	.....	.....
61	Pumps....1940...capacity, g.p.m....	1,510,958	21,044	24,872	23,301	4,754	20,070
62	1930...capacity, g.p.m....	1,022,213	14,900	5,905	1,449	.....	.....
63	1920...capacity, g.p.m....	600,045	71,297	.....	.....	.....	.....
64	Pumping lift, from all sources....1940...average, feet....	27	29	18	37	32	24
65	1930...average, feet....	27	26	13	47	.....	.....
66	1920...average, feet....	28	31	.....	.....	.....	.....
67	from pumped wells....1940...average, feet....	35	25	19	59	.....	36
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]						
68	Enterprises reporting pay roll....number...	194	32	.....	3	.....	.....
69	Irrigated area in these enterprises....acres....	501,227	47,618	.....	818	.....	.....
70	Wages and salaries paid and payable....dollars..	621,247	10,821	.....	491	.....	.....
71	Persons employed during week ending April 29....number...	1,094	81	.....	.....	.....	.....

*Census of Agriculture.

[1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Irrigation data omitted from any of the counties listed are included under "All other counties"]

Crook	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	
5,266,573	4,846,549	17,318,703	7,164,374	6,782,231	6,118,480	6,689,387	16,995,945	3,751,029	7,486,940	17,673,961	6,708,459	1
4,795,732	4,589,424	2,062,808	1,475,123	6,052,435	5,419,469	6,345,257	12,133,740	1,579,081	5,711,208	14,999,552	6,046,911	2
4,248,547	3,823,374	1,780,355	1,250,163	5,581,710	4,892,694	5,959,167	10,832,520	1,537,346	5,064,670	13,548,322	5,390,311	3
547,185	766,050	282,453	224,960	470,725	526,775	386,090	1,301,220	41,735	646,538	1,451,230	656,600	4
11,989.33	4,682.37	8,488.92	19,409.51	12,795.85	18,433.57	6,118.86	7,694.19	29,242.24	4,547.14	14,353.64	19,075.43	5
7.37	35.64	34.76	7.62	7.58	7.62	186.41	58.57	4.87	75.71	25.20	8.66	6
396	926	242	76	461	289	1,015	1,544	52	1,238	1,011	313	7
833,515	1,304,694	519,761	200,265	929,744	641,080	2,519,869	3,494,263	268,360	1,878,575	3,066,546	734,860	8
2,104.84	1,408.96	2,147.77	2,635.07	2,016.80	2,218.27	2,482.63	2,263.12	5,160.77	1,517.43	3,033.18	2,347.80	9
1.28	10.13	8.76	1.04	1.16	0.90	74.03	16.87	0.83	24.90	5.15	1.05	10
93	100	2,455	198	106	134	99	1,093	168	672	469	158	11
86,359	74,605	3,771,774	642,073	121,035	170,740	133,375	1,498,018	251,094	537,350	801,193	151,565	12
928.59	746.95	1,536.36	3,242.79	1,141.84	1,274.18	1,347.22	1,370.56	1,494.61	799.63	1,708.30	959.27	13
0.52	1.32	6.66	1.04	1.05	1.05	23.70	13.71	0.67	10.80	4.49	0.92	14
379	857	226	72	452	276	836	1,278	53	997	931	295	15
484,611	590,571	183,456	139,171	513,454	392,911	804,187	1,006,485	81,275	492,865	2,011,441	471,030	16
1,278.66	689.11	811.75	1,932.93	1,135.96	1,423.59	961.95	787.55	1,533.49	494.35	2,160.52	1,596.71	17
0.74	4.59	3.09	0.72	0.64	0.55	23.63	4.86	0.25	6.53	3.38	0.67	18
87	90	1,981	192	102	115	73	796	150	433	388	133	19
39,760	43,241	1,059,743	788,374	80,175	59,946	25,287	356,379	280,215	131,156	346,682	89,220	20
0.24	0.77	1.87	1.27	0.70	0.37	4.49	3.26	0.75	2.64	1.94	0.54	21
137	23	160	61	413	255	84	324	42	273	173	182	22
104	30	73	39	301	134	55	255	26	196	144	153	23
158	38	93	52	289	328	77	345	51	309	90	149	24
353	2,709	33	41	108	555	369	161	112	95	1,244	695	25
453	3,145	43	59	130	1,537	568	207	213	152	1,369	679	26
395	4,642	90	89	146	684	515	311	121	81	2,661	1,235	27
274	39	69	42	503	491	38	183	43	115	82	306	28
355.4	845.6	55.9	24.7	671.9	446.9	170.2	643.6	64.4	335.1	804.8	254.0	29
511	701	54	31	513	251	208	817	33	334	733	276	30
424	397	107	65	557	566	220	637	85	331	558	365	31
569	1,799	200	91	1,572	2,869	692	941	388	954	5,911	3,483	32
1,254	2,638	99	63	918	1,718	432	942	101	780	3,034	2,247	33
734	2,898	234	64	801	1,752	435	1,048	117	952	3,135	2,767	34
1.9	0.9	29.4	1.3	7.7	2.4	24.3	22.1	1.3	17.3	10.1	2.3	35
6	4	9	2	7	12	3	9	.....	23	20	28	36
9	3	4	1	2	13	5	7	.....	26	24	29	37
2	1	3	.....	4	6	.....	6	2	5	5	10	38
3	4	4	1	8	32	5	23	1	24	14	17	39
48,067	2,505	16	(5)	(5)	6,157	803	33,780	.....	344	721,169	105,237	40
47,528	100	3	.....	9	3,910	.....	45,875	701	49	640,046	88,561	41
47,101	5,123	10,005	.....	36,896	133,765	13	35,871	700	11	926,361	77,513	42
.....	.....	.....	3	.....	53	.....	1	.....	1	.....	10	43
.....	.....	.....	.....	.....	9	.....	.....	.....	1	25	9	44
.....	.....	1	.....	.....	32	3	.....	.....	3	1	9	45
.....	.....	.....	200	.....	1,708	.....	(5)	.....	(5)	.....	495	46
.....	.....	.....	.....	.....	99	.....	.....	.....	2	41	4,388	47
.....	.....	.....	.....	.....	179	10	.....	.....	10,000	35	572	48
2	.....	6	.....	11	4	.....	16	3	7	6	9	49
.....	.....	.....	.....	.....	6	.....	11	.....	2	.....	4	50
2	.....	.....	1	1	5	1	12	1	11	2	1	51
(5)	.....	1,125	.....	1,170	2,425	.....	1,784	30	1,026	2,020	5,185	52
.....	.....	.....	.....	.....	2,460	.....	4,417	.....	1,875	.....	6,700	53
371	.....	.....	20	30	1,650	17	10,133	15	1,366	1,600	200	54
10	1	85	15	19	5	6	68	8	52	129	13	55
11	3	13	3	4	6	3	42	11	28	56	6	56
11	1	9	8	2	9	5	51	6	51	31	6	57
166	(5)	644	189	111	70	29	464	84	3,134	4,307	228	58
181	601	169	29	40	66	3	373	95	4,128	3,620	82	59
430	200	56	41	12	38	36	345	9	378	1,303	171	60
12,385	(5)	33,089	13,335	3,253	4,200	660	25,695	4,228	97,007	323,951	18,641	61
16,324	16,502	7,855	2,625	2,370	2,950	271	21,647	14,340	51,577	309,289	9,200	62
23,121	7,500	3,225	1,710	22,530	1,815	755	18,410	240	19,737	62,475	2,296	63
20	(5)	25	27	93	45	64	19	35	26	20	28	64
18	77	24	13	28	23	32	30	19	32	30	24	65
32	120	54	21	28	18	70	28	10	24	26	44	66
(5)	.....	20	.....	136	61	.....	21	37	40	38	32	67
3	8	2	.....	6	1	9	22	2	12	14	3	68
21,559	49,744	(5)	.....	2,862	(5)	23,689	34,025	(5)	11,771	86,048	9,660	69
19,829	59,502	(5)	.....	863	(5)	25,061	73,969	(5)	28,977	75,335	7,246	70
34	213	.....	.....	8	.....	39	90	(5)	97	88	14	71

[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Lane	Lincoln	Linn	Malheur	Marion	Morrow
	FARM VALUES, 1940[*]						
1	Land and buildings, all farms.....dollars..	28,223,172	3,746,837	24,222,449	14,579,441	38,293,980	7,922,180
2	Land and buildings, irrigated farms.....dollars..	4,324,825	206,458	2,131,322	13,593,603	5,147,912	3,288,152
	Operated by—						
3	(a) Owners and managers.....dollars..	3,666,651	153,958	1,837,842	10,968,368	4,062,122	2,898,202
4	(b) Tenants.....dollars..	658,174	52,500	293,480	2,625,235	1,085,790	389,950
5	Average, land and buildings, per farm.....dollars..	11,688.72	6,881.93	11,158.75	6,020.20	16,768.44	12,695.57
6	per acre in farms.....dollars..	92.44	34.57	63.75	20.41	137.43	6.42
7	Buildings, irrigated farms reporting value.....number...	365	28	190	1,186	292	255
8	Total reported.....dollars..	1,188,891	71,788	521,499	2,469,496	1,092,896	533,045
9	Average, per irrigated farm reporting.....dollars..	3,257.24	2,563.86	2,744.73	2,082.21	3,742.79	2,090.37
10	per acre on all irrigated farms.....dollars..	25.41	12.02	15.60	3.71	29.18	1.04
11	Buildings, nonirrigated farms reporting value.....number...	4,007	931	3,103	1,250	4,388	261
12	Total reported.....dollars..	6,852,231	1,135,117	5,330,626	156,852	9,212,377	584,980
13	Average, per nonirrigated farm reporting.....dollars..	1,710.07	1,219.24	1,717.89	125.48	2,099.45	2,241.30
14	per acre on all nonirrigated farms.....dollars..	14.82	10.84	11.81	0.67	27.15	1.28
15	Implements and machinery, irrigated farms reporting value..number...	340	30	172	1,078	293	237
16	Total reported.....dollars..	431,226	22,100	297,458	1,776,266	511,372	244,549
17	Average, per irrigated farm reporting.....dollars..	1,268.31	736.67	1,729.41	1,647.74	1,745.30	1,031.85
18	per acre, on all irrigated farms.....dollars..	9.22	3.70	8.90	2.67	13.65	0.48
19	Implements and machinery, nonirrigated farms reporting value.....number...	3,280	686	2,680	1,209	3,840	246
20	Total reported.....dollars..	1,848,359	242,970	2,499,766	119,826	2,897,188	716,556
21	Average, per acre, on all nonirrigated farms.....dollars..	4.00	2.32	5.54	0.51	8.54	1.57
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises.....1940...number.....	294	22	107	320	170	99
23	1930...number.....	116	1	12	357	106	107
24	1920...number.....	.....	.....	.....	354	.....	109
25	Average size of enterprise based on irrigable area.....1940...acres.....	82	21	57	618	395	135
26	1930...acres.....	174	.....	.....	737	28	150
27	1920[2]...acres.....	.....	.....	.....	620	.....	183
28	Diversion dams.....1940...number.....	34	10	6	344	28	158
29	Main canals and laterals.....1940...length, miles.....	19.5	10.1	28.4	1,287.9	86.1	137.4
30	1930...length, miles.....	7	.....	.....	799	15	187
31	1920...length, miles.....	.....	.....	.....	902	.....	169
32	1940...capacity, c.f.s.[3]....	205	25	214	6,402	328	156
33	1930...capacity, c.f.s.[3]....	20	.....	.....	3,734	30	564
34	1920...capacity, c.f.s.[3]....	.....	.....	.....	4,013	.....	551
35	Pipe lines[4].....1940...length, miles.....	120.5	1.2	20.0	40.5	34.1	14.6
36	Storage dams.....1940...number.....	.....	.....	.....	20	4	.....
37	Reservoirs.....1940...number.....	2	.....	1	28	5	.....
38	1930...number.....	1	.....	.....	29	1	.....
39	1920...number.....	.....	.....	.....	43	.....	.....
40	1940...capacity, acre-feet..	(5)	.....	(5)	1,059,804	22	.....
41	1930...capacity, acre-feet..	8	.....	.....	644,216	1,000	.....
42	1920...capacity, acre-feet..	.....	.....	.....	317,979	.....	.....
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	2	.....	.....
45	1920...number.....	.....	.....	.....	4	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	280	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	787	.....	.....
49	Wells, pumped.....1940...number.....	205	.....	54	22	55	.....
50	1930...number.....	127	.....	.....	4	26	2
51	1920...number.....	.....	.....	.....	5	.....	.....
52	1940...yield, g.p.m.....	42,288	.....	14,044	9,288	10,979	.....
53	1930...yield, g.p.m.....	28,736	.....	.....	1,400	4,787	2
54	1920...yield, g.p.m.....	.....	.....	.....	835	.....	.....
55	Pumping plants.....1940...number.....	297	12	97	157	185	2
56	1930...number.....	108	.....	.....	163	133	2
57	1920...number.....	.....	.....	.....	117	.....	2
58	Prime movers.....1940...capacity, hp.....	1,543	70	590	7,726	1,339	(5)
59	1930...capacity, hp.....	808	.....	.....	7,136	668	4
60	1920...capacity, hp.....	.....	.....	.....	7,409	.....	22
61	Pumps.....1940...capacity, g.p.m.....	70,059	3,937	34,147	363,035	48,781	(5)
62	1930...capacity, g.p.m.....	48,944	.....	.....	253,624	28,081	2
63	1920...capacity, g.p.m.....	.....	.....	.....	294,620	.....	1,700
64	Pumping lift, from all sources.....1940...average, feet.....	15	20	16	20	18	(5)
65	1930...average, feet.....	17	.....	.....	22	24	65
66	1920...average, feet.....	.....	.....	.....	27	.....	18
67	from pumped wells.....1940...average, feet.....	16	.....	18	21	28	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]						
68	Enterprises reporting pay roll.....number...	1	.....	1	17	2	[7] 1
69	Irrigated area in these enterprises.....acres....	(5)	.....	.....	116,469	(5)	4,914
70	Wages and salaries paid and payable.....dollars..	(5)	.....	(5)	222,202	(5)	3,740
71	Persons employed during week ending April 29.....number...	(5)	.....	(5)	224	(5)	4

[*] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Multnomah	Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill	All other counties[1]	
15,883,281	15,225,759	10,507,217	9,600,904	37,658,315	12,143,862	8,788,961	10,960,912	30,515,555	3,062,704	21,318,949	6,539,193	1
1,394,782	2,172,150	163,750	1,172,400	9,941,716	5,420,677	6,549,581	3,628,104	2,064,019	2,378,867	1,825,229	289,300	2
990,022	2,057,650	115,750	928,800	8,543,319	4,860,477	5,127,636	3,141,644	1,895,679	2,281,687	1,440,958	269,300	3
404,760	114,500	48,000	243,600	1,398,397	560,200	1,421,945	486,460	168,340	97,150	384,271	20,000	4
16,031.98	26,170.48	8,187.50	14,474.07	7,503.18	9,784.62	10,598.03	10,516.24	18,594.77	15,754.09	14,259.60	13,776.19	5
211.52	119.89	11.39	107.32	12.77	24.98	21.64	14.98	153.41	3.88	89.80	48.61	6
86	83	19	80	1,301	543	607	341	110	149	123	21	7
336,584	507,925	44,750	259,500	2,379,297	1,251,625	1,389,948	707,852	373,670	327,125	356,495	53,125	8
3,959.81	6,119.58	2,355.26	3,243.75	1,828.82	2,305.02	2,289.86	2,075.81	3,397.00	2,195.47	2,898.33	2,529.76	9
51.04	28.03	3.11	23.76	3.06	5.77	4.59	2.92	27.77	0.53	17.54	8.93	10
2,108	1,614	308	859	957	673	363	640	4,157	93	2,627	995	11
5,015,308	3,444,121	1,106,219	2,043,895	2,510,906	1,379,090	406,200	1,304,867	8,688,690	115,458	4,965,114	2,164,368	12
2,379.18	2,133.90	3,591.62	2,379.39	2,623.73	2,049.17	1,119.01	2,038.85	2,090.13	1,241.48	1,890.03	2,175.24	13
68.54	16.84	2.47	25.76	3.02	5.43	1.47	2.06	37.53	0.72	18.35	14.42	14
73	74	20	78	1,184	504	566	314	103	145	119	19	15
147,932	198,119	17,592	104,000	1,040,391	501,671	603,037	376,017	161,879	182,155	243,059	24,425	16
2,026.47	2,677.28	879.60	1,333.33	878.71	995.38	1,065.44	1,197.51	1,571.64	1,256.24	2,042.51	1,285.53	17
22.43	10.93	1.22	9.52	1.34	2.31	1.99	1.55	12.03	0.30	11.96	4.10	18
1,664	1,382	288	744	843	614	336	582	3,364	85	2,342	755	19
1,089,956	1,332,891	1,176,334	499,371	2,488,307	710,218	310,832	750,446	2,281,137	58,901	1,845,747	524,672	20
14.89	6.52	2.63	6.29	3.00	2.79	1.12	1.18	9.85	0.37	6.82	3.49	21
54	69	16	78	482	278	309	167	113	136	104	11	22
22	12	6	16	489	241	157	171	3	132	6	5	23
.....	.....	.....	.....	497	311	230	148	.....	156	.....	101	24
22	65	15	27	130	141	174	103	40	74	47	28	25
.....	78	.....	.....	125	174	314	234	.....	58	.....	.....	26
.....	.....	.....	.....	209	223	280	329	.....	71	.....	96	27
7	24	3	24	342	154	364	111	34	231	10	1	28
1.0	8.1	4.4	7.4	416.9	266.6	311.4	283.1	20.3	98.3	8.6	.....	29
.....	.....	.....	.....	421	325	268	222	.....	201	.....	9	30
.....	.....	.....	.....	591	501	424	259	.....	195	.....	56	31
38	88	8	71	2,321	1,001	1,663	347	175	301	131	9	32
.....	.....	.....	.....	1,639	827	1,293	225	.....	128	.....	7	33
.....	.....	.....	.....	1,932	1,381	1,398	328	.....	271	.....	161	34
31.5	15.2	3.2	19.1	69.6	3.5	4.2	38.4	24.0	2.5	18.3	2.2	35
1	4	.....	.....	2	14	9	3	5	1	.....	.....	36
1	4	1	.....	4	16	5	4	5	1	.....	.....	37
.....	.....	.....	.....	3	3	3	5	.....	1	.....	2	38
.....	.....	.....	.....	8	1	7	10	.....	1	.....	7	39
(5)	58	(5)	.....	123,012	17,481	49,354	404	18	(5)	.....	.....	40
.....	.....	.....	.....	52,412	36	41,760	20,503	.....	1,600	.....	21	41
.....	.....	.....	.....	69,700	20	205,430	1	.....	2,400	.....	3	42
.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	43
.....	.....	.....	.....	1	.....	.....	4	.....	.....	.....	.....	44
.....	.....	.....	.....	3	.....	.....	1	.....	.....	.....	.....	45
.....	.....	(5)	.....	.....	.....	.....	.....	(5)	.....	.....	.....	46
.....	.....	.....	.....	125	.....	.....	225	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	70	.....	.....	.....	.....	48
18	24	7	1	208	67	3	36	5	.....	32	1	49
.....	12	.....	.....	189	58	.....	57	.....	.....	.....	16	50
.....	.....	.....	.....	94	20	.....	20	.....	.....	.....	19	51
2,033	16,820	1,658	(5)	41,412	20,713	136	2,490	197	.....	11,645	(5)	52
.....	3,600	.....	.....	44,922	20,144	.....	3,357	.....	.....	.....	3,051	53
.....	.....	.....	.....	19,496	4,203	.....	516	.....	.....	.....	1,794	54
52	61	11	47	241	80	12	65	97	26	91	8	55
.....	14	.....	.....	216	66	3	80	.....	15	.....	46	56
.....	.....	.....	.....	103	34	5	41	.....	21	.....	41	57
318	761	69	245	1,131	303	53	571	1,076	371	1,296	66	58
.....	264	.....	.....	1,128	357	36	325	.....	188	.....	367	59
.....	.....	.....	.....	582	186	26	273	.....	266	.....	318	60
9,415	39,400	2,048	9,753	57,819	33,223	2,647	22,875	104,684	34,585	40,641	2,168	61
.....	72,625	.....	.....	60,054	23,454	1,150	15,879	.....	14,425	.....	26,771	62
.....	.....	.....	.....	23,671	10,578	665	8,974	.....	14,195	.....	10,531	63
59	30	29	16	31	15	32	103	24	19	27	10	64
.....	20	.....	.....	27	19	25	63	.....	18	.....	23	65
.....	.....	.....	.....	26	12	32	49	.....	21	.....	26	66
102	27	37	(5)	32	16	34	146	101	.....	23	(5)	67
.....	1	.....	.....	15	10	20	8	.....	.....	1	.....	68
.....	(5)	.....	.....	27,162	7,805	46,811	3,970	.....	.....	(5)	.....	69
.....	(5)	.....	.....	31,083	1,419	8,135	9,946	.....	.....	(5)	.....	70
.....	.....	.....	.....	37	15	40	36	.....	.....	.....	.....	71

[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	[9]48,983,040	49,195,520	49,195,520	49,195,520	49,195,520	49,195,520	49,195,520
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	72,454	83,303	83,157	74,637	77,644	52,622	50,158
Land in all farms....acres....	39,473,584	37,101,871	36,470,083	34,636,491	26,016,892	19,070,616	11,396,460
Farms irrigated:[1]							
Farms....number...	967	974	763	1,198	500	606	189
Increase or decrease (-) over preceding census....percent..	[2]26.7	.....	-36.3	139.6	-17.5	220.6	.....
Proportion of all farms....percent..	1.3	1.2	0.9	1.6	0.6	1.2	0.4
Land in farms....acres....	1,021,659	([3])	379,270	([3])	([3])	([3])	([3])
Proportion of all farm land....percent..	2.6	([3])	1.0	([3])	([3])	([3])	([3])
Area irrigated....acres....	[4]54,073	[5]56,565	[6]59,361	([7])	([7])	43,676	15,717
Increase or decrease (-) over preceding census....percent..	[2]-8.9	.....	.....	.....	.....	177.9	.....
Proportion of total land area of State....percent..	0.1	0.1	0.1	.....	.....	0.1	([8])
Proportion of all farm land....percent..	0.1	0.2	0.2	.....	.....	0.2	0.1
Value of irrigated farms (land and buildings)....dollars..	9,972,519	([3])	10,520,455	([3])	([3])	([3])	([3])
Average per farm....dollars..	10,312.84	([3])	13,788.28	([3])	([3])	([3])	([3])
Average per acre....dollars..	9.76	([3])	27.74	([3])	([3])	([3])	([3])
Value of farm implements and machinery[9]....dollars..	1,164,804	([3])	1,055,845	([3])	([3])	([3])	([3])
Average per farm[9]....dollars..	1,204.55	([3])	1,383.81	([3])	([3])	([3])	([3])
Average per acre[9]....dollars..	1.14	([3])	2.78	([3])	([3])	([3])	([3])
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	274	([3])	121	292	395	([3])	([3])
Farms irrigated....number...	1,298	([3])	([3])	([3])	([3])	([3])	([3])
Area irrigated....acres....	60,198	([3])	67,107	100,682	63,248	([3])	([3])
Area existing works were capable of supplying with water....acres....	121,847	([3])	109,550	150,914	128,481	([3])	([3])
Area irrigable....acres....	123,961	([3])	122,510	[10]188,382	[10]201,625	([3])	([3])
Additional area existing works were capable of supplying with water....acres....	61,649	([3])	42,443	50,232	65,233	([3])	([3])
Additional irrigable area in enterprises not supplied with water....acres....	63,763	([3])	55,403	[10]87,700	[10]138,377	([3])	([3])
Investment in irrigation enterprises....dollars..	5,395,610	([3])	4,502,117	5,465,248	3,043,140	284,747	63,968
Increase or decrease (-) over preceding census....percent..	[2]19.8	([3])	-17.6	79.6	968.7	345.1	.....
Average per acre based on area works were capable of supplying with water....dollars..	44.28	([3])	41.10	36.21	23.69	([3])	([3])
Increase or decrease (-) over preceding census....percent..	[2]7.7	([3])	13.5	52.8	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	5,432,934	([3])	5,174,417	5,500,748	3,800,556	([3])	([3])
Average per acre based on irrigable area in enterprises....dollars..	43.83	([3])	42.24	[10]29.20	[10]18.85	([3])	([3])
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	1.28	([3])	1.33	1.26	0.64	([3])	([3])

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 4,333 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Less than one-tenth of 1 percent. [9] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [10] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [9] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	72,454	39,473,584	12,297,291	49,740	4,333	505,452,178	12.80	133,751,853	3.39	59,969,394	1.52
Owners and managers	34,056	24,195,839	6,125,597	29,608	3,128	270,320,333	11.17	73,528,607	3.04	32,427,348	1.34
Tenants	38,398	15,277,745	6,171,694	20,132	1,205	235,131,845	15.39	60,223,246	3.94	27,542,046	1.80
Irrigated farms, total	967	1,021,659	94,483	49,740	4,333	9,972,519	9.76	2,173,503	2.13	1,164,804	1.14
Owners and managers	586	863,702	62,852	29,608	3,128	7,699,778	8.91	1,583,478	1.83	792,637	0.92
Tenants	381	157,957	31,631	20,132	1,205	2,272,741	14.39	590,025	3.74	372,167	2.36
Wholly irrigated farms	505	332,801	32,919	32,919	1,930	3,794,098	11.40	956,640	2.87	551,010	1.66
Owners and managers	279	269,709	19,149	19,149	1,135	2,734,673	10.14	654,815	2.43	336,673	1.25
Tenants	226	63,092	13,770	13,770	795	1,059,425	16.79	301,825	4.78	214,337	3.40
Partly irrigated farms	462	688,858	61,564	16,821	2,403	6,178,421	8.97	1,216,863	1.77	613,794	0.89
Owners and managers	307	593,993	43,703	10,459	1,993	4,965,105	8.36	928,663	1.56	455,964	0.77
Tenants	155	94,865	17,861	6,362	410	1,213,316	12.79	288,200	3.04	157,830	1.66
Nonirrigated farms, total	71,487	38,451,925	12,202,808	.....	.....	495,479,659	12.89	131,578,350	3.42	58,804,590	1.53

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	274	123,961	121,847	60,198	67,107	100,682	-10.3	52,345	56,426	51,386	1.1	2.72	2.43
Streams, gravity	145	38,183	38,047	20,445	65,855	92,191	-69.0	14,919	18,009	14,532	1.6	0.63	0.40
Streams, pumped	55	4,574	3,658	1,723	61	669	(*)	1,568	1,631	1,476	1.3	4.87	3.68
Streams, gravity and pumped	7	73,899	73,749	34,913	.....	.....	.....	34,863	34,716	34,666	0.9	3.51	3.81
Wells, pumped	6	122	112	108	.....	.....	.....	108	33	33	0.4	14.55	34.29
Wells, flowing	11	788	648	593	526	130	12.3	30	428	.....	.....	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	1	(2)	(2)	(2)	.....	170	.....	.....	(2)	.....	.....	.....	.....
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	8	818	738	737	25	326	(*)	15	368	15	2.4	3.60	1.50
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	29	2,125	1,917	790	150	2,312	426.7	570	419	419	0.9	0.62	0.66
City water	1	(2)	(2)	(2)	.....	.....	.....	.....	(2)	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	500	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	1	(2)	(2)	(2)	160	20	(2)	.....	(2)	.....	.....	.....	.....
Streams, pumped; wells, pumped	2	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Waste water, seepage or drainage	2	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Other mixed	6	447	402	278	.....	3,864	.....	106	251	79	2.0	5.82	2.[illegible]
Other and not reported	.....	.....	.....	.....	328	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[*] Percent not shown when more than 1,000.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]							
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919		
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	5,395,610	100.0	44.28	1,502,117	100.0	41.10	3.18	56,426	1.28	65,783	1.33	-0.05	88,329	1.26
Streams, gravity	395,541	7.3	10.40	4,469,744	99.3	41.44	-31.04	18,009	0.51	64,945	1.34	-0.80	83,672	1.21
Streams, pumped	103,110	1.9	28.19	11,423	0.2	46.43	-18.24	1,631	4.73	60	8.17	-3.44	807	4.03
Streams, gravity and pumped	4,822,232	89.4	65.39	.....	.....	.....	.....	34,716	1.46	.....	.....	.....	.....	.....
Wells, pumped	6,000	0.1	53.57	.....	.....	.....	.....	33	11.55	.....	.....	.....	.....	.....
Wells, flowing	15,250	0.3	23.53	6,000	0.1	11.26	12.27	428	1.24	460	0.33	0.91	.....	.....
Wells, pumped and flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Lakes, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springs	5,125	0.1	6.94	725	(4)	29.00	-22.06	368	0.98	8	6.88	-5.90	31	17.74
Springs and streams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stored storm water	19,989	0.4	10.43	4,150	0.1	10.61	-0.18	419	1.05	150	0.70	0.35	1,203	2.78
City water	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Streams, gravity; wells, flowing	(3)	(3)	(3)	1,600	(4)	10.00	(3)	(3)	(3)	160	0.09	(3)	.....	.....
Streams, pumped; wells, pumped	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Waste water, seepage or drainage	(3)	(3)	(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....
Other mixed	10,352	0.2	25.75	.....	.....	.....	.....	251	2.17	.....	.....	.....	2,616	1.14
Other and not reported	.....	.....	.....	8,475	0.2	25.84	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation.
[2] Based on area works were capable of supplying with water.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[4] Less than one-tenth of 1 percent.

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STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED					
Total	Acres 60,198	.....	Acres 67,107	Acres 100,682	Percent -10.3
Individual and partnership	[1] 10,628	.....	11,268	31,664	[1] -5.7
Cooperative, incorporated	12,329	.....	19,646	10,080	-26.0
Cooperative, unincorporated	2,204	.....			
Commercial	.....	.....	.....	2,280	.....
Bureau of Reclamation[2] *	34,222	.....	36,193	36,638	-5.4
Office of Indian Affairs[2]	815	.....	.....	20	.....
State	([1])	.....	.....	.....	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	121,847	.....	109,550	150,914	11.2
Individual and partnership	[1] 26,103	.....	14,174	56,032	[1] 84.2
Cooperative, incorporated	18,523	.....	20,876	10,615	2.9
Cooperative, unincorporated	2,948	.....			
Commercial	.....	.....	.....	1,600	.....
Bureau of Reclamation[2] *	73,504	.....	74,500	82,592	-2.7
Office of Indian Affairs[2]	1,769	.....	.....	75	.....
State	([1])	.....	.....	.....	.....
IRRIGABLE AREA[3]					
Total	123,961	.....	122,510	188,382	1.2
Individual and partnership	[1] 28,024	.....	19,034	76,683	[1] 47.2
Cooperative, incorporated	18,523	.....	22,276	11,410	-3.4
Cooperative, unincorporated	2,998	.....			
Commercial	.....	.....	.....	2,280	.....
Bureau of Reclamation[2] *	72,504	.....	81,200	97,934	-10.7
Office of Indian Affairs[2]	1,912	.....	.....	75	.....
State	([1])	.....	.....	.....	.....

[1]Data for 1 "State" enterprise are included with "Individual and partnership" enterprises in the 1940 Census. [2]U. S. Dept. of the Interior. [3]For 1920 relates to total area. Irrigable area for that year was not reported. *For explanation of areas, see text, p. 513.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES: Total ✓	ENTERPRISES: Serving 5 or more farms	AREAS: Irrigable	AREAS: Works were capable of supplying with water	AVERAGE COST: Primary enterprises: Works and equipment per acre[2]	AVERAGE COST: Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST: Supplemental enterprises: Works and equipment per acre	AVERAGE COST: Supplemental enterprises: Maintenance and operation per acre	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area ✓	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
Total	Number 274	Number 26	Acres 123,961	Acres 121,847	Dollars 44.19	Dollars 1.28	Dollars	Dollars	Number 1,298	Acres 60,198	Acres 50,424	Acres 2,286	Acres 7,488
Individual and partnership	233	7	[4] 28,024	[4] 26,103	[4] 9.13	1.80	.....	.....	257	[4] 10,628	[4] 8,311	961	1,356
Cooperative, incorporated	13	9	18,523	18,523	11.11	0.32	.....	.....	115	12,329	9,164	1,310	1,855
Cooperative, unincorporated	8	6	2,998	2,948	14.33	0.38	.....	.....	91	2,204	2,134	.....	70
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation[5] *	1	1	72,504	72,504	63.84	1.47	.....	.....	676	34,222	30,015	.....	4,207
U. S. Office of Indian Affairs	18	3	1,912	1,769	151.94	3.05	.....	.....	158	815	800	15	.....
State	1	.....	([4])	([4])	([4])	.....	.....	.....	1	([4])	([4])	.....	.....

[1]Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2]Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3]Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4]Data for 1 "State" enterprise are included with "Individual and partnership" enterprises in the 1940 Census. [5]Data for less than 3 enterprises shown with permission of the enterprises involved. *For explanation of areas and investment, see text, p. 513.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940: Total	1940: Primary enterprises	1940: Supplemental enterprises	1940: Total cost of works and equipment	1940: Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	Dollars 5,395,610	Dollars 5,395,610	Dollars	Dollars 5,383,865	Dollars 11,745	Dollars 4,502,117	Dollars 5,465,248	Percent 19.8	Dollars 44.28	Dollars	Dollars 170,857	Dollars 37,324
Individual and partnership	[2] 241,939	[2] 241,939	.....	[2] 238,240	3,699	237,424	743,880	[2] 1.9	[2] 9.27	.....	1,078	26,150
Cooperative, incorporated	209,129	209,129	.....	205,725	3,404	196,953	240,030	30.0	11.29	.....	2,500	.....
Cooperative, unincorporated	46,892	46,892	.....	42,250	4,642				15.91	.....	130	.....
Commercial	.....	.....	.....	.....	.....	.....	15,058	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation[3] *	4,628,868	4,628,868	.....	4,628,868	.....	4,067,740	4,464,780	13.8	63.84	.....	105,000	.....
U. S. Office of Indian Affairs	268,782	268,782	.....	268,782	.....	.....	1,500	.....	151.94	.....	62,149	11,174
State	([2])	([2])	.....	([2])	.....	.....	.....	.....	([2])	.....	.....	.....

[1]Only for enterprises serving 5 or more farms. [2]Data for 1 "State" enterprise are included with "Individual and partnership" enterprises in the 1940 Census. [3]Data for less than 3 enterprises shown with permission of the enterprises involved. *For explanation of investment, see text, p. 513.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940[c]	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	3	72,771	72,771	4,600,023	86.62	63.21	1	66,992	57,507	1.27	73,040	131,490	83,883
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,332	960	417
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,020	7,395	7,124
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,414	1,301	1,271
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3 4 c]	1	72,504	72,504	[5] 4,577,395	86.61	63.13	1	[5] 66,992	[5] 57,507	1.27	52,830	121,509	74,771
Office of Indian Affairs[3 4]	2	267	267	[6] 22,628	199.15	84.75	.....	.....	.....	.....	444	324	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] In payment of principal, interest, and/or other funded obligations. [3] U. S. Dept. of the Interior. [4] Data for less than 3 enterprises shown with permission of the enterprises involved. [5] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [6] Represents construction costs of irrigation works less cancellations and repayments. [c] For explanation of areas and investment, see text, p. 513.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939, BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre		Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939			
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	56,426	71,986	.....	.....	1.28	.....	17	60,964	114
Individual and partnership	8,447	15,202	.....	.....	1.80	.....	2	([2])	.....
Cooperative, incorporated	10,879	3,535	.....	.....	0.32	.....	7	1,864	29
Cooperative, unincorporated	2,169	822	.....	.....	0.38	.....	5	[2] 939	20
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation[3 c]	34,222	50,264	.....	.....	1.47	.....	1	38,812	31
U. S. Office of Indian Affairs[3]	709	2,163	.....	.....	3.05	.....	2	19,349	31
State	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Data for 2 "Individual and partnership" enterprises are included with "Cooperative, unincorporated" enterprises. [3] Data for less than 3 enterprises shown with permission of the enterprises involved. [c] For explanation of areas and investment, see text, p. 513.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	258	74	1,948	1,038	11.3	82	209,785	17.3	19	5,377	16	1,039	119	2,060	127	103,050
Individual and partnership	237	66	669	219	2.5	74	3,307	5.1	18	5,375	10	460	62	1,105	69	56,906
Cooperative, incorporated	11	.....	432	81	0.1	.....	.....	0.1	....	.....	2	9	1	1	2	9
Cooperative, unincorporated	7	.....	101	23	0.3	.....	.....	0.4	....	.....	1	120	1	5	1	120
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3]	1	1	650	657	8.4	1	197,000	6.4	....	.....	.....	.....	1	125	1	1,500
Office of Indian Affairs[3]	2	7	93	58	.....	7	9,478	5.3	1	2	3	450	53	804	53	40,015
State	.....	.....	3	.....	.....	.....	.....	.....	....	.....	.....	.....	1	20	1	1,500

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 relate to the Belle Fourche Project in Meade and Butte Counties. This acreage is not reported under any other classification.

The investment attributed to the Bureau of Reclamation in State table 7 includes the total cost to the United States of the irrigation system of the Belle Fourche Project. The outlay for the drainage system of the project is not included.

Under the Water Conservation and Utilization Program provided for by various acts of the Congress for combating the effects of drought and maintaining established agricultural areas, the Bureau of Reclamation has been authorized to construct two additional projects in South Dakota. One, the Rapid Valley Project in Pennington County, will provide supplemental water for 12,000 acres now inadequately irrigated; the other, the Angostura Project in Fall River County, which will provide irrigation water for 16,210 acres. As these projects were not in operation when the census was taken, no data on them are included.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	258	74	91	10
Concrete or masonry	13	2	3	.....
Timber	19	.....	4	.....
Earth and rock	198	69	.....	9
Other and mixed	[1] 23	2	[1] 43	.....
Not reported	5	1	41	1

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	127	100.0	103,050	100.0	20
Electric motor	8	6.3	5,644	5.5	41
Centrifugal	4	3.1	5,453	5.3	26
Turbine	.....	.....	.....	.....	.....
Plunger	4	3.1	191	0.2	59
Other	.....	.....	.....	.....	.....
Internal-combustion engine	114	89.8	93,706	90.9	18
Centrifugal	105	82.7	92,780	90.0	17
Turbine	6	4.7	320	0.3	19
Plunger	1	0.8	6	.....	75
Other	2	1.6	600	0.6	8
Other kinds of motive power	1	0.8	1,900	1.8	4
Centrifugal	1	0.8	1,900	1.8	4
Turbine	.....	.....	.....	.....	.....
Plunger	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....
Mixed kinds of motive power	4	3.1	1,800	1.8	11
Centrifugal	3	2.3	1,350	1.3	10
Turbine	.....	.....	.....	.....	.....
Plunger	.....	.....	.....	.....	.....
Other	1	0.8	450	0.5	12
Total, 1930	8	.....	4,027	.....	27
Increase or decrease (-) 1930-1940	119	.....	99,023	.....	-7

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	119	100.0	2,060	100.0
Centrifugal pump	106	89.1	1,928	93.6
Electric	3	2.5	190	9.2
Internal-combustion	102	85.7	1,730	84.0
Other	1	0.9	8	0.4
Turbine pump	6	5.0	72	3.5
Electric	.....	.....	.....	.....
Internal-combustion	6	5.0	72	3.5
Other	.....	.....	.....	.....
Plunger pump	4	3.4	9	0.4
Electric	3	2.5	8	0.4
Internal-combustion	1	0.9	1	.....
Other	.....	.....	.....	.....
Other and mixed types of pumps	3	2.5	51	2.5
Electric	2	1.7	41	2.0
Internal-combustion	1	0.8	10	0.5
Other	.....	.....	.....	.....
Total, 1930	[1] 8	.....	92	.....
Increase or decrease (-) 1930-1940	111	.....	1,968	.....

[1] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	17.3	8.9	94.4
Concrete:			
1 to 12 inches	2.0	.....	.....
13 to 24 inches	1.1	1.1	236.4
Over 24 inches	2.6		
Metal:			
1 to 12 inches	10.0	2.9	244.8
13 to 24 inches	0.2	0.7	42.9
Over 24 inches	0.8		
Wood-stave:			
1 to 12 inches	0.5	.....	.....
13 to 24 inches	.....	1.8	.....
Over 24 inches	.....		
Clay and other:			
1 to 12 inches	.....	2.3	.....
13 to 24 inches	0.1	0.1	.....
Over 24 inches	.....		

[1] Includes siphons and farm pipe lines reported.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	15	9	17
Area irrigable in these enterprises.....acres....	74,640	79,729	[1] 106,129
Area irrigated in these enterprises.....acres....	36,072	([2])	([2])
Area for which drains have been installed.....acres....	25,906	4,353	2,109
Additional area needing drainage.....acres....	5,509	6,100	4,714
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	71.8	[3] 5.4	[1] 2.0
(b) All irrigation enterprises.....percent..	43.0	6.5	2.1
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	42.1	13.1	[1] 6.4
(b) Irrigated area reporting.....percent..	87.1	([2])	([2])

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
From surface sources reported:									
Total water entering canals.....acre-feet..	96,132	176,844	168,186	83,704	157,604	121,487	12,428	19,240	46,699
Area irrigated by these enterprises.....acres.....	46,840	47,035	67,366	38,289	43,769	56,638	8,551	3,266	10,728
Average water per acre irrigated.....acre-feet..	2.1	3.8	2.5	2.2	3.6	2.1	1.5	5.9	4.4
Total water delivered to irrigators.....acre-feet..	58,740	46,520	83,574	39,261	.....	81,568	19,479	46,520	2,006
Area irrigated by these enterprises.....acres.....	52,207	36,193	59,618	40,232	.....	56,638	11,975	36,193	2,980
Average water per acre irrigated.....acre-feet..	1.1	1.3	1.4	1.0	.....	1.4	1.6	1.3	0.7
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	57	.....	.....	.....	.....	.....	57	.....	.....
Area irrigated by these enterprises.....acres.....	138	.....	.....	.....	.....	.....	138	.....	.....
Average water per acre irrigated.....acre-feet..	0.4	.....	.....	.....	.....	.....	0.4	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	60,198	100.0	.....	67,107	100.0	100,682	100.0
Appropriation[1].....	45,247	75.2	.....	47,664	71.0	89,940	89.3
Riparian.....	3,689	6.1	.....	3,365	5.0	1,599	1.6
Appropriation and riparian.....	2,929	4.9	.....	.....	.....	.....	.....
Underground.....	684	1.1	.....	529	0.8	130	0.1
Riparian and underground.....	172	0.3	.....	.....	.....	.....	.....
Adjudicated by court.....	4,236	7.0	.....	11,665	17.4	7,651	7.6
Other mixed and not reported...	3,241	5.4	.....	3,884	5.8	1,362	1.4

[1] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940 ..... number...	274	44	186	18	22	2	2
2	Irrigated farms, 1939 ..... number...	1,298	.....	186	50	199	67	796
3	Area irrigated, 1939 ..... acres....	60,198	.....	7,424	2,915	10,704	39,155	
4	(a) From which crops were harvested ..... acres....	50,424	.....	5,691	2,279	7,906	34,548	
5	(b) On which crops failed ..... acres....	2,286	.....	584	253	1,449	.....	
6	(c) Irrigated pasture ..... acres....	7,488	.....	1,149	383	1,349	4,607	
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises ..... dollars..	5,395,610	78,203	166,222	37,453	209,497	4,904,235	
8	(a) Cost of irrigation works and equipment ..... dollars..	5,383,865	77,993	163,929	36,953	204,255	4,900,735	
9	(b) Investment in water rights ..... dollars..	11,745	210	2,293	500	5,242	3,500	
10	Area works were capable of supplying with water ..... acres....	121,847	9,151	14,190	4,631	15,840	78,035	
11	Average investment per acre irrigated ..... dollars..	89.63	.....	32.92	12.85	19.57	125.25	
12	Average investment per acre which the works could supply with water ..... dollars..	44.28	8.55	11.71	8.09	13.23	62.85	
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation ..... number...	181	24	119	15	19	2	2
14	(a) Area irrigated in these enterprises ..... acres....	56,426	.....	5,686	1,728	9,857	39,155	
15	(b) Cost of maintenance and operation ..... dollars..	71,986	927	13,543	1,816	3,813	51,887	
16	(c) Average cost per irrigated acre reporting ..... dollars..	1.28	.....	2.38	1.05	0.39	1.33	
17	Total annual charges[2] ..... dollars..	131,490	22	.....	.....	8,001	123,467	
18	Average charge per irrigated acre reporting ..... dollars..	2.68	.....	.....	.....	0.81	3.15	
19	Area against which charges were assessed ..... acres....	73,040	2,200	.....	.....	12,677	58,163	
20	Average annual charge per acre assessed ..... dollars..	1.80	0.01	.....	.....	0.63	2.12	
21	Total charges collected[2] ..... dollars..	83,883	22	.....	.....	7,252	76,609	
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3] ..... number...	3	.....	.....	.....	[4] 2	.....	[4] 1
23	(a) Area irrigated in these enterprises ..... acres....	34,371	.....	.....	.....	149	.....	34,222
24	(b) Indebtedness ..... dollars..	4,600,023	.....	.....	.....	22,628	.....	4,577,395
25	(c) Average indebtedness per acre irrigated ..... dollars..	133.83	.....	.....	.....	151.87	.....	133.76
26	(d) Cost of irrigation works and equipment ..... dollars..	4,651,496	.....	.....	.....	22,628	.....	4,628,868
27	(e) Investment in water rights ..... dollars..	.....	.....	.....	.....	.....	.....	.....
28	(f) Total investment ..... dollars..	4,651,496	.....	.....	.....	22,628	.....	4,628,868
29	(g) Maintenance and operation ..... dollars..	50,304	.....	.....	.....	40	.....	50,264
30	(h) Total annual charges[2] ..... dollars..	121,549	.....	.....	.....	40	.....	121,509
31	(i) Total charges collected[2] ..... dollars..	74,771	.....	.....	.....	.....	.....	74,771
32	(j) Area against which annual charges were assessed ..... acres....	52,915	.....	.....	.....	85	.....	52,830
33	(k) Average indebtedness per acre assessed ..... dollars..	86.93	.....	.....	.....	266.21	.....	86.64
34	(l) Average charges per acre assessed ..... dollars..	2.30	.....	.....	.....	0.47	.....	2.30
35	(m) Average charges per acre irrigated ..... dollars..	3.54	.....	.....	.....	0.27	.....	3.55
36	Enterprises reporting arrearage[3] ..... number...	1	.....	.....	.....	.....	.....	1
37	(a) Area assessed in these enterprises ..... acres....	52,830	.....	.....	.....	.....	.....	52,830
38	(b) Total arrearage ..... dollars..	66,992	.....	.....	.....	.....	.....	66,992
39	(c) Average arrearage per acre assessed ..... dollars..	1.27	.....	.....	.....	.....	.....	1.27
40	(d) Indebtedness ..... dollars..	4,577,395	.....	.....	.....	.....	.....	4,577,395
	TYPE, 1940							
41	Individual and partnership ..... number...	233	38	177	11	7	.....	.....
42	Cooperative (incorporated and unincorporated) ..... number...	21	1	3	2	13	2	.....
43	Commercial ..... number...	.....	.....	.....	.....	.....	.....	.....
44	U. S. Bureau of Reclamation ..... number...	1	.....	.....	.....	.....	.....	1
45	U. S. Office of Indian Affairs ..... number...	18	5	5	5	2	.....	1
46	All other ..... number...	1	.....	1	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
47	Enterprises reporting pay roll ..... number...	17	3	.....	.....	11	2	1
48	Wages and salaries paid and payable for 1939 ..... dollars..	60,964	19,371	.....	.....	2,194	39,399	
49	Persons employed during week ending April 29, 1939 ..... number...	114	42	.....	.....	35	37	
	SOURCE OF WATER SUPPLY, 1939							
50	Streams, gravity ..... number...	145	26	85	12	20	2	.....
51	Streams, pumped ..... number...	55	6	44	5	.....	.....	.....
52	Wells, pumped ..... number...	6	.....	6	.....	.....	.....	.....
53	Wells, pumped and flowing; or wells flowing ..... number...	11	.....	11	.....	.....	.....	.....
54	Lakes, gravity or pumped ..... number...	1	.....	1	.....	.....	.....	.....
55	Streams and springs; or springs ..... number...	8	.....	8	.....	.....	.....	.....
56	Mixed, streams and wells ..... number...	10	.....	6	.....	2	.....	2
57	Other mixed or stored storm water ..... number...	38	12	25	1	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

[4] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	ACRES IRRIGATED					
		No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres
1	Enterprises, 1940.....number...	44	181	27	20	1	[2] 1
2	Irrigated farms, 1939.....number...	.....	232	62	296	32	676
3	Area irrigated, 1939.....acres....	.....	4,467	4,191	17,318		34,222
4	(a) From which crops were harvested.....acres....	.....	3,735	3,087	13,587		30,015
5	(b) On which crops failed.....acres....	.....	111	670	1,505		.....
6	(c) Irrigated pasture.....acres....	.....	621	434	2,226		4,207
	CAPITAL INVESTMENT, 1940						
7	Total capital investment in all enterprises.....dollars..	78,203	186,308	77,822	424,409		4,628,868
8	(a) Cost of irrigation works and equipment.....dollars..	77,993	184,896	76,464	415,644		4,628,868
9	(b) Investment in water rights.....dollars..	210	1,412	1,358	8,765		.....
10	Area works were capable of supplying with water.....acres....	9,151	9,425	7,417	23,350		72,504
11	Average investment per acre irrigated.....dollars..	.....	41.71	18.57	24.51		135.26
12	Average investment per acre which the works could supply with water.....dollars..	8.55	19.77	10.49	18.18		63.84
	MAINTENANCE AND OPERATION, AND CHARGES, 1939						
13	Enterprises reporting maintenance and operation.....number...	24	115	24	16	1	[2] 1
14	(a) Area irrigated in these enterprises.....acres....	.....	3,295	3,824	15,085		34,222
15	(b) Cost of maintenance and operation.....dollars..	927	10,698	3,962	6,135		50,264
16	(c) Average cost per irrigated acre reporting.....dollars..	.....	3.53	1.04	0.41		1.47
17	Total annual charges[3].....dollars..	22	249	441	9,269		121,509
18	Average charge per irrigated acre reporting.....dollars..	.....	1.09	0.74	0.66		3.55
19	Area against which charges were assessed.....acres....	2,200	229	599	17,182		52,830
20	Average annual charge per acre assessed.....dollars..	0.01	1.09	0.74	0.54		2.30
21	Total charges collected[3].....dollars..	22	59	211	8,820		74,771
	INDEBTEDNESS AND ARREARAGE, 1939						
22	Enterprises reporting indebtedness[4].....number...	.....	[2] 2	.....	.....	.....	[2] 1
23	(a) Area irrigated in these enterprises.....acres....	.....	149	.....	.....	.....	34,222
24	(b) Indebtedness.....dollars..	.....	22,628	.....	.....	.....	4,577,395
25	(c) Average indebtedness per acre irrigated.....dollars..	.....	151.87	.....	.....	.....	133.76
26	(d) Cost of irrigation works and equipment.....dollars..	.....	22,628	.....	.....	.....	4,628,868
27	(e) Investment in water rights.....dollars..	.....	.....	.....	.....	.....	.....
28	(f) Total investment.....dollars..	.....	22,628	.....	.....	.....	4,628,868
29	(g) Maintenance and operation.....dollars..	.....	40	.....	.....	.....	50,264
30	(h) Total annual charges[3].....dollars..	.....	40	.....	.....	.....	121,509
31	(i) Total charges collected[3].....dollars..	.....	.....	.....	.....	.....	74,771
32	(j) Area against which annual charges were assessed.....acres....	.....	85	.....	.....	.....	52,830
33	(k) Average indebtedness per acre assessed.....dollars..	.....	266.21	.....	.....	.....	86.64
34	(l) Average charges per acre assessed.....dollars..	.....	0.47	.....	.....	.....	2.30
35	(m) Average charges per acre irrigated.....dollars..	.....	0.27	.....	.....	.....	3.55
36	Enterprises reporting arrearage[4].....number...	.....	.....	.....	.....	.....	[2] 1
37	(a) Area assessed in these enterprises.....acres....	.....	.....	.....	.....	.....	52,830
38	(b) Total arrearage.....dollars..	.....	.....	.....	.....	.....	66,992
39	(c) Average arrearage per acre assessed.....dollars..	.....	.....	.....	.....	.....	1.27
40	(d) Indebtedness.....dollars..	.....	.....	.....	.....	.....	4,577,395
	TYPE, 1940						
41	Individual and partnership.....number...	38	164	24	7	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	1	5	2	12	1	.....
43	Commercial.....number...	.....	.....	.....	.....	.....	.....
44	U. S. Bureau of Reclamation.....number...	.....	.....	.....	.....	.....	1
45	U. S Office of Indian Affairs.....number...	5	11	1	1	.....	.....
46	All other.....number...	.....	1	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939						
47	Enterprises reporting pay roll.....number...	3	2	2	8	1	[2] 1
48	Wages and salaries paid and payable for 1939.....dollars..	19,371	[5]	[5]	1,949	[5]	38,812
49	Persons employed during week ending April 29, 1939.....number...	42	.....	[5]	35	[5]	34
	SOURCE OF WATER SUPPLY, 1939						
50	Streams, gravity.....number...	26	85	17	16	1	.....
51	Streams, pumped.....number...	6	46	3	.....	.....	.....
52	Wells, pumped.....number...	.....	6	.....	.....	.....	.....
53	Wells, pumped and flowing; or wells flowing.....number...	.....	10	1	.....	.....	.....
54	Lakes, gravity or pumped.....number...	.....	1	.....	.....	.....	.....
55	Streams and springs; or springs.....number...	.....	6	.....	2	.....	.....
56	Mixed, streams and wells.....number...	.....	5	2	2	.....	1
57	Other mixed or stored storm water.....number...	12	22	4	.....	.....	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	COST OF IRRIGATION WORKS AND EQUIPMENT				
		Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999
1	Enterprises, 1940.....number...	239	22	11	[1] 1	[1] 1
2	Irrigated farms, 1939.....number...	286	69	147	120	676
3	Area irrigated, 1939.....acres....	11,021	3,962	10,634	359	34,222
4	(a) From which crops were harvested.....acres....	8,365	3,111	8,574	359	30,015
5	(b) On which crops failed.....acres....	824	402	1,060	.....	.....
6	(c) Irrigated pasture.....acres....	1,832	449	1,000	.....	4,207
	CAPITAL INVESTMENT, 1940					
7	Total capital investment in all enterprises.....dollars..	150,568	170,836	278,471	166,867	4,628,868
8	(a) Cost of irrigation works and equipment.....dollars..	146,168	169,291	272,671	166,867	4,628,868
9	(b) Investment in water rights.....dollars..	4,400	1,545	5,800	.....	.....
10	Area works were capable of supplying with water.....acres....	21,671	12,244	14,917	511	72,504
11	Average investment per acre irrigated.....dollars..	13.66	43.12	26.19	464.81	135.26
12	Average investment per acre which the works could supply with water.....dollars..	6.95	13.95	18.67	326.55	63.84
	MAINTENANCE AND OPERATION, AND CHARGES, 1939					
13	Enterprises reporting maintenance and operation.....number...	149	19	11	[1] 1	[1] 1
14	(a) Area irrigated in these enterprises.....acres....	7,355	3,856	10,634	359	34,222
15	(b) Cost of maintenance and operation.....dollars..	14,393	3,601	3,444	284	50,264
16	(c) Average cost per irrigated acre reporting.....dollars..	1.96	0.93	0.32	0.79	1.47
17	Total annual charges[2].....dollars..	484	1,395	7,818	284	121,509
18	Average charge per irrigated acre reporting.....dollars..	0.55	0.50	0.71	0.79	3.55
19	Area against which charges were assessed.....acres....	884	6,133	12,834	359	52,830
20	Average annual charge per acre assessed.....dollars..	0.55	0.23	0.61	0.79	2.30
21	Total charges collected[2].....dollars..	354	1,276	7,482	.....	74,771
	INDEBTEDNESS AND ARREARAGE, 1939					
22	Enterprises reporting indebtedness[3].....number...	.....	[1] 1	[1] 1	.....	[1] 1
23	(a) Area irrigated in these enterprises.....acres....	.....	64	85	.....	34,222
24	(b) Indebtedness.....dollars..	.....	5,700	16,928	.....	4,577,395
25	(c) Average indebtedness per acre irrigated.....dollars..	.....	89.06	199.15	.....	133.76
26	(d) Cost of irrigation works and equipment.....dollars..	.....	5,700	16,928	.....	4,628,868
27	(e) Investment in water rights.....dollars..	.....	.....	.....	.....	.....
28	(f) Total investment.....dollars..	.....	5,700	16,928	.....	4,628,868
29	(g) Maintenance and operation.....dollars..	.....	.....	40	.....	50,264
30	(h) Total annual charges[2].....dollars..	.....	.....	40	.....	121,509
31	(i) Total charges collected[2].....dollars..	.....	.....	.....	.....	74,771
32	(j) Area against which annual charges were assessed.....acres....	.....	.....	85	.....	52,830
33	(k) Average indebtedness per acre assessed.....dollars..	.....	.....	199.15	.....	86.64
34	(l) Average charges per acre assessed.....dollars..	.....	.....	0.47	.....	2.30
35	(m) Average charges per acre irrigated.....dollars..	.....	.....	0.47	.....	3.55
36	Enterprises reporting arrearage[3].....number...	.....	.....	.....	.....	[1] 1
37	(a) Area assessed in these enterprises.....acres....	.....	.....	.....	.....	52,830
38	(b) Total arrearage.....dollars..	.....	.....	.....	.....	66,992
39	(c) Average arrearage per acre assessed.....dollars..	.....	.....	.....	.....	1.27
40	(d) Indebtedness.....dollars..	.....	.....	.....	.....	4,577,395
	TYPE, 1940					
41	Individual and partnership.....number...	220	11	2	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	9	5	7	.....	.....
43	Commercial.....number...	.....	.....	.....	.....	.....
44	U. S. Bureau of Reclamation.....number...	.....	.....	.....	.....	1
45	U. S. Office of Indian Affairs.....number...	9	6	2	1	.....
46	All other.....number...	1	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939					
47	Enterprises reporting pay roll.....number...	4	5	7	.....	[1] 1
48	Wages and salaries paid and payable for 1939.....dollars..	354	9,582	12,216	.....	38,812
49	Persons employed during week ending April 29, 1939.....number...	14	17	49	.....	34
	SOURCE OF WATER SUPPLY, 1939					
50	Streams, gravity.....number...	125	11	9	.....	.....
51	Streams, pumped.....number...	48	6	1	.....	.....
52	Wells, pumped.....number...	6	.....	.....	.....	.....
53	Wells, pumped and flowing; or wells flowing.....number...	10	1	.....	.....	.....
54	Lakes, gravity or pumped.....number...	1	.....	.....	.....	.....
55	Streams and springs; or springs.....number...	8	.....	.....	.....	.....
56	Mixed, streams and wells.....number...	5	2	1	1	1
57	Other mixed or stored storm water.....number...	36	2	.....	.....	.....

[1] Data for less than 3 enterprises shown with permission of the enterprises involved.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Missouri River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Belle Fourche	Butte	3,018	9.17	-5.49	0.70	-1.14	0.41	-1.10	3.87	-2.63	4.19	-0.62	48.3	+3.2
Ardmore	Fall River	3,557	12.73	-2.49	1.39	-0.46	1.97	+0.66	5.32	-2.08	4.05	-0.61	48.9	+3.6
Ludlow	Harding	3,200	14.73	+1.76	0.90	-0.56	0.87	-0.19	5.63	-0.76	7.33	+3.27	45.4	+1.7
Rapid City	Pennington	3,231	10.31	-7.67	0.94	-0.93	1.57	-0.33	3.94	-4.98	3.86	-1.43	50.2	+4.1
Pine Ridge	Shannon	3,200	12.30	-5.21	0.54	-1.70	1.69	+0.24	6.55	-1.39	3.52	-2.36	49.8	+2.8
Bison	Perkins	2,600	9.54	-6.93	0.81	-0.83	1.52	-0.17	5.38	-1.56	1.83	-4.37	46.1	+2.6
Cottonwood	Jackson	2,414	8.37	-7.27	1.19	-0.62	0.77	-0.46	3.59	-3.63	2.82	-2.56	49.6	+3.3
Dupree	Ziebach	2,353	11.06	-5.81	0.61	-1.84	1.47	-0.82	6.63	-0.02	2.35	-3.13	48.3	+2.6
McIntosh	Corson	2,272	13.14	-4.99	0.68	-1.30	1.05	-0.84	6.70	-1.89	4.71	-0.96	46.2	+4.6
Timber Lake	Dewey	2,161	12.61	-7.35	0.81	-1.23	1.08	-1.03	8.84	-0.17	1.88	-4.92	46.6	+2.8
Mobridge	Walworth	1,653	11.78	-6.09	0.69	-1.21	0.88	-1.39	7.80	-0.04	2.41	-3.45	48.4	+3.5
Pierre	Hughes	1,552	13.11	-3.59	0.70	-1.09	2.07	+0.29	6.93	-0.33	3.41	-2.46	51.6	+5.2
Pollock	Campbell	1,606	11.99	-4.67	0.65	-1.44	0.67	-1.06	8.53	+1.44	2.14	-3.61	45.1	+2.8
Kennebec	Lyman	1,691	15.42	-2.18	0.56	-1.69	3.25	+1.43	8.68	+0.97	2.93	-2.89	50.7	+4.1
Redfield	Spink	1,295	16.06	-3.22	0.80	-1.72	3.63	+1.79	9.70	+1.75	1.93	-5.04	48.7	+4.7
Aberdeen	Brown	1,299	22.13	-2.65	1.18	-2.16	2.15	-0.71	11.93	+1.78	6.87	-1.56	45.0	+1.8
Wagner	Charles Mix	1,441	17.20	-8.34	0.63	-3.06	3.24	+0.14	7.31	-2.48	6.02	-2.94	52.6	+4.0
Mitchell	Davison	1,293	17.10	-6.02	0.35	-2.45	1.66	-0.60	8.53	-1.35	6.56	-1.62	50.6	+4.4
Britton	Marshall	1,352	15.40	-4.84	0.92	-1.62	1.89	+0.21	9.87	+1.61	2.72	-5.04	45.5	+2.6
Watertown	Codington	1,734	20.73	-0.69	0.79	-1.87	2.77	+1.00	11.19	+2.02	5.98	-1.84	45.8	+3.7
Vermillion	Clay	1,222	15.32	-9.54	2.24	-1.39	2.19	-0.37	5.61	-3.98	5.88	-3.80	51.4	+2.4
Sioux Falls	Minnehaha	1,425	26.34	-0.08	2.89	-0.80	2.99	+0.58	12.30	+1.53	8.16	-1.39	49.5	+3.7

[1] Departure from normal.

Precipitation in South Dakota during both the calendar year (1939) and especially for the water year (October 1938 through September 1939), as reported by the United States Weather Bureau, was substantially below normal in all parts of the State.

The average annual precipitation for the State as computed by the Weather Bureau is 17.50 inches for 1938 and 15.71 inches for 1939, and the departures are -1.44 inches for 1938 and -3.16 inches for 1939. However, the departure for the water year 1939 for the 22 representative stations shown in the accompanying State table number 18 ranged from +1.76 inches (one station only above normal) to -9.54 inches, with an average for these stations of -4.70 inches. The Weather Bureau reports further:

"High temperatures and deficient moisture in May were detrimental to crops and grain headed short. Much wheat and rye acreage was plowed under to be reseeded to other crops. Grasshoppers began hatching in great numbers. High wind and heavy hail damaged property in several southern counties on the 22d. June, the wettest month of the year, was favorable for crops, and the top soil over the greater portion of the State was moistened to depths of 1½ to over 5 feet. High winds and hailstorms, the worst of the year, caused extensive property damage in the eastern half on the 7th and 16th and in scattered counties on the 27th. June rains arrived too late to benefit winter grains, but late seeded spring grains made a wonderful growth and were filling well.

"Corn was hip high and much was laid by. Grasshopper damage was slight. July weather was favorable for harvesting and threshing but trying on growing crops, especially in the western half. High damaging winds occurred from the 4th to 13th and again on the 20th. Heavy hail damaged property in the central section on the 2d and in southern counties on the 5-6th and on the 30th. Corn commenced to shrink badly, due to continuous heat, drought, and grasshopper infestation. Small grain harvest was completed with good returns in the northeast quarter but disappointing elsewhere. Range and gardens deteriorated. The water situation became acute in the western half, and much stock was shipped out. Conditions did not improve in August. No change from high temperature and deficient moisture occurred in September and October. The first killing frost of the season occurred the closing week of September, except for a number of south-central points where it was delayed until October 14. The ground generally was too hard and dry for fall plowing and seeding. Haying progressed and a plentiful supply of winter rough feed was assured, except in the southwest section. It was estimated that the crop of cane and sorghums was two and one-half times the record 1938 production. Corn dried out early, and final returns were much better than anticipated. The potato crop was fair. Only a fair crop of sugar beets was harvested in the western irrigated area."

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore, Mississippi River total for South Dakota is identical with State total)				
				Missouri River			
			Total	Direct (5)	Little Missouri River (7)	Grand River (6)	Moreau River (8)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	1,298	1,298	25	5	17	127
2	Area irrigated....1939...acres....	60,198	60,198	776	262	566	631
3	(a) Cropland harvested....1939...acres....	50,424	50,424	745	237	564	602
4	(b) Crop failure....1939...acres....	2,286	2,286	31	.....	2	29
5	(c) Pasture....1939...acres....	7,488	7,488	.....	25	.....	.....
6	Area irrigated....1929...acres....	67,107	67,107	5	.....	.....	60
7	1919...acres....	100,682	100,682	.....	640	.....	305
8	Increase or decrease (-), 1929-1939....percent....	-10.3	-10.3	(1)	.....	.....	951.7
9	Irrigable area in enterprises....1940...acres....	123,961	123,961	1,529	402	1,097	1,222
10	1930...acres....	122,510	122,510	13	.....	.....	60
11	1920[2]...acres....	188,382	188,382	600	4,133	.....	3,094
12	Excess of irrigable area over the area irrigated..1940...acres....	63,763	63,763	753	140	531	591
13	1930...acres....	55,403	55,403	8	.....	.....	.....
14	1920[2]...acres....	87,700	87,700	600	3,493	.....	2,789
15	Area works were capable of supplying with water...1940...acres....	121,847	121,847	1,246	352	697	1,027
16	1930...acres....	109,550	109,550	8	.....	.....	60
17	1920...acres....	150,914	150,914	150	3,323	.....	1,721
18	Increase or decrease (-), 1930-1940....percent....	11.2	11.2	(1)	.....	.....	(1)
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	61,649	61,649	470	90	131	396
20	1930...acres....	42,443	42,443	3	.....	.....	.....
21	1920...acres....	50,232	50,232	150	2,683	.....	1,416
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	49.4	49.4	62.3	74.4	81.2	61.4
23	1929...percent....	61.3	61.3	62.5	.....	.....	100.0
24	1919...percent....	66.7	66.7	.....	19.3	.....	17.7
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	5,395,610	5,395,610	62,110	5,025	26,883	175,843
26	(a) Cost of irrigation works and equipment....1940...dollars....	5,383,865	5,383,865	62,110	5,025	26,880	175,797
27	(b) Investment in water rights (reported)....1940...dollars....	11,745	11,745	.....	.....	3	46
28	Total investment in irrigation enterprises....1930...dollars....	4,502,117	4,502,117	600	.....	.....	60
29	1920...dollars....	5,465,248	5,465,248	3,512	55,818	.....	40,927
30	Increase or decrease (-), 1930-1940....percent....	19.8	19.8	(1)	.....	.....	(1)
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	44.28	44.28	49.85	14.28	38.57	171.22
32	1930...dollars....	41.10	41.10	75.00	.....	.....	1.00
33	1920...dollars....	36.21	36.21	23.41	16.80	.....	23.78
34	Average investment per acre irrigated....1939...dollars....	89.63	89.63	80.04	19.18	47.50	278.67
35	Estimated final investment in existing enterprises..1940...dollars....	5,432,934	5,432,934	74,210	5,900	27,783	180,143
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	43.83	43.83	48.53	14.68	25.33	147.42
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number....	181	181	17	4	11	8
38	Area irrigated in these enterprises....1939...acres....	56,426	56,426	599	150	396	604
39	Cost of maintenance and operation....1939...dollars....	71,986	71,986	1,985	215	1,772	1,138
40	Average cost, per acre irrigated....1939...dollars....	1.28	1.28	3.31	1.43	4.47	1.88
41	Total annual charges (reported)[3] [4]....1939...dollars....	131,490	131,490	.....	.....	.....	284
42	Average annual charge per acre irrigated....1939...dollars....	2.68	2.68	.....	.....	.....	0.79
43	Area against which charges were assessed....1939...acres....	73,040	73,040	.....	.....	.....	359
44	Average annual charge per acre assessed....1939...dollars....	1.80	1.80	.....	.....	.....	0.79
45	Total charges collected[5]....1939...dollars....	83,883	83,883	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	4,600,023	4,600,023	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	167	167	9	4	10	7
48	Area irrigated by these enterprises....1939...acres....	52,345	52,345	235	237	246	596
49	Water delivered....1939...acre-feet..	58,797	58,797	610	284	383	881
50	Average water delivered per acre irrigated....1939...acre-feet..	1.1	1.1	2.6	1.2	1.6	1.5
51	Average cost of water per acre irrigated....1939...dollars....	2.72	2.72	7.52	1.52	5.98	1.41
52	Average cost of water per acre-foot delivered..1939...dollars....	2.43	2.43	2.90	1.27	3.84	0.96
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	15	15	[5] 1	2	2	.....
54	Irrigable area in these enterprises....1939...acres....	74,640	74,640	210	(6)	(6)	.....
55	Irrigated area in these enterprises....1939...acres....	36,072	36,072	101	(6)	(6)	.....
56	Area for which drains have been installed....1939...acres....	25,906	25,906	20	(6)	(6)	.....
57	Additional area needing drainage....1939...acres....	5,509	5,509	10	.....	.....	.....

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

MISSISSIPPI RIVER—Continued																
Missouri River—Continued																
Cheyenne River											White River					
			Belle Fourche River			South Fork Cheyenne River										
Total	Direct (10)	Cherry Creek (11)	Total	Direct (12)	Redwater Creek (13)	Total	Direct (26)	Battle and Spring Creeks (24)	Rapid and Box Elder Creeks (15)	Elk Creek (14)	Total	Direct (22)	South Fork White River (20)	James River (4)	Big Sioux River (3)	
1,080	5	5	853	744	109	217	44	20	117	36	32	9	23	8	4	1
56,187	350	25	43,055	39,391	3,664	12,757	3,173	764	8,495	325	1,397	468	929	286	93	2
46,520	127	25	37,722	34,495	3,227	8,646	2,245	327	6,024	50	1,377	452	925	286	93	3
2,220	205	.....	386	185	201	1,629	154	247	1,228	.....	4	.....	4	.....	.....	4
7,447	18	.....	4,947	4,711	236	2,482	774	190	1,243	275	16	16	.....	.....	.....	5
66,031	.....	.....	51,342	.....	.....	14,678	.....	.....	.....	.....	4	.....	.....	.....	.....	6
99,333	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
-14.9	.....	.....	-16.1	.....	.....	-13.1	.....	.....	.....	.....	(1)	.....	.....	.....	.....	8
115,968	1,072	147	84,707	79,058	5,649	30,042	6,938	5,455	15,176	2,473	3,328	2,152	1,176	292	123	9
120,984	.....	.....	97,159	.....	.....	23,624	.....	.....	.....	.....	4	.....	.....	.....	.....	10
176,715	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
59,781	722	122	41,652	39,667	1,985	17,285	3,765	4,691	6,681	2,148	1,931	1,684	247	6	30	12
54,953	.....	.....	45,817	.....	.....	8,946	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
77,382	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
115,175	806	141	84,453	78,890	5,563	29,775	6,768	5,455	15,086	2,466	2,945	1,852	1,093	292	113	15
108,324	.....	.....	90,359	.....	.....	17,864	.....	.....	.....	.....	4	.....	.....	.....	.....	16
143,847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
6.3	.....	.....	-6.5	.....	.....	66.7	.....	.....	.....	.....	(1)	.....	.....	.....	.....	18
58,988	456	116	41,398	39,499	1,899	17,018	3,595	4,691	6,591	2,141	1,548	1,384	164	6	20	19
42,293	.....	.....	39,017	.....	.....	3,186	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
44,514	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
48.8	43.4	17.7	51.0	49.9	65.9	42.8	46.9	14.0	56.3	13.2	47.4	25.3	85.0	97.9	82.3	22
61.0	.....	.....	56.8	.....	.....	82.2	.....	.....	.....	.....	100.0	.....	.....	.....	.....	23
69.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
5,050,244	1,550	2,115	4,820,812	4,729,420	91,392	225,767	41,284	29,363	134,820	20,300	56,499	28,986	27,513	9,025	9,981	25
5,038,853	1,550	2,115	4,815,495	4,729,418	86,077	219,693	39,450	29,123	130,820	20,300	56,194	28,681	27,513	9,025	9,981	26
11,391	.....	.....	5,317	2	5,315	6,074	1,834	240	4,000	.....	305	305	.....	.....	.....	27
4,476,175	.....	.....	4,273,434	.....	.....	196,491	.....	.....	.....	.....	207	.....	.....	.....	.....	28
5,277,782	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
12.8	.....	.....	12.8	.....	.....	14.9	.....	.....	.....	.....	(1)	.....	.....	.....	.....	30
43.85	1.92	15.00	57.08	59.95	16.43	7.58	6.10	5.38	8.94	8.23	19.18	15.65	25.17	30.91	88.33	31
41.32	.....	.....	47.29	.....	.....	11.00	.....	.....	.....	.....	51.75	.....	.....	.....	.....	32
36.69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
89.88	4.43	84.60	111.97	120.06	24.94	17.70	13.01	38.43	15.87	62.46	40.44	61.94	29.62	31.56	107.32	34
5,065,169	3,200	2,530	4,821,652	4,730,260	91,392	237,787	51,934	29,363	135,020	21,470	60,549	32,486	28,063	9,025	10,155	35
43.68	2.99	17.21	56.92	59.83	16.18	7.92	7.49	5.38	8.90	8.68	18.19	15.10	23.86	30.91	82.56	36
117	5	10	34	12	22	68	21	25	17	5	14	10	4	6	4	37
53,476	350	25	42,420	39,229	3,191	10,681	1,900	685	8,006	90	884	468	416	224	93	38
63,457	755	159	54,057	52,587	1,470	8,486	4,397	973	2,775	341	2,066	1,571	495	562	791	39
1.19	2.16	6.36	1.27	1.34	0.46	0.79	2.31	1.42	0.35	3.79	2.34	3.36	1.19	2.51	8.51	40
131,166	.....	.....	124,049	122,908	1,141	7,117	550	22	6,545	.....	40	.....	40	.....	.....	41
2.70	.....	.....	3.06	3.16	0.73	0.88	1.49	.....	0.85	.....	0.47	.....	0.47	.....	.....	42
72,596	.....	.....	59,483	57,924	1,559	13,113	370	2,200	10,543	.....	85	.....	85	.....	.....	43
1.81	.....	.....	2.09	2.12	0.73	0.54	1.49	0.01	0.62	.....	0.47	.....	0.47	.....	.....	44
83,883	.....	.....	77,002	76,285	717	6,881	450	22	6,409	.....	.....	.....	.....	.....	.....	45
4,577,395	.....	.....	4,577,395	4,577,395	.....	.....	.....	.....	.....	.....	22,628	.....	22,628	.....	.....	46
115	5	5	25	14	11	80	12	18	15	35	12	7	5	7	3	47
50,085	350	25	41,207	39,017	2,190	8,503	1,160	741	6,327	275	622	382	240	236	88	48
55,605	384	36	40,756	36,139	4,617	14,429	3,099	345	10,875	110	662	436	226	313	59	49
1.1	1.1	1.4	1.0	0.9	2.1	1.7	2.7	0.5	1.7	0.4	1.1	1.1	0.9	1.3	0.7	50
2.69	2.16	5.20	3.03	3.17	0.57	0.96	2.40	0.69	0.74	1.56	3.48	3.72	2.55	2.05	8.98	51
2.42	1.97	3.61	3.07	3.42	0.27	0.57	0.90	1.99	0.43	3.89	3.27	3.26	2.71	1.55	13.39	52
5	.....	1	2	2	.....	2	.....	.....	2	.....	2	.....	2	2	[5] 1	53
74,097	.....	(6)	(6)	(6)	.....	(6)	.....	.....	(6)	.....	(6)	.....	(6)	(6)	78	54
35,787	.....	.....	(6)	(6)	.....	(6)	.....	.....	(6)	.....	(6)	.....	(6)	(6)	58	55
25,750	.....	.....	(6)	(6)	.....	(6)	.....	.....	(6)	.....	(6)	.....	(6)	(6)	.....	56
5,483	.....	(6)	(6)	(6)	.....	(6)	.....	.....	(6)	.....	(6)	.....	(6)	.....	11	57

[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore, Mississippi River total for South Dakota is identical with State total)				
			Missouri River				
			Total	Direct (5)	Little Missouri River (7)	Grand River (6)	Moreau River (8)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
1	Enterprises....1940..number	274	274	22	5	13	9
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	445	445	57	70	54	114
3	Diversion dams....1940..total number	258	258	3	2	17	6
4	1930..total number	91	91	.....	.....	.....	1
5	1920..total number	207	207	.....	9	.....	3
6	(a) Concrete and masonry....1940..number	13	13	.....	.....	2	.....
7	(b) Timber....1940..number	19	19	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	198	198	3	2	15	6
9	(d) Other, mixed, and not reported..1940..number	28	28	.....	.....	.....	.....
10	Main canals and laterals....1940..total length, miles	1,049.3	1,049.3	25.0	5.0	7.0	28.3
11	1930..total length, miles	1,082	1,082	.....	.....	.....	.....
12	1920..total length, miles	1,258	1,258	3	47	.....	28
13	(a) Earth....1940..length, miles	1,038	1,038	25	5	7	28
14	(b) Lined....1940..length, miles	11.3	11.3	.....	.....	.....	0.3
15	1940..capacity, c.f.s.[1]	1,948	1,948	45	19	24	75
16	1930..capacity, c.f.s.[1]	1,995	1,995	.....	.....	.....	.....
17	1920..capacity, c.f.s.[1]	5,427	5,427	3	90	.....	33
18	Pipe lines[2]....1940..total length, miles	17.3	17.3	2.8	.....	0.5	0.1
19	1930..total length, miles	8.9	8.9	.....	.....	.....	.....
20	1920..total length, miles	7.2	7.2	.....	0.1	.....	0.3
21	(a) Concrete....1940..length, miles	5.7	5.7	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	11.0	11.0	2.8	.....	0.5	0.1
23	(c) Wood-stave....1940..length, miles	0.5	0.5	.....	.....	.....	.....
24	(d) Other....1940..length, miles	0.1	0.1	.....	.....	.....	.....
25	Storage dams....1940..total number	74	74	5	2	6	10
26	1930..total number	10	10	.....	.....	.....	.....
27	1920..total number	182	182	.....	16	.....	55
28	(a) Concrete and masonry....1940..number	2	2	.....	.....	1	.....
29	(b) Earth and rock....1940..number	69	69	5	2	5	10
30	(c) Other, mixed, and not reported..1940..number	3	3	.....	.....	.....	.....
31	Reservoirs....1940..total number	82	82	5	2	6	10
32	(a) 1-99 acre-feet capacity....1940..number	68	68	4	2	4	5
33	(b) 100-999 acre-feet capacity....1940..number	11	11	.....	.....	2	4
34	(c) 1,000 and over acre-feet capacity....1940..number	3	3	1	.....	.....	1
35	1940..total capacity, ac.-ft.[3]	209,785	209,785	6,097	(4)	535	3,110
36	1930..total number	5	5	.....	.....	.....	.....
37	1930..total capacity, ac.-ft.	203,124	203,124	.....	.....	.....	.....
38	Wells, flowing....1940..number	19	19	12	.....	.....	.....
39	1930..number	13	13	.....	.....	.....	.....
40	1920..number	4	4	.....	.....	.....	.....
41	1940..yield, g.p.m.	5,377	5,377	3,485	.....	.....	.....
42	1930..yield, g.p.m.	4,825	4,825	.....	.....	.....	.....
43	1920..yield, g.p.m.	2,750	2,750	.....	.....	.....	.....
44	Wells, pumped....1940..number	16	16	3	.....	.....	.....
45	1930..number	1	1	.....	.....	.....	.....
46	1920..number	1	1	.....	.....	.....	.....
47	1940..yield, g.p.m.	1,039	1,039	450	.....	.....	.....
48	1930..yield, g.p.m.	375	375	.....	.....	.....	.....
49	1920..yield, g.p.m.	800	800	.....	.....	.....	.....
50	Pumping plants....1940..total number	119	119	21	3	7	14
51	1930..total number	8	8	2	.....	.....	.....
52	Prime movers....1940..capacity, hp	2,060	2,060	368	70	132	231
53	1930..capacity, hp	92	92	7	.....	.....	.....
54	1920..capacity, hp	498	498	40	175	.....	60
55	(a) Electric....1940..number	8	8	1	.....	.....	.....
56	1940..capacity, hp	239	239	(4)	.....	.....	.....
57	(b) Internal-combustion....1940..number	110	110	20	3	7	14
58	1940..capacity, hp	1,813	1,813	328	70	132	231
59	(c) Other....1940..number	1	1	.....	.....	.....	.....
60	1940..capacity, hp	(4)	(4)	.....	.....	.....	.....
61	Pumps....1940..total number	127	127	28	3	7	14
62	1930..number	8	8	2	.....	.....	.....
63	1920..number	25	25	1	4	.....	3
64	1940..capacity, g.p.m.	103,050	103,050	13,820	5,700	4,625	13,790
65	1930..capacity, g.p.m.	4,027	4,027	110	.....	.....	.....
66	1920..capacity, g.p.m.	23,320	23,320	1,500	8,000	.....	1,800
67	(a) Centrifugal....1940..number	113	113	25	3	7	14
68	1940..capacity, g.p.m.	101,483	101,483	13,250	5,700	4,625	13,790
69	1940..average capacity, g.p.m.	898	898	530	1,900	661	985
70	(b) Turbine....1940..number	6	6	2	.....	.....	.....
71	1940..capacity, g.p.m.	320	320	(4)	.....	.....	.....
72	1940..average capacity, g.p.m.	53	53	(4)	.....	.....	.....
73	(c) Plunger....1940..number	5	5	.....	.....	.....	.....
74	1940..capacity, g.p.m.	197	197	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	39	39	.....	.....	.....	.....
76	(d) Other....1940..number	3	3	1	.....	.....	.....
77	1940..capacity, g.p.m.	1,050	1,050	(4)	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	20	20	16	13	12	33
79	1930..average, feet	27	27	8	.....	.....	.....
80	1920..average, feet	21	21	25	32	.....	30
81	from pumped wells....1940..average, feet	55	55	.....	.....	.....	.....
82	from surface sources...1940..average, feet	17	17	16	13	12	33

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.
[3] Total capacity of all reservoirs regardless of size.

WORKS, 1940, 1930, AND 1920

MISSISSIPPI RIVER—Continued																
Missouri River—Continued																
Cheyenne River											White River					
			Belle Fourche River			South Fork Cheyenne River										
Total	Direct (10)	Cherry Creek (11)	Total	Direct (12)	Redwater Creek (13)	Total	Direct (26)	Battle and Spring Creeks (24)	Rapid and Box Elder Creeks (15)	Elk Creek (14)	Total	Direct (22)	South Fork White River (20)	James River (4)	Big Sioux River (3)	
194	5	15	49	24	25	125	25	34	25	41	19	10	9	8	4	1
594	161	9	1,724	3,287	223	238	271	160	603	60	155	185	121	36	28	2
215	10	18	33	16	17	154	20	63	26	45	14	2	12	.....	1	3
85	.....	.....	52	.....	.....	32	.....	.....	.....	.....	1	.....	.....	.....	.....	4
182	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
11	.....	.....	6	6	.....	5	.....	1	2	2	.....	.....	.....	.....	.....	6
19	.....	.....	7	.....	7	12	1	9	2	.....	.....	.....	.....	.....	.....	7
159	10	18	11	6	5	120	15	45	17	43	12	2	10	.....	1	8
26	.....	.....	9	4	5	17	4	8	5	.....	2	.....	2	.....	.....	9
965.0	5.0	6.0	760.6	713.5	47.1	193.4	54.0	47.0	67.4	25.0	18.0	14.0	4.0	.....	1.0	10
1,077	.....	.....	967	.....	.....	109	.....	.....	.....	.....	1	.....	.....	.....	.....	11
1,148	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
954	5	6	751	705	46	192	54	46	67	25	18	14	4	.....	1	13
11.0	.....	.....	9.6	8.5	1.1	1.4	.....	1.0	0.4	.....	.....	.....	.....	.....	.....	14
1,684	13	15	926	798	128	730	122	139	369	100	78	47	31	16	7	15
1,939	.....	.....	1,469	.....	.....	469	.....	.....	.....	.....	2	.....	.....	.....	.....	16
5,210	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
8.3	.....	0.6	6.7	6.6	0.1	1.0	0.1	0.8	0.1	.....	1.5	0.2	1.3	1.2	2.9	18
8.4	.....	.....	7.2	.....	.....	0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
6.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
5.7	.....	.....	5.7	5.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
2.3	.....	0.6	0.7	0.7	.....	1.0	0.1	0.8	0.1	.....	1.2	0.2	1.0	1.2	2.9	22
0.2	.....	.....	0.2	0.2	.....	.....	.....	.....	.....	.....	0.3	.....	0.3	.....	.....	23
0.1	.....	.....	0.1	.....	0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
47	.....	2	20	16	4	25	3	10	2	10	3	1	2	1	.....	25
9	.....	.....	2	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
43	.....	2	17	14	3	24	3	9	2	10	3	1	2	1	.....	29
3	.....	.....	2	1	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	30
55	.....	3	22	16	6	30	3	11	2	14	3	1	2	1	.....	31
51	.....	3	21	15	6	27	2	11	.....	14	1	1	.....	1	.....	32
3	.....	.....	.....	.....	.....	3	1	.....	2	.....	2	.....	2	.....	.....	33
1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
198,957	.....	5	197,320	197,270	50	1,632	210	92	(4)	110	1,001	(4)	(4)	(4)	.....	35
4	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
203,121	.....	.....	203,000	.....	.....	121	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
6	.....	.....	4	.....	4	2	2	.....	.....	.....	.....	.....	.....	.....	1	38
8	.....	.....	7	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
1,890	.....	.....	1,750	.....	1,750	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	(4)	41
2,885	.....	.....	2,855	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
2,750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
3	.....	.....	.....	.....	.....	3	2	.....	1	.....	1	.....	1	6	3	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
140	.....	.....	.....	.....	.....	140	(4)	.....	(4)	.....	(4)	.....	(4)	209	185	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
800	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
29	6	1	8	8	.....	14	11	1	2	.....	27	12	15	12	6	50
4	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
599	138	(4)	243	243	.....	216	168	(4)	(4)	.....	416	275	141	206	38	52
64	.....	.....	22	.....	.....	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
173	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
[5] 1	.....	.....	[5] 1	[5] 1	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3	55
125	.....	.....	125	125	.....	.....	.....	.....	.....	.....	.....	.....	.....	66	8	56
27	6	1	6	6	.....	14	11	1	2	.....	27	12	15	9	3	57
466	138	(4)	110	110	.....	216	168	(4)	(4)	.....	416	275	141	140	30	58
1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
29	5	1	9	9	.....	14	11	1	2	.....	27	12	15	13	6	61
4	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
32,580	7,200	(4)	14,150	14,150	.....	11,210	9,540	(4)	(4)	.....	23,591	12,760	10,831	6,329	2,615	64
2,480	.....	.....	1,360	.....	.....	1,120	.....	.....	.....	.....	.....	.....	.....	.....	.....	65
9,550	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
27	5	1	7	7	.....	14	11	1	2	.....	26	12	14	8	3	67
31,980	7,200	(4)	13,550	13,550	.....	11,210	9,540	(4)	(4)	.....	23,585	12,760	10,825	6,123	2,430	68
1,184	1,440	(4)	1,936	1,936	.....	801	867	(4)	(4)	.....	907	1,063	773	765	810	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	200	.....	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	3	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	(4)	(4)	185	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	(4)	(4)	62	75
2	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
15	16	(4)	18	18	.....	14	13	(4)	(4)	.....	30	28	34	17	58	78
39	.....	.....	35	.....	.....	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
22	.....	.....	.....	.....	.....	22	.....	.....	(4)	.....	(4)	.....	(4)	30	74	81
15	16	(4)	18	18	.....	13	13	(4)	(4)	.....	26	28	21	16	25	82

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Data for less than 3 enterprises shown with permission of the enterprises involved.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Beadle	Bennett	Butte	Charles Mix	Corson	Custer
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]							
1	All farms.....1940...number.....	72,454	1,724	559	800	1,927	923	554
2	1930...number.....	83,157	2,078	831	982	2,241	1,543	629
3	Irrigated farms.....1940...number.....	967	5	8	478	11	10	25
4	1930...number.....	763	.....	.....	524	2	.....	13
5	Increase or decrease (-), 1930-1940.....percent....	26.7	.....	.....	-8.8	450.0	.....	92.3
	Operated by—							
6	(a) Owners and managers.....1940...number.....	586	3	7	246	8	6	18
7	1930...number.....	453	.....	.....	276	.....	.....	10
8	(b) Tenants.....1940...number.....	381	2	1	232	3	4	7
9	1930...number.....	310	.....	.....	248	.....	.....	3
10	Land in all farms.....1940...acres.....	39,473,584	715,469	647,427	1,132,961	665,845	967,781	526,219
11	Land in irrigated farms.....1940...acres.....	1,021,659	997	43,850	381,847	7,266	7,620	39,179
12	Average per farm.....1940...acres.....	1,057	199	5,481	590	661	762	1,567
13	(a) Operated by owners and managers.....1940...acres.....	863,702	[3]	[3]	216,010	6,606	4,740	33,024
14	Average per farm.....1940...acres.....	1,474	[3]	[3]	878	826	790	1,835
15	(b) Operated by tenants.....1940...acres.....	157,957	[3]	[3]	65,837	660	2,880	6,155
16	Average per farm.....1940...acres.....	415	[3]	[3]	284	220	720	879
17	Approximate land area.....1940...acres.....	48,983,040	807,040	759,680	1,440,640	723,840	1,616,000	933,280
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	60,198	137	780	38,460	255	55	941
19	(a) Cropland harvested.....1939...acres.....	50,424	137	780	33,685	235	53	675
20	(b) Crop failure.....1939...acres.....	2,286	.....	.....	195	20	2	50
21	(c) Pasture.....1939...acres.....	7,488	.....	.....	4,580	.....	.....	216
22	Area irrigated.....1929...acres.....	67,107	.....	.....	43,419	.....	.....	3,715
23	1919...acres.....	100,682	.....	.....	57,856	.....	.....	5,527
24	Increase or decrease (-), 1929-1939.....percent....	-10.3	.....	.....	-11.4	.....	.....	-74.7
25	Irrigable area in enterprises.....1940...acres.....	123,961	143	884	76,001	324	61	6,330
26	1930...acres.....	122,510	.....	.....	85,791	.....	.....	4,065
27	1920[4]...acres.....	188,382	.....	.....	89,353	.....	.....	11,080
28	Excess of irrigable area over the area irrigated..1940...acres.....	63,763	6	104	37,541	69	6	5,389
29	1930...acres.....	55,403	.....	.....	42,372	.....	.....	350
30	Area works were capable of supplying with water...1940...acres.....	121,847	143	804	76,001	324	61	6,330
31	1930...acres.....	109,550	.....	.....	79,091	.....	.....	3,715
32	1920...acres.....	150,914	.....	.....	82,073	.....	.....	9,018
33	Increase or decrease (-), 1930-1940.....percent....	11.2	.....	.....	-3.9	.....	.....	70.4
34	Excess, capability of works over area irrigated...1940...acres.....	61,649	6	24	37,541	69	6	5,389
35	1930...acres.....	42,443	.....	.....	35,672	.....	.....	.....
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	5.9	13.7	1.8	13.6	3.5	0.7	2.4
37	1929...percent....	17.7	.....	.....	21.4	.....	.....	16.8
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	49.4	95.8	97.0	50.6	78.7	90.2	14.9
39	1929...percent....	61.3	.....	.....	54.9	.....	.....	100.0
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	5,395,610	1,600	5,525	4,509,595	11,493	14,900	39,415
41	(a) Cost of irrigation works and equipment.....1940...dollars....	5,383,865	1,600	5,525	4,509,579	11,493	14,900	39,200
42	(b) Investment in water rights (reported).....1940...dollars....	11,745	.....	.....	16	.....	.....	215
43	Total investment in all enterprises.....1930...dollars....	4,502,117	.....	.....	3,989,174	.....	.....	9,150
44	1920...dollars....	5,465,248	.....	.....	4,349,699	.....	.....	118,501
45	Increase or decrease (-), 1930-1940.....percent....	19.8	.....	.....	13.0	.....	.....	330.8
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	44.28	11.19	6.87	59.34	35.47	244.26	6.23
47	1930...dollars....	41.10	.....	.....	50.44	.....	.....	2.46
48	1920...dollars....	36.21	.....	.....	53.00	.....	.....	13.14
49	Average investment per acre irrigated.....1939...dollars....	89.63	11.68	7.08	117.25	45.07	270.91	41.89
50	Estimated final investment in existing enterprises..1940...dollars....	5,432,934	1,600	6,075	4,509,595	12,493	14,900	39,415
51	1930...dollars....	5,174,417	.....	.....	4,648,174	.....	.....	9,150
52	1920...dollars....	5,500,748	.....	.....	4,350,849	.....	.....	127,951
53	Increase or decrease (-), 1930-1940.....percent....	5.0	.....	.....	-3.0	.....	.....	330.8
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	43.83	11.19	6.87	59.34	38.56	244.26	6.23
55	1930...dollars....	42.24	.....	.....	54.18	.....	.....	2.25
56	1920[4]...dollars....	29.20	.....	.....	48.69	.....	.....	11.55
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
57	Enterprises reporting maintenance and operation...1939...number.....	184	3	3	9	4	5	27
58	Area irrigated in these enterprises.....1939...acres.....	56,426	137	331	38,380	78	55	873
59	Cost of maintenance and operation.....1939...dollars....	71,986	433	505	49,747	170	785	1,538
60	Average cost, per acre irrigated.....1939...dollars....	1.28	3.16	1.53	1.30	2.18	14.27	1.76
61	1929...dollars....	1.33	.....	.....	1.76	.....	.....	0.22
62	Total annual charges (reported)[5] [6].....1939...dollars....	131,490	.....	.....	118,042	.....	.....	22
63	Average annual charge per acre irrigated.....1939...dollars....	2.68	.....	.....	3.12	.....	.....	.....
64	Area against which charges were assessed.....1939...acres.....	73,040	.....	.....	56,181	.....	.....	2,200
65	Average annual charge per acre assessed.....1939...dollars....	1.80	.....	.....	2.10	.....	.....	0.01
66	Total charges collected[5].....1939...dollars....	83,883	.....	.....	72,447	.....	.....	22
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	4,600,023	.....	.....	4,348,525	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	170	2	3	8	2	5	19
69	Area irrigated in these enterprises.....1939...acres.....	52,345	[3]	91	38,224	[3]	55	687
70	Water delivered in these enterprises.....1939...acre-feet..	58,797	[3]	68	35,491	[3]	112	480
71	Average water delivered per acre irrigated.....1939...acre-feet..	1.1	[3]	0.7	0.9	[3]	2.0	0.7
72	Average cost of water per acre irrigated.....1939...dollars....	2.72	[3]	23.18	3.09	[3]	14.27	1.17
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	16	2	1	2	.....	.....	.....
74	Irrigable area in these enterprises.....1939...acres.....	74,640	[3]	[3]	[3]	.....	.....	.....
75	Irrigated area in these enterprises.....1939...acres.....	36,072	[3]	[3]	[3]	.....	.....	.....
76	Area for which drains have been installed.....1939...acres.....	25,906	[3]	[3]	[3]	.....	.....	.....
77	Additional area needing drainage.....1939...acres.....	5,509	.....	.....	[3]	.....	.....	.....

[a] Census of Agriculture.
[1] Data not comparable between census years (see headnote).
[2] Percent not shown when more than 1,000.
[3] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Fall River	Harding	Hughes	Jones	Lawrence	Lyman	Meade	Mellette	Minnehaha	Pennington	Perkins	Yankton	All other counties[4]	
587	569	435	414	469	801	1,365	587	2,458	1,085	1,097	1,519	54,581	1
821	772	590	530	411	1,145	1,819	855	2,423	1,303	1,502	1,616	61,066	2
33	9	3	3	87	6	74	10	9	68	15	6	107	3
18	2	2	.....	87	5	22	.....	.....	78	2	.....	8	4
83.3	.....	.....	.....	.....	.....	236.4	.....	.....	-12.8	650.0	.....	(2)	5
27	8	2	3	47	5	50	8	9	56	12	6	65	6
13	.....	.....	.....	65	.....	19	.....	.....	55	.....	.....	15	7
6	1	1	.....	40	1	24	2	.....	12	3	.....	42	8
5	.....	.....	.....	22	.....	3	.....	.....	23	.....	.....	6	9
849,454	1,555,237	382,322	487,000	173,320	916,030	1,996,876	790,170	500,158	1,009,068	1,344,365	309,975	24,503,907	10
70,507	51,312	3,678	6,100	30,628	19,066	129,805	12,708	516	120,736	40,545	2,465	152,834	11
2,137	5,701	1,226	2,033	352	3,178	1,754	1,271	57	1,776	2,703	411	1,428	12
65,429	40,312	(3)	6,100	16,774	18,591	111,580	12,023	516	111,293	37,945	2,465	132,689	13
2,423	5,039	(3)	2,033	357	3,718	2,232	1,503	57	1,987	3,162	411	2,041	14
5,078	(3)	(3)	.....	13,854	(3)	18,225	(2)	.....	9,443	2,600	.....	20,145	15
846	(3)	(3)	.....	346	(3)	759	(3)	.....	787	867	.....	480	16
1,118,720	1,717,120	487,680	622,720	512,000	1,078,400	2,218,240	835,840	521,600	1,776,640	1,834,240	335,360	29,584,000	17
2,574	588	115	261	2,863	381	2,132	94	35	9,063	429	65	970	18
1,672	563	115	261	2,551	381	1,605	90	35	6,278	400	65	843	19
154	.....	.....	.....	181	.....	10	4	.....	1,530	29	.....	111	20
748	25	.....	.....	131	.....	517	.....	.....	1,255	.....	.....	16	21
1,388	.....	.....	.....	6,798	.....	1,125	.....	.....	9,575	.....	.....	1,087	22
2,891	928	.....	.....	6,219	.....	9,969	.....	.....	16,994	222	.....	76	23
85.4	.....	.....	.....	-57.9	.....	89.5	.....	.....	-5.3	.....	.....	.....	24
5,334	1,139	268	850	5,123	792	6,400	175	45	16,282	969	65	2,776	25
7,424	.....	.....	.....	7,208	.....	4,160	.....	.....	12,135	.....	.....	1,727	26
11,778	8,415	.....	.....	14,261	.....	26,873	.....	.....	23,750	2,059	.....	813	27
2,760	551	153	589	2,260	411	4,268	81	10	7,219	540	.....	1,806	28
6,036	.....	.....	.....	410	.....	3,035	.....	.....	2,560	.....	.....	640	29
5,274	689	159	550	5,037	652	6,163	172	35	16,082	774	65	2,532	30
3,314	.....	.....	.....	7,108	.....	4,160	.....	.....	10,835	.....	.....	1,327	31
7,358	5,442	.....	.....	8,516	.....	15,233	.....	.....	22,029	882	.....	363	32
59.1	.....	.....	.....	-29.1	.....	48.1	.....	.....	48.4	.....	.....	.....	33
2,700	101	44	289	2,174	271	4,031	78	.....	7,019	345	.....	1,562	34
1,926	.....	.....	.....	310	.....	3,035	.....	.....	1,260	.....	.....	240	35
3.7	1.1	3.1	4.3	9.8	2.0	1.6	0.7	6.8	7.5	1.1	2.6	0.6	36
6.3	.....	.....	.....	23.7	.....	9.4	.....	.....	16.3	.....	.....	3.3	37
48.8	85.3	72.3	47.5	56.8	58.4	34.6	54.7	100.0	56.4	55.4	100.0	38.3	38
41.9	.....	.....	.....	95.6	.....	27.0	.....	.....	88.4	.....	.....	81.9	39
27,884	14,728	14,180	2,805	72,987	35,356	261,370	6,260	4,510	138,748	10,411	2,225	221,618	40
26,350	14,725	14,180	2,500	67,686	35,356	261,370	6,260	4,510	134,423	10,365	2,225	221,618	41
1,534	3	.....	305	5,301	.....	.....	.....	.....	4,325	46	.....	.....	42
56,735	.....	.....	.....	57,540	.....	226,720	.....	.....	130,606	.....	.....	32,192	43
107,076	137,540	.....	.....	70,704	.....	453,344	.....	.....	182,314	35,270	.....	10,800	44
-50.9	.....	.....	.....	26.8	.....	15.3	.....	.....	6.2	.....	.....	.....	45
5.29	21.38	89.18	5.10	14.49	54.23	42.41	36.40	128.86	8.63	13.45	34.23	87.53	46
17.12	.....	.....	.....	8.10	.....	54.50	.....	.....	12.05	.....	.....	24.26	47
14.55	25.27	.....	.....	8.30	.....	29.76	.....	.....	8.28	39.99	.....	29.75	48
10.83	25.05	123.30	10.75	25.49	92.80	122.59	66.60	128.86	15.31	24.27	34.23	228.47	49
37,884	16,100	22,180	5,805	72,987	37,956	263,870	6,260	4,510	139,698	13,586	2,225	225,792	50
66,735	.....	.....	.....	57,540	.....	226,720	.....	.....	130,606	.....	.....	35,492	51
107,276	149,540	.....	.....	70,704	.....	460,894	.....	.....	185,264	37,470	.....	10,800	52
-43.2	.....	.....	.....	26.8	.....	16.4	.....	.....	7.0	.....	.....	.....	53
7.10	14.14	82.76	6.63	14.25	47.92	41.23	35.77	100.22	8.58	14.02	34.23	81.34	54
8.99	.....	.....	.....	7.98	.....	54.50	.....	.....	10.76	.....	.....	20.55	55
9.11	17.77	.....	.....	4.96	.....	17.15	.....	.....	7.80	18.20	.....	13.28	56
14	7	3	3	23	4	22	2	3	23	8	1	20	57
1,301	306	115	261	2,390	381	1,809	(3)	35	8,569	402	(3)	970	58
2,582	325	337	900	1,280	606	3,654	(3)	451	4,500	1,138	(3)	2,735	59
1.98	1.06	2.93	3.45	0.54	1.59	2.02	(3)	12.89	0.53	2.83	(3)	2.82	60
0.46	.....	.....	.....	0.29	.....	2.11	.....	.....	0.48	.....	.....	1.37	61
550	.....	.....	.....	917	.....	5,090	.....	.....	6,545	.....	.....	324	62
1.49	.....	.....	.....	0.84	.....	3.31	.....	.....	0.85	.....	.....	0.73	63
370	.....	.....	.....	1,089	.....	2,213	.....	.....	10,543	.....	.....	444	64
1.49	.....	.....	.....	0.84	.....	2.30	.....	.....	0.62	.....	.....	0.73	65
450	.....	.....	.....	717	.....	3,838	.....	.....	6,409	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	228,870	5,700	.....	.....	.....	.....	16,928	67
6	7	2	3	9	[7] 1	53	3	2	20	7	3	15	68
803	393	(3)	261	1,271	41	2,032	94	(3)	6,914	244	65	884	69
2,745	497	(3)	296	3,481	60	1,941	186	(3)	11,316	311	52	1,011	70
3.4	1.3	(3)	1.1	2.7	1.5	1.0	2.0	(3)	1.6	1.3	0.8	1.1	71
1.42	1.07	(3)	3.45	0.71	3.54	3.31	7.50	(3)	0.94	2.48	25.00	2.92	72
.....	2	[7] 1	.....	.....	.....	2	1	.....	2	1	.....	2	73
.....	(3)	210	.....	.....	.....	(3)	(3)	.....	(3)	(3)	.....	(3)	74
.....	(3)	101	.....	.....	.....	(3)	(3)	.....	(3)	(3)	.....	(3)	75
.....	(3)	20	.....	.....	.....	(3)	.....	.....	(3)	(3)	.....	(3)	76
.....	.....	10	.....	.....	.....	(3)	(3)	.....	(3)	.....	.....	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.
[7] Data for less than 3 enterprises shown with permission of the enterprise involved.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Beadle	Bennett	Butte	Charles Mix	Corson	Custer
	FARM VALUES, 1940[*]							
1	Land and buildings, all farms.....dollars..	505,452,178	8,315,925	3,991,668	5,336,406	9,933,518	4,186,105	3,001,485
2	Land and buildings, irrigated farms.....dollars..	9,972,519	178,445	275,900	3,109,683	74,200	57,162	243,025
	Operated by—							
3	(a) Owners and managers.....dollars..	7,699,778	170,445	274,900	1,931,233	67,000	41,042	181,425
4	(b) Tenants.....dollars..	2,272,741	(2)	(2)	1,178,450	7,200	16,120	61,600
5	Average, land and buildings, per farm.....dollars..	10,312.84	35,689.00	34,487.50	6,505.61	6,745.45	5,716.20	9,721.00
6	per acre in farms.....dollars..	9.76	178.98	6.29	11.03	10.21	7.50	6.20
7	Buildings, irrigated farms reporting value.....number...	935	5	7	469	11	9	25
8	Total reported.....dollars..	2,173,503	45,056	15,200	880,155	11,250	18,000	44,950
9	Average, per irrigated farm reporting.....dollars..	2,324.60	9,011.20	2,171.43	1,876.66	1,022.73	2,000.00	1,798.00
10	per acre on all irrigated farms.....dollars..	2.13	45.19	0.35	3.12	1.55	2.36	1.15
11	Buildings, nonirrigated farms reporting value.....number...	67,742	1,595	509	316	1,849	838	515
12	Total reported.....dollars..	131,578,350	2,635,603	381,150	442,160	2,468,553	645,660	569,761
13	Average, per nonirrigated farm reporting.....dollars..	1,942.35	1,652.42	748.82	1,399.24	1,335.07	770.48	1,106.33
14	per acre on all nonirrigated farms.....dollars..	3.42	3.69	0.63	0.52	3.75	0.67	1.17
15	Implements and machinery, irrigated farms reporting value..number...	908	5	8	459	10	9	23
16	Total reported.....dollars..	1,164,804	14,956	13,775	588,062	9,300	9,975	16,700
17	Average, per irrigated farm reporting.....dollars..	1,282.82	2,991.20	1,721.88	1,281.18	930.00	1,108.33	726.09
18	per acre, on all irrigated farms.....dollars..	1.14	15.00	0.31	2.09	1.28	1.31	0.43
19	Implements and machinery, nonirrigated farms reporting value.....number...	65,568	1,528	496	289	1,676	824	490
20	Total reported.....dollars..	58,804,590	1,108,046	358,424	209,597	1,172,711	515,036	269,682
21	Average, per acre, on all nonirrigated farms.....dollars..	1.53	1.55	0.59	0.25	1.78	0.54	0.55
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[3] 277	3	6	11	9	5	36
23	1930...number.....	[3] 122	.....	.....	10	1	.....	8
24	1920...number.....	292	.....	.....	21	.....	.....	61
25	Average size of enterprise based on irrigable area.....1940...acres.....	448	48	147	6,909	36	12	176
26	1930...acres.....	1,004	.....	.....	8,579	.....	.....	508
27	1920[4]...acres.....	645	.....	.....	4,255	.....	.....	182
28	Diversion dams.....1940...number.....	258	.....	10	8	.....	1	65
29	Main canals and laterals.....1940...length, miles.....	1,049.3	.....	1.0	681.1	.....	3.0	53.0
30	1930...length, miles.....	1,082	.....	.....	695	.....	.....	27
31	1920...length, miles.....	1,258	.....	.....	529	.....	.....	132
32	1940...capacity, c.f.s.[5]....	1,948	8	14	783	10	9	152
33	1930...capacity, c.f.s.[5]....	1,995	.....	.....	826	.....	.....	50
34	1920...capacity, c.f.s.[5]....	5,427	.....	.....	1,908	.....	.....	317
35	Pipe lines[6].....1940...length, miles.....	17.3	.....	0.4	6.4	.....	.....	0.8
36	Storage dams.....1940...number.....	74	.....	.....	3	.....	2	9
37	Reservoirs.....1940...number.....	82	.....	.....	3	.....	2	9
38	1930...number.....	5	.....	.....	1	.....	.....	.....
39	1920...number.....	119	.....	.....	13	.....	.....	19
40	1940...capacity, acre-feet..	209,785	.....	.....	197,030	.....	(2)	90
41	1930...capacity, acre-feet..	203,124	.....	.....	203,000	.....	.....	.....
42	1920...capacity, acre-feet..	212,264	.....	.....	204,386	.....	.....	939
43	Wells, flowing.....1940...number.....	19	.....	.....	.....	7	.....	.....
44	1930...number.....	13	.....	.....	3	.....	.....	1
45	1920...number.....	4	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	5,377	.....	.....	.....	1,185	.....	.....
47	1930...yield, g.p.m.....	4,825	.....	.....	30	.....	.....	30
48	1920...yield, g.p.m.....	2,750	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	16	.....	1	.....	.....	.....	.....
50	1930...number.....	1	.....	.....	.....	.....	.....	.....
51	1920...number.....	1	.....	.....	.....	.....	.....	.....
52	1940...yield, g.p.m.....	1,039	.....	(2)	.....	.....	.....	.....
53	1930...yield, g.p.m.....	375	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	800	.....	.....	.....	.....	.....	.....
55	Pumping plants.....1940...number.....	119	4	5	3	5	5	1
56	1930...number.....	8	.....	.....	1	.....	.....	.....
57	1920...number.....	25	.....	.....	3	.....	.....	3
58	Prime movers.....1940...capacity, hp.....	2,060	85	11	143	55	90	(2)
59	1930...capacity, hp.....	92	.....	.....	20	.....	.....	.....
60	1920...capacity, hp.....	498	.....	.....	21	.....	.....	28
61	Pumps.....1940...capacity, g.p.m.....	103,050	3,170	1,316	7,000	4,250	3,450	(2)
62	1930...capacity, g.p.m.....	4,027	.....	.....	1,200	.....	.....	.....
63	1920...capacity, g.p.m.....	23,320	.....	.....	1,750	.....	.....	2,170
64	Pumping lift, from all sources.....1940...average, feet.....	20	12	44	20	25	8	(2)
65	1930...average, feet.....	27	.....	.....	14	.....	.....	.....
66	1920...average, feet.....	21	.....	.....	16	.....	.....	14
67	from pumped wells.....1940...average, feet.....	55	.....	(2)	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	18	.....	.....	2	.....	.....	1
69	Irrigated area in these enterprises.....acres....	44,939	.....	.....	(2)	.....	.....	.....
70	Wages and salaries paid and payable.....dollars..	60,964	.....	.....	(2)	.....	.....	(2)
71	Persons employed during week ending April 29.....number...	114	.....	.....	(2)	.....	.....	(2)

[*] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or enterprises reported in the 1940 Census.
[3] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Fall River	Harding	Hughes	Jones	Lawrence	Lyman	Meade	Mellette	Minnehaha	Pennington	Perkins	Yankton	All other counties[1]	
3,733,765	3,843,034	1,760,179	2,004,984	3,266,219	4,853,373	7,822,211	2,313,207	29,111,936	6,206,611	4,699,509	12,797,737	388,274.296	1
357,493	132,332	36,545	25,200	919,520	47,320	569,815	78,965	204,050	1,375,315	129,975	933,990	1,223,584	2
316,093	118,332	(2)	25,200	517,980	41,350	476,660	72,365	204,050	1,139,615	120,855	933,990	1,033,773	3
41,400	(2)	(2)	.....	401,540	(2)	93,155	(2)	.....	235,700	9,120	.....	189,811	4
10,833.12	14,703.56	12,181.67	8,400.00	10,569.20	7,886.67	7,700.20	7,896.50	22,672.22	20,225.22	8,665.00	155,665.00	11,435.36	5
5.07	2.58	9.94	4.13	30.02	2.48	4.39	6.21	395.45	11.39	3.21	378.90	8.01	6
31	9	3	3	86	6	70	10	9	66	14	5	97	7
43,300	24,000	9,275	7,000	236,290	8,800	124,950	26,910	100,750	243,300	33,750	59,000	241,567	8
1,396.77	2,666.67	3,091.67	2,333.33	2,747.56	1,466.67	1,785.00	2,691.00	11,194.44	3,686.36	2,410.71	11,800.00	2,490.38	9
0.61	0.47	2.52	1.15	7.71	0.46	0.96	2.12	195.25	2.02	0.83	23.94	1.58	10
536	544	396	354	380	737	1,237	545	2,408	975	1,022	1,459	51,527	11
577,615	710,650	391,400	349,645	694,330	1,014,066	1,581,465	339,745	8,961,197	1,107,605	1,247,482	3,489,310	103,970,953	12
1,077.64	1,306.34	988.38	987.70	1,827.18	1,375.94	1,278.47	623.39	3,721.43	1,136.01	1,220.63	2,391.58	2,017.80	13
0.74	0.47	1.03	0.73	4.87	1.13	0.85	0.44	17.94	1.25	0.96	11.35	4.27	14
30	8	2	3	76	5	68	9	8	66	15	4	100	15
31,628	8,920	(2)	4,675	99,450	3,000	64,655	3,895	14,025	90,050	24,805	40,000	125,133	16
1,054.27	1,115.00	(2)	1,558.33	1,308.55	600.00	950.81	432.78	1,753.12	1,364.39	1,653.67	10,000.00	1,251.33	17
0.45	0.17	(2)	0.77	3.25	0.16	0.50	0.31	27.18	0.75	0.61	16.23	0.82	18
514	530	393	371	360	731	1,140	521	2,276	894	983	1,404	50,148	19
346,623	388,902	245,240	311,926	250,566	700,058	768,509	250,366	2,787,470	583,208	676,081	1,246,022	46,616,123	20
0.44	0.26	0.65	0.65	1.76	0.78	0.41	0.32	5.58	0.66	0.52	4.05	1.91	21
18	10	3	3	26	4	75	3	3	30	9	3	20	22
13	3	2	.....	51	5	1	.....	.....	18	2	.....	8	23
24	.....	.....	.....	48	.....	43	.....	.....	40	.....	.....	55	24
296	114	89	283	197	198	85	58	15	543	108	22	139	25
571	.....	.....	.....	141	.....	4,160	.....	.....	674	.....	.....	.....	26
491	.....	.....	.....	297	.....	625	.....	.....	594	.....	.....	205	27
18	13	.....	.....	18	2	75	.....	.....	25	8	.....	15	28
40.0	9.0	6.0	4.0	42.1	13.0	68.4	1.0	.....	75.4	6.3	.....	46.0	29
25	.....	.....	.....	257	.....	15	.....	.....	57	.....	.....	6	30
83	.....	.....	.....	86	.....	170	.....	.....	150	.....	.....	108	31
96	30	3	18	115	20	150	20	1	386	50	4	79	32
84	.....	.....	.....	353	.....	290	.....	.....	335	.....	.....	57	33
107	.....	.....	.....	322	.....	655	.....	.....	1,904	.....	.....	214	34
0.1	0.2	2.8	.....	0.1	0.2	0.8	0.7	0.9	0.1	0.1	.....	3.7	35
3	6	.....	.....	5	4	25	2	.....	2	7	.....	6	36
3	6	.....	.....	7	4	30	2	.....	3	7	.....	6	37
1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	38
10	.....	.....	.....	3	.....	19	.....	.....	4	.....	.....	51	39
210	300	.....	.....	550	97	355	(2)	.....	722	862	.....	8,973	40
120	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3	41
189	.....	.....	.....	46	.....	294	.....	.....	87	.....	.....	6,323	42
2	.....	.....	.....	4	5	.....	.....	.....	.....	.....	.....	1	43
.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	5	44
.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	45
(2)	.....	.....	.....	1,750	2,300	.....	.....	.....	.....	.....	.....	(2)	46
.....	.....	.....	.....	2,825	.....	.....	.....	.....	.....	.....	.....	1,940	47
.....	.....	.....	.....	2,750	.....	.....	.....	.....	.....	.....	.....	.....	48
2	.....	3	.....	.....	.....	.....	.....	3	1	.....	6	.....	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	51
(2)	.....	450	.....	.....	.....	.....	.....	185	(2)	.....	209	.....	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	375	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	800	.....	.....	.....	54
6	3	6	4	.....	3	7	7	3	9	3	6	39	55
2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	4	56
2	.....	.....	.....	.....	.....	2	.....	.....	4	.....	.....	11	57
87	70	117	115	.....	110	122	90	8	172	63	81	614	58
42	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	28	59
30	.....	.....	.....	.....	.....	30	.....	.....	64	.....	.....	325	60
6,440	5,700	2,850	7,500	.....	2,350	8,370	6,325	185	7,970	2,540	1,709	31,125	61
1,120	.....	.....	.....	160	.....	.....	.....	.....	.....	.....	.....	1,547	62
1,000	.....	.....	.....	.....	.....	1,900	.....	.....	2,730	.....	.....	13,770	63
12	13	14	17	.....	40	15	20	74	16	34	24	18	64
41	.....	.....	.....	35	.....	.....	.....	.....	.....	.....	.....	20	65
28	.....	.....	.....	.....	.....	12	.....	.....	13	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	.....	.....	74	(2)	.....	30	.....	67
1	.....	.....	.....	3	[8] 1	1	.....	.....	8	.....	.....	1	68
(2)	.....	.....	.....	969	.....	(2)	.....	.....	5,388	.....	.....	.....	69
(2)	.....	.....	.....	218	10,599	(2)	.....	.....	1,601	.....	.....	(2)	70
(2)	.....	.....	.....	14	31	.....	.....	.....	15	.....	.....	.....	71

[5] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[6] Includes siphons and farm pipe lines reported.
[7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.
[8] Data for less than 3 enterprises shown with permission of the enterprise involved.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[9]168,732,160	[1]167,963,520	167,934,720	167,934,720	167,934,720	167,934,720	167,934,720
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	418,002	501,017	495,489	436,033	417,770	352,190	228,126
Land in all farms.....acres....	137,683,372	137,597,389	124,707,130	114,020,621	112,435,067	125,807,017	51,406,937
Farms irrigated:[2]							
Farms.....number...	[3]19,568	16,435	10,861	5,974	5,238	1,325	[4]623
Increase or decrease (-) over preceding census....percent..	[5]80.2	.....	81.8	14.1	295.3	112.7	.....
Proportion of all farms.....percent..	4.7	3.3	2.2	1.4	1.3	0.4	0.3
Land in farms.....acres....	11,619,780	([6])	1,899,240	([6])	([6])	([6])	([6])
Proportion of all farm land.....percent..	8.4	([6])	1.5	([6])	([6])	([6])	([6])
Area irrigated.....acres....	[7]894,638	[8]568,533	[9]594,287	([10])	([10])	49,652	18,419
Increase or decrease (-) over preceding census....percent..	[5]50.5	.....	.....	.....	.....	169.6	.....
Proportion of total land area of State.....percent..	0.5	0.3	0.4	.....	.....	([11])	([11])
Proportion of all farm land.....percent..	0.6	0.4	0.5	.....	.....	([11])	([11])
Value of irrigated farms (land and buildings).....dollars..	248,746,614	([6])	180,145,521	([6])	([6])	([6])	([6])
Average per farm.....dollars..	12,711.91	([6])	16,586.46	([6])	([6])	([6])	([6])
Average per acre.....dollars..	21.41	([6])	94.85	([6])	([6])	([6])	([6])
Value of farm implements and machinery[12].....dollars..	20,123,937	([6])	9,995,783	([6])	([6])	([6])	([6])
Average per farm[12].....dollars..	1,028.41	([6])	920.34	([6])	([6])	([6])	([6])
Average per acre[12].....dollars..	1.73	([6])	5.26	([6])	([6])	([6])	([6])
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	4,040	([6])	1,728	1,371	2,772	([6])	([6])
Farms irrigated.....number...	[3]30,670	([6])	([6])	([6])	([6])	([6])	([6])
Area irrigated.....acres....	1,045,224	([6])	798,917	586,120	451,130	([6])	([6])
Area existing works were capable of supplying with water.....acres....	1,773,812	([6])	1,177,415	1,150,542	690,991	([6])	([6])
Area irrigable.....acres....	2,180,796	([6])	1,566,876	[13]1,687,447	[13]1,253,173	([6])	([6])
Additional area existing works were capable of supplying with water.....acres....	728,588	([6])	378,498	564,422	239,861	([6])	([6])
Additional irrigable area in enterprises not supplied with water.....acres....	1,135,572	([6])	767,959	[13]1,101,327	[13]802,043	([6])	([6])
Investment in irrigation enterprises.....dollars..	66,441,376	([6])	49,022,164	35,072,739	13,487,347	1,027,608	([6])
Increase or decrease (-) over preceding census.....percent..	[5]35.5	([6])	39.8	160.0	([14])	.....	.....
Average per acre based on area works were capable of supplying with water.....dollars..	37.46	([6])	41.64	30.48	19.52	([6])	([6])
Increase or decrease (-) over preceding census....percent..	[5]-10.0	([6])	36.6	56.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	67,319,032	([6])	59,555,624	39,860,871	14,754,172	([6])	([6])
Average per acre based on irrigable area in enterprises.....dollars..	30.87	([6])	38.01	[13]23.62	[13]11.77	([6])	([6])
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	3.89	([6])	4.74	6.92	3.25	([6])	([6])

[1] Due to relocation of the one-hundredth meridian (U. S. Supreme Court decision, March 17, 1939), 28,800 acres were transferred to Texas from Oklahoma. [2] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [3] Difference in number of farms between the Census of Agriculture and the Census of Irrigation is in part due to some large enterprises reporting ownership tracts and/or water users rather than number of farms as defined by the Census. See text also. [4] Exclusive of number of rice irrigators, whose acreage covered only 178 acres in the State. [5] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [6] Not available. [7] Irrigated land from which crops were harvested plus 50,799 acres of irrigated land used only for pasture. [8] Irrigated land from which crops were harvested. [9] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [10] Data were secured for crops irrigated but the returns were considered relatively incomplete. [11] Less than one-tenth of 1 percent. [12] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [13] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [14] Percent not shown when more than 1,000. [9] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	418,002	137,683,372	26,044,008	843,839	50,799	2,589,978,936	18.81	418,269,553	3.04	180,744,212	1.31
Owners and managers.....	213,540	97,431,128	14,046,709	536,086	36,773	1,701,988,851	17.47	288,369,708	2.96	111,796,875	1.15
Tenants.....	204,462	40,252,244	11,997,299	307,753	14,026	887,990,085	22.06	129,899,845	3.23	68,947,337	1.71
Irrigated farms, total.....	19,568	11,619,780	1,950,600	843,839	50,799	248,746,614	21.41	32,848,639	2.83	20,123,937	1.73
Owners and managers.....	12,181	9,672,335	1,268,823	536,086	36,773	194,702,077	20.13	26,503,742	2.74	13,821,282	1.43
Tenants.....	7,387	1,947,445	681,777	307,753	14,026	54,044,537	27.75	6,344,897	3.26	6,302,655	3.24
Wholly irrigated farms.....	11,205	5,147,715	577,721	577,721	27,958	120,537,584	23.42	15,301,239	2.97	9,193,125	1.79
Owners and managers.....	6,967	4,293,884	353,057	353,057	20,245	94,896,250	22.10	12,653,579	2.95	6,172,865	1.44
Tenants.....	4,238	853,831	224,664	224,664	7,713	25,641,334	30.03	2,647,660	3.10	3,020,260	3.54
Partly irrigated farms.....	8,363	6,472,065	1,372,879	266,118	22,841	128,209,030	19.81	17,547,400	2.71	10,930,812	1.69
Owners and managers.....	5,214	5,378,451	915,766	183,029	16,528	99,805,827	18.56	13,850,163	2.58	7,648,417	1.42
Tenants.....	3,149	1,093,614	457,113	83,089	6,313	28,403,203	25.97	3,697,237	3.38	3,282,395	3.00
Nonirrigated farms, total.....	398,434	126,063,592	24,093,408	.....	.....	2,341,232,322	18.57	385,420,914	3.06	160,620,275	1.27

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; AREA IRRIGATED, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	4,040	2,180,796	1,773,812	1,045,224	798,917	586,120	30.8	1,017,411	1,002,679	979,854	2.5	4.94	2.01
Primary sources:													
Streams, gravity	127	348,652	299,120	191,124	168,246	73,982	13.6	172,589	189,291	171,663	2.8	2.98	1.05
Streams, pumped	717	1,281,370	955,541	525,547	527,700	421,538	-0.4	523,739	520,297	519,423	2.8	6.42	2.31
Streams, gravity and pumped	17	33,719	15,694	12,007	3,200	350	275.2	12,007	12,007	12,007	2.5	7.45	3.02
Wells, pumped	2,833	438,390	428,992	262,774	60,793	39,483	332.2	260,004	231,988	231,236	1.3	3.10	2.35
Wells, flowing	65	4,163	4,163	2,949	1,831	3,256	61.1	2,860	1,302	1,299	1.7	2.44	1.46
Wells, pumped and flowing	6	1,258	1,258	1,141	.....	1,727	.....	1,141	1,125	1,125	2.7	1.90	0.72
Lakes, gravity	7	964	619	199	.....	.....	.....	198	83	83	0.8	0.23	0.29
Lakes, pumped	52	9,859	6,898	4,406	1,861	597	136.8	4,389	4,215	4,215	2.2	2.40	1.09
Springs	84	12,319	12,300	9,715	9,328	8,686	4.1	8,377	9,449	8,143	1.6	0.70	0.44
Springs and streams	2	(2)	(2)	(2)	.....	.....	.....	(2)	(2)	(2)	(2)	(2)	(2)
Stored storm water	25	4,275	4,275	2,622	298	11,572	779.9	750	2,551	720	1.1	1.20	1.11
City water	3	9	9	9	.....	.....	.....	9	.....	.....	1.0	.....	.....
Sewage	17	1,944	1,679	1,499	2,070	260	-27.6	898	559	194	3.8	5.33	1.40
Streams, gravity; wells, pumped	15	2,964	2,954	1,956	850	454	130.1	1,345	1,375	1,320	1.6	3.58	2.19
Streams, gravity; wells, flowing	1	(2)	(2)	(2)	.....	45	.....	(2)	(2)	(2)	(2)	(2)	(2)
Streams, pumped; wells, pumped	20	11,167	10,667	7,858	.....	.....	.....	7,849	7,242	7,233	1.2	3.76	3.05
Waste water, seepage or drainage	6	5,555	5,455	903	.....	.....	.....	763	763	763	17.7	4.52	0.25
Other mixed	24	12,549	12,549	8,884	19,247	24,170	-53.8	8,862	8,801	8,799	1.2	3.34	2.80
Not reported	.....	.....	.....	.....	3,493	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	5	165,156	136,776	65,047	.....	.....	.....	20,945	49,467	20,945	1.4	1.30	0.96
Streams, pumped	12	3,287	2,395	1,802	254	.....	609.4	1,802	1,670	1,670	2.0	2.50	1.23
Wells, pumped	2	(4)	(4)	(4)	.....	.....	.....	(4)	(4)	(4)	(4)	(4)	(4)
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [4] Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	66,441,376	100.0	37.46	49,022,164	100.0	41.64	-4.18	1,002,202	3.89	772,160	4.74	-0.85	558,306	6.92
Primary sources:														
Streams, gravity	19,205,590	28.9	64.21	16,336,367	33.3	67.13	-2.92	189,291	2.02	164,199	3.14	-1.12	66,906	1.98
Streams, pumped	36,391,597	54.8	38.08	26,286,985	53.6	32.80	5.28	519,820	4.99	524,847	4.96	0.03	412,118	7.55
Streams, gravity and pumped	281,287	0.4	17.92	229,067	0.5	48.74	-30.82	12,007	6.08	200	8.00	-1.92	350	8.57
Wells, pumped	6,437,794	9.7	15.01	3,879,881	7.9	47.15	-32.14	231,988	3.10	49,053	8.50	-5.40	31,749	11.07
Wells, flowing	191,399	0.3	45.98	206,672	0.4	86.69	-40.71	1,302	1.71	828	0.83	0.88	1,528	4.45
Wells, pumped and flowing	26,395	(3)	20.98	.....	.....	.....	.....	1,125	1.90	.....	.....	.....	1,253	16.69
Lakes, gravity	23,625	(3)	38.17	.....	.....	.....	.....	83	0.23	.....	.....	.....	.....	.....
Lakes, pumped	168,872	0.3	24.48	51,737	0.1	20.19	4.29	4,215	2.41	1,836	3.69	-1.28	517	6.32
Springs	91,151	0.1	7.41	376,015	0.8	35.73	-28.32	9,449	0.98	9,100	1.70	-0.72	8,217	2.72
Springs and streams	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Stored storm water	15,305	(3)	3.58	18,400	(3)	48.17	-44.59	2,551	0.53	.....	.....	.....	11,386	5.51
City water	160	(3)	17.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage	105,151	0.2	62.63	101,000	0.2	48.79	13.84	559	3.67	2,010	2.05	1.62	.....	.....
Streams, gravity; wells, pumped	62,360	0.1	21.11	43,887	0.1	51.03	-29.92	1,375	3.54	847	8.84	-5.30	454	16.83
Streams, gravity; wells, flowing	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Streams, pumped; wells, pumped	354,127	0.5	33.20	.....	.....	.....	.....	7,242	3.79	.....	.....	.....	.....	.....
Waste water, seepage or drainage	113,870	0.2	20.87	.....	.....	.....	.....	763	4.52	.....	.....	.....	.....	.....
Other mixed	411,305	0.6	32.78	1,350,425	2.8	57.96	-25.18	8,801	2.03	19,234	4.61	-2.58	23,828	5.95
Not reported	.....	.....	.....	139,720	0.3	40.00	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[6]														
Streams, gravity and/or storage	2,127,041	3.2	15.55	.....	.....	.....	.....	49,467	0.57	.....	.....	.....	.....	.....
Streams, pumped	12,147	(3)	5.07	2,008	(5)	1.18	3.89	1,670	2.50	254	7.87	-5.37	.....	.....
Wells, pumped	(6)	(6)	(6)	.....	.....	.....	.....	(6)	(6)	.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text). [6] Data are not shown because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	1,045,224	66,909	798,917	586,120	30.8
Individual and partnership	349,774	1,826	132,291	110,680	164.4
Cooperative, incorporated	49,663	.....	58,691	103,378	1.0
Cooperative, unincorporated	9,640	(2)			
Irrigation district	382,458	(2)	452,461	88,571	-15.5
Commercial	190,763	(2)	89,996	262,892	112.0
Bureau of Reclamation[3] *	61,153	12,681	65,442	20,284	-6.6
State	322	.....	36	65	794.4
City and/or sewage	1,451	.....	.....	250	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	1,773,812	139,231	1,177,415	1,150,542	50.7
Individual and partnership	563,686	2,655	189,739	216,351	197.1
Cooperative, incorporated	76,100	.....	117,815	256,304	-23.4
Cooperative, unincorporated	14,141	(2)			

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Irrigation district	696,415	(2)	604,595	170,548	15.2
Commercial	348,392	(2)	199,230	481,899	74.9
Bureau of Reclamation[3] *	69,010	17,119	66,000	25,070	4.6
State	445	.....	36	120	(4)
City and/or sewage	5,623	.....	.....	250	.....
IRRIGABLE AREA[5]					
Total	2,180,796	168,503	1,566,876	1,687,447	39.2
Individual and partnership	582,525	3,547	219,877	328,461	164.9
Cooperative, incorporated	96,600	.....	184,047	294,761	-39.5
Cooperative, unincorporated	14,741	(2)			
Irrigation district	769,607	(2)	728,286	266,674	5.7
Commercial	636,332	(2)	367,630	738,685	73.1
Bureau of Reclamation[3] *	74,708	17,119	67,000	58,106	11.5
State	445	.....	36	120	(4)
City and/or sewage	5,838	.....	.....	640	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [3] U. S. Dept. of the Interior. [4] Percent not shown when more than 1,000. [5] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 532.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1]: Farms served	AREA IRRIGATED, 1939[1]: Total area	AREA IRRIGATED, 1939[1]: Cropland: From which crops were harvested	AREA IRRIGATED, 1939[1]: Cropland: On which crops failed	AREA IRRIGATED, 1939[1]: Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	4,040	108	2,180,796	1,773,812	35.94	3.86	15.37	0.49	30,670	1,045,224	961,765	12,589	70,870
Individual and partnership	3,924	18	582,525	563,686	16.06	2.98	4.95	2.23	4,099	349,774	312,703	4,257	32,814
Cooperative, incorporated	15	12	96,600	76,100	23.62	5.09	.....	.....	348	49,663	49,118	81	464
Cooperative, unincorporated	23	15	14,741	14,141	9.53	1.12	(4)	(4)	136	9,640	5,752	750	3,138
Irrigation district	41	40	769,607	696,415	60.29	3.51	(4)	(4)	21,268	382,458	346,444	5,912	30,102
Commercial	23	19	636,332	348,392	22.10	6.24	(4)	(4)	1,773	190,763	187,043	12	3,708
U. S. Bureau of Reclamation*	[5]2	2	74,708	69,010	41.27	2.39	17.52	1.10	3,000	61,153	58,978	1,565	610
State	4	1	445	445	30.42	4.33	.....	.....	9	322	322	.....	.....
City and/or sewage	8	1	5,838	5,623	37.26	5.62	.....	.....	37	1,451	1,405	12	34

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprises involved. * For explanation of areas and investment, see text, p. 532.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[2]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	66,441,376	64,300,488	2,140,888	65,884,261	557,115	49,022,164	35,072,739	35.5	36.25	15.38	2,575,967	877,656
Individual and partnership	9,105,016	9,091,669	13,347	9,068,756	36,260	9,371,780	8,256,568	-2.8	16.13	5.03	1,140	155,285
Cooperative, incorporated	1,798,140	1,798,140	.....	1,797,197	943				23.63	.....	27,452	20,000
Cooperative, unincorporated	136,760	134,760	(2)	136,760	.....	3,459,486	3,821,844	-44.1	9.53	(2)	300	.....
Irrigation district	42,700,333	42,369,323	(2)	42,317,338	382,995	26,543,073	5,449,142	60.9	60.84	(2)	2,283,148	599,371
Commercial	9,330,311	7,835,780	(2)	9,193,410	136,901	3,404,080	13,825,409	174.1	22.49	(2)	247,927	3,000
U. S. Bureau of Reclamation*	3,147,764	2,847,764	300,000	3,147,764	.....	6,238,245	3,673,476	-49.5	41.27	17.52	15,000	100,000
State	13,552	13,552	.....	13,536	16	5,500	6,802	146.4	30.45	.....	.....	.....
City and/or sewage	209,500	209,500	.....	209,500	.....	.....	39,498	.....	37.26	.....	1,000	.....

[1] Only for enterprises serving 5 or more farms. [2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. * For explanation of investment, see text, p. 532.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE: CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING					ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING (totals, as reported)		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 60	*Acres* 1,532,436	*Acres* 1,140,250	*Dollars* 36,041,388	*Dollars* 34.02	*Dollars* 33.98	*Number* 14	*Dollars* 730,703	*Dollars* 647,425	*Dollars* 2.45	*Acres* 1,252,742	*Dollars* 4,086,704	*Dollars* 3,730,448
Partnership	3	3,363	3,363	100,032	36.80	29.74	.....	.....	.....	.....	5,713	14,830	6,156
Cooperative, incorporated	8	93,566	73,566	659,240	12.41	8.96	.....	.....	(6)	.....	54,393	339,892	298,960
Cooperative, unincorporated	2						2	(6)	.....	(6)	6,079	6,595	3,478
Irrigation district	36	775,822	712,654	28,278,993	37.78	41.27	10	606,323	543,003	2.44	774,047	1,756,866	1,824,234
Commercial	10	584,977	281,657	5,184,123	27.07	20.78	2	(6)	(6)	(6)	330,104	1,805,375	1,320,019
Bureau of Reclamation[7] [8]	[8] 1	74,708	69,010	[9] 1,819,000	26.25	26.36	.....	.....	.....	.....	81,979	160,146	277,701
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	427	3,000	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $8.32. [4] Based on primary enterprises only; State average for supplemental enterprises is $11.26. [5] Based on primary enterprises only; State average for supplemental enterprises not shown because less than 3 enterprises reported in the 1940 Census. [6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Data for less than 3 enterprises shown with permission of the enterprises involved. [9] Represents indebtedness of irrigation districts to the U. S. Government. * For explanation of areas and investment, see text, p. 532.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises: Irrigated area reporting 1939	Primary enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 1,002,202	*Dollars* 3,865,224	*Acres* 51,197	*Dollars* 32,666	*Dollars* 3.86	*Dollars* 0.64	*Number* 82	*Dollars* 1,628,198	*Number* 1,698
Individual and partnership	308,959	920,467	1,694	3,783	2.98	2.23	8	6,650	53
Cooperative, incorporated	49,663	252,898	.....	.....	5.09	.....	11	[2] 77,857	[2] 150
Cooperative, unincorporated	8,038	8,994	(3)	(3)	1.12	(3)	7	2,919	19
Irrigation district	382,458	1,340,757	(3)	(3)	3.51	(3)	36	949,798	1,006
Commercial	190,763	1,189,616	(3)	(3)	6.24	(3)	18	480,824	397
U. S. Bureau of Reclamation*	61,153	146,140	12,681	13,927	2.39	1.10	1	110,150	73
State	307	1,512	.....	.....	4.93	.....	.....	.....	.....
City and/or sewage	861	4,840	.....	.....	5.62	.....	1	(2)	(2)

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "City and/or sewage" enterprise are included with "Cooperative, incorporated" enterprises in the 1940 Census. [3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. * For explanation of areas and investment, see text, p. 532.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 244	*Number* 194	*Sec.-ft.* 24,813	*Miles* 4,944	*Miles* 992.1	542	*Ac.-ft.* 1,405,024	*Miles* 923.1	100	*G.p.m.* 39,508	3,396	*G.p.m.* 2,213,230	4,674	*Hp.* 195,061	4,754	*G.p.m.* 9,916,225
Individual and partnership	212	150	3,482	415	55.1	472	26,547	243.3	96	36,418	3,363	2,190,730	4,270	125,667	4,344	3,361,204
Cooperative, incorporated	5	3	1,460	388	0.6	4	25,908	2.0	2	1,640	3	2,000	19	4,905	19	435,400
Cooperative, unincorporated	7	1	394	71	.....	1	105	0.3	2	1,450	11	10,700	21	534	21	36,750
Irrigation district	13	26	10,226	2,370	915.7	37	1,032,516	664.8	....	.....	.....	.....	240	26,383	245	3,166,032
Commercial	5	6	7,857	1,438	10.7	17	312,607	5.9	....	.....	16	7,700	107	37,247	108	2,907,389
Bureau of Reclamation[3]	2	.....	1,330	247	8.7	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	5	.....	0.1	.....	.....	0.4	....	.....	3	2,100	7	127	7	4,200
City and/or sewage	.....	8	59	15	1.2	11	7,341	6.4	....	.....	.....	.....	10	198	10	5,250

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	244	194	107	168	Earth and rock	136	134	.....	75
					Other and mixed	[1] 27	11	[1] 55	14
Concrete or masonry	76	47	43	60	Not reported	1	2	5	19
Timber	4	.....	4	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940, AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*		*Number*	*Percent*	*Hp.*	*Percent*
Total, 1940	4,754	100.0	9,916,225	100.0	69	Total, 1940	4,674	100.0	195,061	100.0
Electric motor	**719**	**15.1**	**1,658,843**	**16.7**	**66**	**Centrifugal pump**	**1,414**	**30.3**	**72,928**	**37.4**
Centrifugal	269	5.7	1,199,773	12.1	32	Electric	302	6.5	27,417	14.1
Turbine	314	6.6	417,560	4.2	84	Internal-combustion	1,082	23.2	29,804	15.3
Plunger	98	2.1	8,350	0.1	79	Other	30	0.6	15,707	8.1
Other	38	0.8	33,160	0.3	39					
						Turbine pump	**2,123**	**45.4**	**97,884**	**50.2**
Internal-combustion engine	**3,220**	**67.7**	**4,138,820**	**41.7**	**66**	Electric	342	7.3	12,158	6.2
Centrifugal	1,152	24.2	2,045,791	20.6	25	Internal-combustion	1,773	37.9	85,402	43.8
Turbine	1,762	37.1	1,649,228	16.6	90	Other	8	0.2	324	0.2
Plunger	230	4.8	26,727	0.3	74					
Other	76	1.6	416,774	4.2	38	**Plunger pump**[2]	**734**	**15.7**	**3,212**	**1.6**
						Electric	76	1.6	560	0.3
Other kinds of motive power	**419**	**8.8**	**970,940**	**9.8**	**101**	Internal-combustion	230	4.9	1,942	1.0
Centrifugal	20	0.4	961,523	9.7	30	Other	428	9.2	710	0.4
Turbine	2	[1]	3,400	[1]	60					
Plunger[2]	379	8.0	4,326	[1]	106	**Other and mixed types of pumps**	**403**	**8.6**	**21,037**	**10.8**
Other	18	0.4	1,691	[1]	51	Electric	114	2.4	6,539	3.4
						Internal-combustion	229	4.9	7,741	4.0
Mixed kinds of motive power	**396**	**8.3**	**3,147,922**	**31.7**	**67**	Other	60	1.3	6,757	3.5
Centrifugal	163	3.4	2,588,638	26.1	33					
Turbine	137	2.9	552,655	5.6	84	Total, 1930	[3] 1,828	.....	95,933	.....
Plunger[2]	84	1.8	3,312	[1]	76					
Other	12	0.3	3,317	[1]	38	Increase or decrease (-) 1930-1940	2,846	.....	99,126	.....
Total, 1930	2,028	.....	6,494,999	.....	55					
Increase or decrease (-) 1930-1940	2,726	.....	3,421,226	.....	14					

[1] Less than one-tenth of 1 percent. [2] Many of these pumps are operated by windmills. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]			1940[1]	1930[2]	
	Miles	*Miles*	*Percent*		*Miles*	*Miles*	*Percent*
Total	923.1	[3] 319.0	189.4	Wood-stave:			
				1 to 12 inches	6.0	25.2	-76.2
Concrete:				13 to 24 inches	16.0	30.8	-47.4
1 to 12 inches	155.6	24.0	548.3	Over 24 inches	0.2		
13 to 24 inches	434.6	118.8	320.7	Clay and other:			
Over 24 inches	65.2			1 to 12 inches	38.4	1.6	[4]
Metal:				13 to 24 inches	2.3	.....	.....
1 to 12 inches	189.9	53.9	252.3	Over 24 inches	0.8		
13 to 24 inches	13.3	4.7	200.0				
Over 24 inches	0.8						

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 7.0 miles of concrete pipe lines not segregated by size, and 53.0 miles of pipe lines not segregated by size or material. [4] Percent not shown when more than 1,000.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The area credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include that of El Paso Water Improvement District No. 1 of the Rio Grande Project. This area is not reported under any other classification. An area totalling 12,681 acres, irrigated with a supplemental supply from the Rio Grande Project, is reported as receiving a primary supply through other enterprises.

The investment attributed to the Bureau of Reclamation in State tables 8 and 17 relates to these areas and relates to construction costs by the Government of irrigation facilities both for lands within the El Paso District and those receiving supplemental water. The reduction in the investment of the Bureau of Reclamation in Texas from the 1930 total is due to new contracts between the Secretary of the Interior and the water users in New Mexico and Texas served by the Rio Grande Project, and the exclusion of drainage costs from the irrigation investment. Under these contracts, the major part of the cost of Elephant Butte Dam, which with Caballo Dam serves the project, is to be repaid by power revenues from a power plant at Elephant Butte Dam in New Mexico which began operating in the winter of 1940-41. The principal costs of Caballo Dam, which regulates the Rio Grande flow, are nonreimbursable. It was constructed as a part of the Rio Grande canalization plan under an agreement with Mexico.

The Bureau of Reclamation has under construction on the Colorado River in Texas the Marshall Ford Dam, near Austin. This dam will serve principally for flood control but will also improve the water supply for irrigation of rice lands downstream. However, none of the costs, approximately $25,000,000, have so far been allocated to irrigation.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number...	95	150	166
Area irrigable in these enterprises.....acres....	857,141	814,833	[1] 650,822
Area irrigated in these enterprises.....acres....	397,227	[2]	[2]
Area for which drains have been installed.....acres....	553,850	345,926	272,437
Additional area needing drainage.....acres....	106,837	135,936	154,532
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage.....percent..	139.4	[3] 42.5	[1] 41.9
(b) All irrigation enterprises.....percent..	100.0	43.3	46.5
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	77.1	59.1	[1] 65.6
(b) Irrigated area reporting.....percent..	166.3	[2]	[2]

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,759,935	1,678,388	1,586,840	1,514,718	897,623	204,919	1,245,217	780,765	1,381,921
Area irrigated by these enterprises.....acres.....	532,886	501,558	247,619	268,964	185,952	47,325	263,922	315,606	200,294
Average water per acre irrigated.....acre-feet..	5.2	3.3	6.4	5.6	4.8	4.3	4.7	2.5	6.9
Total water delivered to irrigators.....acre-feet..	2,028,835	723,768	385,540	262,120	197,185	100,869	1,766,715	526,583	284,671
Area irrigated by these enterprises.....acres.....	743,816	427,419	167,005	91,309	75,138	48,533	652,507	352,281	118,472
Average water per acre irrigated.....acre-feet..	2.7	1.7	2.3	2.9	2.6	2.1	2.7	1.5	2.4
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	375,263	.....	.....	3,150	.....	.....	372,113	.....	.....
Area irrigated by these enterprises.....acres.....	273,595	.....	.....	1,725	.....	.....	271,870	.....	.....
Average water per acre irrigated.....acre-feet..	1.4	.....	.....	1.8	.....	.....	1.4	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	176,428	.....	.....	.....	.....	.....	176,428	.....	.....
Area irrigated by these enterprises.....acres.....	36,522	.....	.....	.....	.....	.....	36,522	.....	.....
Average water per acre irrigated.....acre-feet..	4.8	.....	.....	.....	.....	.....	4.8	.....	.....
Total water delivered to irrigators.....acre-feet..	32,146	.....	.....	11,381	.....	.....	20,765	.....	.....
Area irrigated by these enterprises.....acres.....	22,747	.....	.....	12,681	.....	.....	10,066	.....	.....
Average water per acre irrigated.....acre-feet..	1.4	.....	.....	0.9	.....	.....	2.1	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	66	.....	.....	.....	.....	.....	66	.....	.....
Area irrigated by these enterprises.....acres.....	60	.....	.....	.....	.....	.....	60	.....	.....
Average water per acre irrigated.....acre-feet..	1.1	.....	.....	.....	.....	.....	1.1	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929. AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	1,045,224	100.0	66,909	798,917	100.0	586,120	100.0
Appropriation[2].....	590,640	56.5	49,322	588,626	73.7	416,054	70.9
Riparian.....	66,197	6.3	1,712	48,008	6.0	72,396	12.4
Appropriation and riparian.....	75,016	7.2	15,815	.....	.....	.....	.....
Underground.....	268,352	25.7	60	61,744	7.7	44,649	7.6
Appropriation and underground.....	2,228	0.2	.....	.....	.....	.....	.....
Riparian and underground.....	10,165	1.0	.....	.....	.....	.....	.....
Adjudicated by court.....	26,037	2.5	.....	49,097	6.2	2,755	0.5
Other mixed and not reported.....	6,589	0.6	.....	51,442	6.4	50,266	8.6

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 Census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	4,021	307	3,368	245	48	25	18	10
2	Irrigated farms, 1939.....number...	30,670	.....	3,368	599	529	1,154	5,727	19,293
3	Area irrigated, 1939.....acres....	1,045,224	.....	317,561	39,503	39,591	112,230	243,253	293,086
4	(a) From which crops were harvested.....acres....	961,765	.....	278,856	37,004	35,774	110,398	236,835	262,898
5	(b) On which crops failed.....acres....	12,589	.....	3,558	327	1,166	1,276	4,147	2,115
6	(c) Irrigated pasture.....acres....	70,870	.....	35,147	2,172	2,651	556	2,271	28,073
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	64,300,488	928,841	8,571,169	815,745	918,835	5,367,765	23,705,739	23,992,394
8	(a) Cost of irrigation works and equipment.....dollars..	63,744,493	922,281	8,335,973	813,631	916,225	5,236,749	23,527,240	23,992,394
9	(b) Investment in water rights.....dollars..	555,995	6,560	235,196	2,114	2,610	131,016	178,499	.....
10	Area works were capable of supplying with water.....acres....	1,773,812	31,367	489,511	58,069	80,683	215,310	464,596	434,276
11	Average investment per acre irrigated.....dollars..	61.52	.....	26.99	20.65	23.21	47.83	97.45	81.86
12	Average investment per acre which the works could supply with water..dollars..	36.25	29.61	17.51	14.05	11.39	24.93	51.02	55.25
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	3,277	111	2,863	209	41	25	18	10
14	(a) Area irrigated in these enterprises.....acres....	1,002,202	.....	280,676	35,242	37,715	112,230	243,253	293,086
15	(b) Cost of maintenance and operation.....dollars..	3,865,224	18,860	862,426	84,371	155,560	472,290	1,276,000	995,717
16	(c) Average cost per irrigated acre reporting.....dollars..	3.86	.....	3.07	2.39	4.12	4.21	5.25	3.40
17	Total annual charges[2].....dollars..	3,855,789	3,087	.....	.....	207,441	736,433	1,680,864	1,227,944
18	Average charge per irrigated acre reporting.....dollars..	5.61	.....	.....	.....	5.43	6.56	6.91	4.19
19	Area against which charges were assessed.....acres....	1,087,092	5,500	.....	.....	39,384	235,913	350,010	456,285
20	Average annual charge per acre assessed.....dollars..	3.55	0.56	.....	.....	5.27	3.12	4.80	2.69
21	Total charges collected[2].....dollars..	3,671,948	360	.....	.....	66,420	674,041	1,532,661	1,398,466
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3].....number...	57	1	.....	.....	11	19	16	10
23	(a) Area irrigated in these enterprises.....acres....	627,161	.....	.....	.....	14,628	97,090	222,357	293,086
24	(b) Indebtedness.....dollars..	34,699,264	(4)	.....	.....	[4] 883,951	2,909,965	18,723,277	12,182,071
25	(c) Average indebtedness per acre irrigated.....dollars..	55.33	.....	.....	.....	[4] 60.43	29.97	84.20	41.56
26	(d) Cost of irrigation works and equipment.....dollars..	52,172,371	(4)	.....	.....	[4] 681,368	4,639,369	22,859,240	23,992,394
27	(e) Investment in water rights.....dollars..	310,600	.....	.....	.....	1,585	130,516	178,499	.....
28	(f) Total investment.....dollars..	52,482,971	(4)	.....	.....	[4] 682,953	4,769,885	23,037,739	23,992,394
29	(g) Maintenance and operation.....dollars..	2,624,390	.....	.....	.....	68,581	426,456	1,133,636	995,717
30	(h) Total annual charges[2].....dollars..	3,456,739	.....	.....	.....	69,397	657,090	1,502,308	1,227,944
31	(i) Total charges collected[2].....dollars..	3,592,485	.....	.....	.....	55,655	605,713	1,532,661	1,398,466
32	(j) Area against which annual charges were assessed.....acres....	998,093	.....	.....	.....	14,698	197,996	329,114	456,285
33	(k) Average indebtedness per acre assessed.....dollars..	34.02	.....	.....	.....	9.61	14.70	56.89	26.70
34	(l) Average charges per acre assessed.....dollars..	3.46	.....	.....	.....	4.72	3.32	4.56	2.69
35	(m) Average charges per acre irrigated.....dollars..	5.51	.....	.....	.....	4.74	6.77	6.76	4.19
36	Enterprises reporting arrearage[3].....number...	13	1	.....	.....	2	6	4	.....
37	(a) Area assessed in these enterprises.....acres....	185,600	.....	.....	.....	477	42,466	142,657	.....
38	(b) Total arrearage.....dollars..	660,944	(4)	.....	.....	[4] 207,780	201,661	251,503	.....
39	(c) Average arrearage per acre assessed.....dollars..	2.45	.....	.....	.....	[4] 435.60	4.75	1.76	.....
40	(d) Indebtedness.....dollars..	12,026,612	(4)	.....	.....	[4] 747,842	859,860	10,418,910	.....
	TYPE, 1940								
41	Individual and partnership.....number...	3,910	303	3,350	240	17	.....	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	37	2	5	3	21	6	.....	.....
43	Irrigation district.....number...	39	2	1	.....	1	15	11	9
44	Commercial.....number...	22	.....	3	1	8	3	7	.....
45	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	.....	1
46	All other.....number...	12	.....	9	1	1	1	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
47	Enterprises reporting pay roll.....number...	80	1	.....	.....	28	23	18	10
48	Wages and salaries paid and payable for 1939.....dollars..	1,622,840	(4)	.....	.....	[4] 43,447	210,574	711,146	657,673
49	Persons employed during week ending April 29, 1939.....number...	1,686	(4)	.....	.....	[4] 155	245	522	764
	SOURCE OF WATER SUPPLY, 1939								
50	Streams, gravity.....number...	127	6	87	7	14	8	3	2
51	Streams, pumped.....number...	717	123	497	47	18	11	13	8
52	Wells, pumped.....number...	2,833	169	2,494	161	8	1	.....	.....
53	Wells, pumped and flowing; or wells flowing.....number...	71	1	50	15	5	.....	.....	.....
54	Lakes, gravity or pumped.....number...	59	5	48	6	.....	.....	.....	.....
55	Streams and springs; or springs.....number...	86	2	79	2	1	.....	2	.....
56	Mixed, streams and wells.....number...	53	1	46	3	1	2	.....	.....
57	Other mixed or stored storm water.....number...	75	.....	67	4	1	3	.....	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	19	1	13	1	.....	2	2	.....
2	Irrigated farms, 1939.....number...	593	.....	13	2	.....	128	450	.....
3	Area irrigated, 1939.....acres....	66,909	.....	2,126		.....	64,783		.....
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	2,140,888		15,347		.....	2,125,541		.....
5	(a) Cost of irrigation works and equipment.....dollars..	2,139,768		15,145		.....	2,124,623		.....
6	(b) Investment in water rights.....dollars..	1,120	.....	202		.....	918		.....
7	Area works were capable of supplying with water.....acres....	139,231	.....	2,955		.....	136,276		.....
8	Average investment per acre irrigated.....dollars..	32.00	.....	7.22		.....	32.81		.....
9	Average investment per acre which the works could supply with water..dollars..	15.38	.....	5.19		.....	15.60		.....
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	14	.....	11	.....	.....	1	2	.....
11	(a) Area irrigated in these enterprises.....acres....	51,197	.....	1,994	.....	.....	49,203		.....
12	(b) Cost of maintenance and operation.....dollars..	32,666	.....	4,683	.....	.....	27,983		.....
13	(c) Average cost per irrigated acre reporting.....dollars..	0.64	.....	2.35	.....	.....	0.57		.....
14	Total annual charges[2].....dollars..	230,915	.....	.....	.....	.....	230,915		.....
15	Average charge per irrigated acre reporting.....dollars..	4.69	.....	.....	.....	.....	4.69		.....
16	Area against which charges were assessed.....acres....	165,650	.....	.....	.....	.....	165,650		.....
17	Average annual charge per acre assessed.....dollars..	1.39	.....	.....	.....	.....	1.39		.....
18	Total charges collected[2].....dollars..	58,500	.....	.....	.....	.....	58,500		.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS, CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
307	2,426	959	274	27	28	3,606	293	71	40	11	1
.....	2,742	1,217	901	1,668	24,122	3,833	571	473	10,099	15,694	2
.....	66,247	159,812	134,122	106,797	578,246	264,849	69,005	72,291	305,914	333,165	3
.....	59,618	146,528	115,390	98,302	541,927	240,187	58,357	64,900	296,444	301,877	4
.....	1,216	1,934	1,766	780	6,893	4,132	326	296	5,720	2,115	5
.....	5,413	11,350	16,966	7,715	29,426	20,530	10,322	7,095	3,750	29,173	6
928,841	3,545,531	3,003,759	3,287,583	8,316,639	45,218,135	5,344,121	2,185,914	2,124,205	18,391,490	36,254,758	7
922,281	3,530,652	2,991,106	3,201,654	8,113,396	44,985,404	5,321,219	2,175,938	2,078,194	17,914,384	36,254,758	8
6,560	14,879	12,653	85,929	203,243	232,731	22,902	9,976	46,011	477,106	.....	9
31,367	149,059	229,647	184,929	288,046	890,764	436,395	101,800	122,954	582,601	530,062	10
.....	53.52	18.80	24.51	77.87	78.20	20.18	31.68	29.38	60.12	108.82	11
29.61	23.79	13.06	17.78	28.87	50.76	12.25	21.47	17.28	31.57	68.40	12
111	2,035	836	240	27	28	2,922	247	58	39	11	13
.....	57,279	140,487	119,393	106,797	578,246	230,728	63,466	68,929	305,914	333,165	14
18,860	242,971	406,896	287,443	451,799	2,457,255	657,681	201,445	294,127	1,597,923	1,114,048	15
.....	4.24	2.90	2.41	4.23	4.25	2.85	3.17	4.27	5.22	3.34	16
3,087	4,376	5,900	102,324	502,976	3,237,126	7,069	15,322	286,685	2,014,809	1,531,904	17
.....	7.12	3.24	4.98	5.88	5.60	1.44	1.99	7.02	6.71	4.60	18
5,500	630	2,391	30,331	254,102	794,138	4.932	7,711	64,473	490,614	519,362	19
0.56	6.95	2.47	3.37	1.98	4.08	1.43	1.99	4.45	4.11	2.95	20
360	813	2,121	76,657	356,867	3,235,130	1,824	7,688	148,057	1,705,993	1,808,386	21
1	1	2	11	15	27	4	1	10	31	11	22
392			8,966	59,694	558,109	1,305		29,770	262,921	333,165	23
745,162			985,564	7,161,228	25,807,310	5,297		116,749	9,783,031	24,794,187	24
1,900.92			109.92	119.97	46.24	4.06		3.92	37.21	74.42	25
336,301			796,840	6,714,826	44,324,404	12,300		411,911	15,493,402	36,254,758	26
873			68,103	8,893	232,731	78		26,766	283,756	.....	27
337,174			864,943	6,723,719	44,557,135	12,378		438,677	15,777,158	36,254,758	28
.....	200		36,192	271,902	2,316,096	853		165,979	1,343,510	1,114,048	29
.....	595		83,984	311,333	3,060,827	1,680		206,882	1,716,273	1,531,904	30
.....	560		68,266	288,539	3,235,130	533		145,911	1,637,665	1,808,386	31
.....	407		18,189	205,496	774,001	1,320		33,236	444,175	519,362	32
.....	5.95		54.18	34.85	33.34	4.01		3.51	20.35	47.74	33
.....	1.46		4.62	1.52	3.95	1.27		6.22	3.86	2.95	34
.....	1.52		9.37	5.22	5.48	1.29		6.95	6.53	4.60	35
1	.....	1	6	2	3	2	.....	1	8	2	36
.....	.....	(5)	13,208	(5)	67,917	(5)	.....	(5)	85,766	(5)	37
(5)	.....	(5)	200,311	(5)	85,433	(5)	.....	(5)	471,024	(5)	38
.....	.....	(5)	15.17	(5)	1.26	(5)	.....	(5)	3.08	(5)	39
(5)	.....	(5)	861,160	(5)	4,731,974	(5)	.....	(5)	2,342,576	(5)	40
303	2,411	949	242	5	.....	3,581	281	45	3	.....	41
2	6	6	17	3	3	16	8	11	2	.....	42
2	.....	1	7	13	16	.....	1	5	24	9	43
.....	1	2	5	6	8	3	2	6	10	1	44
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	45
.....	8	1	3	.....	.....	6	1	4	1	.....	46
1	6	6	19	20	28	11	8	15	35	11	47
2,646		825	26,922	308,108	1,284,339	3,648	4,736	69,335	702,081	842,440	48
38		24	56	203	1,365	66	18	120	674	808	49
6	76	14	19	6	6	102	7	7	7	4	50
123	425	87	47	15	20	630	28	25	27	7	51
169	1,663	824	176	1	.....	2,587	226	20	.....	.....	52
1	59	9	2	.....	.....	59	9	3	.....	.....	53
5	44	5	5	.....	.....	53	2	4	.....	.....	54
2	74	3	5	1	1	81	3	1	1	.....	55
1	28	10	12	1	1	31	14	6	2	.....	56
.....	57	7	8	3	.....	63	4	5	3	.....	57

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
1	8	4	2	.....	4	15	.....	1	3	.....	1
.....	9	4	2	.....	578	15	.....	66	512	.....	2
.....	304	1,822		.....	64,783	2,126	.....	64,783		.....	3
4,047		11,300		.....	2,125,541	15,347	.....	2,125,541		.....	4
3,845		11,300		.....	2,124,623	15,145	.....	2,124,623		.....	5
202		.....		.....	918	202	.....	918		.....	6
505		2,450		.....	136,276	2,955	.....	136,276		.....	7
13.31		6.20		.....	32.81	7.22	.....	32.81		.....	8
8.01		4.61		.....	15.60	5.19	.....	15.60		.....	9
.....	5	4	2	.....	3	11	.....	.....	3	.....	10
.....	172	1,822		.....	49,203	1,994	.....	.....	49,203	.....	11
.....	210	4,473		.....	27,983	4,683	.....	.....	27,983	.....	12
.....	1.22	2.45		.....	0.57	2.35	.....	.....	0.57	.....	13
.....	.....	.....	.....	.....	230,915	.....	.....	.....	230,915	.....	14
.....	.....	.....	.....	.....	4.69	.....	.....	.....	4.69	.....	15
.....	.....	.....	.....	.....	165,650	.....	.....	.....	165,650	.....	16
.....	.....	.....	.....	.....	1.39	.....	.....	.....	1.39	.....	17
.....	.....	.....	.....	.....	58,500	.....	.....	300	58,200	.....	18

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for 1 "No farms" enterprise are included with "5 to 24 farms" enterprises in the 1940 Census.
[5] Data are included only in State total because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[2]...number...	3	.....	.....	.....	.....	1	2	.....
20	(a) Area irrigated in these enterprises...acres...	52,102	.....	.....	.....	.....	52,102		.....
21	(b) Indebtedness...dollars..	1,342,124	.....	.....	.....	.....	1,342,124		.....
22	(c) Average indebtedness per acre irrigated...dollars..	25.76	.....	.....	.....	.....	25.76		.....
23	(d) Cost of irrigation works and equipment...dollars..	1,824,623	.....	.....	.....	.....	1,824,623		.....
24	(e) Investment in water rights...dollars..	918	.....	.....	.....	.....	918		.....
25	(f) Total investment...dollars..	1,825,541	.....	.....	.....	.....	1,825,541		.....
26	(g) Maintenance and operation...dollars..	14,056	.....	.....	.....	.....	14,056		.....
27	(h) Total annual charges[3]...dollars..	216,988	.....	.....	.....	.....	216,988		.....
28	(i) Total charges collected[3]...dollars..	37,754	.....	.....	.....	.....	37,754		.....
29	(j) Area against which annual charges were assessed...acres...	152,969	.....	.....	.....	.....	152,969		.....
30	(k) Average indebtedness per acre assessed...dollars..	8.32	.....	.....	.....	.....	8.32		.....
31	(l) Average charges per acre assessed...dollars..	1.42	.....	.....	.....	.....	1.42		.....
32	(m) Average charges per acre irrigated...dollars..	5.94	.....	.....	.....	.....	5.94		.....
33	Enterprises reporting arrearage[2]...number...	[4]1	.....	.....	.....	.....	.....	[4]1	.....
	TYPE, 1940								
34	Individual and partnership...number...	14	1	12	1	.....	.....	.....	.....
35	Cooperative (incorporated and unincorporated)...number...	1	.....	1	.....	.....	.....	.....	.....
36	Irrigation district...number...	2	.....	.....	.....	.....	1	1	.....
37	Commercial...number...	1	.....	.....	.....	.....	.....	1	.....
38	U. S. Bureau of Reclamation...number...	1	.....	.....	.....	.....	1	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
39	Enterprises reporting pay roll...number...	[4]2	.....	.....	.....	.....	.....	[4]2	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939								
40	Streams, pumped...number...	12	.....	11	1	.....	.....	.....	.....
41	Wells, pumped or flowing...number...	2	1	1	.....	.....	.....	.....	.....
42	Streams, gravity or storage...number...	5	.....	1	.....	.....	2	2	.....

[1]Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2]Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Rio Grande River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
El Paso	El Paso	3,710	4.51	-4.65	0.47	-1.35	1.17	-0.06	0.46	-0.71	2.41	-2.53	64.8	+1.5
Fort Davis	Jeff Davis	4,800	14.19	-1.13	2.66	+0.22	2.41	+1.27	2.46	-1.11	6.66	-1.51	.....	.....
Fort Stockton	Pecos	3,050	10.69	-3.80	1.73	-1.11	3.50	+2.00	1.66	-2.49	3.80	-2.20	66.8	+1.7
Del Rio	Val Verde	957	13.07	-6.83	1.12	-2.64	2.35	+0.53	3.38	-3.84	6.22	-0.88	70.4	+0.8
Rio Grande	Starr	168	13.19	-3.34	0.77	-2.81	1.60	-0.84	4.82	-0.57	6.00	+0.88	73.0	-1.0
Brownsville	Cameron	35	28.73	+1.33	3.45	-3.38	2.05	-1.92	16.58	+10.01	6.65	-3.38	73.6	+0.5
Baffins Bay														
Hebbronville	Jim Hogg	550	19.69	-0.87	4.76	+0.68	1.24	-1.75	6.50	-0.57	7.19	+0.77	.....	.....
Neuces River														
Uvalde	Uvalde	937	19.47	-6.02	1.69	-3.14	2.73	-0.46	3.24	-7.12	11.81	+4.70	71.4	+1.2
Cotulla	La Salle	425	19.70	-1.78	3.64	-0.54	1.53	-2.05	8.84	+1.07	5.69	-0.26	.....	.....
George West	Live Oak	161	18.98	-4.22	5.10	-1.64	2.10	-1.78	4.06	-1.69	7.72	+0.89	.....	.....
Guadalupe River														
Boerne	Kendall	1,412	21.68	-12.08	1.93	-6.67	5.05	-0.64	4.62	-6.19	10.08	+1.42	67.6	+1.8
Hallettsville	Lavaca	235	34.70	-0.15	6.49	-3.20	5.97	-1.31	10.02	-0.19	12.22	+4.55	69.5	-0.4
Goliad	Goliad	164	24.55	-6.44	4.84	-3.47	3.17	-2.65	5.24	-3.58	11.30	+3.26	.....	.....
Colorado River														
Lovington, N. Mex	Lea	3,900	13.04	-2.13	0.74	-2.20	1.94	+0.64	4.60	+0.67	5.76	-1.24	60.3	+0.3
Seminole	Gaines	3,275	13.35	-2.33	1.57	-1.75	2.18	+0.43	4.67	+0.02	4.93	-1.03	63.0	+2.1
San Angelo	Tom Green	1,847	14.70	-6.51	2.23	-2.44	2.07	-0.76	5.07	-2.00	5.33	-1.31	66.1	+1.3
Llano	Llano	1,040	17.67	-6.58	1.14	-4.87	4.32	+0.08	5.99	-2.44	6.22	+0.65	68.2	+1.1
Columbus	Colorado	206	34.45	-3.98	9.55	-1.51	8.79	+0.55	6.28	-4.76	9.83	+1.74	.....	.....
Brazos River														
Portales, N. Mex	Roosevelt	4,004	17.44	-4.09	3.14	-3.15	2.34	+1.05	4.86	-1.29	7.10	-0.70	57.0	+0.1
Lubbock	Lubbock	3,242	10.80	-8.73	0.81	-2.98	2.73	+1.07	2.77	-3.94	4.49	-2.88	61.7	+2.1
Abilene	Taylor	1,726	19.33	-5.84	2.67	-2.52	2.78	-0.48	10.96	+1.30	2.92	-4.14	66.9	+2.9
Hamilton	Hamilton	.....	24.58	-5.92	2.76	-4.18	7.42	+2.44	10.73	-0.88	3.67	-3.30	.....	.....
Cameron	Milam	393	24.96	-10.52	3.88	-5.45	8.92	+0.86	9.38	-1.68	2.78	-4.25	.....	.....
Richmond	Fort Bend	.....	38.56	-3.35	7.29	-3.60	5.58	-3.02	9.85	-1.88	15.84	+5.15	.....	.....
San Jacinto River														
Houston	Harris	41	36.38	-10.67	7.03	-4.76	9.60	-0.78	7.54	-5.11	12.21	-0.02	70.4	+1.3
Trinity River														
Weatherford	Parker	1,010	22.48	-8.77	3.10	-3.77	5.57	+0.18	11.37	-0.40	2.44	-4.78	65.6	+1.5
Corsicana	Navarro	445	29.79	-6.17	4.76	-4.43	10.33	+2.78	11.09	-0.54	3.61	-3.98	68.3	+2.0
Palestine	Anderson	492	31.19	-9.54	6.02	-4.40	11.53	+1.56	10.12	-2.46	3.52	-4.24	67.4	+1.4
Huntsville	Walker	400	48.05	+3.62	11.58	-0.39	14.39	+3.59	17.06	+3.35	5.02	-2.93	68.4	+1.2
Liberty	Liberty	38	43.98	-5.61	7.89	-5.85	15.93	+5.62	7.22	-6.88	12.94	+1.50	69.0	-0.2
Sabine River														
Greenville	Hunt	550	32.19	-5.08	4.54	-4.37	12.00	+4.48	10.13	-2.00	5.52	-3.19	65.9	+0.8
Marshall	Harrison	375	39.25	-9.97	9.89	-2.47	15.77	+2.15	9.04	-4.48	4.55	-5.17	68.0	+1.8
Lufkin	Angelina	.....	[2]45.15	[2]+4.26	[2]10.75	[2]+4.24	20.14	+8.45	6.48	-6.43	7.78	-2.00	67.7	0.0
Orange	Orange	.....	39.53	-10.68	7.84	-4.60	8.53	-2.88	10.87	-1.84	12.29	-1.36	.....	.....
Canadian River (Arkansas River)														
Clayton, N. Mex	Union	5,049	12.84	-3.81	2.16	-0.24	2.46	+0.93	5.06	-1.00	3.16	-3.50	53.7	+0.3
Dalhart	Dallam	3,998	16.00	-3.30	3.07	+0.21	2.85	+1.44	5.47	-2.90	4.61	-2.05	55.0	+0.6
Red River														
Dimmitt (near)	Castro	3,865	14.39	-4.68	2.97	-0.62	2.74	+1.35	6.09	-0.24	2.59	-5.17	.....	.....
Crowell	Foard	.....	18.79	-5.93	2.10	-3.16	5.44	+2.18	7.13	-2.12	4.12	-2.83	.....	.....
Henrietta	Clay	915	17.49	-9.98	2.75	-3.38	6.65	+2.65	5.91	-4.18	2.18	-5.05	65.6	+2.0
Sherman	Grayson	745	34.98	-2.02	3.34	-5.14	12.38	+5.31	12.58	+0.47	6.68	-2.66	65.9	+1.6
Sacramento-Salt Lakes														
Van Horn	Culberson	4,010	[3]	[3]	[3]	[3]	1.19	[3]	2.11	[3]	7.20	[3]	.....	.....
Valentine	Jeff Davis	4,421	9.82	[3]	1.72	[3]	1.68	[3]	1.46	[3]	4.96	[3]	.....	.....

[1]Departure from normal. [2]Does not include data for December 1938. [3]Data not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
.....	.....	.....	.....	.....	3	.....	.....	1	2	.....	19
.....	.....	.....	.....	.....	52,102	.....	.....	52,102		.....	20
.....	.....	.....	.....	.....	1,342,124	.....	.....	1,342,124		.....	21
.....	.....	.....	.....	.....	25.76	.....	.....	25.76		.....	22
.....	.....	.....	.....	.....	1,824,623	.....	.....	1,824,623		.....	23
.....	.....	.....	.....	.....	918	.....	.....	918		.....	24
.....	.....	.....	.....	.....	1,825,541	.....	.....	1,825,541		.....	25
.....	.....	.....	.....	.....	14,056	.....	.....	14,056		.....	26
.....	.....	.....	.....	.....	216,988	.....	.....	216,988		.....	27
.....	.....	.....	.....	.....	37,754	.....	.....	37,754		.....	28
.....	.....	.....	.....	.....	152,969	.....	.....	152,969		.....	29
.....	.....	.....	.....	.....	8.32	.....	.....	8.31		.....	30
.....	.....	.....	.....	.....	1.42	.....	.....	1.42		.....	31
.....	.....	.....	.....	.....	5.94	.....	.....	5.94		.....	32
.....	.....	.....	.....	.....	[4]1	.....	.....	.....	[4]1	.....	33
1	8	4	1	.....	.....	14	.....	.....	.....	.....	34
.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	35
.....	.....	.....	.....	.....	2	.....	.....	1	1	.....	36
.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	37
.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	38
.....	.....	.....	.....	.....	[4]2	.....	.....	.....	[4]2	.....	39
.....	7	3	2	.....	.....	12	.....	.....	.....	.....	40
1	1	.....	.....	.....	.....	2	.....	.....	.....	.....	41
.....	.....	1	.....	.....	4	1	.....	1	3	.....	42

[3]Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4]Data are not shown because less than 3 enterprises reported in the 1940 Census.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The average amount of precipitation, 24.69 inches, was 5.49 inches below normal in Texas for the calendar year 1939, as reported by the U. S. Weather Bureau. Precipitation averaged below normal in all divisions. Annual amounts and departures from normal (in inches) for the three divisions were as follows: Western, 14.75, minus 3.02; middle, 20.99, minus 5.92; eastern, 36.87, minus 4.98. Annual amounts of precipitation ranged from 51.32 inches at Bronson, Sabine County, to 5.91 inches at El Paso, El Paso County. The greatest monthly amount of precipitation was 15.50 inches at Angleton, Brazoria County, in July, and the greatest amount in 24 consecutive hours was 11.55 inches at Richmond, Fort Bend County, on July 12. The number of stations reporting no rain during the several months was as follows: February, 8; March, 4; April, 6; July, 1; and September, 27.

The average precipitation for the water year (October 1938 through September 1939) at the 39 stations shown in State table 18 with full records, and which are representative of the major drainage basins in Texas, was 23.31 inches, indicating an average deficiency of -5.19 inches at these stations.

Local storms occurred frequently during the first half of the year, but were less numerous thereafter. Total damage from tornadoes, straight-line winds, and hail amounted to over $2,000,000; 7 persons were killed and 130 were injured.

Temperature.—The average temperature for the State for 1939, 67.1°, was 0.9° above normal. Sunshine was deficient during March and November; excessive during May and September; ample during the other months of the year. Temperatures averaged above normal in all divisions. The highest annual mean temperature was 74.7° at Harlingen, Cameron County, and at Mercedes, Hidalgo County, and the lowest mean was 55.0° at Dalhart, Dallam County. The highest temperature recorded during the year was 114° at Seymour, Baylor County, on July 8; at Encinal, La Salle County, on July 9; and at Cleburne, Johnson County, on September 2. The lowest temperature reported was 9° below zero at Muleshoe, Bailey County, on December 27.

The weather was generally unfavorable for crops during the year. Prospects early in the year were good, but continued dry weather and unusually high temperatures during the middle and latter portions of the summer caused a decline in the expected quality and quantity of most crops. Early cotton matured in mostly good condition, but late cotton was poor to only fair, with much premature opening, blooming on top, and shedding reported in west-central and north-central districts. Little top crop was harvested. Spring wheat was in mostly good condition when harvested, except in the northwestern portion of the State, where poor to only fair. Germination of winter wheat was hindered by lack of moisture, with condition only fair as the year closed. Early corn made good progress and matured in good condition, but late corn wilted badly under high temperatures and matured in poor condition. Truck was in fair to good condition in upper coast areas and in irrigated sections of extreme south, but only poor to fair elsewhere. Ranges dried rapidly during the latter part of the year, necessitating much livestock feeding. Range cattle were beginning to show the effects of subnormal grazing and lack of sufficient range water by the end of the year. After a late start, rice made rapid progress and was in fair to good condition when harvested.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GULF OF MEXICO	
			Total	Rio Grande River — Total
	IRRIGATED FARMS AND AREAS			
1	Irrigated farms....1939...number....	30,670	30,667	24,059
2	Area irrigated....1939...acres....	1,045,224	1,045,200	462,703
3	(a) Cropland harvested....1939...acres....	961,765	961,741	415,442
4	(b) Crop failure....1939...acres....	12,589	12,589	8,882
5	(c) Pasture....1939...acres....	70,870	70,870	38,379
6	Area irrigated....1929...acres....	798,917	798,917	537,327
7	1919...acres....	586,120	586,120	315,693
8	Increase or decrease (-), 1929-1939....percent....	30.8	30.8	-13.9
9	Irrigable area in enterprises....1940...acres....	2,180,796	2,180,768	892,827
10	1930...acres....	1,566,876	1,566,876	806,935
11	1920[2]...acres....	1,687,447	1,687,447	883,708
12	Excess of irrigable area over the area irrigated..1940...acres....	1,135,572	1,135,568	430,124
13	1930...acres....	767,959	767,959	269,608
14	1920[2]...acres....	1,101,327	1,101,327	568,015
15	Area works were capable of supplying with water...1940...acres....	1,773,812	1,773,784	808,569
16	1930...acres....	1,177,415	1,177,415	682,547
17	1920...acres....	1,150,542	1,150,542	681,502
18	Increase or decrease (-), 1930-1940....percent....	50.7	50.7	18.5
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	728,588	728,584	345,866
20	1930...acres....	378,498	378,498	145,220
21	1920...acres....	564,422	564,422	365,809
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	58.9	58.9	57.2
23	1929...percent....	67.9	67.9	78.7
24	1919...percent....	50.9	50.9	46.3
	CAPITAL INVESTED TO JANUARY 1			
25	Total investment in irrigation enterprises....1940...dollars....	66,441,376	66,440,776	41,083,420
26	(a) Cost of irrigation works and equipment....1940...dollars....	65,884,261	65,883,661	40,682,060
27	(b) Investment in water rights (reported)....1940...dollars....	557,115	557,115	401,360
28	Total investment in irrigation enterprises....1930...dollars....	49,022,164	49,022,164	30,690,311
29	1920...dollars....	35,072,739	35,072,739	18,925,769
30	Increase or decrease (-), 1930-1940....percent....	35.5	35.5	33.9
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	37.46	37.46	50.81
32	1930...dollars....	41.64	41.64	44.96
33	1920...dollars....	30.48	30.48	27.77
34	Average investment per acre irrigated....1939...dollars....	63.57	63.57	88.79
35	Estimated final investment in existing enterprises..1940...dollars....	67,319,032	67,318,432	41,845,571
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	30.87	30.87	46.87
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental	Primary / Supplemental	Primary / Supplemental
		Enterprises	Enterprises	Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	3,277 / 14	3,277 / 14	519 / 10
38	Area irrigated in these enterprises....1939...acres....	1,002,202 / 51,197	1,002,202 / 51,197	456,710 / 42,049
39	Cost of maintenance and operation....1939...dollars....	3,865,224 / 32,666	3,865,224 / 32,666	1,595,735 / 28,696
40	Average cost, per acre irrigated....1939...dollars....	3.86 / 0.64	3.86 / 0.64	3.49 / 0.68
41	Total annual charges (reported)[4] [5]....1939...dollars....	3,855,789 / 230,915	3,855,789 / 230,915	1,896,624 / 218,010
42	Average annual charge per acre irrigated....1939...dollars....	5.61 / 4.69	5.61 / 4.69	4.54 / 5.29
43	Area against which charges were assessed....1939...acres....	1,087,092 / 165,650	1,087,092 / 165,650	805,100 / 151,150
44	Average annual charge per acre assessed....1939...dollars....	3.55 / 1.39	3.55 / 1.39	2.36 / 1.44
45	Total charges collected[4]....1939...dollars....	3,671,948 / 58,500	3,671,948 / 58,500	1,859,800 / 45,215
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	34,699,264 / 1,342,124	34,699,264 / 1,342,124	26,679,351 / 1,131,624
	WATER DELIVERED TO IRRIGATORS, 1939			
47	Enterprises reporting water delivered....1939...number....	3,593 / 16	3,592 / 16	497 / 12
48	Area irrigated by these enterprises....1939...acres....	1,017,411 / 22,807	1,017,391 / 22,807	443,030 / 13,659
49	Water delivered....1939...acre-feet..	2,404,098 / 32,212	2,403,998 / 32,212	940,788 / 12,641
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4 / 1.4	2.4 / 1.4	2.1 / 0.9
51	Average cost of water per acre irrigated....1939...dollars....	4.85 / 1.39	4.85 / 1.39	4.51 / 1.16
52	Average cost of water per acre-foot delivered..1939...dollars....	2.05 / 0.98	2.05 / 0.98	2.12 / 1.26
	DRAINAGE OF IRRIGATED LAND			
53	Enterprises reporting land drained or needing drainage....1939...number....	95 /	95 /	31 / .....
54	Irrigable area in these enterprises....1939...acres....	857,141 /	857,141 /	654,763 / .....
55	Irrigated area in these enterprises....1939...acres....	397,227 /	397,227 /	335,765 / .....
56	Area for which drains have been installed....1939...acres....	553,850 /	553,850 /	438,687 / .....
57	Additional area needing drainage....1939...acres....	106,837 /	106,837 /	66,270 / .....

[1] Data for unidentified basins for the 1930 and 1920 Censuses are included only in State totals.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

GULF OF MEXICO—Continued											
Rio Grande River—Continued				Guadalupe River			Colorado River			Brazos River	
Direct (1)	Pecos River (2)	Baffins Bay	Nueces River (4)	Total	Direct (5)	San Antonio River (6)	Total	Direct (7)	Llano River (8)	Total	
23,312	747	50	800	1,494	148	1,346	884	803	81	1,243	1
400,405	62,298	849	49,082	43,133	12,821	30,312	83,479	82,954	525	163,324	2
365,730	49,712	749	30,709	38,965	12,716	26,249	81,268	80,796	472	158,309	3
4,333	4,549	88	511	685	41	644	27	26	1	1,079	4
30,342	8,037	12	17,862	3,483	64	3,419	2,184	2,132	52	3,936	5
459,557	46,677	.....	38,787	9,686	.....	9,686	61,888	.....	.....	21,560	6
254,186	57,418	.....	13,753	13,179	.....	13,179	71,278	.....	.....	7,535	7
-12.9	33.5	.....	26.5	345.3	.....	212.9	34.9	.....	.....	657.5	8
741,491	151,336	1,475	79,949	74,728	29,719	45,009	269,423	268,599	824	281,241	9
620,665	132,961	.....	52,859	45,838	.....	45,838	224,368	.....	.....	47,417	10
705,270	172,043	.....	50,006	61,789	.....	61,789	277,268	.....	.....	22,896	11
341,086	89,038	626	30,867	31,595	16,898	14,697	185,944	185,645	299	117,917	12
161,108	86,284	.....	14,072	36,152	.....	36,152	162,480	.....	.....	25,857	13
451,084	114,625	.....	36,253	48,610	.....	48,610	205,990	.....	.....	15,361	14
682,704	125,865	1,246	77,396	62,566	17,619	44,947	173,601	172,782	819	266,168	15
574,817	72,054	.....	45,708	35,146	.....	35,146	140,626	.....	.....	30,061	16
555,761	120,492	.....	31,977	60,177	.....	60,177	125,666	.....	.....	19,560	17
18.8	74.7	.....	69.3	78.0	.....	27.9	23.4	.....	.....	785.4	18
282,299	63,567	397	28,314	19,433	4,798	14,635	90,122	89,828	294	102,844	19
115,260	25,377	.....	6,921	25,460	.....	25,460	78,738	.....	.....	8,501	20
301,575	63,074	.....	18,224	46,998	.....	46,998	54,388	.....	.....	12,025	21
58.6	49.5	68.1	63.4	68.9	72.8	67.4	48.1	48.0	64.1	61.4	22
79.9	64.8	.....	84.9	27.6	.....	27.6	44.0	.....	.....	71.7	23
45.7	47.7	.....	43.0	21.9	.....	21.9	56.7	.....	.....	38.5	24
37,584,986	3,498,434	107,512	2,434,960	5,178,837	315,393	4,863,444	2,738,613	2,684,325	54,288	3,439,288	25
37,192,994	3,489,066	102,512	2,420,737	5,176,566	313,442	4,863,124	2,673,835	2,619,552	54,283	3,418,229	26
391,992	9,368	5,000	14,223	2,271	1,951	320	64,778	64,773	5	21,059	27
27,068,049	2,243,187	.....	3,071,489	3,038,635	.....	3,038,635	1,914,643	.....	.....	657,555	28
16,208,058	2,219,595	.....	1,326,555	5,087,542	.....	5,087,542	3,560,916	.....	.....	569,543	29
38.9	56.0	.....	-20.7	70.4	.....	60.1	43.0	.....	.....	423.0	30
55.05	27.80	66.29	31.46	82.77	17.90	108.20	15.78	15.54	66.29	12.92	31
47.09	31.13	.....	67.20	86.46	.....	86.46	13.62	.....	.....	21.87	32
29.16	18.42	.....	41.48	84.54	.....	84.54	28.34	.....	.....	29.12	33
93.87	56.16	.....	19.61	120.07	24.60	160.45	32.81	32.36	103.41	21.06	34
38,299,562	3,546,009	113,012	2,452,725	5,180,162	316,038	4,864,124	2,744,443	2,687,605	56,838	3,491,716	35
51.65	23.43	76.62	30.68	69.32	10.63	108.07	10.19	10.01	68.98	12.42	36
Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises				Primary Enterprises	Sup. Enterprises	
417	9	102	1	44	477	2	181	99	82	376	312	64	853	2	37
394,878	13,527	61,832	(5)	682	43,682	(5)	38,930	10,892	28,038	81,194	80,711	483	148,852	(5)	38
1,509,929	15,737	85,806	(5)	11,198	134,951	(5)	151,324	83,204	68,120	482,785	480,286	2,499	552,577	(5)	39
3.82	1.16	1.39	(5)	16.42	3.09	(5)	3.89	7.64	2.43	5.95	5.95	5.17	3.71	(5)	40
1,791,813	13,927	104,811	204,083	.....	10,846	12,905	121,722	29,115	92,607	572,689	572,689	.....	416,370	.....	41
4.85	1.10	2.17	7.16	.....	2.12	1.61	4.31	9.00	3.70	8.27	8.27	.....	9.47	.....	42
646,862	12,681	158,238	138,469	.....	6,964	14,500	39,339	3,235	36,104	69,253	69,253	.....	43,957	.....	43
2.77	1.10	0.66	1.47	.....	1.56	0.89	3.09	9.00	2.57	8.27	8.27	.....	9.47	.....	44
1,806,742	20,746	53,058	24,469	.....	21,397	12,985	94,188	29,115	65,073	394,202	394,202	.....	362,440	300	45
26,047,451	.....	631,900	1,131,624	.....	176,620	140,500	782,793	11,750	771,043	688,162	688,162	.....	586,947	70,000	46
401	12	96	.....	41	532	2	244	125	119	407	328	79	972	2	47
383,866	13,659	59,164	.....	680	47,973	(5)	42,833	12,739	30,094	80,486	79,961	525	161,925	(5)	48
714,024	12,641	226,764	.....	1,069	56,506	(5)	108,129	40,156	67,973	363,833	362,996	837	351,355	(5)	49
1.9	0.9	3.8	.....	1.6	1.2	(5)	2.5	3.2	2.3	4.5	4.5	1.6	2.2	(5)	50
4.90	1.16	2.01	.....	5.82	2.90	(5)	4.43	6.33	3.70	7.74	7.76	5.17	4.78	(5)	51
2.63	1.26	5.24	.....	3.70	2.46	(5)	1.76	2.01	1.64	1.71	1.71	3.25	2.21	(5)	52
23	.....	8	.....	2	1	.....	5	1	4	6	6	.....	20	.....	53
548,108	.....	106,655	.....	(5)	(5)	.....	195	(5)	45	473	473	.....	42,407	.....	54
307,145	.....	28,620	.....	(5)	(5)	.....	195	(5)	45	435	435	.....	22,033	.....	55
438,577	.....	110	.....	(5)	(5)	.....	195	(5)	45	147	147	.....	22,097	.....	56
31,357	.....	34,913	.....	(5)	.....	.....	.....	.....	.....	.....	.....	.....	300	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued					
		Brazos River—Continued				Sabine River	
		Direct (9)	Little River (10)	San Jacinto River (11)	Trinity River (12)	Total	Direct (13)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	1,237	6	41	267	321	72
2	Area irrigated....1939...acres	163,253	71	9,365	47,061	56,806	10,618
3	(a) Cropland harvested....1939...acres	158,240	69	8,819	47,054	56,806	10,618
4	(b) Crop failure....1939...acres	1,078	1	76	7	.....	.....
5	(c) Pasture....1939...acres	3,935	1	470	.....	.....	.....
6	Area irrigated....1929...acres	.....	.....	.....	15,724	28,387	162
7	1919...acres	.....	.....	.....	42,770	77,722	12,822
8	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	199.8	100.1	(1)
9	Irrigable area in enterprises....1940...acres	281,149	92	14,649	186,041	165,512	18,137
10	1930...acres	.....	.....	.....	36,248	133,429	8,166
11	1920[2]...acres	.....	.....	.....	96,320	174,268	24,468
12	Excess of irrigable area over the area irrigated...1940...acres	117,896	21	5,284	138,980	108,706	7,519
13	1930...acres	.....	.....	.....	20,524	105,042	8,004
14	1920[2]...acres	.....	.....	.....	53,550	96,546	11,646
15	Area works were capable of supplying with water...1940...acres	266,076	92	14,507	69,025	88,032	18,137
16	1930...acres	.....	.....	.....	35,131	68,429	8,166
17	1920...acres	.....	.....	.....	52,720	102,508	20,508
18	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	96.5	28.6	122.1
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	102,823	21	5,142	21,964	31,226	7,519
20	1930...acres	.....	.....	.....	19,407	40,042	8,004
21	1920...acres	.....	.....	.....	9,950	24,786	7,686
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	61.4	77.2	64.6	68.2	64.5	58.5
23	1929...percent	.....	.....	.....	44.8	41.5	2.0
24	1919...percent	.....	.....	.....	81.1	75.8	62.5
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	3,432,853	6,435	313,892	909,643	3,571,189	631,622
26	(a) Cost of irrigation works and equipment....1940...dollars	3,411,794	6,435	313,875	906,634	3,528,867	589,336
27	(b) Investment in water rights (reported)....1940...dollars	21,059	.....	17	3,009	42,322	42,286
28	Total investment in irrigation enterprises....1930...dollars	.....	.....	.....	480,470	2,808,088	112,960
29	1920...dollars	.....	.....	.....	1,743,621	1,942,705	345,935
30	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	89.3	27.2	459.2
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	12.90	69.95	21.64	13.18	40.57	34.83
32	1930...dollars	.....	.....	.....	13.68	41.04	13.83
33	1920...dollars	.....	.....	.....	33.07	18.95	16.87
34	Average investment per acre irrigated....1939...dollars	21.03	90.63	33.52	19.33	62.87	59.49
35	Estimated final investment in existing enterprises...1940...dollars	3,485,281	6,435	319,692	910,343	3,571,689	631,622
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	12.40	69.95	21.82	4.89	21.58	34.83
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises				
37	Enterprises reporting maintenance and operation...1939...number	848	2	5	39	57	37	5
38	Area irrigated in these enterprises....1939...acres	148,785	(3)	67	9,249	46,845	56,766	10,578
39	Cost of maintenance and operation....1939...dollars	552,280	(3)	297	53,592	342,140	235,080	29,840
40	Average cost, per acre irrigated....1939...dollars	3.71	(3)	4.43	5.79	7.30	4.14	2.82
41	Total annual charges (reported)[4] [5]....1939...dollars	416,370	.....	.....	.....	415,841	361,845	73,500
42	Average annual charge per acre irrigated....1939...dollars	9.47	.....	.....	.....	9.00	7.63	7.00
43	Area against which charges were assessed....1939...acres	43,957	.....	.....	.....	46,225	47,440	10,500
44	Average annual charge per acre assessed....1939...dollars	9.47	.....	.....	.....	9.00	7.63	7.00
45	Total charges collected[4]....1939...dollars	362,440	300	.....	.....	310,888	378,543	71,138
46	Indebtedness to December 31 (reported)[5]....1939...dollars	586,947	70,000	.....	.....	89,672	2,150,031	483,750
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number	969	2	3	41	68	35	5
48	Area irrigated by these enterprises....1939...acres	161,906	(3)	19	9,365	46,988	56,760	10,578
49	Water delivered....1939...acre-feet	351,315	(3)	40	22,634	192,405	223,225	30,129
50	Average water delivered per acre irrigated....1939...acre-feet	2.2	(3)	2.1	2.4	4.1	3.9	2.8
51	Average cost of water per acre irrigated....1939...dollars	4.78	(3)	4.80	5.79	9.03	6.63	6.96
52	Average cost of water per acre-foot delivered...1939...dollars	2.21	(3)	2.25	2.40	2.20	1.69	2.44
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number	18	.....	2	4	15	3	.....
54	Irrigable area in these enterprises....1939...acres	42,379	.....	(3)	2,125	150,221	1,410	.....
55	Irrigated area in these enterprises....1939...acres	22,025	.....	(3)	565	33,163	1,032	.....
56	Area for which drains have been installed....1939...acres	22,085	.....	(3)	1,075	85,143	1,206	.....
57	Additional area needing drainage....1939...acres	300	.....	.....	.....	40,022	.....	.....

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GULF OF MEXICO—Continued							INDEPENDENT BASIN
		Sabine River—Con.	Mississippi River						
				Arkansas River					
				Canadian River					
		Neches River (14)	Total	Total	Direct (16)	Mustang Creek (17)	North Canadian River (18)	Red River (19)	Sacramento-Salt Lakes (21)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number	249	1,508	61	33	10	18	1,447	3
2	Area irrigated....1939...acres	46,188	129,398	1,859	1,211	467	181	127,539	24
3	(a) Cropland harvested....1939...acres	46,188	123,820	1,704	1,178	348	178	121,916	24
4	(b) Crop failure....1939...acres	.....	1,234	145	26	119	.....	1,089	.....
5	(c) Pasture....1939...acres	.....	4,544	10	7	.....	3	4,534	.....
6	Area irrigated....1929...acres	28,225	39,070	466	.....	.....	.....	38,604	.....
7	1919...acres	64,900	6,963	440	.....	.....	.....	6,523	.....
8	Increase or decrease (-), 1929-1939....percent	63.6	231.2	298.9	.....	.....	.....	230.4	.....
9	Irrigable area in enterprises....1940...acres	147,375	214,923	3,900	1,872	1,539	489	211,023	28
10	1930...acres	125,263	54,968	766	.....	.....	.....	54,202	.....
11	1920[1]...acres	149,800	23,353	840	.....	.....	.....	22,513	.....
12	Excess of irrigable area over the area irrigated..1940...acres	101,187	85,525	2,041	661	1,072	308	83,484	4
13	1930...acres	97,038	15,898	300	.....	.....	.....	15,598	.....
14	1920[1]...acres	84,900	16,390	400	.....	.....	.....	15,990	.....
15	Area works were capable of supplying with water...1940...acres	69,895	212,674	3,851	1,862	1,539	450	208,823	28
16	1930...acres	60,263	54,820	766	.....	.....	.....	54,054	.....
17	1920...acres	82,000	13,025	440	.....	.....	.....	12,585	.....
18	Increase or decrease (-), 1930-1940....percent	16.0	287.9	402.7	.....	.....	.....	286.3	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	23,707	83,276	1,992	651	1,072	269	81,284	4
20	1930...acres	32,038	15,750	300	.....	.....	.....	15,450	.....
21	1920...acres	17,100	6,062	.....	.....	.....	.....	6,062	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	66.1	60.8	48.3	65.0	30.3	40.2	61.1	85.7
23	1929...percent	46.8	71.3	60.8	.....	.....	.....	71.4	.....
24	1919...percent	79.1	53.5	100.0	.....	.....	.....	51.8	.....
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars	2,939,567	6,663,422	84,192	44,492	20,745	18,955	6,579,230	600
26	(a) Cost of irrigation works and equipment....1940...dollars	2,939,531	6,660,346	84,132	44,492	20,745	18,895	6,576,214	600
27	(b) Investment in water rights (reported)....1940...dollars	36	3,076	60	.....	.....	60	3,016	.....
28	Total investment in irrigation enterprises....1930...dollars	2,695,128	5,196,305	17,800	.....	.....	.....	5,178,505	.....
29	1920...dollars	1,596,770	439,272	69,472	.....	.....	.....	369,800	.....
30	Increase or decrease (-), 1930-1940....percent	9.1	28.2	373.0	.....	.....	.....	27.0	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	42.06	31.33	21.86	23.89	13.48	42.12	31.51	21.43
32	1930...dollars	44.72	94.79	23.24	.....	.....	.....	95.80	.....
33	1920...dollars	19.47	33.73	157.89	.....	.....	.....	29.38	.....
34	Average investment per acre irrigated....1939...dollars	63.64	51.50	45.29	36.74	44.42	104.72	51.59	25.00
35	Estimated final investment in existing enterprises..1940...dollars	2,940,067	6,689,079	88,677	46,992	22,730	18,955	6,600,402	600
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	19.95	31.12	22.74	25.10	14.77	38.76	31.28	21.43
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
37	Enterprises reporting maintenance and operation...1939...number	32	694	49	27	9	13	645	.....
38	Area irrigated in these enterprises....1939...acres	46,188	119,292	1,529	892	466	171	117,763	.....
39	Cost of maintenance and operation....1939...dollars	205,240	305,842	5,082	2,692	1,455	935	300,760	.....
40	Average cost, per acre irrigated....1939...dollars	4.44	2.56	3.32	3.02	3.12	5.47	2.55	.....
41	Total annual charges (reported)[2 3]....1939...dollars	288,345	59,852	.....	.....	.....	.....	59,852	.....
42	Average annual charge per acre irrigated....1939...dollars	7.81	2.08	.....	.....	.....	.....	2.08	.....
43	Area against which charges were assessed....1939...acres	36,940	28,814	.....	.....	.....	.....	28,814	.....
44	Average annual charge per acre assessed....1939...dollars	7.81	2.08	.....	.....	.....	.....	2.08	.....
45	Total charges collected[2]....1939...dollars	307,405	250,490	.....	.....	.....	.....	250,490	.....
46	Indebtedness to December 31 (reported)[3]....1939...dollars	1,666,281	3,545,688	.....	.....	.....	.....	3,545,688	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number	30	755	58	30	10	18	697	1
48	Area irrigated by these enterprises....1939...acres	46,182	127,351	1,653	1,005	467	181	125,698	(4)
49	Water delivered....1939...acre-feet	193,096	144,054	2,123	1,399	433	291	141,931	(4)
50	Average water delivered per acre irrigated....1939...acre-feet	4.2	1.1	1.3	1.4	0.9	1.6	1.1	(4)
51	Average cost of water per acre irrigated....1939...dollars	6.55	2.56	3.35	3.06	3.12	5.38	2.55	.....
52	Average cost of water per acre-foot delivered..1939...dollars	1.57	2.26	2.60	2.20	3.37	3.35	2.26	.....
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number	3	8	2	.....	.....	2	6	.....
54	Irrigable area in these enterprises....1939...acres	1,410	797	(5)	.....	.....	(5)	(5)	.....
55	Irrigated area in these enterprises....1939...acres	1,032	154	(5)	.....	.....	(5)	(5)	.....
56	Area for which drains have been installed....1939...acres	1,206	615	(5)	.....	.....	(5)	(5)	.....
57	Additional area needing drainage....1939...acres	.....	180	.....	.....	.....	.....	(5)	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[3] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[4] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[5] Data are shown in Mississippi River Total only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GULF OF MEXICO							
			Total	Rio Grande River			Baffins Bay	Nueces River	Guadalupe River		
				Total	Direct (1)	Pecos River (2)	(3)	(4)	Total	Direct (5)	San Antonio River (6)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1										
1	Enterprises....1940..number	4,040	4,037	649	520	129	50	589	259	131	128
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	439	439	1,246	1,313	976	25	131	242	134	351
3	Diversion dams....1940..total number	244	243	132	70	62	.....	26	18	12	6
4	1930..total number	107	107	40	16	19	.....	17	4	.....	4
5	1920..total number	165	165	44	11	26	.....	54	4	.....	4
6	(a) Concrete and masonry....1940..number	76	76	36	9	27	.....	5	5	.....	5
7	(b) Timber....1940..number	4	4	.....	.....	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock....1940..number	136	135	85	53	32	.....	9	12	12	.....
9	(d) Other, mixed, and not reported..1940..number	28	28	11	8	3	.....	12	1	.....	1
10	Main canals and laterals....1940..total length, miles	5,936.1	5,936.1	3,407.7	2,921.7	486.0	3.0	68.1	377.1	65.1	312.0
11	1930..total length, miles	4,879	4,879	3,096	2,496	413	.....	54	285	.....	285
12	1920..total length, miles	4,473	4,473	2,312	1,640	570	.....	138	142	.....	142
13	(a) Earth....1940..length, miles	4,944	4,944	2,450	2,021	429	3	65	369	65	304
14	(b) Lined....1940..length, miles	992.1	992.1	957.7	900.7	57.0	.....	3.1	8.1	0.1	8.0
15	1940..capacity, c.f.s.[2]	24,813	24,808	14,701	10,652	4,049	6	412	772	230	542
16	1930..capacity, c.f.s.[2]	21,626	21,626	12,669	10,218	1,903	.....	45	711	.....	711
17	1920..capacity, c.f.s.[2]	23,261	23,261	12,530	9,319	2,725	.....	163	1,782	.....	1,782
18	Pipe lines[3]....1940..total length, miles	923.1	923.1	742.0	704.6	37.4	3.7	21.8	42.9	24.6	18.3
19	1930..total length, miles	319.0	319.0	273.6	264.9	0.1	.....	8.1	6.6	.....	6.6
20	1920..total length, miles	157.1	157.1	41.1	40.5	0.6	.....	92.6	10.9	.....	10.9
21	(a) Concrete....1940..length, miles	655.4	655.4	639.3	638.3	1.0	3.3	1.1	5.9	1.7	4.2
22	(b) Metal....1940..length, miles	204.0	204.0	50.1	43.7	6.4	0.2	20.2	35.4	22.4	13.0
23	(c) Wood-stave....1940..length, miles	22.2	22.2	19.6	19.6	.....	.....	0.4	1.1	.....	1.1
24	(d) Other....1940..length, miles	41.5	41.5	33.0	3.0	30.0	0.2	0.1	0.5	0.5	.....
25	Storage dams....1940..total number	194	193	59	53	6	.....	19	6	.....	6
26	1930..total number	168	168	41	34	4	.....	30	4	.....	4
27	1920..total number	134	134	33	19	9	.....	29	10	.....	10
28	(a) Concrete and masonry....1940..number	47	47	5	2	3	.....	6	3	.....	3
29	(b) Earth and rock....1940..number	134	134	51	49	2	.....	11	3	.....	3
30	(c) Other, mixed, and not reported..1940..number	13	12	3	2	1	.....	2	.....	.....	.....
31	Reservoirs....1940..total number	542	541	112	85	27	14	227	17	3	14
32	(a) 1-99 acre-feet capacity....1940..number	462	461	66	45	21	14	219	13	3	10
33	(b) 100-999 acre-feet capacity....1940..number	38	38	20	19	1	.....	2	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	42	42	26	21	5	.....	6	4	.....	4
35	1940..total capacity, ac.-ft.[4]	1,405,024	1,405,023	404,251	93,163	311,088	13	21,872	260,613	30	260,583
36	1930..total number	325	325	74	64	5	.....	163	13	.....	13
37	1930..total capacity, ac.-ft.	935,085	935,085	52,572	21,280	30,688	.....	6,840	263,281	.....	263,281
38	Wells, flowing....1940..number	100	100	25	3	22	.....	37	27	1	26
39	1930..number	61	61	11	.....	11	.....	30	6	.....	6
40	1920..number	135	135	15	.....	14	.....	81	25	.....	25
41	1940..yield, g.p.m.	39,508	39,508	8,165	155	8,010	.....	15,970	14,093	(5)	14,078
42	1930..yield, g.p.m.	36,020	36,020	15,000	.....	15,000	.....	16,173	3,520	.....	3,520
43	1920..yield, g.p.m.	62,364	62,364	9,110	.....	9,050	.....	26,065	15,465	.....	15,465
44	Wells, pumped....1940..number	3,396	3,396	214	137	77	53	499	176	83	93
45	1930..number	1,102	1,102	50	3	23	.....	407	27	.....	27
46	1920..number	901	901	49	5	42	.....	275	43	.....	43
47	1940..yield, g.p.m.	2,213,230	2,213,230	103,447	80,561	22,886	8,922	179,010	126,698	82,449	44,249
48	1930..yield, g.p.m.	614,395	614,395	16,283	2,320	10,275	.....	155,378	16,647	.....	16,647
49	1920..yield, g.p.m.	538,565	538,565	23,872	2,025	21,509	.....	72,937	12,864	.....	12,864
50	Pumping plants....1940..total number	4,674	4,674	809	722	87	58	680	262	144	118
51	1930..total number	1,828	1,828	279	216	26	.....	445	39	.....	39
52	Prime movers....1940..capacity, hp.	195,061	195,061	40,786	39,777	1,009	546	13,663	5,268	3,888	1,380
53	1930..capacity, hp.	95,933	95,933	38,386	37,142	369	.....	12,553	982	.....	982
54	1920..capacity, hp.	80,511	80,511	22,560	21,779	719	.....	6,533	1,438	.....	1,438
55	(a) Electric....1940..number	834	834	168	164	4	5	131	71	21	50
56	1940..capacity, hp.	46,674	46,674	8,543	8,494	49	40	3,033	1,737	1,079	658
57	(b) Internal-combustion....1940..number	3,314	3,314	534	496	38	36	517	176	112	64
58	1940..capacity, hp.	124,889	124,889	21,220	20,418	802	464	10,521	3,512	2,796	716
59	(c) Other....1940..number	526	526	107	62	45	17	32	15	11	4
60	1940..capacity, hp.	23,498	23,498	11,023	10,865	158	42	109	19	13	6
61	Pumps....1940..total number	4,754	4,754	838	754	84	58	690	260	143	117
62	1930..number	2,028	2,028	358	282	35	.....	485	42	.....	42
63	1920..number	1,641	1,641	232	172	53	.....	342	80	.....	80
64	1940..capacity, g.p.m.	9,916,225	9,916,225	4,122,466	4,088,747	33,719	10,900	348,102	214,308	156,247	58,061
65	1930..capacity, g.p.m.	6,494,999	6,494,999	3,325,623	3,077,125	14,100	.....	217,182	34,267	.....	34,267
66	1920..capacity, g.p.m.	6,825,998	6,825,998	2,414,876	2,383,251	28,253	.....	160,472	31,039	.....	31,039
67	(a) Centrifugal....1940..number	1,604	1,604	551	534	17	8	243	155	78	77
68	1940..capacity, g.p.m.	6,795,725	6,795,725	3,532,580	3,516,850	15,730	3,370	192,825	147,398	109,903	37,495
69	1940..average capacity, g.p.m.	4,237	4,237	6,411	6,586	925	421	794	951	1,409	487
70	(b) Turbine....1940..number	2,215	2,215	112	92	20	8	305	47	27	20
71	1940..capacity, g.p.m.	2,622,843	2,622,843	144,950	129,500	15,450	2,075	141,763	64,400	44,600	19,800
72	1940..average capacity, g.p.m.	1,184	1,184	1,294	1,408	772	259	465	1,370	1,652	990
73	(c) Plunger....1940..number	791	791	97	53	44	27	120	54	35	19
74	1940..capacity, g.p.m.	42,715	42,715	1,416	1,047	369	3,036	8,538	2,090	1,329	761
75	1940..average capacity, g.p.m.	54	54	15	20	8	112	71	39	38	40
76	(d) Other....1940..number	144	144	78	75	3	15	22	4	3	1
77	1940..capacity, g.p.m.	454,942	454,942	443,520	441,350	2,170	2,419	4,976	420	415	(5)
78	Pumping lift, from all sources....1940..average, feet	69	69	51	41	108	44	59	49	60	34
79	1930..average, feet	55	55	49	50	45	.....	97	32	.....	32
80	1920..average, feet	45	45	50	50	53	.....	47	39	.....	39
81	from pumped wells....1940..average, feet	82	82	99	89	117	43	67	55	78	36
82	from surface sources...1940..average, feet	27	27	22	22	32	66	37	35	37	29

[1] Data for unidentified basins for the 1930 and 1920 Censuses are included only in State totals.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920

GULF OF MEXICO—Continued																INDEPENDENT BASIN	
Colorado River			Brazos River			San Jacinto River	Trinity River	Sabine River			Mississippi River						
												Arkansas River					
												Canadian River					
Total	Direct (7)	Llano River (8)	Total	Direct (9)	Little River (10)	(11)	(12)	Total	Direct (13)	Neches River (14)	Total	Total	Direct (16)	Mustang Creek (17)	North Canadian River (18)	Red River (19)	Sacramento-Salt Lakes (21)	
472	391	81	1,050	1,044	6	42	71	38	6	32	817	66	34	12	20	751	3	1
368	442	10	253	255	15	345	972	2,317	3,023	2,184	260	58	55	128	22	278	9	2
41	39	2	15	15	.....	.....	5	2	.....	2	4	2	2	.....	.....	2	1	3
15	.....	.....	2	.....	.....	.....	1	4	4	.....	3	1	.....	.....	.....	2	.....	4
46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	13	.....	5
27	27	.....	2	2	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	6
4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
7	5	2	13	13	.....	.....	5	2	.....	2	2	.....	.....	.....	.....	2	1	8
3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	9
664.0	661.8	2.2	151.8	151.8	.....	.....	486.6	465.6	117.0	348.6	312.2	12.2	8.2	.....	4.0	300.0	.....	10
731	.....	.....	42	.....	.....	.....	61	235	15	220	201	2	.....	.....	.....	199	.....	11
963	.....	.....	266	.....	.....	.....	179	192	75	117	131	4	.....	.....	.....	127	.....	12
644	643	1	151	151	.....	.....	486	465	117	348	311	12	8	.....	4	299	.....	13
20.0	18.8	1.2	0.8	0.8	.....	.....	0.6	0.6	.....	0.6	1.2	0.2	0.2	.....	.....	1.0	.....	14
3,100	3,054	46	1,099	1,096	3	.....	1,203	2,399	261	2,138	1,116	34	16	.....	18	1,082	5	15
1,791	.....	.....	393	.....	.....	.....	2,257	1,178	106	1,072	1,016	16	.....	.....	.....	1,000	.....	16
3,925	.....	.....	287	.....	.....	.....	1,022	1,861	481	1,380	113	4	.....	.....	.....	109	.....	17
38.4	28.7	9.7	14.0	13.0	1.0	2.1	46.0	0.3	0.1	0.2	11.9	7.1	1.5	.....	5.6	4.8	.....	18
7.9	.....	.....	6.1	.....	.....	.....	9.2	0.4	0.4	.....	0.6	.....	.....	.....	.....	0.6	.....	19
8.5	.....	.....	2.2	.....	.....	.....	1.5	.....	.....	.....	0.2	0.2	.....	.....	.....	.....	.....	20
2.9	2.9	.....	0.9	0.7	0.2	.....	2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
29.4	19.8	9.6	12.6	11.8	0.8	2.1	44.0	0.1	0.1	.....	9.9	6.1	1.5	.....	4.6	3.8	.....	22
0.1	.....	0.1	.....	.....	.....	.....	.....	.....	.....	.....	1.0	.....	.....	.....	.....	1.0	.....	23
6.0	6.0	.....	0.5	0.5	.....	.....	.....	0.2	.....	0.2	1.0	1.0	.....	.....	.....	1.0	.....	24
53	50	3	25	24	1	2	5	1	1	.....	23	15	9	.....	6	8	1	25
53	.....	.....	20	.....	.....	.....	2	.....	.....	.....	4	1	.....	.....	.....	3	.....	26
53	.....	.....	2	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	2	.....	27
27	27	.....	6	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
25	22	3	18	17	1	2	5	1	1	.....	18	10	9	.....	1	8	.....	29
1	1	.....	1	1	.....	.....	.....	.....	.....	.....	5	5	.....	.....	5	.....	1	30
67	60	7	44	43	1	4	11	1	1	.....	44	17	9	.....	8	27	1	31
57	51	6	41	40	1	4	4	1	1	.....	42	17	9	.....	8	25	1	32
8	8	.....	2	2	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
2	1	1	1	1	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	2	.....	34
8,299	4,296	4,003	3,041	3,037	(5)	8	25,215	(5)	(5)	.....	681,709	44	29	.....	15	681,665	(5)	35
33	.....	.....	20	.....	.....	.....	1	.....	.....	.....	4	1	.....	.....	.....	3	.....	36
8,828	.....	.....	3,534	.....	.....	.....	1	.....	.....	.....	600,002	1	.....	.....	.....	600,001	.....	37
9	2	7	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	38
13	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
3	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2	.....	40
742	(5)	142	(5)	(5)	.....	.....	.....	.....	.....	.....	(5)	.....	.....	.....	.....	(5)	.....	41
1,255	.....	.....	72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
5,400	.....	.....	3,500	.....	.....	.....	.....	.....	.....	.....	2,500	.....	.....	.....	.....	2,500	.....	43
270	228	42	1,137	1,134	3	52	88	3	1	2	904	73	33	16	24	831	.....	44
117	.....	.....	171	.....	.....	.....	65	.....	.....	.....	70	9	.....	.....	.....	61	.....	45
57	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	49	3	.....	.....	.....	46	.....	46
37,555	36,333	1,222	942,099	941,959	140	67,336	13,205	530	(5)	(5)	734,428	24,451	8,117	13,300	3,034	709,977	.....	47
26,143	.....	.....	121,854	.....	.....	.....	9,772	.....	.....	.....	59,800	1,060	.....	.....	.....	58,740	.....	48
30,667	.....	.....	136,332	.....	.....	.....	.....	.....	.....	.....	49,750	2,000	.....	.....	.....	47,750	.....	49
507	435	72	1,201	1,195	6	54	108	61	8	53	934	77	34	16	27	857	.....	50
374	.....	.....	212	.....	.....	.....	60	7	4	3	72	9	.....	.....	.....	63	.....	51
18,750	18,440	310	54,435	54,398	37	2,564	8,746	10,295	1,629	8,666	40,008	1,072	380	567	125	38,936	.....	52
17,507	.....	.....	8,829	.....	.....	.....	2,461	2,887	361	2,526	2,438	125	.....	.....	.....	2,313	.....	53
13,500	.....	.....	6,276	.....	.....	.....	7,688	7,705	1,855	5,850	3,495	115	.....	.....	.....	3,380	.....	54
90	90	.....	115	111	4	33	37	.....	.....	.....	184	14	11	.....	3	170	.....	55
12,858	12,858	.....	7,840	7,823	17	1,619	3,960	.....	.....	.....	7,044	177	138	.....	39	6,867	.....	56
305	274	31	985	983	2	20	62	40	8	32	639	30	13	14	3	609	.....	57
4,592	4,325	267	46,404	46,384	(5)	944	686	3,742	1,629	2,113	32,804	858	223	565	70	31,946	.....	58
112	71	41	101	101	.....	1	9	21	.....	21	111	33	10	2	21	78	.....	59
1,300	1,257	43	191	191	.....	(5)	4,100	6,553	.....	6,553	160	37	19	(5)	16	123	.....	60
545	482	63	1,200	1,194	6	52	110	62	8	54	939	78	36	17	25	861	.....	61
414	.....	.....	219	.....	.....	.....	69	17	4	13	75	9	.....	.....	.....	66	.....	62
359	.....	.....	175	.....	.....	.....	20	39	16	23	63	3	.....	.....	.....	60	.....	63
1,413,973	1,397,942	16,031	1,445,574	1,444,414	1,160	67,936	490,010	1,051,299	49,119	1,002,180	751,657	25,284	8,716	13,305	3,263	726,373	.....	64
1,308,649	.....	.....	268,075	.....	.....	.....	326,717	421,587	26,500	395,087	59,954	1,060	.....	.....	.....	58,894	.....	65
912,048	.....	.....	153,585	.....	.....	.....	445,100	2,116,500	187,000	1,929,500	52,260	2,000	.....	.....	.....	50,260	.....	66
278	258	20	164	160	4	3	94	48	8	40	60	14	9	3	2	46	.....	67
1,225,610	1,209,800	15,810	554,498	553,448	1,050	1,150	488,360	611,269	49,119	562,150	38,665	4,065	1,845	1,700	(5)	34,600	.....	68
4,409	4,689	790	3,381	3,459	262	383	5,195	12,735	6,140	14,054	644	290	205	567	(5)	752	.....	69
26	26	.....	905	904	1	46	2	12	.....	12	752	27	11	12	4	725	.....	70
169,010	169,010	.....	886,440	886,350	(5)	66,715	(5)	440,000	.....	440,000	707,190	20,675	6,475	11,550	2,650	686,515	.....	71
6,500	6,500	.....	979	980	(5)	1,450	(5)	36,667	.....	36,667	940	766	589	962	662	947	.....	72
234	192	42	124	123	1	1	9	2	.....	2	123	37	16	2	19	86	.....	73
17,739	17,534	205	3,334	3,314	(5)	(5)	770	(5)	.....	(5)	5,757	544	396	(5)	93	5,213	.....	74
76	91	5	27	27	(5)	(5)	86	(5)	.....	(5)	47	15	25	(5)	5	61	.....	75
7	6	1	7	7	.....	2	5	.....	.....	.....	4	.....	.....	.....	.....	4	.....	76
1,614	1,598	(5)	1,302	1,302	.....	(5)	580	.....	.....	.....	45	.....	.....	.....	.....	45	.....	77
43	42	52	85	85	40	76	24	12	7	13	94	93	87	50	139	95	.....	78
38	.....	.....	54	.....	.....	.....	19	35	12	65	64	200	.....	.....	.....	45	.....	79
30	.....	.....	63	.....	.....	.....	34	18	14	24	81	80	.....	.....	.....	81	.....	80
63	62	63	88	88	57	76	22	12	(5)	(5)	96	99	100	50	146	96	.....	81
26	26	31	23	24	14	.....	27	12	8	12	28	13	14	.....	10	33	.....	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Armstrong	Atascosa	Bailey	Bandera
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[6]						
1	All farms.....1940...number.....	418,002		408	2,020	820	656
2	1930...number.....	495,489		472	1,816	758	678
3	Irrigated farms.....1940...number.....	19,568		6	166	247	8
4	1930...number.....	10,861		.....	45	17	6
5	Increase or decrease (-), 1930-1940.....percent....	80.2		.....	268.9	(1)	33.3
	Operated by—						
6	(a) Owners and managers.....1940...number.....	12,181		5	60	138	7
7	1930...number.....	6,056		.....	29	13	.....
8	(b) Tenants.....1940...number.....	7,387		1	106	109	1
9	1930...number.....	4,805		.....	16	4	.....
10	Land in all farms.....1940...acres.....	137,683,372		[2] 810,492	700,079	452,350	479,042
11	Land in irrigated farms.....1940...acres.....	11,619,780		9,684	8,900	96,302	14,676
12	Average per farm.....1940...acres.....	594		1,614	54	390	1,835
13	(a) Operated by owners and managers.....1940...acres.....	9,672,335		(3)	5,890	58,609	(3)
14	Average per farm.....1940...acres.....	794		(3)	98	425	(3)
15	(b) Operated by tenants.....1940...acres.....	1,947,445		(3)	3,010	37,693	(3)
16	Average per farm.....1940...acres.....	264		(3)	28	346	(3)
17	Approximate land area.....1940...acres.....	168,732,160		581,760	771,840	532,480	489,600
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	1,045,224		535	2,321	5,849	12
19	(a) Cropland harvested.....1939...acres.....	961,765		434	2,164	5,661	8
20	(b) Crop failure.....1939...acres.....	12,589		99	40	29	.....
21	(c) Pasture.....1939...acres.....	70,870		2	117	159	4
22	Area irrigated.....1929...acres.....	798,917		.....	1,452	597	.....
23	1919...acres.....	586,120		.....	2,312	2,195	.....
24	Increase or decrease (-), 1929-1939.....percent....	30.8		.....	59.8	879.7	.....
25	Irrigable area in enterprises.....1940...acres.....	2,180,796		697	3,320	9,824	21
26	1930...acres.....	1,566,876		.....	2,370	2,525	.....
27	1920[4]...acres.....	1,687,447		.....	6,445	4,680	.....
28	Excess of irrigable area over the area irrigated..1940...acres.....	1,135,572		162	999	3,975	9
29	1930...acres.....	767,959		.....	918	1,928	.....
30	Area works were capable of supplying with water...1940...acres.....	1,773,812		656	3,320	9,814	21
31	1930...acres.....	1,177,415		.....	2,256	2,525	.....
32	1920...acres.....	1,150,542		.....	4,067	3,555	.....
33	Increase or decrease (-), 1930-1940.....percent....	50.7		.....	47.2	288.7	.....
34	Excess, capability of works over area irrigated...1940...acres.....	728,588		121	999	3,965	9
35	1930...acres.....	378,498		.....	804	1,928	.....
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	9.0		5.5	26.1	6.1	0.1
37	1929...percent....	42.1		.....	22.3	11.9	.....
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	58.9		81.6	69.9	59.6	57.1
39	1929...percent....	67.9		.....	64.4	23.6	.....
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	66,441,376		9,866	111,477	96,766	800
41	(a) Cost of irrigation works and equipment.....1940...dollars....	65,884,261		9,866	111,477	96,766	800
42	(b) Investment in water rights (reported).....1940...dollars....	557,115		.....	.....	.....	.....
43	Total investment in all enterprises.....1930...dollars....	49,022,164		.....	187,815	30,100	.....
44	1920...dollars....	35,072,739		.....	142,168	73,900	.....
45	Increase or decrease (-), 1930-1940.....percent....	35.5		.....	-40.6	221.5	.....
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	37.46		.....	33.58	9.86	38.10
47	1930...dollars....	41.64		.....	83.25	11.92	.....
48	1920...dollars....	30.48		.....	34.96	20.79	.....
49	Average investment per acre irrigated.....1939...dollars....	63.57		18.44	48.03	16.54	66.67
50	Estimated final investment in existing enterprises..1940...dollars....	67,319,032		10,366	111,477	99,483	800
51	1930...dollars....	59,555,624		.....	199,815	30,100	.....
52	1920...dollars....	39,860,871		.....	146,218	73,900	.....
53	Increase or decrease (-), 1930-1940.....percent....	13.0		.....	-44.2	230.5	.....
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	30.87		.....	33.58	10.13	.....
55	1930...dollars....	38.01		.....	84.31	11.92	.....
56	1920[4]...dollars....	23.62		.....	22.69	15.79	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental				
57	Enterprises reporting maintenance and operation...1939...number.....	3,299	18	5	46	64	4
58	Area irrigated in these enterprises.....1939...acres.....	1,002,202	51,197	535	2,064	3,984	12
59	Cost of maintenance and operation.....1939...dollars....	3,865,224	32,666	1,073	7,765	4,669	97
60	Average cost, per acre irrigated.....1939...dollars....	3.86	0.64	2.01	3.76	1.17	8.08
61	1929...dollars....	4.74	.....	.....	5.12	4.93	.....
62	Total annual charges (reported)[5] [6].....1939...dollars....	3,855,789	230,915	.....	2,838	.....	.....
63	Average annual charge per acre irrigated.....1939...dollars....	5.61	4.69	.....	4.62	.....	.....
64	Area against which charges were assessed.....1939...acres.....	1,087,092	165,650	.....	749	.....	.....
65	Average annual charge per acre assessed.....1939...dollars....	3.55	1.39	.....	3.79	.....	.....
66	Total charges collected[5].....1939...dollars....	3,671,948	58,500	.....	625	.....	.....
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	34,699,264	1,342,124	.....	7,729	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	3,610	17	5	54	82	4
69	Area irrigated in these enterprises.....1939...acres.....	1,017,411	22,807	535	2,241	5,478	12
70	Water delivered in these enterprises.....1939...acre-feet..	2,404,098	32,212	613	4,998	9,297	12
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.4	1.4	1.1	2.2	1.7	1.0
72	Average cost of water per acre irrigated.....1939...dollars....	4.85	1.39	2.01	4.27	1.17	8.08
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	99	.....	.....	.....	.....	1
74	Irrigable area in these enterprises.....1939...acres.....	867,141	.....	.....	.....	.....	(3)
75	Irrigated area in these enterprises.....1939...acres.....	397,227	.....	.....	.....	.....	(3)
76	Area for which drains have been installed.....1939...acres.....	553,850	.....	.....	.....	.....	(3)
77	Additional area needing drainage.....1939...acres.....	106,837	.....	.....	.....	.....	.....

[6] Census of Agriculture.

[1] Percent not shown when more than 1,000.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Bexar	Brazoria	Brewster	Briscoe	Brooks	Callahan	Cameron	Castro	Chambers	Coke	Coleman	Colorado	
3,664	1,824	265	516	397	1,435	3,243	703	368	756	2,049	2,227	1
3,467	2,163	287	679	513	1,451	2,936	751	577	838	2,583	2,589	2
385	68	22	62	20	7	2,590	174	79	12	13	96	3
156	15	57	.....	14	.....	2,395	.....	22	7	5	42	4
146.8	353.3	-61.4	.....	42.9	.....	8.1	.....	259.1	71.4	160.0	128.6	5
257	18	17	43	20	4	1,297	127	19	8	9	40	6
90	8	42	.....	.....	.....	1,258	.....	10	.....	.....	24	7
118	50	5	19	.....	3	1,293	47	60	4	4	56	8
66	7	15	.....	.....	.....	1,137	.....	12	.....	.....	18	9
573,088	578,969	2,916,372	347,220	[2] 595,051	472,236	318,629	489,121	200,214	[2] 661,601	747,419	457,586	10
19,224	42,928	16,482	33,395	48,995	645	213,930	127,952	44,637	41,971	2,243	82,425	11
50	631	749	539	2,450	92	83	735	565	3,498	173	859	12
15,615	21,447	15,152	26,815	48,995	573	104,931	104,321	19,408	36,032	1,848	62,974	13
58	1,192	891	624	2,450	143	81	821	1,021	4,504	205	1,574	14
3,609	21,481	1,330	6,580	.....	72	108,999	23,631	25,229	5,939	395	19,451	15
31	430	266	346	.....	24	84	503	420	1,485	99	347	16
798,080	922,240	3,973,120	567,680	581,120	548,480	565,120	560,640	395,520	585,600	820,480	608,000	17
15,515	37,060	1,113	1,233	349	53	88,273	17,739	32,180	200	167	20,910	18
13,658	36,740	646	1,050	327	53	85,696	17,273	32,180	200	167	20,910	19
298	270	80	103	10	.....	1,515	.....	.....	.....	.....	.....	20
1,559	50	387	80	12	.....	1,062	466	.....	.....	.....	.....	21
5,039	3,796	779	.....	.....	.....	155,804	.....	1,444	.....	.....	18,727	22
12,933	350	596	.....	.....	.....	60,008	.....	29,200	.....	.....	15,321	23
207.9	876.3	42.9	.....	.....	.....	-43.3	.....	(3)	.....	.....	11.7	24
24,901	59,849	1,831	2,773	661	113	209,147	26,939	125,535	390	195	145,937	25
41,152	5,948	1,604	.....	.....	.....	237,308	.....	18,000	.....	.....	135,250	26
59,055	1,000	1,087	.....	.....	.....	178,414	.....	72,200	.....	.....	45,287	27
9,386	22,789	718	1,540	312	60	120,674	9,200	93,355	190	28	125,027	28
36,113	2,152	825	.....	.....	.....	81,504	.....	16,556	.....	.....	116,523	29
24,844	53,849	1,407	2,052	535	113	199,255	26,919	46,500	365	195	55,937	30
30,499	5,548	1,342	.....	.....	.....	210,093	.....	15,000	.....	.....	50,495	31
57,736	1,000	873	.....	.....	.....	120,948	.....	38,700	.....	.....	19,378	32
-18.5	870.6	4.8	.....	.....	.....	-5.2	.....	210.0	.....	.....	10.8	33
9,329	16,789	294	819	186	60	110,982	9,180	14,320	165	28	35,027	34
25,460	1,752	563	.....	.....	.....	54,289	.....	13,556	.....	.....	31,768	35
80.7	86.3	6.8	3.7	0.7	8.2	41.3	13.9	72.1	0.5	7.4	25.4	36
42.6	89.9	0.9	.....	.....	.....	148.5	.....	11.4	.....	.....	84.0	37
62.4	68.8	79.1	60.1	65.2	46.9	41.3	65.9	69.2	54.8	85.6	37.4	38
16.5	68.4	58.0	.....	.....	.....	74.2	.....	9.6	.....	.....	37.1	39
2,112,702	860,563	25,200	26,620	51,592	4,175	8,618,647	238,683	1,160,043	7,525	33,300	665,150	40
2,112,602	846,413	24,800	26,620	51,592	4,175	8,382,352	238,483	1,158,936	7,525	33,300	654,000	41
100	14,150	400	.....	.....	.....	236,295	200	1,107	.....	.....	11,150	42
650,050	102,485	42,675	.....	.....	.....	7,198,289	.....	85,000	.....	.....	485,700	43
4,946,566	10,010	80,955	.....	.....	.....	3,108,489	.....	1,008,802	.....	.....	523,925	44
225.0	739.7	-40.9	.....	.....	.....	19.7	.....	(4)	.....	.....	36.9	45
85.04	15.98	17.91	12.97	96.43	36.95	43.25	8.87	24.95	20.62	170.77	11.89	46
21.31	18.47	31.80	.....	.....	.....	34.26	.....	5.67	.....	.....	9.62	47
85.68	10.01	92.73	.....	.....	.....	25.70	.....	26.07	.....	.....	27.04	48
136.17	23.22	22.64	21.59	147.83	78.77	97.64	13.46	36.05	37.62	199.40	31.81	49
2,113,062	882,195	30,445	26,770	54,592	4,175	8,955,347	241,408	1,160,043	7,525	33,300	665,150	50
653,050	103,735	51,175	.....	.....	.....	11,563,289	.....	85,000	.....	.....	535,700	51
5,446,566	10,010	90,655	.....	.....	.....	4,098,469	.....	1,008,802	.....	.....	523,925	52
223.6	750.4	-40.5	.....	.....	.....	-22.6	.....	(4)	.....	.....	24.2	53
84.86	14.74	16.63	9.65	82.59	36.95	42.82	8.96	9.24	19.29	170.77	4.56	54
15.87	17.44	31.90	.....	.....	.....	48.73	.....	4.72	.....	.....	3.96	55
92.23	10.01	83.40	.....	.....	.....	22.97	.....	13.97	.....	.....	11.57	56
	Primary Enterprises	Sup.				Primary Enterprises	Sup.					
61	12	2	17	17	19	4	132	3	74	4	3	9	8	57
13,311	36,825	(3)	933	1,229	299	33	86,961	103	13,463	32,180	200	37	20,270	58
35,545	194,235	(3)	4,305	3,465	2,171	120	475,035	85	28,602	219,497	340	170	126,449	59
2.67	5.27	(3)	4.61	2.82	7.26	3.64	5.46	0.83	2.12	6.82	1.70	4.59	6.24	60
10.38	4.69	.....	6.04	.....	.....	.....	4.46	.....	.....	20.66	.....	.....	6.83	61
40,135	315,700	.....	.....	.....	.....	.....	545,349	.....	.....	279,470	.....	.....	171,244	62
3.77	9.33	.....	.....	.....	.....	.....	6.86	.....	.....	8.68	.....	.....	8.88	63
14,946	33,850	.....	.....	.....	.....	.....	191,980	.....	.....	32,180	.....	.....	19,285	64
2.69	9.33	.....	.....	.....	.....	.....	2.84	.....	.....	8.68	.....	.....	8.88	65
26,966	305,688	200	.....	.....	.....	.....	384,821	.....	.....	279,361	.....	.....	88,511	66
300,807	462,880	46,669	.....	.....	.....	.....	4,178,800	.....	.....	454,443	.....	.....	9,333	67
98	14	2	20	18	15	4	89	6	99	4	3	11	14	68
15,297	37,060	(3)	1,113	1,233	280	33	88,243	235	17,739	32,180	200	167	20,910	69
42,434	156,590	(3)	1,425	1,294	719	56	192,286	295	17,005	135,165	106	477	57,901	70
2.8	4.2	(3)	1.3	1.0	2.6	1.7	2.2	1.3	1.0	4.2	0.5	2.9	2.8	71
3.73	8.78	(3)	4.61	2.82	8.87	3.64	6.88	0.83	2.12	8.68	1.70	4.59	8.86	72
3	1	.....	.....	.....	1	.....	8	.....	.....	2	.....	1	.....	73
41	(3)	.....	.....	.....	(3)	.....	127,721	.....	.....	(3)	.....	(3)	.....	74
41	(3)	.....	.....	.....	(3)	.....	52,340	.....	.....	(3)	.....	(3)	.....	75
41	(3)	.....	.....	.....	(3)	.....	119,232	.....	.....	(3)	.....	(3)	.....	76
.....	.....	.....	.....	.....	(3)	.....	7,515	.....	.....	(3)	.....	.....	.....	77

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Comal	Concho	Crosby	Dallam	Dallas	Deaf Smith
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number	732	727	1,288	473	3,510	854
2	1930...number	897	1,137	1,739	660	4,830	630
3	Irrigated farms....1940...number	5	8	180	60	40	250
4	1930...number	5	4	.....	.....	19	18
5	Increase or decrease (-), 1930-1940....percent	.....	100.0	.....	.....	110.5	(1)
	Operated by—						
6	(a) Owners and managers....1940...number	5	4	55	25	28	189
7	1930...number	.....	.....	.....	.....	.....	15
8	(b) Tenants....1940...number	.....	4	125	35	12	61
9	1930...number	.....	.....	.....	.....	.....	3
10	Land in all farms....1940...acres	309,811	555,075	452,191	813,966	387,521	933,959
11	Land in irrigated farms....1940...acres	110	1,626	38,525	76,143	1,133	221,690
12	Average per farm....1940...acres	22	203	214	1,269	28	887
13	(a) Operated by owners and managers....1940...acres	110	682	19,230	44,458	828	180,102
14	Average per farm....1940...acres	22	170	350	1,778	30	953
15	(b) Operated by tenants....1940...acres	.....	944	19,295	31,685	305	41,588
16	Average per farm....1940...acres	.....	236	154	905	25	682
17	Approximate land area....1940...acres	362,880	642,560	583,040	956,160	571,520	964,480
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres	105	115	1,103	467	287	28,688
19	(a) Cropland harvested....1939...acres	63	115	1,024	348	285	27,053
20	(b) Crop failure....1939...acres	.....	.....	.....	119	2	180
21	(c) Pasture....1939...acres	42	.....	79	.....	.....	1,455
22	Area irrigated....1929...acres	.....	.....	.....	.....	.....	537
23	1919...acres	.....	.....	.....	.....	.....	6,483
24	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	.....	.....	(1)
25	Irrigable area in enterprises....1940...acres	105	117	1,425	1,539	343	49,930
26	1930...acres	.....	.....	.....	.....	.....	6,823
27	1920[4]...acres	.....	.....	.....	.....	.....	13,341
28	Excess of irrigable area over the area irrigated..1940...acres	.....	2	322	1,072	56	21,242
29	1930...acres	.....	.....	.....	.....	.....	6,286
30	Area works were capable of supplying with water...1940...acres	105	117	1,424	1,539	343	49,430
31	1930...acres	.....	.....	.....	.....	.....	6,680
32	1920...acres	.....	.....	.....	.....	.....	11,345
33	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	640.0
34	Excess, capability of works over area irrigated...1940...acres	.....	2	321	1,072	56	20,742
35	1930...acres	.....	.....	.....	.....	.....	6,143
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	95.5	7.1	2.9	0.6	25.3	12.9
37	1929...percent	.....	.....	.....	.....	.....	5.9
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	100.0	98.3	77.5	30.3	83.7	58.0
39	1929...percent	.....	.....	.....	.....	.....	8.0
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars	975	1,900	30,775	20,745	32,754	630,146
41	(a) Cost of irrigation works and equipment....1940...dollars	900	1,900	30,775	20,745	32,754	627,646
42	(b) Investment in water rights (reported)....1940...dollars	75	.....	.....	.....	.....	2,500
43	Total investment in all enterprises....1930...dollars	.....	.....	.....	.....	.....	225,500
44	1920...dollars	.....	.....	.....	.....	.....	290,300
45	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	179.4
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	9.29	16.24	21.61	13.48	95.49	12.75
47	1930...dollars	.....	.....	.....	.....	.....	33.76
48	1920...dollars	.....	.....	.....	.....	.....	25.59
49	Average investment per acre irrigated....1939...dollars	9.29	16.52	27.90	44.42	114.13	21.97
50	Estimated final investment in existing enterprises..1940...dollars	1,025	1,900	30,775	22,730	32,854	636,846
51	1930...dollars	.....	.....	.....	.....	.....	225,500
52	1920...dollars	.....	.....	.....	.....	.....	290,300
53	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	.....	.....	182.4
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	9.76	16.24	21.60	14.77	95.78	12.75
55	1930...dollars	.....	.....	.....	.....	.....	33.05
56	1920[4]...dollars	.....	.....	.....	.....	.....	21.76
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
57	Enterprises reporting maintenance and operation...1939...number	4	2	16	9	34	165
58	Area irrigated in these enterprises....1939...acres	105	(3)	898	466	247	25,955
59	Cost of maintenance and operation....1939...dollars	127	(3)	3,050	1,455	3,586	67,041
60	Average cost, per acre irrigated....1939...dollars	1.21	(3)	3.40	3.12	14.52	2.58
61	1929...dollars	.....	.....	.....	.....	.....	9.35
62	Total annual charges (reported)[7] [8]....1939...dollars	.....	.....	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	.....	.....
66	Total charges collected[7]....1939...dollars	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[8]....1939...dollars	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	3	2	20	10	39	167
69	Area irrigated in these enterprises....1939...acres	31	(3)	1,103	467	287	27,880
70	Water delivered in these enterprises....1939...acre-feet	31	(3)	1,126	433	760	33,256
71	Average water delivered per acre irrigated....1939...acre-feet	1.0	(3)	1.0	0.9	2.6	1.2
72	Average cost of water per acre irrigated....1939...dollars	3.29	.....	3.40	3.12	14.52	2.58
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	.....	.....	8	.....
74	Irrigable area in these enterprises....1939...acres	.....	.....	.....	.....	80	.....
75	Irrigated area in these enterprises....1939...acres	.....	.....	.....	.....	54	.....
76	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	40	.....
77	Additional area needing drainage....1939...acres	.....	.....	.....	.....	5	.....

*Census of Agriculture.

[1] Percent not shown when more than 1,000.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Dickens	Dimmit	Donley	Edwards	El Paso	Fisher	Floyd	Fort Bend	Frio	Galveston	Gillespie	Glasscock	
920	442	877	272	1,075	1,487	1,317	3,644	713	909	1,407	148	1
1,228	241	1,364	258	1,263	2,088	1,671	4,258	943	674	1,444	125	2
65	252	8	53	1,001	13	471	58	53	29	236	44	3
.....	106	.....	4	1,150	10	32	25	18	10	4	.....	4
.....	137.7	.....	(1)	-13.0	30.0	(1)	132.0	194.4	190.0	(1)	.....	5
35	144	3	40	765	12	247	17	40	28	201	32	6
.....	79	.....	.....	779	.....	9	5	11	.....	.....	.....	7
30	108	5	13	236	1	224	41	13	1	35	12	8
.....	27	.....	.....	371	.....	23	20	7	.....	.....	.....	9
320,317	620,614	523,800	1,261,077	325,565	490,141	496,521	404,575	629,645	121,272	[2] 676,080	[2] 566,065	10
27,380	144,256	4,017	282,425	122,426	6,737	182,970	27,065	45,826	2,060	130,769	193,296	11
421	572	502	5,329	122	518	388	467	865	71	554	4,393	12
23,327	98,104	1,617	220,378	111,881	(3)	129,035	16,729	37,095	(3)	121,345	167,626	13
666	681	539	5,509	146	(3)	522	984	927	(3)	604	5,238	14
4,053	46,152	2,400	62,047	10,545	(3)	53,935	10,336	8,731	(3)	9,424	25,672	15
135	427	480	4,773	45	(3)	241	252	672	(3)	269	2,139	16
595,200	858,240	581,760	1,328,000	674,560	579,840	635,520	554,880	714,240	275,200	675,200	552,960	17
24	14,305	6	100	61,153	291	39,354	12,209	761	36	48	81	18
23	7,578	6	82	58,978	226	38,291	12,209	362	36	48	15	19
1	168	.....	.....	1,565	23	418	.....	3	.....	.....	.....	20
.....	6,559	.....	18	610	42	645	.....	396	.....	.....	66	21
.....	13,694	.....	.....	65,442	.....	1,733	13,895	1,101	.....	.....	.....	22
.....	5,397	.....	.....	20,259	.....	1,497	.....	655	.....	.....	.....	23
.....	4.5	.....	.....	-6.6	.....	(1)	-12.1	-30.9	.....	.....	.....	24
28	27,332	47	147	74,708	436	58,782	35,097	1,276	91	61	201	25
.....	18,614	.....	.....	67,000	.....	1,736	34,401	2,466	.....	.....	.....	26
.....	19,792	.....	.....	58,005	.....	5,585	.....	3,369	.....	.....	.....	27
4	13,027	41	47	13,555	145	19,428	22,888	515	55	13	120	28
.....	4,920	.....	.....	1,558	.....	3	20,506	1,365	.....	.....	.....	29
28	26,844	47	147	69,010	416	57,899	32,097	1,276	59	56	195	30
.....	15,986	.....	.....	66,000	.....	1,736	18,501	1,429	.....	.....	.....	31
.....	10,480	.....	.....	25,005	.....	4,877	.....	1,247	.....	.....	.....	32
.....	67.9	.....	.....	4.6	.....	(1)	73.5	-10.7	.....	.....	.....	33
4	12,539	41	47	7,857	125	18,545	19,888	515	23	8	114	34
.....	2,292	.....	.....	558	.....	3	4,606	328	.....	.....	.....	35
0.1	9.9	0.1	(5)	50.0	4.3	21.5	45.1	1.7	1.7	(5)	(5)	36
.....	51.7	.....	.....	83.4	.....	35.4	64.0	18.6	.....	.....	.....	37
85.7	53.3	12.8	68.0	88.6	70.0	68.0	38.0	59.6	61.0	85.7	41.5	38
.....	85.7	.....	.....	99.2	.....	99.8	75.1	77.0	.....	.....	.....	39
2,554	936,095	800	5,495	2,847,764	12,860	647,541	374,955	78,600	2,817	7,200	30,750	40
2,554	935,715	800	5,295	2,847,764	12,850	647,541	374,570	78,600	2,800	7,200	30,750	41
.....	380	.....	200	.....	10	.....	385	.....	17	.....	.....	42
.....	1,130,625	.....	.....	6,238,245	.....	104,300	241,000	158,880	.....	.....	.....	43
.....	578,670	.....	.....	3,670,550	.....	154,100	.....	147,800	.....	.....	.....	44
.....	-17.2	.....	.....	-54.3	.....	520.8	55.6	50.5	.....	.....	.....	45
91.21	34.87	17.02	37.38	41.27	30.91	11.18	11.68	61.60	47.75	128.57	157.69	46
.....	70.73	.....	.....	94.52	.....	60.08	13.03	111.18	.....	.....	.....	47
.....	55.22	.....	.....	146.79	.....	31.60	.....	118.52	.....	.....	.....	48
106.42	65.44	133.33	54.95	46.57	44.19	16.45	30.71	103.29	78.25	150.00	379.63	49
2.554	938,050	1,100	5,495	2,947,764	12,960	648,191	378,373	78,600	3,617	7,900	31,100	50
.....	1,277,125	.....	.....	6,566,245	.....	104,300	291,000	158,880	.....	.....	.....	51
.....	611,720	.....	.....	5,310,550	.....	154,100	.....	149,300	.....	.....	.....	52
.....	-26.5	.....	.....	-55.1	.....	521.5	30.0	-50.5	.....	.....	.....	53
91.21	34.32	23.40	37.38	39.46	29.72	11.03	10.78	61.60	39.75	129.51	154.73	54
.....	68.61	.....	.....	98.00	.....	60.08	8.46	64.43	.....	.....	.....	55
.....	30.91	.....	.....	91.55	.....	27.59	.....	44.32	.....	.....	.....	56
	Primary Enterprises	Sup.					Primary Enterprises	Sup.				
21	188	1	3	8	[6] 1	8	197	12	.....	24	3	10	5	57
24	13,023	(3)	6	96	61,153	291	35,127	12,209	.....	568	36	33	77	58
209	39,819	(3)	105	285	146,140	575	99,642	83,645	.....	2,658	95	281	1,092	59
8.71	3.06	(3)	17.50	2.97	2.39	1.98	2.84	6.85	.....	4.68	2.64	8.52	14.18	60
.....	10.15	.....	.....	.....	2.44	.....	2.57	5.09	.....	6.47	.....	.....	.....	61
.....	2,287	5,340	.....	.....	146,219	.....	.....	100,670	.....	.....	.....	.....	.....	62
.....	5.88	3.90	.....	.....	2.39	.....	.....	9.96	.....	.....	.....	.....	.....	63
.....	959	6,000	.....	.....	69,298	.....	.....	10,107	.....	.....	.....	.....	.....	64
.....	2.38	0.89	.....	.....	2.11	.....	.....	9.96	.....	.....	.....	.....	.....	65
.....	304	5,324	.....	.....	256,955	.....	.....	56,752	100	.....	.....	.....	.....	66
.....	.....	57,600	.....	.....	1,819,000	.....	.....	124,067	23,331	.....	.....	.....	.....	67
21	204	1	3	9	[6] 1	8	215	12	.....	30	3	12	7	68
24	14,284	(3)	6	100	61,153	291	38,289	12,209	.....	734	36	48	81	69
34	20,296	(3)	5	76	181,233	441	44,939	63,475	.....	947	32	108	422	70
1.4	1.4	(3)	0.8	0.8	3.0	1.5	1.2	5.2	.....	1.3	0.9	2.2	5.2	71
8.71	3.03	(3)	17.50	2.97	2.39	1.98	2.83	9.16	.....	4.68	2.64	8.52	14.18	72
.....	.....	.....	.....	.....	[6] 1	5	.....	1	.....	.....	1	.....	.....	73
.....	.....	.....	.....	.....	74,708	240	.....	(3)	.....	.....	(3)	.....	.....	74
.....	.....	.....	.....	.....	61,153	156	.....	(3)	.....	.....	(3)	.....	.....	75
.....	.....	.....	.....	.....	69,010	220	.....	(3)	.....	.....	(3)	.....	.....	76
.....	.....	.....	.....	.....	500	20	.....	.....	.....	.....	.....	.....	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Less than one-tenth of 1 percent.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.
[7] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[8] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Gray	Guadalupe	Hale	Hansford	Harris	Haskell
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number	633	2,757	1,628	335	6,949	1,939
2	1930...number	701	3,820	1,729	430	4,131	2,380
3	Irrigated farms....1940...number	9	8	1,116	4	180	16
4	1930...number	.....	1	59	1	32	9
5	Increase or decrease (-), 1930-1940....percent	.....	700.0	(1)	300.0	462.5	77.8
	Operated by—						
6	(a) Owners and managers....1940...number	5	8	621	4	130	13
7	1930...number	.....	.....	18	.....	22	.....
8	(b) Tenants....1940...number	4	.....	495	.....	50	3
9	1930...number	.....	.....	41	.....	10	.....
10	Land in all farms....1940...acres	548,955	357,056	609,221	503,430	621,994	547,936
11	Land in irrigated farms....1940...acres	14,050	2,308	438,486	7,787	35,215	2,711
12	Average per farm....1940...acres	1,561	288	393	1,947	196	169
13	(a) Operated by owners and managers....1940...acres	10,505	2,308	277,067	7,787	27,423	2,045
14	Average per farm....1940...acres	2,101	288	446	1,947	211	157
15	(b) Operated by tenants....1940...acres	3,545	.....	161,419	.....	7,792	666
16	Average per farm....1940...acres	886	.....	326	.....	156	222
17	Approximate land area....1940...acres	599,680	457,600	626,560	580,480	1,118,080	568,320
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres	28	224	46,212	103	7,487	139
19	(a) Cropland harvested....1939...acres	28	204	44,586	103	7,016	90
20	(b) Crop failure....1939...acres	.....	.....	298	.....	1	.....
21	(c) Pasture....1939...acres	.....	20	1,328	.....	470	49
22	Area irrigated....1929...acres	.....	.....	3,687	.....	4,421	.....
23	1919...acres	.....	.....	3,335	.....	8,000	.....
24	Increase or decrease (-), 1929-1939....percent	.....	.....	(1)	.....	69.4	.....
25	Irrigable area in enterprises....1940...acres	33	235	71,906	363	15,116	250
26	1930...acres	.....	.....	7,322	.....	7,560	.....
27	1920[4]...acres	.....	.....	10,162	.....	16,000	.....
28	Excess of irrigable area over the area irrigated...1940...acres	5	11	25,694	260	7,629	111
29	1930...acres	.....	.....	3,635	.....	3,139	.....
30	Area works were capable of supplying with water...1940...acres	33	235	71,182	327	11,706	200
31	1930...acres	.....	.....	6,344	.....	5,044	.....
32	1920...acres	.....	.....	8,728	.....	11,000	.....
33	Increase or decrease (-), 1930-1940....percent	.....	.....	(1)	.....	132.1	.....
34	Excess, capability of works over area irrigated...1940...acres	5	11	24,970	224	4,219	61
35	1930...acres	.....	.....	2,657	.....	623	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	0.2	9.7	10.5	1.3	21.3	5.1
37	1929...percent	.....	.....	19.4	.....	44.5	.....
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	84.8	95.3	64.9	31.5	64.0	69.5
39	1929...percent	.....	.....	58.1	.....	87.6	.....
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars	2,900	4,650	855,953	7,150	276,425	5,736
41	(a) Cost of irrigation works and equipment....1940...dollars	2,900	4,650	855,953	7,150	276,425	5,736
42	(b) Investment in water rights (reported)....1940...dollars	.....	.....	.....	.....	.....	.....
43	Total investment in all enterprises....1930...dollars	.....	.....	317,260	.....	170,920	.....
44	1920...dollars	.....	.....	280,630	.....	150,000	.....
45	Increase or decrease (-), 1930-1940....percent	.....	.....	169.8	.....	61.7	.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	87.88	19.79	12.02	.....	23.61	.....
47	1930...dollars	.....	.....	50.01	.....	33.89	.....
48	1920...dollars	.....	.....	32.15	.....	13.64	.....
49	Average investment per acre irrigated....1939...dollars	103.57	20.76	18.52	.....	36.92	19.68
50	Estimated final investment in existing enterprises...1940...dollars	2,900	5,150	859,320	7,150	283,425	7,036
51	1930...dollars	.....	.....	321,910	.....	175,920	.....
52	1920...dollars	.....	.....	280,630	.....	150,000	.....
53	Increase or decrease (-), 1930-1940....percent	.....	.....	166.9	.....	61.1	.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	87.88	21.91	11.95	19.70	18.75	28.14
55	1930...dollars	.....	.....	43.96	.....	23.27	.....
56	1920[4]...dollars	.....	.....	27.62	.....	9.38	.....
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
57	Enterprises reporting maintenance and operation...1939...number	3	3	269	3	28	3
58	Area irrigated in these enterprises....1939...acres	28	224	41,681	100	7,471	139
59	Cost of maintenance and operation....1939...dollars	110	740	118,246	750	41,499	700
60	Average cost, per acre irrigated....1939...dollars	3.93	3.30	2.84	7.50	5.55	5.04
61	1929...dollars	.....	.....	3.09	.....	6.13	.....
62	Total annual charges (reported)[7] [8]....1939...dollars	.....	.....	.....	.....	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	.....	.....	.....	.....	.....	.....
64	Area against which charges were assessed....1939...acres	.....	.....	.....	.....	.....	.....
65	Average annual charge per acre assessed....1939...dollars	.....	.....	.....	.....	.....	.....
66	Total charges collected[7]....1939...dollars	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[8]....1939...dollars	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number	3	3	315	5	29	2
69	Area irrigated in these enterprises....1939...acres	28	224	46,166	103	7,487	(3)
70	Water delivered in these enterprises....1939...acre-feet	86	502	57,902	232	18,116	(3)
71	Average water delivered per acre irrigated....1939...acre-feet	3.1	2.2	1.3	2.3	2.4	(3)
72	Average cost of water per acre irrigated....1939...dollars	3.93	3.30	2.83	7.50	5.55	(3)
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number	.....	1	.....	.....	2	.....
74	Irrigable area in these enterprises....1939...acres	.....	(3)	.....	.....	(3)	.....
75	Irrigated area in these enterprises....1939...acres	.....	(3)	.....	.....	(3)	.....
76	Area for which drains have been installed....1939...acres	.....	(3)	.....	.....	(3)	.....
77	Additional area needing drainage....1939...acres	.....	.....	.....	.....	.....	.....

*Census of Agriculture.

[1]Percent not shown when more than 1,000.

[2]The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[3]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

	Hays	Hemphill	Hidalgo		Hockley	Howard	Hudspeth		Hutchinson	Irion	Jackson	Jeff Davis	Jefferson	Jim Wells	
1	1,233	349	5,094		1,506	802	140		183	149	1,258	104	2,387	1,234	1
2	1,467	414	4,321		1,344	1,194	194		161	160	1,642	99	1,012	1,302	2
3	7	6	4,094		167	16	85		16	47	13	42	213	20	3
4	3	.....	3,150		.....	.....	115		.....	37	12	23	112	31	4
5	133.3	.....	30.0		.....	.....	-26.1		.....	27.0	8.3	82.6	90.2	-35.5	5
6	6	5	2,954		69	13	57		10	30	6	32	70	16	6
7	.....	.....	2,039		.....	.....	45		.....	24	5	19	40	.....	7
8	1	1	1,140		98	3	28		6	17	7	10	143	4	8
9	.....	.....	1,111		.....	.....	70		.....	13	7	4	72	.....	9
10	398,530	529,786	667,225		499,577	492,099	1,889,117		392,052	[2] 825,695	430,117	[2] 1,624,366	317,684	494,522	10
11	1,039	6,961	239,980		43,700	5,376	803,646		18,212	31,582	50,495	821,268	233,884	4,949	11
12	148	1,160	59		262	336	9,455		1,138	672	3,884	19,554	1,098	247	12
13	(3)	(3)	167,006		21,795	3,776	787,116		12,192	25,427	9,095	791,472	182,501	4,773	13
14	(3)	(3)	57		316	290	13,809		1,219	848	1,516	24,734	2,607	298	14
15	(3)	(3)	72,974		21,905	1,600	16,530		6,020	6,155	41,400	29,796	51,383	176	15
16	(3)	(3)	64		224	533	590		1,003	362	5,914	2,980	359	44	16
17	428,800	581,760	986,240		577,920	583,680	2,901,120		565,760	688,720	546,560	1,445,120	604,800	541,440	17
18	9	46	198,141		2,475	12	13,734		7	2,346	3,017	1,158	41,511	400	18
19	9	46	173,766		2,361	12	13,560		4	2,172	3,017	616	41,511	322	19
20	.....	.....	200		90	.....	1		.....	3	.....	.....	.....	78	20
21	.....	.....	24,175		24	.....	173		3	171	.....	542	.....	.....	21
22	.....	.....	229,806		.....	.....	14,010		.....	1,798	2,650	385	37,062	.....	22
23	.....	.....	160,532		.....	.....	.....		.....	2,133	6,074	1,210	74,002	.....	23
24	.....	.....	-13.8		.....	.....	-2.0		.....	30.5	13.8	200.8	12.0	.....	24
25	37	69	311,706		4,621	51	23,716		21	4,807	5,069	1,311	128,330	614	25
26	.....	.....	307,671		.....	.....	18,290		.....	1,928	3,989	385	146,815	.....	26
27	.....	.....	424,538		.....	.....	.....		.....	2,417	8,584	2,034	174,000	.....	27
28	28	23	113,565		2,146	39	9,982		14	2,461	2,052	153	86,819	214	28
29	.....	.....	77,865		.....	.....	4,280		.....	130	1,339	.....	109,753	.....	29
30	37	59	294,488		4,601	18	23,080		21	4,807	4,069	1,311	57,885	611	30
31	.....	.....	284,407		.....	.....	14,590		.....	1,908	3,180	385	80,315	.....	31
32	.....	.....	388,538		.....	.....	.....		.....	2,062	6,749	1,351	97,100	.....	32
33	.....	.....	3.5		.....	.....	58.2		.....	151.9	28.0	240.5	-27.9	.....	33
34	28	13	96,347		2,126	6	9,346		14	2,461	1,052	153	16,374	211	34
35	.....	.....	54,601		.....	.....	580		.....	110	530	.....	43,253	.....	35
36	0.9	0.7	82.6		5.7	0.2	1.7		(5)	7.4	6.0	0.1	17.7	8.1	36
37	.....	.....	130.6		.....	.....	59.6		.....	4.1	34.3	1.3	60.9	.....	37
38	24.3	78.0	67.3		53.8	66.7	59.5		33.3	48.8	74.1	88.3	139.4	65.5	38
39	.....	.....	80.8		.....	.....	96.0		.....	94.2	83.3	100.0	46.1	.....	39
40	1,950	9,300	17,098,240		80,513	2,250	1,359,375		2,285	18,563	89,205	32,105	2,133,163	37,920	40
41	1,950	9,300	16,939,993		80,457	2,250	1,359,375		2,285	18,385	88,350	31,655	2,133,127	37,920	41
42	.....	.....	158,247		56	.....	.....		.....	178	855	450	36	.....	42
43	.....	.....	12,789,728		.....	.....	314,951		.....	36,190	39,750	15,262	2,922,744	.....	43
44	.....	.....	8,024,550		.....	.....	.....		.....	53,400	236,189	59,098	1,785,400	.....	44
45	.....	.....	33.7		.....	.....	331.6		.....	-48.7	124.4	110.4	-27.0	.....	45
46	.....	.....	58.06		.....	.....	58.90		.....	3.86	21.92	24.49	36.85	62.06	46
47	.....	.....	44.97		.....	.....	21.59		.....	18.97	12.50	39.64	36.39	.....	47
48	.....	.....	20.65		.....	.....	.....		.....	25.90	35.00	43.74	18.39	.....	48
49	216.67	202.17	86.29		32.53	187.50	98.98		326.43	7.91	29.57	27.72	51.39	94.80	49
50	1,950	9,300	17,196,345		80,663	2,250	1,359,375		2,285	18,563	89,205	32,155	2,133,663	37,920	50
51	.....	.....	18,029,728		.....	.....	314,951		.....	41,190	39,750	15,262	2,947,744	.....	51
52	.....	.....	9,349,550		.....	.....	.....		.....	53,600	236,189	59,098	1,815,400	.....	52
53	.....	.....	-4.6		.....	.....	331.6		.....	-54.9	124.4	110.7	-27.6	.....	53
54	52.70	134.78	55.17		17.46	44.12	57.32		108.81	3.86	17.59	24.53	16.63	61.76	54
55	.....	.....	58.60		.....	.....	17.22		.....	21.36	9.96	39.64	20.08	.....	55
56	.....	.....	22.02		.....	.....	.....		.....	22.18	27.52	29.06	10.43	.....	56
			Primary Enterprises	Sup.			Primary Enterprises	Sup.							
57	.....	5	62	4	28	4	20	[6] 1	.....	16	9	23	30	24	57
58	.....	44	197,725	443	2,242	12	13,179	12,681	.....	2,186	2,892	1,009	41,511	383	58
59	.....	120	751,336	825	6,438	191	26,680	13,927	.....	3,265	14,400	1,340	192,849	1,527	59
60	.....	2.73	3.80	1.86	2.87	15.92	2.02	1.10	.....	1.49	4.98	1.33	4.65	3.99	60
61	.....	.....	4.36	.....	.....	.....	4.60	.....	.....	9.04	7.53	4.97	5.18	.....	61
62	.....	.....	901,688	.....	.....	.....	29,750	13,927	.....	282	.....	45	248,969	.....	62
63	.....	.....	4.69	.....	.....	.....	2.39	1.10	.....	0.44	.....	0.45	7.72	.....	63
64	.....	.....	301,477	.....	.....	.....	17,000	12,681	.....	648	.....	100	32,269	.....	64
65	.....	.....	2.99	.....	.....	.....	1.75	1.10	.....	0.44	.....	0.45	7.72	.....	65
66	.....	.....	1,053,206	.....	.....	.....	38,893	20,746	.....	275	.....	.....	223,481	.....	66
67	.....	.....	13,040,129	.....	.....	.....	249,449	.....	.....	12	.....	.....	1,193,789	.....	67
68	.....	5	54	4	31	2	18	[6] 1	4	14	10	20	30	26	68
69	.....	16	197,686	443	2,475	(3)	757	12,681	7	1,513	3,017	792	41,511	400	69
70	.....	22	270,667	635	2,228	(3)	2,250	11,381	11	2,635	10,074	605	174,096	350	70
71	.....	1.4	1.4	1.4	0.9	(3)	3.0	0.9	1.6	1.7	3.3	0.8	4.2	0.9	71
72	.....	5.00	4.61	1.86	2.87	(3)	3.07	1.10	.....	1.87	4.98	1.48	6.34	3.99	72
73	1	.....	9	.....	.....	.....	1	.....	.....	.....	.....	1	1	.....	73
74	(3)	.....	242,884	.....	.....	.....	(3)	.....	.....	.....	.....	(3)	(3)	.....	74
75	(3)	.....	163,660	.....	.....	.....	(3)	.....	.....	.....	.....	(3)	(3)	.....	75
76	(3)	.....	195,468	.....	.....	.....	(3)	.....	.....	.....	.....	.....	(3)	.....	76
77	.....	.....	18,001	.....	.....	.....	(3)	.....	.....	.....	.....	(3)	.....	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Less than one-tenth of 1 percent.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.
[7] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[8] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Kendall	Kerr	Kimble	Kinney	Lamb	La Salle
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]						
1	All farms.....1940...number.....	739	729	443	127	2,167	453
2	1930...number.....	691	691	454	133	2,381	627
3	Irrigated farms.....1940...number.....	119	113	81	15	500	53
4	1930...number.....	1	53	21	5	6	36
5	Increase or decrease (-), 1930-1940.....percent....	(1)	113.2	285.7	200.0	(1)	47.2
	Operated by—						
6	(a) Owners and managers.....1940...number.....	99	91	58	12	321	36
7	1930...number.....	.....	38	.....	.....	.....	29
8	(b) Tenants.....1940...number.....	20	22	23	3	179	17
9	1930...number.....	.....	15	.....	.....	.....	7
10	Land in all farms.....1940...acres.....	370,821	[2]780,973	666,366	700,094	618,240	706,591
11	Land in irrigated farms.....1940...acres.....	68,600	143,534	69,783	89,615	210,070	111,360
12	Average per farm.....1940...acres.....	576	1,270	862	5,974	420	2,101
13	(a) Operated by owners and managers.....1940...acres.....	56,384	136,032	54,190	87,953	170,139	108,798
14	Average per farm.....1940...acres.....	570	1,495	934	7,329	530	3,022
15	(b) Operated by tenants.....1940...acres.....	12,216	7,502	15,593	1,662	39,931	2,562
16	Average per farm.....1940...acres.....	611	341	678	554	223	151
17	Approximate land area.....1940...acres.....	428,800	704,640	815,360	890,240	654,080	960,640
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	109	588	342	1,310	16,497	3,094
19	(a) Cropland harvested.....1939...acres.....	102	552	342	817	15,899	2,534
20	(b) Crop failure.....1939...acres.....	7	34	.....	.....	31	58
21	(c) Pasture.....1939...acres.....	.....	2	.....	493	567	502
22	Area irrigated.....1929...acres.....	.....	338	.....	.....	.....	2,419
23	1919...acres.....	.....	.....	.....	.....	.....	2,531
24	Increase or decrease (-), 1929-1939.....percent....	.....	74.0	.....	.....	.....	28.0
25	Irrigable area in enterprises.....1940...acres.....	184	876	588	1,318	26,603	4,819
26	1930...acres.....	.....	727	.....	.....	.....	3,215
27	1920[4]...acres.....	.....	.....	.....	.....	.....	6,574
28	Excess of irrigable area over the area irrigated..1940...acres.....	75	288	246	8	10,106	1,725
29	1930...acres.....	.....	389	.....	.....	.....	796
30	Area works were capable of supplying with water...1940...acres.....	179	876	584	1,318	26,128	4,794
31	1930...acres.....	.....	558	.....	.....	.....	2,812
32	1920...acres.....	.....	.....	.....	.....	.....	5,292
33	Increase or decrease (-), 1930-1940.....percent....	.....	57.0	.....	.....	.....	70.5
34	Excess, capability of works over area irrigated...1940...acres.....	70	288	242	8	9,631	1,700
35	1930...acres.....	.....	220	.....	.....	.....	393
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	0.2	0.4	0.5	1.5	7.9	2.8
37	1929...percent....	.....	2.0	.....	.....	.....	14.2
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	60.9	67.1	58.6	99.4	63.1	64.5
39	1929...percent....	.....	60.6	.....	.....	.....	86.0
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	13,727	45,888	19,573	3,471	339,346	171,541
41	(a) Cost of irrigation works and equipment.....1940...dollars....	13,432	45,452	19,568	3,471	337,948	171,181
42	(b) Investment in water rights (reported).....1940...dollars....	295	436	5	.....	1,398	360
43	Total investment in all enterprises.....1930...dollars....	.....	38,872	.....	.....	.....	351,322
44	1920...dollars....	.....	.....	.....	.....	.....	155,450
45	Increase or decrease (-), 1930-1940.....percent....	.....	18.0	.....	.....	.....	-51.2
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	76.69	52.38	33.52	2.63	12.99	35.78
47	1930...dollars....	.....	69.66	.....	.....	.....	124.94
48	1920...dollars....	.....	.....	.....	.....	.....	29.37
49	Average investment per acre irrigated.....1939...dollars....	125.94	78.04	57.23	2.65	20.57	55.44
50	Estimated final investment in existing enterprises..1940...dollars....	14,072	45,958	20,073	3,471	343,070	171,541
51	1930...dollars....	.....	38,872	.....	.....	.....	351,322
52	1920...dollars....	.....	.....	.....	.....	.....	155,450
53	Increase or decrease (-), 1930-1940.....percent....	.....	18.2	.....	.....	.....	-51.2
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	76.48	52.46	34.14	2.63	12.90	35.60
55	1930...dollars....	.....	53.47	.....	.....	.....	109.28
56	1920[4]...dollars....	.....	.....	.....	.....	.....	23.65
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
57	Enterprises reporting maintenance and operation...1939...number.....	30	38	25	13	141	50
58	Area irrigated in these enterprises.....1939...acres.....	94	508	340	1,310	16,303	3,081
59	Cost of maintenance and operation.....1939...dollars....	663	3,015	1,179	289	53,955	7,681
60	Average cost, per acre irrigated.....1939...dollars....	7.05	5.94	3.47	0.22	3.31	2.49
61	1929...dollars....	.....	17.52	.....	.....	.....	31.83
62	Total annual charges (reported)[6 7].....1939...dollars....	.....	.....	.....	.....	.....	100
63	Average annual charge per acre irrigated.....1939...dollars....	.....	.....	.....	.....	.....	0.22
64	Area against which charges were assessed.....1939...acres.....	.....	.....	.....	.....	.....	1,000
65	Average annual charge per acre assessed.....1939...dollars....	.....	.....	.....	.....	.....	0.10
66	Total charges collected[6].....1939...dollars....	.....	.....	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[7].....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	34	48	27	12	143	50
69	Area irrigated in these enterprises.....1939...acres.....	109	588	342	1,310	16,497	2,646
70	Water delivered in these enterprises.....1939...acre-feet..	187	945	651	769	18,377	4,425
71	Average water delivered per acre irrigated.....1939...acre-feet..	1.7	1.6	1.9	0.6	1.1	1.7
72	Average cost of water per acre irrigated.....1939...dollars....	7.05	5.94	3.47	0.22	3.31	2.80
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	.....	.....	.....	.....	.....	.....
74	Irrigable area in these enterprises.....1939...acres.....	.....	.....	.....	.....	.....	.....
75	Irrigated area in these enterprises.....1939...acres.....	.....	.....	.....	.....	.....	.....
76	Area for which drains have been installed.....1939...acres.....	.....	.....	.....	.....	.....	.....
77	Additional area needing drainage.....1939...acres.....	.....	.....	.....	.....	.....	.....

[a] Census of Agriculture.

[1] Percent not shown when more than 1,000.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Liberty	Llano	Lubbock	Lynn	McCulloch	McLennan	Martin	Mason	Matagorda	Maverick	Medina	Menard	Midland	
1,961	666	2,119	1,471	1,098	4,445	779	714	1,614	272	1,719	380	386	1
1,535	720	2,495	2,138	1,519	6,641	776	906	1,673	52	1,590	401	361	2
62	180	616	107	4	22	32	87	84	206	357	57	57	3
31	3	8	.....	23	30	.....	.....	26	19	67	42	1	4
100.0	(1)	(1)	.....	-82.6	-26.7	.....	.....	223.1	984.2	432.8	35.7	(1)	5
36	142	354	47	3	18	22	70	51	157	235	42	35	6
12	.....	.....	.....	.....	.....	.....	.....	11	13	38	27	.....	7
26	38	262	60	1	4	10	17	33	49	122	15	22	8
19	.....	.....	.....	.....	.....	.....	.....	15	6	29	15	.....	9
249,323	527,097	509,000	506,580	615,076	565,672	406,696	[2]600,682	524,680	421,664	774,163	[2]709,791	596,154	10
35,940	163,291	169,751	40,628	2,412	2,466	14,508	77,685	77,995	80,661	61,236	171,772	191,688	11
580	907	276	380	603	112	453	893	929	392	172	3,014	3,363	12
29,162	140,081	101,814	25,269	(3)	1,562	10,339	69,159	56,150	76,401	50,602	164,144	136,761	13
810	986	288	538	(3)	87	470	988	1,101	487	215	3,908	3,907	14
6,778	23,210	67,937	15,359	(3)	904	4,169	8,526	21,845	4,260	10,634	7,628	54,927	15
261	611	259	256	(3)	226	417	502	662	87	87	509	2,497	16
750,720	606,080	570,880	585,600	682,240	662,400	583,040	598,400	730,240	818,560	865,920	584,960	600,320	17
18,833	133	15,325	326	17	232	53	30	31,992	15,260	14,231	3,006	92	18
18,758	87	14,386	268	11	232	53	23	31,842	14,780	12,092	2,606	91	19
75	.....	57	.....	5	.....	.....	1	.....	.....	340	.....	1	20
.....	46	882	58	1	.....	.....	6	150	480	1,799	400	.....	21
15,000	.....	.....	.....	.....	.....	.....	.....	12,884	1,982	4,600	3,481	.....	22
13,500	.....	.....	.....	.....	.....	.....	.....	33,510	2,653	.....	5,003	.....	23
25.6	.....	.....	.....	.....	.....	.....	.....	148.3	669.9	209.4	-13.6	.....	24
78,700	182	24,730	354	25	325	63	34	47,027	45,800	19,354	3,083	153	25
35,000	.....	.....	.....	.....	.....	.....	.....	55,960	4,037	4,600	3,866	.....	26
24,000	.....	.....	.....	.....	.....	.....	.....	164,875	6,513	.....	7,120	.....	27
59,867	49	9,405	28	8	93	10	4	15,035	30,540	5,123	77	61	28
20,000	.....	.....	.....	.....	.....	.....	.....	43,076	2,055	.....	385	.....	29
33,700	181	24,051	354	25	300	53	34	36,027	24,360	19,341	3,083	148	30
34,000	.....	.....	.....	.....	.....	.....	.....	55,960	3,135	4,600	3,744	.....	31
14,000	.....	.....	.....	.....	.....	.....	.....	66,200	3,913	.....	6,564	.....	32
-0.9	.....	.....	.....	.....	.....	.....	.....	-35.6	677.0	320.5	-17.7	.....	33
14,867	48	8,726	28	8	68	.....	4	4,035	9,100	5,110	77	56	34
19,000	.....	.....	.....	.....	.....	.....	.....	43,076	1,153	.....	263	.....	35
52.4	0.1	9.0	0.8	0.7	9.4	0.4	(5)	41.0	18.9	23.2	1.7	(5)	36
49.3	.....	.....	.....	.....	.....	.....	.....	50.5	14.1	67.2	7.7	.....	37
55.9	73.5	63.7	92.1	68	77.3	100.0	88.2	88.8	62.6	73.6	97.5	62.2	38
44.1	.....	.....	.....	.....	.....	.....	.....	23.0	63.2	100.0	93.0	.....	39
488,370	29,175	421,457	9,728	3,500	9,877	2,050	4,140	896,091	4,625,116	2,698,804	31,650	12,163	40
486,718	29,175	416,777	9,728	3,500	9,827	2,050	4,140	849,267	4,625,116	2,698,804	31,650	12,163	41
1,652	.....	4,680	.....	.....	50	.....	.....	46,824	.....	.....	.....	.....	42
405,208	.....	.....	.....	.....	.....	.....	.....	332,918	63,710	2,380,000	38,465	.....	43
732,779	.....	.....	.....	.....	.....	.....	.....	1,323,342	68,078	.....	106,273	.....	44
20.5	.....	.....	.....	.....	.....	.....	.....	169.2	(1)	13.4	-17.7	.....	45
14.49	161.19	17.52	27.48	140.00	32.92	38.68	121.76	24.87	189.87	139.54	10.27	82.18	46
11.92	.....	.....	.....	.....	.....	.....	.....	5.95	20.32	517.39	10.27	.....	47
52.34	.....	.....	.....	.....	.....	.....	.....	19.99	17.40	.....	16.19	.....	48
25.93	219.36	27.50	29.84	205.88	42.57	38.68	138.00	28.01	303.09	189.64	10.53	132.21	49
493,370	30,625	427,727	9,728	3,500	9,927	2,050	4,740	896,091	4,685,042	2,699,154	31,650	12,713	50
455,208	.....	.....	.....	.....	.....	.....	.....	332,918	63,710	2,380,000	42,025	.....	51
732,779	.....	.....	.....	.....	.....	.....	.....	1,323,942	68,078	.....	108,273	.....	52
8.4	.....	.....	.....	.....	.....	.....	.....	169.2	(1)	13.4	-24.7	.....	53
6.27	168.27	17.30	27.48	140.00	30.54	32.54	139.41	19.05	102.29	139.46	10.27	.....	54
13.01	.....	.....	.....	.....	.....	.....	.....	5.95	15.78	517.39	10.87	.....	55
30.53	.....	.....	.....	.....	.....	.....	.....	8.03	10.45	.....	15.21	.....	56
									Primary Enterprises	Sup.			
4	31	136	25	2	12	3	6	5	4	1	8	19	21	57
18,716	104	12,757	326	(3)	212	49	19	31,592	15,210	(3)	14,230	2,970	90	58
127,846	1,050	35,439	630	(3)	1,771	476	110	254,110	42,878	(3)	31,319	1,742	714	59
6.83	10.10	2.78	1.93	(3)	8.35	9.71	5.79	8.04	2.82	(3)	2.20	0.59	7.93	60
7.88	.....	.....	.....	.....	.....	.....	.....	7.66	4.11	.....	4.32	1.04	.....	61
175,747	.....	.....	.....	.....	.....	.....	.....	280,571	129,580	.....	51,544	678	.....	62
9.39	.....	.....	.....	.....	.....	.....	.....	9.00	8.85	.....	3.65	0.31	.....	63
18,716	.....	.....	.....	.....	.....	.....	.....	31,179	23,560	.....	20,784	2,200	.....	64
9.39	.....	.....	.....	.....	.....	.....	.....	9.00	5.50	.....	2.48	0.31	.....	65
115,451	.....	.....	.....	.....	.....	.....	.....	270,574	44,755	.....	37,482	680	.....	66
107,721	.....	.....	.....	.....	.....	.....	.....	643,524	3,957,000	.....	462,527	1,250	.....	67
5	39	160	25	2	13	5	11	6	4	1	9	19	22	68
18,816	133	15,325	326	(3)	232	53	30	31,992	15,260	(3)	14,231	1,406	77	69
73,998	118	16,034	320	(3)	597	131	32	224,449	25,010	(3)	24,241	3,796	68	70
3.9	0.9	1.0	1.0	(3)	2.6	2.5	1.1	7.0	1.6	(3)	1.7	2.7	0.9	71
9.39	10.10	2.78	1.93	(3)	8.35	9.71	5.79	8.91	8.55	(3)	3.69	0.92	5.52	72
2	.....	1	.....	.....	4	.....	.....	1	1	.....	.....	.....	.....	73
(3)	.....	(3)	.....	.....	140	.....	.....	(3)	(3)	.....	.....	.....	.....	74
(3)	.....	(3)	.....	.....	85	.....	.....	(3)	(3)	.....	.....	.....	.....	75
(3)	.....	(3)	.....	.....	75	.....	.....	(3)	(3)	.....	.....	.....	.....	76
(3)	.....	.....	.....	.....	35	.....	.....	.....	(3)	.....	.....	.....	.....	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Less than one-tenth of 1 percent.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Mills	Moore	Oldham	Orange	Parmer	Pecos	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[6]							
1	All farms...1940...number	1,364	178	177	1,141	915	326	
2	1930...number	1,484	174	137	389	818	385	
3	Irrigated farms...1940...number	25	19	5	67	116	160	
4	1930...number	15	.....	1	1	.....	212	
5	Increase or decrease (-), 1930-1940...percent	66.7	.....	400.0	(1)	.....	-24.5	
	Operated by—							
6	(a) Owners and managers...1940...number	20	10	4	34	70	93	
7	1930...number	10	.....	.....	.....	.....	88	
8	(b) Tenants...1940...number	5	9	1	33	46	67	
9	1930...number	5	.....	.....	.....	.....	121	
10	Land in all farms...1940...acres	447,643	309,491	[2] 1,189,735	57,221	500,708	2,319,150	
11	Land in irrigated farms...1940...acres	15,450	41,690	12,917	18,688	56,903	87,610	
12	Average per farm...1940...acres	618	2,194	2,583	279	491	548	
13	(a) Operated by owners and managers...1940...acres	9,788	23,003	(3)	10,350	39,116	80,413	
14	Average per farm...1940...acres	489	2,300	(3)	304	559	865	
15	(b) Operated by tenants...1940...acres	5,662	18,687	(3)	8,338	17,787	7,197	
16	Average per farm...1940...acres	1,132	2,076	(3)	253	387	107	
17	Approximate land area...1940...acres	469,760	583,680	938,240	227,840	549,760	3,031,040	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated...1939...acres	140	22	37	10,611	827	23,346	
19	(a) Cropland harvested...1939...acres	140	22	20	10,611	817	16,661	
20	(b) Crop failure...1939...acres	.....	.....	17	.....	.....	605	
21	(c) Pasture...1939...acres	.....	.....	.....	.....	10	6,080	
22	Area irrigated...1929...acres	371	.....	.....	.....	.....	16,166	
23	1919...acres	.....	.....	.....	.....	.....	22,312	
24	Increase or decrease (-), 1929-1939...percent	-62.3	.....	.....	.....	.....	44.4	
25	Irrigable area in enterprises...1940...acres	218	57	52	18,117	2,024	60,608	
26	1930...acres	458	.....	.....	.....	.....	44,930	
27	1920[4]...acres	.....	.....	.....	.....	.....	68,653	
28	Excess of irrigable area over the area irrigated...1940...acres	78	35	15	7,506	1,197	37,262	
29	1930...acres	87	.....	.....	.....	.....	28,764	
30	Area works were capable of supplying with water...1940...acres	215	54	52	18,117	2,024	41,608	
31	1930...acres	458	.....	.....	.....	.....	29,688	
32	1920...acres	.....	.....	.....	.....	.....	60,453	
33	Increase or decrease (-), 1930-1940...percent	-53.1	.....	.....	.....	.....	40.2	
34	Excess, capability of works over area irrigated...1940...acres	75	32	15	7,506	1,197	18,262	
35	1930...acres	87	.....	.....	.....	.....	13,522	
36	Proportion which area irrigated is of all lands in irrigated farms...1939...percent	0.9	0.1	0.3	56.8	1.5	26.6	
37	1929...percent	6.3	.....	.....	.....	.....	24.9	
38	Proportion which area irrigated is of area works were capable of supplying with water...1939...percent	65.1	40.7	71.2	58.6	40.9	56.1	
39	1929...percent	81.0	.....	.....	.....	.....	54.5	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises...1940...dollars	3,775	9,420	1,550	631,122	28,893	1,228,577	
41	(a) Cost of irrigation works and equipment...1940...dollars	3,775	9,360	1,550	588,836	28,893	1,220,329	
42	(b) Investment in water rights (reported)...1940...dollars	.....	60	.....	42,286	.....	8,248	
43	Total investment in all enterprises...1930...dollars	13,912	.....	.....	.....	.....	1,169,035	
44	1920...dollars	.....	.....	.....	.....	.....	1,180,335	
45	Increase or decrease (-), 1930-1940...percent	-72.9	.....	.....	.....	.....	5.1	
46	Average investment, based on area works were capable of supplying with water, per acre...1940...dollars	17.56	174.44	29.81	34.84	14.28	29.53	
47	1930...dollars	30.38	.....	.....	.....	.....	39.38	
48	1920...dollars	.....	.....	.....	.....	.....	19.52	
49	Average investment per acre irrigated...1939...dollars	23.96	428.18	41.89	59.48	34.94	52.62	
50	Estimated final investment in existing enterprises...1940...dollars	3,775	9,420	2,050	631,122	29,868	1,228,577	
51	1930...dollars	13,912	.....	.....	.....	.....	1,219,035	
52	1920...dollars	.....	.....	.....	.....	.....	1,298,535	
53	Increase or decrease (-), 1930-1940...percent	-72.9	.....	.....	.....	.....	0.8	
54	Average investment, based on estimated final investment and irrigable area, per acre...1940...dollars	17.32	165.26	39.42	34.84	14.76	20.27	
55	1930...dollars	30.38	.....	.....	.....	.....	27.13	
56	1920[4]...dollars	.....	.....	.....	.....	.....	18.91	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	7	10	1	2	24	10	1
58	Area irrigated in these enterprises...1939...acres	137	22	(3)	(3)	827	23,296	(3)
59	Cost of maintenance and operation...1939...dollars	194	165	(3)	(3)	3,105	23,555	(3)
60	Average cost, per acre irrigated...1939...dollars	1.42	7.50	(3)	(3)	3.75	1.01	(3)
61	1929...dollars	5.10	.....	.....	.....	.....	2.03	.....
62	Total annual charges (reported)[5] [6]...1939...dollars	.....	.....	.....	73,500	.....	27,649	55,102
63	Average annual charge per acre irrigated...1939...dollars	.....	.....	.....	7.00	.....	1.78	7.50
64	Area against which charges were assessed...1939...acres	.....	.....	.....	10,500	.....	51,936	43,681
65	Average annual charge per acre assessed...1939...dollars	.....	.....	.....	7.00	.....	0.53	1.26
66	Total charges collected[5]...1939...dollars	.....	.....	.....	71,138	.....	17,650	6,607
67	Indebtedness to December 31 (reported)[6]...1939...dollars	.....	.....	.....	483,750	.....	136,500	305,538
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered...1939...number	7	9	3	2	24	8	.....
69	Area irrigated in these enterprises...1939...acres	137	22	37	(3)	827	21,434	.....
70	Water delivered in these enterprises...1939...acre-feet	95	19	25	(3)	843	72,504	.....
71	Average water delivered per acre irrigated...1939...acre-feet	0.7	0.9	0.7	(3)	1.0	3.4	.....
72	Average cost of water per acre irrigated...1939...dollars	1.42	6.82	1.00	(3)	3.75	1.48	.....
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage...1939...number	.....	2	.....	.....	8	2	.....
74	Irrigable area in these enterprises...1939...acres	.....	(3)	.....	.....	974	(3)	.....
75	Irrigated area in these enterprises...1939...acres	.....	(3)	.....	.....	84	(3)	.....
76	Area for which drains have been installed...1939...acres	.....	(3)	.....	.....	549	.....	.....
77	Additional area needing drainage...1939...acres	.....	.....	.....	.....	425	(3)	.....

[6] Census of Agriculture.

[1] Percent not shown when more than 1,000.

[2] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Potter	Presidio	Randall	Real	Reeves	Roberts	Runnels	San Saba	Scurry	Shackelford	Stephens	Sterling	Swisher	
302	490	660	300	277	154	2,103	1,276	1,446	460	810	117	1,035	1
322	532	843	253	327	158	2,544	1,424	1,564	462	765	136	1,021	2
44	326	40	48	191	8	26	79	133	5	7	6	524	3
5	417	5	16	277	.....	41	103	1	4	15	10	7	4
780.0	-21.8	700.0	200.0	-31.0	.....	-36.6	-23.3	(1)	25.0	-53.3	-40.0	(1)	5
32	123	30	36	99	8	16	57	82	4	3	4	328	6
.....	80	.....	11	77	.....	20	47	.....	.....	.....	.....	3	7
12	203	10	12	92	.....	10	22	51	1	4	2	196	8
.....	337	.....	5	200	.....	21	56	.....	.....	.....	.....	4	9
[2] 662,559	1,881,564	566,945	[2] 414,386	1,601,050	[2] 627,883	603,455	649,969	571,444	560,551	592,497	551,775	563,045	10
187,281	375,349	30,457	58,000	103,231	4,788	11,996	96,141	41,149	1,141	1,657	921	278,361	11
4,256	1,151	761	1,208	540	598	461	1,217	309	228	237	154	531	12
181,781	350,527	25,179	46,732	78,576	4,788	10,600	87,226	29,853	(3)	655	(3)	190,927	13
5,681	2,850	839	1,298	794	598	662	1,530	364	(3)	218	(3)	582	14
5,500	24,822	5,278	11,268	24,655	.....	1,396	8,915	11,296	(3)	1,002	(3)	87,434	15
458	122	528	939	268	.....	140	405	221	(3)	250	(3)	446	16
576,640	2,481,280	586,240	400,000	1,664,000	570,880	678,400	718,080	581,760	567,680	593,280	584,960	568,320	17
407	8,898	2,396	458	18,067	80	544	1,077	70	18	61	82	31,442	18
405	6,275	2,141	410	13,803	73	521	814	70	13	61	77	30,040	19
2	1,008	.....	8	3,219	7	.....	3	.....	5	.....	.....	560	20
.....	1,615	255	40	1,045	.....	23	260	.....	.....	.....	5	842	21
.....	3,959	.....	890	16,169	.....	1,548	3,539	.....	.....	.....	.....	830	22
.....	2,150	.....	452	13,286	.....	467	95	.....	.....	.....	.....	.....	23
.....	124.8	.....	-48.5	11.7	.....	-64.9	-69.6	.....	.....	.....	.....	(1)	24
536	12,624	4,205	1,648	21,282	165	1,104	2,064	71	200	168	107	61,450	25
.....	5,169	.....	919	18,154	.....	2,421	4,416	.....	.....	.....	.....	1,213	26
.....	2,550	.....	3,274	26,066	.....	1,535	2,395	.....	.....	.....	.....	.....	27
129	3,726	1,809	1,190	3,215	85	560	987	1	182	107	25	30,008	28
.....	1,210	.....	29	1,985	.....	873	877	.....	.....	.....	.....	383	29
536	12,324	3,995	1,040	20,211	165	1,090	1,699	71	200	168	107	60,942	30
.....	4,734	.....	910	17,064	.....	2,103	4,291	.....	.....	.....	.....	830	31
.....	1,850	.....	3,227	20,553	.....	901	2,221	.....	.....	.....	.....	.....	32
.....	100.3	.....	14.3	18.4	.....	-48.2	-60.4	.....	.....	.....	.....	(1)	33
129	3,426	1,599	582	2,144	85	546	622	1	182	107	25	29,500	34
.....	775	.....	20	895	.....	555	752	.....	.....	.....	.....	.....	35
0.2	2.4	7.9	0.8	17.5	1.7	4.5	1.1	0.2	1.6	3.7	8.9	11.3	36
.....	9.4	.....	7.0	18.4	.....	21.9	9.7	.....	.....	.....	.....	16.0	37
75.9	72.2	60.0	41.0	89.4	48.5	49.9	63.4	98.6	9.0	36.3	76.6	51.6	38
.....	83.6	.....	97.8	94.8	.....	73.6	82.5	.....	.....	.....	.....	100.0	39
9,506	154,335	79,020	9,838	631,662	6,786	22,041	30,472	19,600	1,650	850	2,125	511,236	40
9,506	154,160	79,020	9,558	631,634	6,786	21,080	30,435	19,600	1,650	850	2,125	510,606	41
.....	175	.....	280	28	.....	961	37	.....	.....	.....	.....	630	42
.....	91,850	.....	5,395	446,550	.....	50,749	106,385	.....	.....	.....	.....	42,000	43
.....	10,300	.....	13,700	581,475	.....	41,650	117,256	.....	.....	.....	.....	.....	44
.....	68.0	.....	82.4	41.5	.....	-56.6	-71.3	.....	.....	.....	.....	(1)	45
17.74	12.52	19.78	9.46	31.25	41.13	20.22	17.94	276.06	8.25	5.06	19.86	8.39	46
.....	19.40	.....	5.93	26.17	.....	24.13	24.79	.....	.....	.....	.....	50.60	47
.....	5.57	.....	4.25	28.29	.....	46.23	52.79	.....	.....	.....	.....	.....	48
23.36	17.34	32.98	21.48	34.96	84.82	40.52	28.29	280.00	91.67	13.93	25.91	16.26	49
9,506	157,935	82,175	10,163	634,247	8,786	22,306	30,522	19,600	1,650	850	2,125	519,303	50
.....	101,850	.....	5,395	446,550	.....	51,639	106,995	.....	.....	.....	.....	42,000	51
.....	10,300	.....	13,700	587,575	.....	41,850	117,271	.....	.....	.....	.....	.....	52
.....	55.1	.....	88.4	42.0	.....	-56.8	-71.5	.....	.....	.....	.....	(1)	53
17.74	12.51	19.54	6.17	29.80	53.25	20.20	14.79	276.06	8.25	5.06	19.86	8.45	54
.....	19.70	.....	5.87	24.60	.....	21.33	24.23	.....	.....	.....	.....	34.62	55
.....	4.04	.....	4.18	22.54	.....	27.26	48.96	.....	.....	.....	.....	.....	56
				Primary / Sup.									
				Enterprises									
5	100	34	26	36 / 1	5	22	23	3	3	1	3	204	57
131	8,419	2,296	154	17,977 / (3)	69	518	988	55	11	(3)	67	29,353	58
535	15,411	7,660	337	28,499 / (3)	677	1,270	2,110	208	24	(3)	400	75,651	59
4.08	1.83	3.34	2.19	1.59 / (3)	9.81	2.45	2.44	3.78	2.18	(3)	5.97	2.58	60
.....	4.41	.....	1.69	2.78 /	.....	5.72	3.04	.....	.....	.....	.....	2.29	61
.....	8,009	.....	.....	18,768 / 6,122	.....	.....	.....	.....	.....	.....	.....	.....	62
.....	1.44	.....	.....	1.35 / 2.43	.....	.....	.....	.....	.....	.....	.....	.....	63
.....	5,571	.....	.....	27,475 / 16,061	.....	.....	.....	.....	.....	.....	.....	.....	64
.....	1.44	.....	.....	0.68 / 0.38	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	1,544	.....	.....	..... / 734	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	126,500 / 33,949	.....	.....	.....	.....	.....	.....	.....	.....	67
6	117	35	22	35 /	6	25	25	4	2	2	6	221	68
231	7,452	2,396	155	17,564 /	80	544	747	70	(3)	(3)	82	31,430	69
237	17,656	2,933	417	40,317 /	375	554	756	151	(3)	(3)	81	33,261	70
1.0	2.4	1.2	2.7	2.3 /	4.7	1.0	1.0	2.2	(3)	(3)	1.0	1.1	71
4.08	1.81	3.34	1.98	1.67 /	9.81	2.45	1.37	3.78	(3)	(3)	5.97	2.58	72
.....	1	1	.....	1 /	.....	.....	.....	1	.....	.....	.....	.....	73
.....	(3)	(3)	.....	(3) /	.....	.....	.....	(3)	.....	.....	.....	.....	74
.....	(3)	(3)	.....	(3) /	.....	.....	.....	(3)	.....	.....	.....	.....	75
.....	(3)	(3)	.....	..... /	.....	.....	.....	(3)	.....	.....	.....	.....	76
.....	.....	.....	.....	(3) /	.....	.....	.....	.....	.....	.....	.....	.....	77

[3] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Tarrant	Taylor	Terrell	Terry	Tom Green	Uvalde
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms....1940...number....	3,622	1,871	136	1,305	1,408	755
2	1930...number....	3,366	2,233	141	1,458	1,234	761
3	Irrigated farms....1940...number....	34	15	3	7	227	53
4	1930...number....	33	25	2	.....	182	15
5	Increase or decrease (-), 1930-1940....percent....	3.0	-40.0	50.0	.....	24.7	253.3
	Operated by—						
6	(a) Owners and managers....1940...number....	27	8	2	7	146	33
7	1930...number....	.....	.....	.....	.....	105	11
8	(b) Tenants....1940...number....	7	7	1	.....	81	20
9	1930...number....	.....	.....	.....	.....	77	4
10	Land in all farms....1940...acres....	458,096	507,411	1,511,100	473,063	[2]1,031,150	[2]1,186,451
11	Land in irrigated farms....1940...acres....	1,955	19,791	25,119	1,346	95,819	112,117
12	Average per farm....1940...acres....	58	1,319	8,373	192	422	2,115
13	(a) Operated by owners and managers....1940...acres....	1,596	19,036	[3]	1,346	65,104	105,037
14	Average per farm....1940...acres....	59	2,380	[3]	192	446	3,183
15	(b) Operated by tenants....1940...acres....	359	755	[3]	.....	30,715	7,080
16	Average per farm....1940...acres....	51	108	[3]	.....	379	354
17	Approximate land area....1940...acres....	561,280	584,320	1,528,320	574,720	987,520	1,016,320
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated....1939...acres....	534	841	347	104	8,728	1,021
19	(a) Cropland harvested....1939...acres....	529	441	148	104	7,708	769
20	(b) Crop failure....1939...acres....	5	.....	65	.....	14	10
21	(c) Pasture....1939...acres....	.....	400	134	.....	1,006	242
22	Area irrigated....1929...acres....	.....	.....	.....	.....	10,569	1,693
23	1919...acres....	.....	.....	.....	.....	7,103	484
24	Increase or decrease (-), 1929-1939....percent....	.....	.....	.....	.....	-17.4	-39.7
25	Irrigable area in enterprises....1940...acres....	650	1,332	675	253	12,592	2,426
26	1930...acres....	.....	.....	.....	.....	11,583	2,119
27	1920[4]...acres....	.....	.....	.....	.....	14,718	2,032
28	Excess of irrigable area over the area irrigated...1940...acres....	116	491	328	149	3,864	1,405
29	1930...acres....	.....	.....	.....	.....	1,014	426
30	Area works were capable of supplying with water...1940...acres....	634	1,332	675	253	12,242	2,376
31	1930...acres....	.....	.....	.....	.....	11,575	1,886
32	1920...acres....	.....	.....	.....	.....	10,040	2,032
33	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	5.8	26.0
34	Excess, capability of works over area irrigated...1940...acres....	100	491	328	149	3,514	1,355
35	1930...acres....	.....	.....	.....	.....	1,006	193
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	27.3	4.2	1.4	7.7	9.1	0.9
37	1929...percent....	.....	.....	.....	.....	21.9	19.7
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	84.2	63.1	51.4	41.1	71.3	43.0
39	1929...percent....	.....	.....	.....	.....	91.3	89.8
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises....1940...dollars....	44,860	37,400	3,200	7,662	299,996	28,942
41	(a) Cost of irrigation works and equipment....1940...dollars....	44,610	37,400	3,200	7,662	299,345	28,942
42	(b) Investment in water rights (reported)....1940...dollars....	250	.....	.....	.....	651	.....
43	Total investment in all enterprises....1930...dollars....	.....	.....	.....	.....	261,359	47,060
44	1920...dollars....	.....	.....	.....	.....	401,194	28,550
45	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	14.8	-38.5
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	70.76	28.08	4.74	30.28	24.51	12.18
47	1930...dollars....	.....	.....	.....	.....	22.58	24.95
48	1920...dollars....	.....	.....	.....	.....	39.96	14.05
49	Average investment per acre irrigated....1939...dollars....	84.00	44.47	9.22	73.67	34.37	28.35
50	Estimated final investment in existing enterprises...1940...dollars....	45,460	37,400	3,200	7,662	301,261	30,077
51	1930...dollars....	.....	.....	.....	.....	261,359	47,060
52	1920...dollars....	.....	.....	.....	.....	402,194	28,550
53	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	15.3	-36.1
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	69.94	28.08	4.74	30.28	23.92	12.40
55	1930...dollars....	.....	.....	.....	.....	22.56	22.21
56	1920[4]...dollars....	.....	.....	.....	.....	27.33	14.05
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
57	Enterprises reporting maintenance and operation...1939...number....	20	3	3	1	138	25
58	Area irrigated in these enterprises....1939...acres....	375	753	347	[3]	7,989	1,021
59	Cost of maintenance and operation....1939...dollars....	3,640	1,040	270	[3]	18,609	2,922
60	Average cost, per acre irrigated....1939...dollars....	9.71	1.38	0.78	[3]	2.33	2.86
61	1929...dollars....	.....	.....	.....	.....	2.79	4.94
62	Total annual charges (reported)[6][7]....1939...dollars....	.....	.....	.....	.....	469	.....
63	Average annual charge per acre irrigated....1939...dollars....	.....	.....	.....	.....	0.20	.....
64	Area against which charges were assessed....1939...acres....	.....	.....	.....	.....	2,379	.....
65	Average annual charge per acre assessed....1939...dollars....	.....	.....	.....	.....	0.20	.....
66	Total charges collected[6]....1939...dollars....	.....	.....	.....	.....	216	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered....1939...number....	26	2	.....	4	135	25
69	Area irrigated in these enterprises....1939...acres....	478	[3]	.....	104	8,623	1,021
70	Water delivered in these enterprises....1939...acre-feet..	1,690	[3]	.....	148	14,249	1,398
71	Average water delivered per acre irrigated....1939...acre-feet..	3.5	[3]	.....	1.4	1.7	1.4
72	Average cost of water per acre irrigated....1939...dollars....	9.40	[3]	.....	3.33	2.31	2.86
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage....1939...number....	5	.....	.....	.....	.....	.....
74	Irrigable area in these enterprises....1939...acres....	141	.....	.....	.....	.....	.....
75	Irrigated area in these enterprises....1939...acres....	109	.....	.....	.....	.....	.....
76	Area for which drains have been installed....1939...acres....	103	.....	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres....	17	.....	.....	.....	.....	.....

*Census of Agriculture.

[1]Data between census years not comparable (see headnote).

[2]The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county.

[3]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Val Verde	Waller	Ward	Webb	Wharton	Wilbarger	Wilson	Zapata	Zavala	All other counties[1]	
309	1,484	169	427	3,746	1,300	2,092	329	316	292,064	1
250	1,463	303	522	3,965	2,139	2,431	338	304	360,650	2
161	12	132	57	139	9	11	8	156	1,123	3
47	5	237	70	106	1	2	1	76	786	4
242.6	140.0	-44.3	-18.6	31.1	800.0	450.0	700.0	105.3	42.9	5
113	9	71	39	71	4	9	5	106	651	6
.....	3	46	56	54	.....	.....	.....	41	652	7
48	3	61	18	68	5	2	3	50	472	8
.....	2	191	14	52	.....	.....	.....	35	518	9
[2]2,096,035	222,165	423,908	1,846,626	491,300	[2]842,577	403,370	405,382	791,364	67,015,014	10
804,668	9,080	88,523	199,494	87,423	1,664	3,873	13,079	143,417	1,731,193	11
4,998	757	671	3,500	629	185	352	1,635	919	1,542	12
645,192	6,388	80,461	176,957	54,001	673	[3]	11,880	129,867	1,633,072	13
5,710	710	1,133	4,537	761	168	[3]	2,376	1,225	2,509	14
159,476	2,692	8,062	22,537	33,422	991	[3]	1,199	13,550	98,121	15
3,322	897	132	1,252	492	198	[3]	400	271	208	16
2,074,880	324,480	529,280	2,108,800	690,560	610,560	513,280	691,200	826,880	85,836,160	17
2,968	2,496	18,655	5,717	22,468	47	321	1,026	23,384	36,823	18
1,439	2,496	18,023	5,694	22,468	47	296	1,026	13,374	35,422	19
9	.....	600	15	.....	.....	.....	.....	230	4	20
1,520	.....	32	8	.....	.....	25	.....	9,780	1,397	21
.....	577	13,900	13,208	30,898	.....	.....	.....	13,126	52,911	22
.....	.....	20,000	7,480	19,516	.....	.....	.....	1,642	21,444	23
.....	332.6	34.2	-56.7	-27.3	.....	.....	.....	78.2	-30.4	24
5,863	5,677	62,127	15,083	73,685	47	421	2,519	34,666	89,809	25
.....	1,097	69,295	25,891	109,533	.....	.....	.....	18,091	75,025	26
.....	.....	71,500	31,736	75,612	.....	.....	.....	5,933	66,366	27
2,895	3,181	43,472	9,366	51,217	.....	100	1,493	11,282	52,986	28
.....	520	55,395	12,683	78,635	.....	.....	.....	4,965	22,114	29
5,863	5,677	60,037	12,744	68,585	47	421	1,679	33,297	86,312	30
.....	1,097	24,800	19,188	40,874	.....	.....	.....	15,364	73,481	31
.....	.....	37,000	13,143	40,623	.....	.....	.....	4,645	43,146	32
.....	417.5	142.1	-33.6	67.8	.....	.....	.....	116.7	17.5	33
2,895	3,181	41,382	7,027	46,117	.....	100	653	9,913	49,489	34
.....	520	10,900	5,980	9,976	.....	.....	.....	2,238	20,570	35
0.4	27.5	21.1	2.9	25.7	2.8	8.3	7.8	16.3	2.1	36
.....	34.3	16.5	18.0	71.9	.....	.....	.....	43.2	12.6	37
50.6	44.0	31.1	44.9	32.8	100.0	76.2	61.1	70.2	42.7	38
.....	52.6	56.0	68.8	75.6	.....	.....	.....	85.4	72.0	39
424,425	53,350	1,548,085	421,124	747,154	1,050	6,100	13,805	900,253	6,990,327	40
424,425	53,350	1,547,452	419,249	741,672	1,050	6,100	13,805	887,250	6,990,302	41
.....	.....	633	1,875	5,482	.....	.....	.....	13,003	25	42
.....	28,500	604,500	1,317,254	795,175	.....	.....	.....	916,548	6,027,928	43
.....	.....	370,000	1,098,640	1,543,808	.....	.....	.....	160,850	1,813,557	44
.....	87.2	156.1	-68.0	6.0	.....	.....	.....	-1.8	16.0	45
72.39	9.40	25.79	33.04	10.89	22.34	14.49	8.22	27.04	80.99	46
.....	25.98	24.38	68.65	19.45	.....	.....	.....	59.66	82.03	47
.....	.....	10.00	83.59	38.00	.....	.....	.....	34.63	42.03	48
143.00	21.37	82.98	73.66	33.25	22.34	19.00	13.46	38.50	189.84	49
424,425	53,350	1,563,085	442,624	747,154	1,050	6,100	28,805	914,253	7,098,017	50
.....	28,500	604,500	1,350,354	795,175	.....	.....	.....	1,030,548	6,055,328	51
.....	.....	370,000	1,139,702	1,574,608	.....	.....	.....	160,850	1,868,212	52
.....	87.2	158.6	-67.22	-6.0	.....	.....	.....	-11.3	17.2	53
72.39	9.40	25.16	29.35	10.14	22.34	14.49	11.44	26.37	79.03	54
.....	25.98	8.72	52.16	7.26	.....	.....	.....	56.96	80.71	55
.....	.....	5.17	35.91	20.82	.....	.....	.....	27.11	28.15	56
		Primary Enterprises / Sup.						Primary Enterprises / Sup.	Primary Enterprises / Sup.	
58	9	4 / 1	38	29	2	3	2	102 / 2	48 / 1	57
2,964	2,156	18,655 / [3]	4,053	20,650	[3]	252	[3]	20,041 / [3]	36,088 /	58
4,120	10,481	30,632 / [3]	28,017	135,082	[3]	1,200	[3]	56,175 / [3]	102,368 / [3]	59
1.39	4.86	1.64 / [3]	6.91	6.54	[3]	4.76	[3]	2.80 / [3]	2.84 /	60
.....	9.03	1.92 /	12.27	6.06	.....	.....	.....	7.35 /	[5]8.02 /	61
2,277	.....	56,156 / 140,817	.....	148,560	.....	.....	.....	125 / 7,565	97,410 / 2,042	62
3.00	.....	3.01 / 7.55	.....	8.84	.....	.....	.....	0.54 / 1.14	2.73 /	63
759	.....	74,317 / 74,317	.....	16,797	.....	.....	.....	230 / 8,500	74,841 / 4,410	64
3.00	.....	0.76 / 1.89	.....	8.84	.....	.....	.....	0.54 / 0.89	1.30 / 0.46	65
.....	.....	35,108 / 16,883	.....	63,061	.....	.....	.....	560 / 7,661	297,891 / 245	66
.....	.....	368,900 / 780,821	.....	45,793	.....	.....	.....	600 / 82,900	6,524,761 / 11,316	67
59	10	3 /	52	41	3	5	6	128 / 2	47 /	68
2,209	2,496	18,655 /	4,845	22,468	47	321	1,026	23,154 / [3]	36,547 /	69
6,142	5,918	112,469 /	11,136	87,140	106	1,038	2,688	21,660 / [3]	35,569 /	70
2.8	2.4	6.0 /	2.3	3.9	2.3	3.2	2.6	9.4 / [3]	1.0 /	71
1.32	4.86	2.96 /	6.48	8.13	3.24	4.76	4.08	2.83 / [3]	2.68 /	72
1	1	3 /	2	1	1	.....	1	..... /	10 /	73
[3]	[3]	61,037 /	[3]	[3]	[3]	.....	[3]	..... /	41,466 /	74
[3]	[3]	18,655 /	[3]	[3]	[3]	.....	[3]	..... /	6,617 /	75
[3]	[3]	..... /	[3]	[3]	[3]	.....	.....	..... /	41,443 /	76
.....	.....	17,407 /	[3]	.....	.....	.....	[3]	..... /	..... /	77

[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[5] Does not include data for Nueces and Wichita Counties. Averages for these are 4.71 and 3.27 respectively.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940 AND 1930

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Armstrong	Atascosa	Bailey	Bandera	Bexar	Brazoria
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	2,589,978,936	8,958,491	10,716,395	7,949,641	6,228,843	29,729,522	13,491,181
2	Land and buildings, irrigated farms.....dollars..	248,746,614	173,040	495,441	2,248,836	137,400	2,803,258	1,572,418
	Operated by—							
3	(a) Owners and managers.....dollars..	194,702,077	(1)	296,041	1,445,932	(1)	2,244,498	893,088
4	(b) Tenants.....dollars..	54,044,537	(1)	199,400	802,904	(1)	558,760	679,330
5	Average, land and buildings, per farm.....dollars..	12,711.91	28,840.00	2,984.58	9,104.60	17,175.00	7,281.19	23,123.79
6	per acre in farms.....dollars..	21.41	17.87	55.67	23.35	9.36	145.82	36.63
7	Buildings, irrigated farms reporting value.....number...	16,696	6	138	237	8	380	49
8	Total reported.....dollars..	32,848,639	12,250	99,165	291,255	16,300	664,315	159,883
9	Average, per irrigated farm reporting.....dollars..	1,967.46	2,041.67	718.59	1,228.92	2,037.50	1,748.20	3,262.92
10	per acre on all irrigated farms.....dollars..	2.83	1.26	11.14	3.02	1.11	34.56	3.72
11	Buildings, nonirrigated farms reporting value.....number...	383,227	386	1,794	535	632	3,211	1,653
12	Total reported.....dollars..	385,420,914	830,618	1,539,626	548,730	1,104,710	6,232,030	2,040,116
13	Average, per nonirrigated farm reporting.....dollars..	1,005.72	2,151.86	858.21	1,025.66	1,747.96	1,940.84	1,234.19
14	per acre on all nonirrigated farms.....dollars..	3.06	1.04	2.23	1.54	2.38	11.26	3.81
15	Implements and machinery, irrigated farms reporting value..number..	16,549	6	129	226	8	373	65
16	Total reported.....dollars..	20,123,937	19,020	77,424	317,990	7,100	251,688	259,725
17	Average, per irrigated farm reporting.....dollars..	1,216.02	3,170.00	600.19	1,407.04	887.50	674.77	3,995.77
18	per acre, on all irrigated farms.....dollars..	1.79	1.96	8.70	3.30	0.48	13.09	6.05
19	Implements and machinery, nonirrigated farms reporting value.....number...	337,983	376	1,700	512	607	3,092	1,504
20	Total reported.....dollars..	160,620,275	531,739	724,783	666,582	240,710	1,775,319	930,874
21	Average, per acre, on all nonirrigated farms.....dollars..	1.27	0.66	1.05	1.87	0.52	3.21	1.74
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[2]4,067	5	57	95	4	105	17
23	1930...number.....	[2]1,736	.....	45	23	4	36	14
24	1920...number.....	1,371	.....	35	24	.....	43	1
25	Average size of enterprise based on irrigable area.....1940...acres.....	536	139	58	103	5	237	3,521
26	1930...acres.....	903	.....	53	110	.....	1,143	425
27	1920[3]..acres.....	1,231	.....	184	195	.....	1,373	1,000
28	Diversion dams.....1940...number.....	244	.....	.....	.....	1	2	1
29	Main canals and laterals.....1940...length, miles.....	5,936.1	.....	11.6	.....	.....	139.0	95.0
30	1930...length, miles.....	4,879	.....	6	.....	.....	192	16
31	1920...length, miles.....	4,473	.....	60	50	.....	127	2
32	1940...capacity, c.f.s.[4]....	24,813	.....	.....	.....	2	73	146
33	1930...capacity, c.f.s.[4]....	21,626	.....	7	.....	.....	86	138
34	1920...capacity, c.f.s.[4]....	23,261	.....	25	50	.....	1,702	1
35	Pipe lines[5].....1940...length, miles.....	923.1	.....	0.2	.....	0.2	10.9	0.1
36	Storage dams.....1940...number.....	194	.....	2	.....	1	2	1
37	Reservoirs.....1940...number.....	542	3	17	.....	1	6	2
38	1930...number.....	325	.....	31	.....	.....	11	.....
39	1920...number.....	368	.....	21	.....	.....	11	.....
40	1940...capacity, acre-feet..	1,405,024	5	60	.....	(1)	7,314	(1)
41	1930...capacity, acre-feet..	935,085	.....	51	.....	.....	8,631	.....
42	1920...capacity, acre-feet..	392,999	.....	46	.....	.....	260,316	.....
43	Wells, flowing.....1940...number.....	100	.....	25	.....	.....	25	.....
44	1930...number.....	61	.....	27	.....	.....	6	.....
45	1920...number.....	135	.....	40	.....	.....	23	.....
46	1940...yield, g.p.m.....	39,508	.....	9,240	.....	.....	13,878	.....
47	1930...yield, g.p.m.....	36,020	.....	14,233	.....	.....	3,520	.....
48	1920...yield, g.p.m.....	62,364	.....	16,540	.....	.....	15,410	.....
49	Wells, pumped.....1940...number.....	3,396	5	43	101	1	81	2
50	1930...number.....	1,102	.....	20	24	.....	25	6
51	1920...number.....	901	.....	10	27	.....	22	.....
52	1940...yield, g.p.m.....	2,213,230	2,954	15,245	99,066	(1)	42,706	(1)
53	1930...yield, g.p.m.....	614,395	.....	8,610	18,800	.....	16,147	5,952
54	1920...yield, g.p.m.....	538,565	.....	7,700	24,150	.....	10,820	.....
55	Pumping plants.....1940...number.....	4,674	6	42	101	3	94	17
56	1930...number.....	1,828	.....	20	24	.....	36	16
57	1920...number.....	1,369	.....	11	24	.....	31	1
58	Prime movers.....1940...capacity, hp.....	195,061	156	606	3,199	8	1,062	715
59	1930...capacity, hp.....	95,933	.....	553	520	.....	863	668
60	1920...capacity, hp.....	80,511	.....	141	585	.....	693	125
61	Pumps.....1940...capacity, g.p.m.....	9,916,225	3,354	19,343	99,166	630	49,326	87,850
62	1930...capacity, g.p.m.....	6,494,999	.....	8,660	18,800	.....	32,767	51,477
63	1920...capacity, g.p.m.....	6,825,998	.....	8,900	24,150	.....	14,220	12,000
64	Pumping lift, from all sources.....1940...average, feet.....	69	85	19	45	34	27	18
65	1930...average, feet.....	55	.....	12	22	.....	34	23
66	1920...average, feet.....	45	.....	51	24	.....	31	14
67	from pumped wells.....1940...average, feet.....	82	85	19	45	(1)	28	(1)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	102	.....	2	.....	.....	7	3
69	Irrigated area in these enterprises.....acres....	680,299	.....	(1)	.....	.....	10,472	33,850
70	Wages and salaries paid and payable.....dollars..	1,628,198	.....	(1)	.....	.....	12,796	79,313
71	Persons employed during week ending April 29.....number...	1,698	.....	(1)	.....	.....	47	74

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2]Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Brewster	Briscoe	Brooks	Callahan	Cameron	Castro	Chambers	Coke	Coleman	Colorado	Comal	Concho	Crosby	Dallam	
11,915,916	6,015,696	5,360,707	8,008,709	21,368,831	10,373,351	3,543,914	9,077,003	16,106,055	10,185,722	6,390,411	12,416,818	12,185,070	5,242,785	1
192,724	783,525	864,653	35,800	18,459,606	2,931,404	1,106,470	598,434	128,325	1,509,848	19,500	48,920	1,242,444	518,155	2
185,164	633,915	864,653	28,700	12,857,316	2,419,664	492,305	512,684	91,350	1,153,107	19,500	27,690	626,305	307,605	3
7,560	149,610	.....	7,100	5,602,290	511,740	614,165	85,750	36,975	356,741	.....	21,230	616,139	210,550	4
8,760.18	12,637.50	43,232.65	5,114.29	7,127.26	16,847.15	14,005.95	49,869.50	9,871.15	15,727.58	3,900.00	6,115.00	6,902.47	8,635.92	5
11.69	23.46	17.65	55.50	86.29	22.91	24.79	14.26	57.21	18.32	177.27	30.09	32.25	6.81	6
21	62	20	7	2,391	156	60	12	10	63	5	7	175	60	7
53,600	89,131	74,100	12,600	2,639,328	349,600	85,225	37,400	48,875	113,760	7,100	11,700	200,480	95,205	8
2,552.38	1,437.60	3,705.00	1,800.00	1,103.86	2,241.03	1,420.42	3,116.67	4,887.50	1,805.71	1,420.00	1,671.43	1,145.60	1,586.75	9
3.25	2.67	1.51	19.53	12.34	2.73	1.91	0.89	21.79	1.38	64.55	7.20	5.20	1.25	10
217	428	362	1,388	601	472	282	711	1,969	2,013	711	695	1,012	355	11
391,380	499,545	320,097	1,240,984	386,997	821,801	355,168	836,616	2,138,523	1,997,105	1,567,265	1,180,560	1,607,563	543,735	12
1,803.59	1,167.16	884.25	894.08	643.92	1,741.10	1,259.46	1,176.68	1,086.10	992.10	2,204.31	1,698.65	1,588.50	1,531.65	13
0.13	1.59	0.59	2.63	3.70	2.28	2.28	1.35	2.87	5.32	5.06	2.13	3.89	0.74	14
21	57	20	5	2,242	164	78	12	12	90	5	6	155	54	15
18,895	86,626	29,523	1,090	1,621,414	353,135	336,033	14,600	13,553	192,485	4,325	5,100	171,287	77,487	16
899.76	1,519.75	1,476.15	218.00	723.20	2,153.26	4,308.12	1,216.67	1,129.42	2,138.72	865.00	850.00	1,105.08	1,434.94	17
1.15	2.59	0.60	1.69	7.58	2.76	7.53	0.35	6.04	2.34	39.32	3.14	4.45	1.02	18
175	420	326	1,091	573	473	229	654	1,755	1,872	630	609	977	303	19
152,675	408,123	130,512	562,142	276,021	794,855	126,939	428,710	1,197,404	481,267	387,002	645,225	1,467,783	394,176	20
0.05	1.30	0.24	1.19	2.64	2.20	0.82	0.69	1.61	1.28	1.25	1.17	3.55	0.53	21
21	18	22	5	164	101	4	7	11	14	4	4	20	12	22
35	.....	5	.....	26	.....	1	4	5	17	4	3	.....	.....	23
16	.....	.....	.....	17	.....	4	.....	.....	31	.....	.....	.....	.....	24
87	154	30	23	1,275	267	31,384	56	18	10,424	26	29	71	128	25
46	.....	.....	.....	9,127	.....	18,000	.....	.....	7,956	.....	.....	.....	.....	26
68	.....	.....	.....	10,495	.....	18,050	.....	.....	1,461	.....	.....	.....	.....	27
5	.....	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	28
5.0	.....	.....	.....	905.3	.....	368.2	0.1	4.0	136.0	.....	0.1	.....	.....	29
7	.....	.....	.....	1,042	.....	45	.....	.....	227	.....	.....	.....	.....	30
6	.....	.....	.....	596	.....	121	.....	.....	78	.....	.....	.....	.....	31
38	.....	.....	3	2,604	.....	250	8	40	1,032	1	7	.....	.....	32
22	.....	.....	.....	4,150	.....	300	.....	.....	356	.....	.....	.....	.....	33
132	.....	.....	.....	3,435	.....	865	.....	.....	523	.....	.....	.....	.....	34
2.5	0.5	3.2	.....	177.9	.....	.....	3.9	2.7	.....	0.5	0.5	.....	.....	35
.....	.....	.....	2	22	.....	1	2	1	1	.....	1	.....	.....	36
6	3	3	2	25	.....	1	2	1	1	.....	1	.....	.....	37
3	.....	.....	.....	14	.....	.....	.....	.....	1	.....	.....	.....	.....	38
16	.....	.....	.....	3	.....	1	.....	.....	1	.....	.....	.....	.....	39
2	2	4	(1)	44,664	.....	(1)	(1)	(1)	(1)	.....	(1)	.....	.....	40
36	.....	.....	.....	13,086	.....	.....	.....	.....	6,000	.....	.....	.....	.....	41
15	.....	.....	.....	1,501	.....	25,000	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
13	17	26	6	3	106	.....	1	.....	16	3	2	20	16	49
8	.....	.....	.....	.....	.....	.....	.....	.....	15	.....	.....	.....	.....	50
15	.....	.....	.....	1	.....	.....	.....	.....	39	.....	.....	.....	.....	51
146	12,019	4,467	1,096	463	96,593	.....	(1)	.....	14,100	1,200	(1)	7,210	13,300	52
158	.....	.....	.....	.....	.....	.....	.....	.....	26,675	.....	.....	.....	.....	53
964	.....	.....	.....	25	.....	.....	.....	.....	25,850	.....	.....	.....	.....	54
24	17	27	7	291	108	2	7	13	30	5	4	20	16	55
10	.....	.....	.....	58	.....	2	.....	.....	18	.....	.....	.....	.....	56
15	.....	.....	.....	23	.....	7	.....	.....	44	.....	.....	.....	.....	57
225	911	204	28	10,012	5,610	(1)	70	64	7,883	28	63	459	567	58
146	.....	.....	.....	7,231	.....	1,600	.....	.....	6,333	.....	.....	.....	.....	59
153	.....	.....	.....	5,847	.....	4,672	.....	.....	4,164	.....	.....	.....	.....	60
15,004	12,423	4,242	2,096	1,188,927	100,396	(1)	4,050	3,463	637,200	525	3,145	7,215	13,305	61
7,788	.....	.....	.....	1,224,300	.....	120,000	.....	.....	556,675	.....	.....	.....	.....	62
6,538	.....	.....	.....	887,212	.....	309,200	.....	.....	328,750	.....	.....	.....	.....	63
74	107	31	22	11	104	(1)	24	33	62	53	36	160	50	64
53	.....	.....	.....	21	.....	42	.....	.....	76	.....	.....	.....	.....	65
46	.....	.....	.....	15	.....	25	.....	.....	50	.....	.....	.....	.....	66
108	104	31	28	37	104	.....	(1)	.....	65	67	(1)	160	50	67
.....	.....	.....	.....	13	.....	4	.....	.....	2	.....	.....	.....	.....	68
.....	.....	.....	.....	79,512	.....	32,180	.....	.....	(1)	.....	.....	.....	.....	69
.....	.....	.....	.....	292,537	.....	112,813	.....	.....	(1)	.....	.....	.....	.....	70
.....	.....	.....	.....	328	.....	89	.....	.....	(1)	.....	.....	.....	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Dallas	Deaf Smith	Dickens	Dimmit	Donley	Edwards	El Paso	Fisher
	FARM VALUES, 1940[a]								
1	Land and buildings, all farms....dollars..	36,632,161	14,507,226	6,550,510	7,148,068	7,995,135	12,026,182	16,133,701	11,803,377
2	Land and buildings, irrigated farms....dollars..	307,700	5,114,135	554,709	3,066,612	65,640	2,738,339	15,341,582	198,680
	Operated by—								
3	(a) Owners and managers....dollars..	221,950	4,208,915	446,514	2,114,947	40,140	2,240,015	13,222,118	(1)
4	(b) Tenants....dollars..	85,750	905,220	108,195	951,665	25,500	498,324	2,119,464	(1)
5	Average, land and buildings, per farm....dollars..	7,692.50	20,456.54	8,553.98	12,169.10	8,205.00	51,666.77	15,326.26	15,283.08
6	per acre in farms....dollars..	271.58	23.07	20.26	21.26	16.34	9.70	125.31	29.49
7	Buildings, irrigated farms reporting value....number...	39	237	65	223	8	53	945	13
8	Total reported....dollars..	80,775	666,475	89,700	541,736	9,600	192,011	2,716,536	20,100
9	Average, per irrigated farm reporting....dollars..	2,071.15	2,812.13	1,380.00	2,429.31	1,200.00	3,622.85	2,874.64	1,546.15
10	per acre on all irrigated farms....dollars..	71.29	3.01	3.28	3.76	2.39	0.68	22.19	2.98
11	Buildings, nonirrigated farms reporting value....number...	3,404	401	821	163	849	217	69	1,439
12	Total reported....dollars..	6,327,111	706,555	863,980	193,065	1,031,170	758,478	276,471	1,730,955
13	Average, per nonirrigated farm reporting....dollars..	1,858.73	1,761.98	1,052.35	1,184.45	1,214.57	3,495.29	4,006.83	1,202.89
14	per acre on all nonirrigated farms....dollars..	16.38	0.99	2.95	0.41	1.98	0.78	1.36	3.58
15	Implements and machinery, irrigated farms reporting value..number...	38	225	54	226	7	51	790	13
16	Total reported....dollars..	22,775	599,259	58,685	223,022	7,800	50,490	1,097,576	17,950
17	Average, per irrigated farm reporting....dollars..	599.34	2,663.37	1,086.76	986.82	1,114.29	990.00	1,389.34	1,380.77
18	per acre, on all irrigated farms....dollars..	20.10	2.70	2.14	1.55	1.94	0.18	8.97	2.66
19	Implements and machinery, nonirrigated farms reporting value....number...	2,900	410	771	126	811	199	57	1,304
20	Total reported....dollars..	1,798,346	863,504	672,295	62,190	708,981	204,048	25,331	1,115,381
21	Average, per acre, on all nonirrigated farms....dollars..	4.65	1.21	2.30	0.13	1.36	0.21	0.12	2.31
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	39	193	21	237	3	9	[2]1	8
23	1930...number....	12	32	.....	147	.....	2	1	8
24	1920...number....	.....	43	.....	146	.....	.....	2	.....
25	Average size of enterprise based on irrigable area....1940...acres....	9	259	1	115	16	16	74,708	54
26	1930...acres....	.....	213	.....	127	.....	.....	67,000	.....
27	1920[3]..acres....	.....	310	.....	136	.....	.....	29,002	.....
28	Diversion dams....1940...number....	4	.....	.....	1	.....	2	2	1
29	Main canals and laterals....1940...length, miles....	.....	.....	0.5	5.8	.....	1.1	255.7	4.0
30	1930...length, miles....	.....	.....	.....	4	.....	.....	257	.....
31	1920...length, miles....	.....	113	.....	5	.....	.....	40	.....
32	1940...capacity, c.f.s.[4]....	10	.....	.....	79	.....	8	1,330	34
33	1930...capacity, c.f.s.[4]....	.....	.....	.....	9	.....	.....	1,720	.....
34	1920...capacity, c.f.s.[4]....	.....	94	.....	39	.....	.....	774	.....
35	Pipe lines[5]....1940...length, miles....	15.0	.....	0.1	4.0	1.0	0.7	.....	3.6
36	Storage dams....1940...number....	4	2	.....	4	.....	.....	.....	4
37	Reservoirs....1940...number....	4	2	.....	105	.....	.....	.....	4
38	1930...number....	.....	.....	.....	54	.....	.....	.....	.....
39	1920...number....	.....	.....	.....	153	.....	.....	.....	.....
40	1940...capacity, acre-feet..	15	(1)	.....	14,827	.....	.....	.....	108
41	1930...capacity, acre-feet..	.....	.....	.....	5,047	.....	.....	.....	.....
42	1920...capacity, acre-feet..	.....	.....	.....	1,690	.....	.....	.....	.....
43	Wells, flowing....1940...number....	.....	1	.....	.....	.....	.....	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	2	.....	27	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	(1)	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	2,500	.....	6,025	.....	.....	.....	.....
49	Wells, pumped....1940...number....	65	227	21	251	3	3	.....	.....
50	1930...number....	.....	34	.....	199	.....	.....	.....	.....
51	1920...number....	.....	44	.....	178	.....	.....	.....	.....
52	1940...yield, g.p.m....	9,180	204,115	120	81,046	24	315	.....	.....
53	1930...yield, g.p.m....	.....	39,700	.....	63,425	.....	.....	.....	.....
54	1920...yield, g.p.m....	.....	46,250	.....	48,450	.....	.....	.....	.....
55	Pumping plants....1940...number....	49	229	21	289	3	7	.....	8
56	1930...number....	.....	34	.....	198	.....	.....	.....	.....
57	1920...number....	.....	43	.....	181	.....	.....	.....	.....
58	Prime movers....1940...capacity, hp....	332	11,146	24	5,429	6	39	.....	153
59	1930...capacity, hp....	.....	1,755	.....	5,920	.....	.....	.....	.....
60	1920...capacity, hp....	.....	2,340	.....	3,851	.....	.....	.....	.....
61	Pumps....1940...capacity, g.p.m....	12,460	203,370	120	117,151	24	1,916	.....	20,000
62	1930...capacity, g.p.m....	.....	37,530	.....	66,615	.....	.....	.....	.....
63	1920...capacity, g.p.m....	.....	48,750	.....	74,900	.....	.....	.....	.....
64	Pumping lift, from all sources....1940...average, feet....	24	95	40	60	132	90	.....	16
65	1930...average, feet....	.....	65	.....	129	.....	.....	.....	.....
66	1920...average, feet....	.....	79	.....	39	.....	.....	.....	.....
67	from pumped wells....1940...average, feet....	25	95	40	65	132	187	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	.....	.....	.....	3	.....	.....	[2]1	.....
69	Irrigated area in these enterprises....acres....	.....	.....	.....	300	.....	.....	61,153	.....
70	Wages and salaries paid and payable....dollars..	.....	.....	.....	784	.....	.....	110,150	.....
71	Persons employed during week ending April 29....number...	.....	.....	.....	5	.....	.....	73	.....

[a] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2] Data for less than 3 enterprises shown with permission of the enterprise involved.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Floyd	Fort Bend	Frio	Galveston	Gillespie	Glasscock	Gray	Guadalupe	Hale	Hansford	Harris	Haskell	Heys	Hemphill	
13,971,774	22,296,201	7,437,519	4,309,977	13,727,631	6,313,847	9,945,416	14,810,947	18,197,861	7,736,311	41,269,301	14,998,802	7,501,347	6,155,206	1
5,845,699	1,148,383	826,037	201,420	2,731,551	2,239,588	219,570	106,750	13,035,627	119,488	1,620,171	191,195	69,100	101,300	2
3,916,790	756,713	606,567	(1)	2,509,351	1,960,098	104,120	106,750	8,265,215	119,488	1,268,015	165,320	(1)	(1)	3
1,928,909	391,670	219,470	(1)	222,200	279,490	115,450	.....	4,770,412	.....	352,156	25,875	(1)	(1)	4
12,411.25	19,799.71	15,585.60	6,945.52	11,574.37	50,899.73	24,396.67	13,343.75	11,680.67	29,872.00	9,000.95	11,949.69	9,871.43	16,883.33	5
31.95	42.43	18.03	97.78	20.89	11.59	15.63	46.25	29.73	15.34	46.01	70.53	66.51	14.55	6
464	54	51	29	233	43	9	8	1,094	4	179	16	7	6	7
880,616	134,297	157,975	73,800	527,225	162,556	27,000	19,500	1,833,850	12,950	333,750	46,050	31,300	15,500	8
1,897.88	2,486.98	3,097.55	2,544.83	2,262.77	3,780.37	3,000.00	2,437.50	1,676.28	3,237.50	1,864.53	2,878.12	4,471.43	2,583.33	9
4.81	4.96	3.45	35.83	4.03	0.84	1.92	8.45	4.18	1.66	9.48	16.99	30.13	3.23	10
799	3,297	603	833	1,129	100	616	2,685	451	260	6,657	1,848	1,175	334	11
1,247,825	3,235,287	672,785	1,302,657	2,213,082	267,750	1,293,475	3,654,413	672,430	720,205	9,986,752	2,135,801	1,657,199	614,030	12
1,561.73	981.28	1,115.73	1,563.81	1,960.21	2,677.50	2,099.80	1,361.05	1,490.98	2,770.02	1,500.19	1,155.74	1,410.38	1,838.41	13
3.98	8.57	1.15	10.93	4.06	0.72	2.42	10.30	3.94	1.45	17.02	3.92	4.17	1.17	14
445	55	50	25	229	44	7	7	1,046	4	175	15	7	6	15
628,241	125,101	59,700	18,683	181,165	49,925	12,050	6,935	1,513,807	13,625	271,300	24,220	10,585	3,600	16
1,411.78	2,274.56	1,194.00	747.32	791.11	1,134.66	1,721.43	990.71	1,447.23	3,406.25	1,550.29	1,614.67	1,512.14	600.00	17
3.43	4.62	1.30	9.07	1.39	0.26	0.86	3.00	3.45	1.75	7.70	8.93	10.19	0.52	18
729	3,129	589	732	1,111	100	560	2,558	399	272	5,437	1,746	969	333	19
905,088	1,446,235	376,083	379,867	651,681	128,886	725,618	1,024,498	567,150	748,274	3,039,951	1,679,203	364,476	373,675	20
2.89	3.83	0.64	3.19	1.20	0.35	1.36	2.89	3.32	1.51	5.18	3.08	0.92	0.71	21
225	13	31	3	12	7	3	3	328	6	30	3	3	6	22
29	9	27	6	2	.....	.....	1	61	1	22	3	3	.....	23
47	.....	24	.....	.....	.....	.....	.....	58	.....	1	.....	.....	.....	24
261	2,700	41	30	5	29	11	78	219	60	504	83	12	12	25
60	3,822	91	.....	.....	.....	.....	.....	120	.....	344	.....	.....	.....	26
119	.....	140	.....	.....	.....	.....	.....	175	.....	16,000	.....	.....	.....	27
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	28
.....	45.0	.....	.....	.....	.....	.....	3.0	2.0	4.0	.....	.....	.....	1.2	29
.....	29	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	30
95	.....	2	.....	.....	.....	.....	.....	108	.....	40	.....	.....	.....	31
1	889	3	.....	3	.....	1	14	.....	16	.....	.....	2	3	32
.....	350	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	33
94	.....	10	.....	.....	.....	.....	.....	113	.....	266	.....	.....	.....	34
1.0	0.3	0.2	1.0	1.1	0.5	0.6	1.3	.....	0.2	1.1	.....	1.6	0.4	35
.....	3	1	1	.....	1	2	.....	.....	.....	.....	.....	.....	8	36
.....	1	8	2	.....	4	2	.....	6	.....	1	.....	.....	8	37
.....	3	14	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	38
.....	.....	17	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	39
.....	(1)	18	(1)	.....	452	(1)	.....	40	.....	(1)	.....	.....	26	40
.....	1,800	74	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	41
.....	.....	23	.....	.....	.....	.....	.....	800	.....	.....	.....	.....	.....	42
.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	2,640	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	530	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	1,500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
273	9	39	3	14	11	3	.....	384	7	38	6	2	6	49
29	9	33	.....	.....	.....	.....	.....	76	.....	25	.....	.....	.....	50
48	.....	37	.....	.....	.....	.....	.....	68	.....	.....	.....	.....	.....	51
231,557	11,700	5,369	146	1,424	1,915	504	.....	356,392	2,958	55,840	2,350	(1)	878	52
27,500	18,550	10,530	.....	.....	.....	.....	.....	68,529	.....	29,961	.....	.....	.....	53
43,250	.....	7,695	.....	.....	.....	.....	.....	62,797	.....	.....	.....	.....	.....	54
279	20	31	4	14	12	4	3	377	7	38	6	3	7	55
29	11	26	.....	.....	.....	.....	.....	72	.....	24	.....	.....	.....	56
47	.....	27	.....	.....	.....	.....	.....	65	.....	1	.....	.....	.....	57
12,167	5,682	275	11	72	243	32	46	17,481	106	2,034	38	12	22	58
2,165	1,968	352	.....	.....	.....	.....	.....	3,023	.....	1,177	.....	.....	.....	59
1,950	.....	306	.....	.....	.....	.....	.....	3,212	.....	2,400	.....	.....	.....	60
232,702	387,050	6,608	146	2,424	2,141	624	3,650	352,318	3,058	55,040	2,350	370	878	61
27,700	119,050	11,465	.....	.....	.....	.....	.....	70,050	.....	35,882	.....	.....	.....	62
43,250	.....	8,045	.....	.....	.....	.....	.....	62,985	.....	120,000	.....	.....	.....	63
94	64	75	92	64	65	121	28	83	108	73	34	42	34	64
64	27	84	.....	.....	.....	.....	.....	73	.....	65	.....	.....	.....	65
91	.....	63	.....	.....	.....	.....	.....	76	.....	50	.....	.....	.....	66
94	91	78	92	69	65	353	.....	83	108	73	34	(1)	43	67
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68
.....	10,107	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	69
.....	19,199	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Hidalgo	Hockley	Howard	Hudspeth	Hutchinson	Irion	Jackson
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	40,312,799	14,297,438	8,930,939	6,212,843	1,396,604	8,580,001	9,640,230
2	Land and buildings, irrigated farms....dollars..	33,196,286	1,553,629	132,800	3,247,690	317,680	684,605	420,660
	Operated by—							
3	(a) Owners and managers....dollars..	28,502,267	845,672	112,200	2,909,490	224,980	554,005	196,850
4	(b) Tenants....dollars..	4,694,019	707,957	20,600	338,200	92,700	130,600	223,810
5	Average, land and buildings, per farm....dollars..	8,108.52	9,303.17	8,300.00	38,208.12	19,855.00	14,566.06	32,358.46
6	per acre in farms....dollars..	138.33	35.55	24.70	4.04	17.44	21.68	8.33
7	Buildings, irrigated farms reporting value....number...	2,028	165	16	77	16	47	10
8	Total reported....dollars..	4,285,547	260,425	22,650	191,075	46,350	87,010	25,550
9	Average, per irrigated farm reporting....dollars..	2,113.19	1,578.33	1,415.62	2,481.49	2,896.88	1,851.28	2,555.00
10	per acre on all irrigated farms....dollars..	17.86	5.96	4.21	0.24	2.55	2.76	0.51
11	Buildings, nonirrigated farms reporting value....number...	1,814	1,287	769	51	146	98	1,227
12	Total reported....dollars..	643,353	1,408,072	1,063,640	89,355	247,330	233,688	1,391,227
13	Average, per nonirrigated farm reporting....dollars..	354.66	1,094.07	1,383.15	1,752.06	1,694.04	2,384.57	1,136.29
14	per acre on all nonirrigated farms....dollars..	1.44	3.09	2.19	0.08	0.66	0.29	3.67
15	Implements and machinery, irrigated farms reporting value..number...	2,591	159	15	78	16	38	12
16	Total reported....dollars..	2,207,995	204,902	13,050	198,500	31,925	28,975	44,875
17	Average, per irrigated farm reporting....dollars..	852.18	1,288.69	870.00	2,544.87	1,995.31	762.50	3,739.58
18	per acre, on all irrigated farms....dollars..	9.20	4.69	2.43	0.25	1.75	0.92	0.89
19	Implements and machinery, nonirrigated farms reporting value....number...	770	1,215	697	49	139	94	1,130
20	Total reported....dollars..	414,903	1,453,408	621,115	52,680	246,082	69,132	584,903
21	Average, per acre, on all nonirrigated farms....dollars..	0.93	3.19	1.28	0.05	0.66	0.09	1.54
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	67	38	4	27	4	18	11
23	1930...number....	17	....	....	9	....	15	9
24	1920...number....	9	....	....	....	....	15	44
25	Average size of enterprise based on irrigable area....1940...acres....	4,652	122	13	912	5	267	461
26	1930...acres....	18,098	....	....	2,032	....	129	443
27	1920[2]..acres....	47,171	....	....	....	....	161	195
28	Diversion dams....1940...number....	3	....	....	3	....	3	8
29	Main canals and laterals....1940...length, miles....	1,234.8	3.0	....	61.4	....	21.5	18.1
30	1930...length, miles....	1,166	....	....	39	....	8	1
31	1920...length, miles....	906	....	....	....	....	37	16
32	1940...capacity, c.f.s.[3]....	3,230	....	....	274	....	55	72
33	1930...capacity, c.f.s.[3]....	3,702	....	....	204	....	17	2
34	1920...capacity, c.f.s.[3]....	3,191	....	....	....	....	59	315
35	Pipe lines[4]....1940...length, miles....	444.5	....	0.2	4.1	0.4	1.6	1.4
36	Storage dams....1940...number....	3	1	4	....	....	1	....
37	Reservoirs....1940...number....	13	1	4	....	....	1	....
38	1930...number....	8	....	....	....	....	....	....
39	1920...number....	3	....	....	....	....	1	....
40	1940...capacity, acre-feet..	36,502	(1)	100	....	....	(1)	....
41	1930...capacity, acre-feet..	6,335	....	....	....	....	....	....
42	1920...capacity, acre-feet..	3,400	....	....	....	....	....	....
43	Wells, flowing....1940...number....	....	....	....	....	....	....	....
44	1930...number....	....	....	....	....	....	....	....
45	1920...number....	....	....	....	....	....	....	....
46	1940...yield, g.p.m....	....	....	....	....	....	....	....
47	1930...yield, g.p.m....	....	....	....	....	....	....	....
48	1920...yield, g.p.m....	....	....	....	....	....	....	....
49	Wells, pumped....1940...number....	42	42	7	19	3	....	8
50	1930...number....	4	....	....	....	....	3	8
51	1920...number....	....	....	....	....	....	1	48
52	1940...yield, g.p.m....	29,328	34,375	164	32,144	11	....	14,950
53	1930...yield, g.p.m....	3,480	....	....	....	....	1,813	14,550
54	1920...yield, g.p.m....	....	....	....	....	....	1,500	40,600
55	Pumping plants....1940...number....	195	42	7	29	4	16	14
56	1930...number....	31	....	....	12	....	14	9
57	1920...number....	10	....	....	....	....	12	44
58	Prime movers....1940...capacity, hp....	23,190	2,052	15	454	4	185	975
59	1930...capacity, hp....	23,138	....	....	222	....	162	725
60	1920...capacity, hp....	11,110	....	....	....	....	181	1,868
61	Pumps....1940...capacity, g.p.m....	2,598,966	34,375	164	55,919	15	15,900	36,200
62	1930...capacity, g.p.m....	1,833,980	....	....	22,025	....	12,338	26,450
63	1920...capacity, g.p.m....	1,366,576	....	....	....	....	17,800	54,160
64	Pumping lift, from all sources....1940...average, feet....	25	110	25	28	156	16	57
65	1930...average, feet....	22	....	....	10	....	19	24
66	1920...average, feet....	21	....	....	....	....	19	58
67	from pumped wells....1940...average, feet....	30	112	25	40	156	....	58
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll....number...	10	....	....	1	....	1	....
69	Irrigated area in these enterprises....acres....	191,380	....	....	(1)	....	(1)	....
70	Wages and salaries paid and payable....dollars..	444,687	....	....	(1)	....	(1)	....
71	Persons employed during week ending April 29....number...	497	....	....	(1)	....	....	....

* Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Jeff Davis	Jefferson	Jim Wells	Kendall	Kerr	Kimble	Kinney	Lamb	La Salle	Liberty	Llano	Lubbock	Lynn	McCulloch	
10,132,526	13,527,944	12,809,927	7,028,365	12,530,320	9,415,726	6,820,532	20,508,490	6,800,225	6,174,430	8,968,565	22,494,911	14,909,564	14,342,272	1
5,119,239	4,997,200	169,700	1,397,220	2,554,470	1,029,957	892,652	7,210,209	1,540,396	763,895	2,875,159	7,708,526	1,292,640	67.100	2
4,887,064	3,032,951	154,700	1,201,360	2,376,870	817,724	870,332	5,796,354	1,449,233	606,380	2,474,924	4,882,917	791,630	(1)	3
262,175	1,964,249	15,000	192,860	177,600	212,233	22,320	1,413,855	91,163	157,515	400,235	2,825,609	501,010	(1)	4
122,600.93	23,461.03	8,485.00	11,741.34	22,605.93	12,715.52	59,510.13	14,420.42	29,064.08	12,320.89	15,973.11	12,513.84	12,080.75	16,775.00	5
6.27	21.37	34.29	20.37	17.80	14.76	9.96	34.32	13.83	21.25	17.61	45.41	31.82	27.82	6
42	179	20	119	113	81	15	493	51	49	178	607	105	1	7
165,110	385,164	31,550	399,650	497,416	159,550	43,950	718,368	162,028	128,864	344,300	1,201,063	200,575	8,550	8
3,931.19	2,151.75	1,577.50	3,358.40	4,401.91	1,969.75	2,930.00	1,457.14	3,177.02	2,629.88	1,934.27	1,978.69	1,910.24	2,137.50	9
0.20	1.65	6.38	5.83	3.47	2.29	0.49	3.42	1.45	3.59	2.11	7.08	4.94	3.54	10
56	2,138	1,172	612	604	349	106	1,610	371	1,842	463	1,480	1,292	1,065	11
236,675	3,486,044	1,306,655	1,289,679	1,717,716	843,481	264,940	1,905,755	378,979	1,348,929	633,215	2,438,481	1,853,886	1,631,890	12
4,226.34	1,630.52	1,114.89	2,107.32	2,843.90	2,416.85	2,499.43	1,183.70	1,021.51	732.32	1,367.68	1,647.62	1,434.90	1,532.29	13
0.29	41.60	2.67	4.27	2.69	1.41	0.43	4.67	0.64	6.32	1.74	7.19	3.98	2.66	14
35	198	20	117	108	79	13	474	51	54	177	576	99	3	15
37,930	684,637	22,400	85,608	104,205	55,107	17,082	618,606	106,917	218,986	83,253	935,706	153,766	3,650	16
1,083.71	3,457.76	1,120.00	731.69	964.86	697.56	1,314.00	1,305.08	2,096.41	4,055.30	470.36	1,624.49	1,553.19	1,216.67	17
0.05	2.93	4.53	1.25	0.73	0.79	0.19	2.94	0.96	6.09	0.51	5.51	3.78	1.51	18
48	1,383	1,175	589	541	336	99	1,510	367	1,457	453	1,350	1,234	969	19
44,105	629,691	1,100,910	299,436	358,824	193,919	89,625	1,618,800	206,539	396,161	169,258	1,748,712	1,792,544	977,645	20
0.05	7.51	2.25	0.99	0.56	0.33	0.15	3.97	0.35	1.86	0.47	5.15	3.85	1.60	21
39	30	26	36	49	28	13	158	55	6	40	171	25	3	22
17	23	31	1	42	7	1	3	39	2	1	1	.....	15	23
12	18	.....	.....	.....	.....	.....	.....	38	2	.....	.....	.....	.....	24
34	4,278	24	5	18	21	101	168	88	13,117	5	145	14	8	25
23	6,383	.....	.....	17	.....	.....	.....	82	17,500	.....	.....	.....	.....	26
170	9,667	.....	.....	.....	.....	.....	.....	173	12,000	.....	.....	.....	.....	27
27	.....	.....	2	4	.....	2	.....	1	.....	2	.....	1	.....	28
6.0	325.6	.....	.....	4.0	2.1	14.2	.....	.....	141.4	.....	.....	1.0	.....	29
3	284	.....	.....	2	.....	.....	.....	.....	60	.....	.....	.....	.....	30
3	146	.....	.....	.....	.....	.....	.....	2	58	.....	.....	.....	.....	31
45	2,137	.....	13	30	34	1,820	.....	65	907	10	1	.....	.....	32
3	1,954	.....	.....	2	.....	.....	.....	.....	2,253	.....	.....	.....	.....	33
10	1,936	.....	.....	.....	.....	.....	.....	3	157	.....	.....	.....	.....	34
1.5	.....	.....	14.3	12.4	2.4	0.1	0.1	11.6	2.5	6.7	4.4	0.1	.....	35
.....	.....	.....	.....	.....	.....	.....	.....	6	1	1	.....	2	.....	36
13	.....	11	6	.....	.....	.....	3	21	7	6	8	4	.....	37
.....	.....	.....	.....	2	.....	.....	.....	17	.....	.....	.....	.....	.....	38
8	1	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	39
10	.....	9	32	.....	.....	.....	5	2,051	1,201	4,002	27	14	.....	40
.....	.....	.....	.....	3	.....	.....	.....	77	.....	.....	.....	.....	.....	41
.....	500	.....	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	.....	42
.....	.....	.....	1	.....	.....	.....	.....	5	.....	.....	.....	.....	2	43
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	45
.....	.....	.....	(1)	.....	.....	.....	.....	4,070	.....	.....	.....	.....	(1)	46
.....	.....	.....	.....	.....	.....	.....	.....	1,410	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	.....	48
19	2	27	22	17	3	1	171	20	2	34	191	27	1	49
14	1	.....	.....	13	.....	.....	.....	16	.....	.....	.....	.....	.....	50
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
805	(1)	4,455	423	729	1,054	(1)	167,990	3,469	(1)	142	154,122	4,040	(1)	52
1,765	2,000	.....	.....	618	.....	.....	.....	2,030	.....	.....	.....	.....	.....	53
3,180	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
21	53	27	44	47	22	1	173	58	22	44	197	28	1	55
14	26	.....	.....	37	.....	.....	.....	50	3	.....	.....	.....	.....	56
11	19	.....	.....	.....	.....	.....	.....	43	3	.....	.....	.....	.....	57
51	8,666	187	237	400	229	(1)	9,464	743	7,385	63	8,646	170	(1)	58
71	4,028	.....	.....	333	.....	.....	.....	757	2,074	.....	.....	.....	.....	59
148	6,770	.....	.....	.....	.....	.....	.....	1,184	3,000	.....	.....	.....	.....	60
980	1,002,180	4,358	4,010	11,082	15,230	(1)	174,906	32,723	389,000	175	158,764	4,007	(1)	61
2,290	531,700	.....	.....	11,453	.....	.....	.....	24,205	314,000	.....	.....	.....	.....	62
4,450	2,039,600	.....	.....	.....	.....	.....	.....	45,250	135,000	.....	.....	.....	.....	63
51	13	53	82	58	28	(1)	98	46	44	58	96	70	(1)	64
27	13	.....	.....	35	.....	.....	.....	51	39	.....	.....	.....	.....	65
70	15	.....	.....	.....	.....	.....	.....	23	56	.....	.....	.....	.....	66
57	(1)	53	116	109	37	(1)	98	67	(1)	57	97	70	(1)	67
1	4	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	68
(1)	32,269	.....	.....	.....	.....	.....	.....	.....	18,716	.....	.....	.....	.....	69
(1)	90,077	.....	.....	.....	.....	.....	.....	.....	63,084	.....	.....	.....	.....	70
(1)	86	.....	.....	.....	.....	.....	.....	.....	50	.....	.....	.....	.....	71

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	McLennan	Martin	Mason	Matagorda	Maverick	Medina	Menard
	FARM VALUES, 1940[*]							
1	Land and buildings, all farms.....dollars..	25,580,021	7,652,857	10,975,973	11,377,970	4,111,389	14,784,721	11,808,156
2	Land and buildings, irrigated farms.....dollars..	254,930	312,465	1,552,989	1,635,299	1,519,900	2,114,207	2,929,840
	Operated by—							
3	(a) Owners and managers.....dollars..	206,950	202,745	1,389,464	1,156,691	1,270,525	1,586,932	2,748,400
4	(b) Tenants.....dollars..	47,980	109,720	163,525	478,608	249,375	527,275	181,440
5	Average, land and buildings, per farm.....dollars..	11,587.73	9,764.53	17,850.45	19,467.85	7,378.16	5,922.15	51,400.70
6	per acre in farms.....dollars..	103.38	21.54	19.99	20.97	18.84	34.53	17.06
7	Buildings, irrigated farms reporting value.....number...	22	32	86	76	192	345	56
8	Total reported.....dollars..	63,050	44,840	250,235	188,991	210,649	371,115	166,600
9	Average, per irrigated farm reporting.....dollars..	2,865.91	1,401.25	2,909.71	2,486.72	1,097.13	1,075.70	2,975.00
10	per acre on all irrigated farms.....dollars..	25.57	3.09	3.22	2.42	2.61	6.06	0.97
11	Buildings, nonirrigated farms reporting value.....number...	4,309	715	596	1,391	55	1,243	316
12	Total reported.....dollars..	5,216,024	809,101	1,113,537	1,081,868	106,690	1,947,484	691,155
13	Average, per nonirrigated farm reporting.....dollars..	1,210.50	1,131.61	1,868.35	777.76	1,939.82	1,566.76	2,187.20
14	per acre on all nonirrigated farms.....dollars..	9.26	2.06	2.13	2.42	0.31	2.73	1.28
15	Implements and machinery, irrigated farms reporting value..number...	21	28	83	74	156	345	56
16	Total reported.....dollars..	37,305	38,903	66,086	164,187	174,639	177,467	64,750
17	Average, per irrigated farm reporting.....dollars..	1,776.43	1,389.39	796.22	2,218.74	1,119.48	514.40	1,156.25
18	per acre, on all irrigated farms.....dollars..	15.13	2.68	0.85	2.11	2.17	2.90	0.38
19	Implements and machinery, nonirrigated farms reporting value.....number...	3,563	634	586	1,261	45	1,143	290
20	Total reported.....dollars..	2,004,319	757,029	347,529	681,113	70,597	645,303	241,946
21	Average, per acre, on all nonirrigated farms.....dollars..	3.56	1.93	0.66	1.52	0.21	0.91	0.45
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	13	5	11	6	6	9	21
23	1930...number.....	23	.....	.....	3	9	1	22
24	1920...number.....	.....	.....	.....	15	5	.....	55
25	Average size of enterprise based on irrigable area.....1940...acres.....	25	13	3	7,838	7,633	2,150	147
26	1930...acres.....	.....	.....	.....	18,653	449	4,600	176
27	1920[2]...acres.....	.....	.....	.....	10,992	1,303	.....	129
28	Diversion dams.....1940...number.....	.....	.....	.....	1	.....	1	2
29	Main canals and laterals.....1940...length, miles.....	.....	1.0	.....	312.0	194.5	169.0	20.3
30	1930...length, miles.....	.....	.....	.....	355	17	92	11
31	1920...length, miles.....	.....	.....	.....	216	37	.....	456
32	1940...capacity, c.f.s.[3].....	.....	.....	1	737	9	452	108
33	1930...capacity, c.f.s.[3].....	.....	.....	.....	695	532	600	40
34	1920...capacity, c.f.s.[3].....	.....	.....	.....	1,772	60	.....	254
35	Pipe lines[4].....1940...length, miles.....	1.8	0.8	0.5	.....	1.4	1.7	0.7
36	Storage dams.....1940...number.....	.....	2	1	1	2	1	.....
37	Reservoirs.....1940...number.....	.....	4	.....	1	1	2	.....
38	1930...number.....	.....	.....	.....	.....	.....	2	1
39	1920...number.....	.....	.....	.....	1	.....	.....	1
40	1940...capacity, acre-feet..	.....	4	.....	(1)	(1)	(1)	.....
41	1930...capacity, acre-feet..	.....	.....	.....	.....	.....	254,650	20
42	1920...capacity, acre-feet..	.....	.....	.....	3	.....	.....	100
43	Wells, flowing.....1940...number.....	.....	.....	7	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	2	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	142	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	120	.....	.....	.....
49	Wells, pumped.....1940...number.....	26	6	4	1	1	6	5
50	1930...number.....	.....	.....	.....	.....	.....	.....	2
51	1920...number.....	.....	.....	.....	8	.....	.....	3
52	1940...yield, g.p.m.....	5,945	814	14	(1)	(1)	2,850	270
53	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	2,470
54	1920...yield, g.p.m.....	.....	.....	.....	8,700	.....	.....	1,040
55	Pumping plants.....1940...number.....	25	7	4	11	5	9	20
56	1930...number.....	.....	.....	.....	3	10	.....	22
57	1920...number.....	.....	.....	.....	20	7	.....	50
58	Prime movers.....1940...capacity, hp.....	116	39	4	3,812	133	137	406
59	1930...capacity, hp.....	.....	.....	.....	3,100	455	.....	511
60	1920...capacity, hp.....	.....	.....	.....	4,676	540	.....	967
61	Pumps.....1940...capacity, g.p.m.....	6,195	814	14	325,720	5,120	3,910	19,882
62	1930...capacity, g.p.m.....	.....	.....	.....	241,800	24,050	.....	30,189
63	1920...capacity, g.p.m.....	.....	.....	.....	442,700	15,600	.....	30,095
64	Pumping lift, from all sources.....1940...average, feet.....	16	90	95	26	41	60	43
65	1930...average, feet.....	.....	.....	.....	36	52	.....	23
66	1920...average, feet.....	.....	.....	.....	26	50	.....	24
67	from pumped wells.....1940...average, feet.....	16	90	95	(1)	(1)	73	72
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]							
68	Enterprises reporting pay roll.....number...	.....	.....	.....	3	1	1	2
69	Irrigated area in these enterprises.....acres....	.....	.....	.....	31,179	(1)	(1)	(1)
70	Wages and salaries paid and payable.....dollars..	.....	.....	.....	51,615	(1)	(1)	(1)
71	Persons employed during week ending April 29.....number...	.....	.....	.....	41	(1)	(1)	(1)

[*] Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Midland	Mills	Moore	Oldham	Orange	Parmer	Pecos	Potter	Presidio	Randall	Real	Reeves	Roberts	Runnels	
7,862,002	7,247,927	3,638,808	7,785,918	3,169,042	10,207,758	16,045,175	6,026,569	10,407,912	12,339,520	3,876,334	5,548,054	5,447,617	18,534,859	1
2,124,070	315,376	600,462	231,700	600,575	1,345,992	2,181,290	1,321,357	1,905,595	918,911	484,087	1,912,928	47,670	369,575	2
1,491,965	241,576	318,962	(1)	330,925	948,264	1,630,230	1,223,882	1,566,705	747,106	397,598	1,297,225	47,670	320,825	3
632,105	73,800	281,500	(1)	269,650	397,728	551,060	97,475	338,890	171,805	86,489	615,703	.....	48,750	4
37,264.39	12,615.04	31,603.26	46,340.00	8,963.81	11,603.38	13,633.06	30,030.84	5,845.38	22,972.78	10,085.15	10,015.33	5,958.75	14,214.42	5
11.08	20.41	14.40	17.94	32.14	23.65	24.90	7.06	5.08	30.17	8.35	18.53	9.96	30.81	6
55	25	19	5	63	116	139	43	244	40	48	177	7	26	7
116,100	32,020	55,250	9,500	78,675	199,760	231,535	135,516	167,345	188,300	83,810	234,725	10,550	55,600	8
2,110.91	1,280.80	2,907.89	1,900.00	1,248.81	1,722.07	1,665.72	3,151.53	685.84	4,707.50	1,746.04	1,326.13	1,507.14	2,146.15	9
0.61	2.07	1.33	0.74	4.21	3.51	2.64	0.72	0.45	6.18	1.44	2.27	2.20	4.65	10
324	1,302	102	101	1,045	720	150	242	133	532	245	75	125	2,025	11
576,964	1,185,686	191,475	292,245	1,038,681	1,075,835	449,735	697,722	282,216	1,347,923	380,585	138,477	294,460	2,737,155	12
1,780.75	910.67	1,877.21	2,893.51	993.95	1,494.22	2,998.23	2,883.15	2,121.92	2,533.69	1,553.41	1,846.36	2,355.68	1,351.68	13
1.43	2.74	0.71	0.25	26.96	2.42	0.20	1.47	0.19	2.51	1.07	0.09	0.47	4.63	14
52	24	18	5	56	108	140	33	290	37	47	161	8	24	15
60,030	16,635	58,020	14,100	129,730	166,635	229,485	40,688	92,271	78,736	27,481	228,019	11,960	31,874	16
1,154.42	693.12	3,223.33	2,820.00	2,316.61	1,542.92	1,639.18	1,232.97	318.18	2,128.00	584.70	1,416.27	1,495.00	1,328.08	17
0.31	1.08	1.39	1.09	6.94	2.93	2.62	0.22	0.25	2.59	0.47	2.21	2.50	2.66	18
309	1,182	105	129	867	678	134	209	115	535	231	63	122	1,899	19
320,292	456,906	240,355	278,319	300,854	1,207,999	180,588	194,431	92,635	1,031,991	98,441	61,400	231,825	1,728,757	20
0.79	1.06	0.90	0.24	7.81	2.72	0.08	0.41	0.06	1.92	0.28	0.04	0.37	2.92	21
26	9	10	4	3	25	12	8	128	40	28	41	6	35	22
1	10	.....	1	2	.....	8	1	31	3	8	14	.....	40	23
.....	.....	.....	.....	.....	.....	16	.....	3	.....	19	28	.....	17	24
6	24	6	13	6,039	81	5,051	67	99	105	59	519	28	32	25
.....	46	.....	.....	.....	.....	5,616	.....	167	.....	115	1,297	.....	61	26
.....	.....	.....	.....	.....	.....	4,291	.....	850	.....	172	931	.....	90	27
1	.....	.....	.....	.....	.....	21	.....	52	2	18	5	.....	2	28
2.0	1.0	.....	.....	117.0	.....	257.0	5.0	97.0	.....	15.0	126.0	2.0	2.0	29
.....	1	.....	.....	.....	.....	126	.....	90	.....	10	156	.....	11	30
.....	.....	.....	.....	.....	.....	347	.....	18	.....	31	100	.....	6	31
1	8	1	3	259	.....	597	5	787	9	33	2,235	3	54	32
.....	1	.....	.....	.....	.....	434	.....	148	.....	12	215	.....	6	33
.....	.....	.....	.....	.....	.....	1,372	.....	28	.....	23	399	.....	22	34
0.5	1.3	5.0	.....	.....	0.1	0.1	0.3	0.6	0.9	0.9	.....	0.2	1.0	35
.....	2	5	.....	.....	3	2	.....	16	.....	1	4	1	7	36
.....	5	7	.....	.....	3	2	.....	15	1	1	5	1	6	37
.....	1	.....	.....	.....	.....	3	.....	.....	.....	.....	1	.....	1	38
.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	1	.....	5	39
.....	59	5	.....	.....	122	(1)	.....	8,213	(1)	(1)	306,455	(1)	217	40
.....	10	.....	.....	.....	.....	24,500	.....	.....	.....	.....	6,155	.....	60	41
.....	.....	.....	.....	.....	.....	56,000	.....	.....	.....	.....	6,155	.....	931	42
.....	.....	.....	.....	.....	.....	10	.....	3	.....	.....	12	.....	.....	43
.....	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	1	.....	.....	44
.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	5	.....	.....	45
.....	.....	.....	.....	.....	.....	5,400	.....	155	.....	.....	2,610	.....	.....	46
.....	.....	.....	.....	.....	.....	13,500	.....	.....	.....	.....	1,500	.....	.....	47
.....	.....	.....	.....	.....	.....	7,200	.....	.....	.....	.....	1,850	.....	.....	48
29	.....	15	1	1	25	2	9	20	37	7	26	7	4	49
.....	.....	.....	.....	.....	.....	1	.....	3	.....	.....	7	.....	.....	50
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	22	.....	.....	51
250	.....	70	(1)	(1)	5,782	(1)	782	10,700	22,968	1,225	17,703	1,590	105	52
.....	.....	.....	.....	.....	.....	10	.....	2,300	.....	.....	8,400	.....	.....	53
.....	.....	.....	.....	.....	.....	1,200	.....	.....	.....	.....	16,465	.....	.....	54
34	6	17	2	5	27	2	7	68	44	8	28	6	36	55
.....	23	.....	.....	.....	.....	2	.....	27	.....	3	9	.....	40	56
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	17	.....	16	57
38	58	16	(1)	1,610	468	(1)	76	1,190	1,475	37	737	48	464	58
.....	192	.....	.....	.....	.....	15	.....	402	.....	20	258	.....	781	59
.....	.....	.....	.....	.....	.....	20	.....	.....	.....	3	459	.....	262	60
390	2,085	195	(1)	48,689	5,932	(1)	826	95,300	28,820	1,070	20,953	1,570	27,455	61
.....	7,400	.....	.....	.....	.....	510	.....	37,880	.....	1,109	11,200	.....	52,230	62
.....	.....	.....	.....	.....	.....	1,200	.....	.....	.....	250	18,065	.....	9,850	63
53	30	154	(1)	4	125	(1)	108	23	108	33	39	33	24	64
.....	47	.....	.....	.....	.....	138	.....	14	.....	32	39	.....	24	65
.....	.....	.....	.....	.....	.....	42	.....	.....	.....	40	41	.....	29	66
53	.....	169	(1)	(1)	125	(1)	108	36	126	36	41	33	36	67
.....	.....	.....	.....	1	.....	5	.....	9	.....	.....	4	.....	.....	68
.....	.....	.....	.....	(1)	.....	15,547	.....	4,111	.....	.....	13,934	.....	.....	69
.....	.....	.....	.....	(1)	.....	16,165	.....	3,194	.....	.....	9,353	.....	.....	70
.....	.....	.....	.....	(1)	.....	28	.....	29	.....	.....	29	.....	.....	71

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	San Saba	Scurry	Shackelford	Stephens	Sterling	Swisher	Tarrant	Taylor
	FARM VALUES, 1940[6]								
1	Land and buildings, all farms....dollars..	12,264,321	10,172,376	7,599,149	5,839,905	5,837,077	12,241,625	29,241,088	12,518,941
2	Land and buildings, irrigated farms....dollars..	2,043,960	853,345	20,760	22,600	30,990	6,831,132	372,100	420,325
	Operated by—								
3	(a) Owners and managers....dollars..	1,772,360	580,725	(2)	12,500	(2)	4,786,512	333,350	385,915
4	(b) Tenants....dollars..	271,600	272,620	(2)	10,100	(2)	2,044,620	38,750	34,410
5	Average, land and buildings, per farm....dollars..	25,872.91	6,416.13	4,152.00	3,228.57	5,165.00	13,036.51	10,944.12	28,021.67
6	per acre in farms....dollars..	21.26	20.74	18.19	13.64	33.65	24.54	190.33	21.24
7	Buildings, irrigated farms reporting value....number...	78	131	5	7	6	509	33	15
8	Total reported....dollars..	169,162	170,100	5,300	4,800	8,100	1,068,325	119,970	53,175
9	Average, per irrigated farm reporting....dollars..	2,168.74	1,298.47	1,060.00	685.71	1,350.00	2,098.87	3,635.45	3,545.00
10	per acre on all irrigated farms....dollars..	1.76	4.13	4.65	2.90	8.79	3.84	61.37	2.69
11	Buildings, nonirrigated farms reporting value....number...	1,137	1,259	446	732	103	435	3,535	1,801
12	Total reported....dollars..	1,248,503	1,497,109	721,881	744,240	338,448	651,450	6,821,275	2,110,202
13	Average, per nonirrigated farm reporting....dollars..	1,098.07	1,189.13	1,618.57	1,016.72	3,285.90	1,497.59	1,929.64	1,171.68
14	per acre on all nonirrigated farms....dollars..	2.25	2.82	1.29	1.26	0.61	2.29	14.95	4.33
15	Implements and machinery, irrigated farms reporting value..number...	74	126	4	7	3	473	30	14
16	Total reported....dollars..	58,848	103,185	750	4,525	3,050	778,781	26,765	24,622
17	Average, per irrigated farm reporting....dollars..	795.24	818.93	187.50	646.43	1,016.67	1,646.47	892.17	1,758.71
18	per acre, on all irrigated farms....dollars..	0.61	2.51	0.66	2.73	3.31	2.80	13.69	1.24
19	Implements and machinery, nonirrigated farms reporting value....number...	975	1,024	387	629	60	347	2,888	1,519
20	Total reported....dollars..	463,105	802,689	301,421	487,748	62,345	472,484	1,624,409	1,013,829
21	Average, per acre, on all nonirrigated farms....dollars..	0.84	1.51	0.54	0.83	0.11	1.66	3.56	2.08
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	28	4	4	5	6	233	28	4
23	1930...number....	86	1	1	8	10	7	32	5
24	1920...number....	31	....	....	....	....	....	....	....
25	Average size of enterprise based on irrigable area....1940...acres....	74	18	50	34	18	264	23	333
26	1930...acres....	51	....	....	....	....	173	....	....
27	1920[3]..acres....	77	....	....	....	....	....	....	....
28	Diversion dams....1940...number....	2	....	....	....	1	....	....	10
29	Main canals and laterals....1940...length, miles....	10.8	4.0	....	....	....	....	....	1.0
30	1930...length, miles....	1	....	....	....	....	....	....	....
31	1920...length, miles....	13	....	....	....	....	....	....	....
32	1940...capacity, c.f.s.[4]....	47	4	6	5	4	....	36	1
33	1930...capacity, c.f.s.[4]....	7	....	....	....	....	....	....	....
34	1920...capacity, c.f.s.[4]....	30	....	....	....	....	....	....	....
35	Pipe lines[5]....1940...length, miles....	1.6	....	....	0.4	1.4	0.9	28.9	1.0
36	Storage dams....1940...number....	2	1	....	2	....	....	....	6
37	Reservoirs....1940...number....	2	3	....	2	....	11	....	7
38	1930...number....	....	....	....	....	....	....	....	....
39	1920...number....	....	....	....	....	....	....	....	....
40	1940...capacity, acre-feet..	(2)	4	....	(2)	....	35	....	103
41	1930...capacity, acre-feet..	....	....	....	....	....	....	....	....
42	1920...capacity, acre-feet..	....	....	....	....	....	....	....	....
43	Wells, flowing....1940...number....	....	....	....	....	....	....	....	....
44	1930...number....	....	....	....	....	....	....	....	....
45	1920...number....	....	....	....	....	....	....	....	....
46	1940...yield, g.p.m....	....	....	....	....	....	....	....	....
47	1930...yield, g.p.m....	....	....	....	....	....	....	....	....
48	1920...yield, g.p.m....	....	....	....	....	....	....	....	....
49	Wells, pumped....1940...number....	....	2	....	....	3	247	24	1
50	1930...number....	1	....	....	....	....	7	....	....
51	1920...number....	....	....	....	....	....	....	....	....
52	1940...yield, g.p.m....	....	(2)	....	....	550	221,397	4,065	(2)
53	1930...yield, g.p.m....	200	....	....	....	....	8,900	....	....
54	1920...yield, g.p.m....	....	....	....	....	....	....	....	....
55	Pumping plants....1940...number....	19	3	3	1	6	263	39	1
56	1930...number....	83	....	....	....	....	7	....	....
57	1920...number....	32	....	....	....	....	....	....	....
58	Prime movers....1940...capacity, hp....	285	41	48	(2)	30	12,456	519	(2)
59	1930...capacity, hp....	1,459	....	....	....	....	430	....	....
60	1920...capacity, hp....	616	....	....	....	....	....	....	....
61	Pumps....1940...capacity, g.p.m....	15,890	2,070	2,600	(2)	1,300	232,849	17,590	(2)
62	1930...capacity, g.p.m....	84,956	....	....	....	....	8,900	....	....
63	1920...capacity, g.p.m....	16,570	....	....	....	....	....	....	....
64	Pumping lift, from all sources....1940...average, feet....	29	33	32	(2)	15	97	23	(2)
65	1930...average, feet....	37	....	....	....	....	100	....	....
66	1920...average, feet....	40	....	....	....	....	....	....	....
67	from pumped wells....1940...average, feet....	....	(2)	....	....	16	97	18	(2)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	....	....	....	....	....	....	....	....
69	Irrigated area in these enterprises....acres....	....	....	....	....	....	....	....	....
70	Wages and salaries paid and payable....dollars..	....	....	....	....	....	....	....	....
71	Persons employed during week ending April 29....number...	....	....	....	....	....	....	....	....

[6] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Terrell	Terry	Tom Green	Uvalde	Val Verde	Waller	Ward	Webb	Wharton	Wilbarger	Wilson	Zapata	Zavala	All other counties[1]	
9,930,121	9,383,585	24,909,070	15,758,873	19,043,098	5,687,530	2,339,896	12,735,827	24,099,863	20,708,576	9,126,996	1,994,855	8,876,181	1,349,673,189	1
189,512	48,940	3,205,253	1,691,173	7,735,501	176,595	1,244,687	3,077,560	2,460,194	73,620	134,720	102,638	2,617,411	21,799,190	2
(2)	48,940	2,255,683	1,547,143	5,919,987	131,155	946,527	2,732,105	1,533,987	31,150	(2)	68,713	2,281,591	18,829,736	3
(2)	.....	949,570	144,030	1,815,514	45,440	298,160	345,455	926,207	42,470	(2)	33,925	335,820	2,969,454	4
63,170.67	6,991.43	14,120.06	31,908.92	48,046.59	14,716.25	9,429.45	53,992.28	17,699.24	8,180.00	12,247.27	12,829.75	16,778.28	19,411.57	5
7.54	38.36	33.45	15.08	9.61	19.45	14.06	15.43	28.14	44.24	34.78	7.85	18.25	12.59	6
3	7	226	50	160	11	121	55	120	9	11	8	148	1,105	7
22,000	8,300	480,941	162,800	473,857	35,190	126,697	294,796	307,545	35,000	17,900	3,625	271,215	3,116,156	8
7,333.33	1,185.71	2,128.06	3,256.00	2,961.61	3,199.09	1,047.08	5,359.93	2,562.88	3,888.89	1,627.27	453.12	1,832.53	2,820.05	9
0.88	6.17	5.02	1.45	0.59	3.88	1.43	1.48	3.52	21.03	4.62	0.28	1.89	1.80	10
120	1,271	1,145	680	143	1,428	30	332	3,428	1,199	2,005	235	142	279,746	11
398,310	1,322,236	2,068,032	1,420,990	612,730	1,058,678	58,685	332,075	3,475,339	1,876,314	1,817,558	42,920	213,945	242,774,311	12
3,319.25	1,040.31	1,806.14	2,089.69	4,284.83	741.37	1,956.17	1,000.23	1,013.81	1,564.90	906.51	182.64	1,506.65	867.84	13
0.27	2.80	2.21	1.32	0.47	4.97	0.17	0.20	8.60	2.23	4.55	0.11	0.33	3.72	14
3	6	210	50	157	11	97	51	132	8	11	8	117	1,031	15
3,350	12,600	228,323	65,369	140,314	60,664	200,814	226,990	356,885	12,200	11,800	15,969	218,638	947,225	16
1,116.67	2,100.00	1,087.25	1,307.38	893.72	5,514.91	2,070.25	4,450.78	2,703.67	1,525.00	1,072.73	1,996.12	1,870.41	918.74	17
0.13	9.36	2.38	0.58	0.17	6.68	2.27	1.14	4.08	7.33	3.05	1.22	1.53	0.55	18
124	1,105	930	638	142	1,206	29	287	3,250	1,073	1,897	253	117	246,278	19
110,210	1,321,297	968,287	473,031	165,964	367,655	40,852	119,096	1,867,560	1,107,276	664,254	41,165	94,732	93,626,223	20
0.07	2.80	1.04	0.44	0.13	1.73	0.12	0.07	4.62	1.32	1.66	0.10	0.15	1.43	21
3	4	160	26	60	10	6	61	43	3	5	6	137	63	22
4	.....	136	22	2	5	3	80	68	1	1	1	83	182	23
.....	.....	50	5	.....	.....	3	58	138	.....	.....	.....	36	262	24
225	63	79	93	98	568	10,354	247	1,714	16	84	420	253	1,426	25
.....	.....	85	96	.....	219	23,098	324	1,611	.....	.....	.....	218	.....	26
.....	.....	294	406	.....	.....	23,833	547	548	.....	.....	.....	165	253	27
2	.....	23	3	6	.....	4	1	.....	.....	.....	.....	1	3	28
1.0	0.1	49.9	3.0	38.6	.....	91.0	4.8	137.0	.....	2.0	2.0	4.6	445.8	29
.....	.....	34	2	.....	.....	127	11	122	.....	.....	.....	.....	319	30
.....	.....	78	9	.....	.....	113	18	86	.....	.....	.....	20	314	31
3	.....	462	21	330	1	1,150	225	571	2	13	21	152	1,167	32
.....	.....	62	1	.....	.....	1,250	60	802	.....	.....	.....	.....	1,456	33
.....	.....	348	18	.....	.....	925	1,666	1,076	.....	.....	.....	35	1,439	34
.....	.....	7.0	1.8	7.4	.....	31.0	42.2	0.1	0.3	.....	0.7	2.1	33.4	35
.....	.....	21	.....	.....	.....	.....	11	.....	.....	1	.....	4	13	36
.....	.....	22	2	13	.....	.....	20	.....	.....	1	.....	72	14	37
.....	.....	24	4	.....	.....	.....	49	.....	.....	.....	.....	39	41	38
.....	.....	11	.....	.....	.....	.....	45	1	.....	.....	.....	18	39	39
.....	.....	1,601	(2)	12	.....	.....	2,176	.....	.....	(2)	.....	4,875	681,681	40
.....	.....	1,462	3	.....	.....	.....	2,562	.....	.....	.....	.....	1,486	603,036	41
.....	.....	6,750	.....	.....	.....	.....	20,248	100	.....	.....	.....	65	9,343	42
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	1	43
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	13	44
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	8	11	45
.....	.....	.....	.....	.....	.....	.....	(2)	.....	.....	(2)	.....	.....	(2)	46
.....	.....	.....	.....	.....	72	.....	.....	.....	.....	.....	.....	.....	1,255	47
.....	.....	.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000	8,159	48
.....	4	121	16	51	8	1	15	47	2	.....	.....	112	25	49
.....	.....	90	21	.....	4	.....	31	76	.....	.....	.....	100	197	50
.....	.....	7	1	.....	.....	.....	9	192	.....	.....	.....	37	76	51
.....	2,024	19,885	8,818	794	11,850	(2)	4,577	69,925	(2)	.....	.....	61,740	4,176	52
.....	.....	7,086	17,395	.....	4,600	.....	1,633	115,300	.....	.....	.....	51,925	33,383	53
.....	.....	632	50	.....	.....	.....	2,975	160,817	.....	.....	.....	7,942	15,513	54
.....	4	175	28	55	11	1	79	51	3	6	7	202	56	55
.....	.....	138	24	.....	4	.....	122	165	.....	.....	.....	103	269	56
.....	.....	48	2	.....	.....	.....	68	173	.....	.....	.....	37	235	57
.....	132	2,536	373	713	838	(2)	3,595	4,405	9	220	405	5,314	1,283	58
.....	.....	2,083	456	.....	181	.....	6,281	5,790	.....	.....	.....	3,697	4,038	59
.....	.....	1,105	20	.....	.....	.....	3,885	6,531	.....	.....	.....	809	5,918	60
.....	2,024	122,075	12,578	24,033	14,630	(2)	89,182	313,425	1,059	6,300	11,050	135,315	46,778	61
.....	.....	104,611	19,545	.....	4,600	.....	126,178	332,700	.....	.....	.....	65,885	174,055	62
.....	.....	57,020	410	.....	.....	.....	86,950	185,442	.....	.....	.....	20,692	329,418	63
.....	112	46	46	228	95	(2)	74	49	22	56	74	69	48	64
.....	.....	46	37	.....	117	.....	85	33	.....	.....	.....	101	29	65
.....	.....	29	38	.....	.....	.....	72	38	.....	.....	.....	91	36	66
.....	112	69	51	242	100	(2)	126	50	(2)	.....	.....	87	76	67
.....	.....	.....	.....	1	.....	4	.....	4	.....	.....	.....	2	6	68
.....	.....	.....	.....	(2)	.....	18,655	.....	16,797	.....	.....	.....	(2)	35,232	69
.....	.....	.....	.....	(2)	.....	20,081	.....	20,495	.....	.....	.....	(2)	146,555	70
.....	.....	.....	.....	(2)	.....	25	.....	22	.....	.....	.....	(2)	66	71

[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[8] 52,701,440	52,597,760	52,597,760	52,597,760	52,597,760	52,597,760	52,597,760
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	25,411	30,695	27,159	25,662	21,676	19,387	10,517
Land in all farms.....acres....	7,302,007	6,239,318	5,613,101	5,050,410	3,397,699	4,116,951	1,323,705
Farms irrigated: [1]							
Farms.....number...	22,612	24,332	23,847	22,218	19,709	17,924	9,724
Increase or decrease (-) over preceding census....percent..	[2] -5.2	.....	7.3	12.7	10.0	84.3	.....
Proportion of all farms.....percent..	89.0	79.3	87.8	86.6	90.9	92.5	92.5
Land in farms.....acres....	4,958,058	[3]	4,137,021	[3]	[3]	[3]	[3]
Proportion of all farm land.....percent..	67.9	[3]	73.7	[3]	[3]	[3]	[3]
Area irrigated.....acres....	[4] 911,135	[5] 583,183	[6] 917,139	[7]	[7]	629,293	263,473
Increase or decrease (-) over preceding census....percent..	[2] -0.7	.....	.....	.....	.....	138.8	.....
Proportion of total land area of State.....percent..	1.7	1.1	1.7	.....	.....	1.2	0.5
Proportion of all farm land.....percent..	12.5	9.3	16.3	.....	.....	15.3	19.9
Value of irrigated farms (land and buildings).....dollars..	137,529,004	[3]	199,983,735	[3]	[3]	[3]	[3]
Average per farm.....dollars..	6,082.12	[3]	8,386.12	[3]	[3]	[3]	[3]
Average per acre.....dollars..	27.74	[3]	48.34	[3]	[3]	[3]	[3]
Value of farm implements and machinery [8].....dollars..	10,761,346	[3]	12,274,514	[3]	[3]	[3]	[3]
Average per farm [8].....dollars..	475.91	[3]	514.72	[3]	[3]	[3]	[3]
Average per acre [8].....dollars..	2.17	[3]	2.97	[3]	[3]	[3]	[3]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	2,401	[3]	2,714	2,403	2,472	[3]	[3]
Farms irrigated.....number...	45,220	[3]	[3]	[3]	[3]	[3]	[3]
Area irrigated.....acres....	1,176,116	[3]	1,324,125	1,371,651	999,410	[3]	[3]
Area existing works were capable of supplying with water.....acres....	1,357,714	[3]	1,542,475	1,700,550	1,250,246	[3]	[3]
Area irrigable.....acres....	1,432,533	[3]	1,739,869	[9] 2,359,244	[9] 1,947,625	[3]	[3]
Additional area existing works were capable of supplying with water.....acres....	181,598	[3]	218,350	328,899	250,836	[3]	[3]
Additional irrigable area in enterprises not supplied with water.....acres....	256,417	[3]	415,744	[9] 987,593	[9] 948,215	[3]	[3]
Investment in irrigation enterprises.....dollars..	41,896,532	[3]	35,669,819	32,037,351	14,028,717	5,865,302	2,780,000
Increase or decrease (-) over preceding census.....percent..	[2] 17.5	[3]	11.3	128.4	139.2	111.0	.....
Average per acre based on area works were capable of supplying with water.....dollars..	30.86	[3]	23.13	18.84	11.22	[3]	[3]
Increase or decrease (-) over preceding census....percent..	[2] 33.4	[3]	22.8	67.9	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	43,380,966	[3]	37,857,011	33,835,641	17,840,775	[3]	[3]
Average per acre based on irrigable area in enterprises.....dollars..	30.28	[3]	21.76	[9] 14.34	[9] 9.16	[3]	[3]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	0.85	[3]	1.00	1.08	0.65	[3]	[3]

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 150,042 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [8] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated [1]		Total	Average per acre [2]	Total	Average per acre [2]	Total	Average per acre [2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	25,411	7,302,007	966,088	761,093	150,042	154,358,365	21.14	36,056,891	4.94	11,940,938	1.64
Owners and managers.....	22,035	6,757,650	843,412	655,342	133,675	137,156,954	20.30	32,898,798	4.87	10,653,200	1.58
Tenants.....	3,376	544,357	122,676	105,751	16,367	17,201,411	31.60	3,158,093	5.80	1,287,738	2.37
Irrigated farms, total.....	22,612	4,958,058	875,245	761,093	150,042	137,529,004	27.74	32,426,080	6.54	10,761,346	2.17
Owners and managers.....	19,583	4,647,567	761,402	655,342	133,675	122,156,713	26.28	29,547,594	6.36	9,576,504	2.06
Tenants.....	3,029	310,491	113,843	105,751	16,367	15,372,291	49.51	2,878,486	9.27	1,184,842	3.82
Wholly irrigated farms.....	18,875	3,749,682	654,912	654,912	127,562	107,249,801	28.60	25,826,934	6.89	8,372,976	2.23
Owners and managers.....	16,241	3,492,739	559,885	559,885	113,082	94,451,739	27.04	23,480,180	6.72	7,377,376	2.11
Tenants.....	2,634	256,943	95,027	95,027	14,480	12,798,062	49.81	2,346,754	9.13	995,600	3.87
Partly irrigated farms.....	3,737	1,208,376	220,333	106,181	22,480	30,279,203	25.06	6,599,146	5.46	2,388,370	1.98
Owners and managers.....	3,342	1,154,828	201,517	95,457	20,593	27,704,974	23.99	6,067,414	5.25	2,199,128	1.90
Tenants.....	395	53,548	18,816	10,724	1,887	2,574,229	48.07	531,732	9.93	189,242	3.53
Nonirrigated farms, total.....	2,799	2,343,949	90,843	.....	.....	16,829,361	7.18	3,630,811	1.55	1,179,592	0.50

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	2,401	1,432,533	1,357,714	1,176,116	1,324,125	1,371,651	-11.2	1,049,365	1,144,149	1,030,612	2.8	1.16	0.41
Primary sources:													
Streams, gravity	1,292	1,099,229	1,031,526	906,958	962,568	1,105,691	-5.8	795,745	884,340	784,457	2.5	0.89	0.36
Streams, pumped	64	18,232	15,939	13,445	63,809	10,389	-78.9	11,454	13,395	11,404	3.0	2.70	0.90
Streams, gravity and pumped	12	184,850	184,225	151,206	14,200	50	964.8	150,906	151,165	150,865	2.7	1.41	0.52
Wells, pumped	173	13,357	11,751	8,925	10,283	7,308	-13.2	8,925	8,109	8,109	3.4	3.71	1.09
Wells, flowing	263	7,707	7,488	6,706	8,974	4,908	-25.3	5,668	3,473	3,158	3.8	0.75	0.20
Wells, pumped and flowing	6	428	428	307	398	178	-22.9	296	307	296	3.9	2.06	0.53
Lakes, gravity	4	937	847	853	5,344	15,218	-84.0	831	785	785	2.2	1.50	0.68
Lakes, pumped	5	12,016	12,016	1,371	49,451	11,400	-97.2	671	1,371	671	4.2	4.97	1.18
Springs	325	40,870	39,598	35,898	49,593	41,310	-27.6	29,795	31,761	26,384	3.2	0.53	0.17
Springs and streams	29	10,153	10,143	9,491	.....	.....	.....	8,185	9,011	7,905	2.0	0.95	0.47
Stored storm water	9	897	896	803	3,030	977	-73.5	708	803	708	1.8	0.58	0.32
City water	.....	.....	.....	.....	26	25	.....	.....	.....	.....	.....	.....	.....
Sewage	3	302	302	297	10	.....	(2)	259	259	259	0.5	0.39	0.78
Streams, gravity; wells, pumped	10	8,944	8,844	8,271	20	125	(2)	8,271	8,267	8,267	1.6	1.14	0.70
Streams, gravity; wells, flowing	11	11,784	11,284	10,017	3,500	537	186.2	9,317	9,959	9,259	2.0	1.73	0.85
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	14	1,616	1,616	1,296	.....	.....	.....	1,296	1,246	1,246	5.4	1.33	0.25
Other mixed	34	21,211	20,811	20,272	150,671	173,495	-86.5	17,038	19,898	16,839	2.9	1.46	0.51
Other and not reported	.....	.....	.....	.....	2,248	40	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	81	399,750	367,247	320,369	.....	.....	.....	255,709	319,907	255,335	1.1	0.49	0.45
Streams, pumped	1	2,527	2,308	.....	75	.....	.....	.....	.....	.....	.....	.....	.....
Wells, pumped	41			1,943	816	.....	138.1	1,697	1,614	1,614	1.3	2.55	1.95
Wells, flowing	24	733	729	682	81	.....	742.0	641	302	266	3.7	0.78	0.21

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges; and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Percent not shown when more than 1,000. [3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	41,896,532	100.0	30.86	35,669,819	100.0	23.13	7.73	1,144,100	0.85	1,301,098	1.00	-0.15	1,122,456	1.08
Primary sources:														
Streams, gravity	19,726,011	47.1	19.12	24,181,708	67.8	21.54	-2.42	884,291	0.63	951,671	0.82	-0.19	910,594	1.01
Streams, pumped	834,571	2.0	52.36	4,355,987	12.2	66.70	-14.34	13,395	2.57	63,740	1.29	1.28	7,444	5.16
Streams, gravity and pumped	6,048,221	14.4	32.83	105,650	0.3	7.44	25.39	151,165	1.09	14,200	1.73	-0.64	.....	.....
Wells, pumped	345,889	0.8	29.43	418,916	1.2	34.64	-5.21	8,109	3.71	9,931	3.58	0.13	6,212	2.08
Wells, flowing	185,723	0.4	24.80	292,817	0.8	31.21	-6.41	3,473	0.85	5,823	1.64	-0.79	756	1.79
Wells, pumped and flowing	11,265	(3)	26.32	20,870	0.1	40.29	-13.97	307	2.56	368	3.49	-0.93	27	9.48
Lakes, gravity	8,651	(3)	10.21	41,044	0.1	5.23	4.98	785	1.29	5,344	0.48	0.81	13,877	0.25
Lakes, pumped	606,585	1.4	50.48	1,317,256	3.7	21.04	29.44	1,371	12.07	49,451	2.60	9.47	26,400	3.58
Springs	541,542	1.3	13.68	739,489	2.1	14.10	-0.42	31,761	0.50	46,591	0.65	-0.15	25,858	0.75
Springs and streams	88,667	0.2	8.74	.....	.....	.....	.....	9,011	0.78	.....	.....	.....	.....	.....
Stored storm water	12,810	(3)	14.30	523,300	1.5	147.62	-133.32	803	0.56	2,950	1.75	-1.19	857	2.23
City water	.....	.....	.....	100	(3)	3.85	.....	.....	.....	26	0.38	.....	.....	.....
Sewage	855	(3)	2.83	800	(3)	40.00	-37.17	259	0.39	.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	64,948	0.2	7.34	3,500	(3)	175.00	-167.66	8,267	0.81	20	19.00	-18.19	85	2.94
Streams, gravity; wells, flowing	386,750	0.9	34.27	130,000	0.4	26.00	8.27	9,959	1.45	3,500	1.43	0.02	203	0.49
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	25,219	0.1	15.61	.....	.....	.....	.....	1,246	1.11	.....	.....	.....	.....	.....
Other mixed	332,197	0.8	15.96	3,400,511	9.5	18.42	-2.46	19,898	1.26	145,642	1.32	-0.06	130,126	0.94
Other and not reported	.....	.....	.....	114,566	0.3	50.96	.....	.....	.....	1,841	4.09	.....	17	1.76
Supplemental sources:[4]														
Streams, gravity and/or storage	12,602,300	30.1	34.32	.....	.....	.....	.....	319,907	0.25	.....	.....	.....	.....	.....
Streams, pumped	57,574	0.1	24.95	1,505	(3)	12.75	0.32	.....	.....	15	5.60	.....	.....	.....
Wells, pumped				21,500	0.1	26.35		1,846	2.21	693	2.09	0.12	.....	.....
Wells, flowing	16,754	(3)	22.98	300	(3)	3.70	19.28	302	0.70	2	2.50	-1.80	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED					
Total	Acres 1,176,116	322,994	Acres 1,324,125	Acres 1,371,651	Percent -11.2
Individual and partnership	107,537	4,652	172,240	166,887	-37.6
Cooperative, incorporated	800,866	84,256	934,680	1,014,649	-8.2
Cooperative, unincorporated	57,328	56,901			
Irrigation district	23,394	8,000	8,125	21,143	187.9
Commercial	85,600	.....	[2] 99,834	[2] 86,911	14.3
Bureau of Reclamation[3] *	38,623	161,455	40,000	[4] 29,285	-3.4
Office of Indian Affairs[3]	58,594	.....	54,619	25,270	7.3
City and/or sewage	4,174	7,730	14,627	24,206	-71.5
Other	.....	.....	.....	3,300	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	1,357,714	370,284	1,542,475	1,700,550	-12.0
Individual and partnership	142,434	6,600	202,147	195,858	-29.5
Cooperative, incorporated	906,530	93,168	1,069,593	1,225,084	-9.4
Cooperative, unincorporated	62,091	61,765			
Irrigation district	24,894	8,000	8,100	24,023	207.3

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued					
Commercial	Acres 98,375	.....	Acres [2] 128,509	Acres [2] 126,833	Percent -23.4
Bureau of Reclamation[3] *	40,812	193,021	40,000	[4] 50,030	2.0
Office of Indian Affairs[3]	78,404	.....	79,474	49,870	-1.3
City and/or sewage	4,174	7,730	14,652	25,552	-71.5
Other	.....	.....	.....	3,300	.....
IRRIGABLE AREA[5]					
Total	1,432,533	403,010	1,739,869	2,359,244	-17.7
Individual and partnership	152,084	6,877	216,067	261,720	-29.6
Cooperative, incorporated	963,289	113,468	1,211,365	1,736,863	-15.2
Cooperative, unincorporated	63,457	67,354			
Irrigation district	29,193	8,000	18,872	27,933	54.7
Commercial	99,975	.....	[2] 157,139	[2] 185,933	-36.4
Bureau of Reclamation[3] *	40,812	199,581	42,130	[4] 60,030	-3.1
Office of Indian Affairs[3]	79,549	.....	79,644	55,870	-0.1
City and/or sewage	4,174	7,730	14,652	27,595	-71.5
Other	.....	.....	.....	3,300	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Includes 1 Carey Act enterprise. [3] U. S. Dept. of the Interior. [4] Does not include about 23,000 acres to which stored water was supplied under Warren Act. [5] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 571.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
Total	Number 2,401	Number 857	Acres 1,432,533	Acres 1,357,714	Dollars 19.93	Dollars 0.77	Dollars 33.85	Dollars 0.26
Individual and partnership	1,579	77	152,084	142,434	8.92	1.01	13.18	1.23
Cooperative, incorporated	618	603	963,289	906,530	17.95	0.73	8.80	0.29
Cooperative, unincorporated	164	141	63,457	62,091	7.19	0.30	19.35	0.12
Irrigation district	9	8	29,193	24,894	83.53	2.36	46.88	0.23
Commercial	11	11	99,975	98,375	26.66	0.66	.....	.....
U. S. Bureau of Reclamation *	7	7	40,812	40,812	72.64	0.35	50.43	0.26
U. S. Office of Indian Affairs	7	5	79,549	78,404	14.89	1.04	.....	.....
City and/or sewage	6	5	4,174	4,174	56.03	2.48	41.91	0.64
Other	.....	.....	.....	.....	.....	.....	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1]: Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
Total	Number 45,220	Acres 1,176,116	Acres 980,881	Acres 38,487	Acres 156,748
Individual and partnership	2,311	107,537	78,547	5,852	23,138
Cooperative, incorporated	34,062	800,866	688,449	29,997	82,420
Cooperative, unincorporated	2,060	57,328	47,419	575	9,334
Irrigation district	1,582	23,394	21,894	.....	1,500
Commercial	2,060	85,600	82,900	1,300	1,400
U. S. Bureau of Reclamation *	1,400	38,623	33,381	763	4,479
U. S. Office of Indian Affairs	1,013	58,594	24,452	.....	34,142
City and/or sewage	732	4,174	3,839	.....	335
Other	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. * For explanation of areas and investment, see text, p. 571.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930-40
Total	Dollars 41,896,532	Dollars 29,219,904	Dollars 12,676,628	Dollars 39,590,175	Dollars 2,306,357	Dollars 35,669,819	Dollars 32,037,351	Percent 17.5
Individual and partnership	1,428,479	1,338,791	89,688	1,357,374	71,105	3,482,497	2,736,804	59.0
Cooperative, incorporated	18,092,636	17,235,428	857,208	17,090,217	1,002,419	16,763,420	20,254,212	[1] 18.5
Cooperative, unincorporated	1,768,625	471,956	1,296,669	1,641,587	127,038			
Irrigation district	2,640,455	2,265,455	375,000	2,454,405	186,050	1,896,590	265,484	39.2
Commercial	3,541,088	3,541,088	.....	2,622,393	918,695	[2] 7,220,629	[2] 3,698,770	-51.0
U. S. Bureau of Reclamation *	12,698,755	2,964,692	9,734,063	12,698,755	.....	5,181,980	3,567,057	145.1
U. S. Office of Indian Affairs	1,167,594	1,167,594	.....	1,167,594	.....	927,202	765,354	25.9
City and/or sewage	558,900	234,900	324,000	557,850	1,050	197,501	729,090	183.0
Other	.....	.....	.....	.....	.....	.....	20,580	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	Dollars 21.52	Dollars 34.23	Dollars 237,969	Dollars 1,484,434
Individual and partnership	9.40	13.59	3,778	93,196
Cooperative, incorporated	19.01	9.20	144,609	536,350
Cooperative, unincorporated	7.60	20.99	1,477	12,075
Irrigation district	91.00	46.88	4,086	15,000
Commercial	36.00	.....	5,071	11,313
U. S. Bureau of Reclamation *	72.64	50.43	21,551	428,000
U. S. Office of Indian Affairs	14.89	.....	57,397	388,500
City and/or sewage	56.28	41.91	.....	.....
Other	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. [2] Includes 1 Carey Act enterprise. * For explanation of investment, see text, p. 571.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING					ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 155	*Acres* 754,924	*Acres* 709,144	*Dollars* 13,766,417	*Dollars* 7.53	*Dollars* 9.73	*Number* 16	*Dollars* 466,221	*Dollars* 476,698	*Dollars* 28.34	*Acres* 1,488,866	*Dollars* 1,221,591	*Dollars* 1,314,787
Partnership	2	[6]	[6]	[6]	[6]	[6]	.....	.....	.....	.....	16,051	8,864	3,113
Cooperative, incorporated	134	407,607	369,457	1,879,227	2.90	2.73	12	39,671	42,482	2.88	941,905	877,920	865,403
Cooperative, unincorporated	5	[6] 3,837	[6] 3,837	[6] 8,806	[6] 2.33	[6] 2.30	1	403,300	403,300	125.20	101,312	29,368	8,924
Irrigation district	4	23,943	23,943	489,042	30.50	30.50	2				34,029	67,291	66,215
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	87,100	90,262	97,143
Bureau of Reclamation[7] *	7	240,393	233,833	[8] 11,026,060	43.57	41.23	[9] 1	[8] 23,250	[8] 30,916	.....	222,463	74,547	227,652
Office of Indian Affairs[7]	3	79,144	78,074	[10] 363,282	4.88	4.65	.....	.....	.....	.....	73,936	58,741	36,659
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12,070	14,598	9,678
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $35.33. [4] Based on primary enterprises only; State average for supplemental enterprises is $35.70. [5] Based on primary enterprises only; State average for supplemental enterprises is $0.85. [6] Data for 2 "Partnership" enterprises are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] Data for less than 3 enterprises shown with permission of the enterprise involved. [10] Represents construction costs of irrigation works less cancellations and repayments. * For explanation of areas and investment, see text, p. 571.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises: Irrigated area reporting 1939	Primary enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 1,144,100	*Dollars* 881,814	*Acres* 322,055	*Dollars* 84,981	*Dollars* 0.77	*Dollars* 0.26	*Number* 666	*Dollars* 518,607	*Number* 2,689
Individual and partnership	93,543	94,130	3,794	4,678	1.01	1.23	34	1,680	14
Cooperative, incorporated	794,800	579,577	84,256	24,024	0.73	0.29	529	340,584	2,191
Cooperative, unincorporated	46,972	14,322	56,820	6,874	0.30	0.12	72	6,421	123
Irrigation district	22,784	53,778	8,000	1,859	2.36	0.23	7	20,196	59
Commercial	85,600	56,306	.....	.....	0.66	.....	10	36,628	108
U. S. Bureau of Reclamation *	38,623	13,673	161,455	42,587	0.35	0.26	7	41,334	31
U. S. Office of Indian Affairs	57,604	59,670	.....	.....	1.04	.....	[2] 2	60,758	154
City and/or sewage	4,174	10,358	7,730	4,959	2.48	0.64	5	11,006	9
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
* For explanation of areas and investment, see text, p. 571.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 1,973	*Number* 362	*Sec.-ft.* 34,579	*Miles* 8,742	*Miles* 262.5	438	*Ac.-ft.* 3,417,704	*Miles* 172.5	1,216	*G.p.m.* 83,838	286	*G.p.m.* 122,528	411	*Hp.* 14,216	409	*G.p.m.* 335,862
Individual and partnership	851	147	3,426	1,192	20.8	216	14,855	34.7	1,105	79,578	273	114,498	345	3,892	344	190,435
Cooperative, incorporated	861	166	23,586	5,357	135.5	167	1,118,759	118.3	89	2,270	12	7,130	49	5,724	49	564,127
Cooperative, unincorporated	169	13	1,556	395	3.5	20	248,022	4.4	22	1,990	1	900	2	40	2	3,150
Irrigation district	6	2	659	153	13.5	2	100,000	4.2	.....	.....	.....	.....	8	3,950	7	56,000
Commercial	35	6	1,791	641	1.1	6	1,464,700	1.1	.....	.....	.....	.....	5	350	5	13,600
Bureau of Reclamation[3]	7	20	1,332	89	87.1	19	470,760	6.5	.....	.....	.....	.....	1	250	1	6,750
Office of Indian Affairs[3]	28	2	2,043	811	.....	2	8	3.0	.....	.....	.....	.....	1	10	1	1,800
City and/or sewage	13	6	186	104	1.0	6	600	0.3	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	1,973	362	1,717	287	Earth and rock	778	313	.....	180
					Other and mixed	[1]363	5	[1]1,237	81
Concrete or masonry	611	39	314	19	Not reported	4	3	31	7
Timber	217	2	135	.....					

[1]Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	409	100.0	835,862	100.0	35
Electric motor	**286**	**69.9**	**706,585**	**84.5**	**40**
Centrifugal	196	47.9	237,339	28.4	32
Turbine	79	19.3	40,320	4.9	56
Plunger	3	0.7	345	(1)	18
Other	8	2.0	428,081	51.2	10
Internal-combustion engine	**95**	**23.2**	**83,516**	**10.0**	**23**
Centrifugal	72	17.6	66,545	8.0	19
Turbine	16	3.9	14,063	1.7	36
Plunger	3	0.7	170	(1)	40
Other	4	1.0	2,738	0.3	24
Other kinds of motive power	**11**	**2.7**	**36,251**	**4.3**	**41**
Centrifugal	6	1.5	22,200	2.6	38
Turbine	3	0.7	14,000	1.7	39
Plunger	2	0.5	51	(1)	51
Other	.....	.....	.....	.....	.....
Mixed kinds of motive power	**17**	**4.2**	**9,510**	**1.1**	**33**
Centrifugal	11	2.8	4,885	0.5	23
Turbine	4	1.0	3,850	0.5	52
Plunger	1	0.2	100	(1)	50
Other	1	0.2	675	0.1	20
Total, 1930	460	.....	877,942	.....	59
Increase or decrease (-) 1930-1940	-51	.....	-42,080	.....	-24

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	411	100.0	14,216	100.0
Centrifugal pump	**272**	**66.2**	**10,037**	**70.6**
Electric	195	47.4	8,651	60.8
Internal-combustion	73	17.8	1,104	7.8
Other	4	1.0	282	2.0
Turbine pump	**95**	**23.1**	**1,541**	**10.8**
Electric	78	19.0	1,127	7.9
Internal-combustion	15	3.6	374	2.6
Other	2	0.5	40	0.3
Plunger pump	**14**	**3.4**	**99**	**0.7**
Electric	4	1.0	25	0.2
Internal-combustion	7	1.7	63	0.4
Other	3	0.7	11	0.1
Other and mixed types of pumps	**30**	**7.3**	**2,539**	**17.9**
Electric	16	3.9	1,360	9.6
Internal-combustion	8	1.9	74	0.5
Other	6	1.5	1,105	7.8
Total, 1930	[2]429	.....	11,381	.....
Increase or decrease (-) 1930-1940	-18	.....	2,835	.....

[1]Less than one-tenth of 1 percent.

[2]Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]	
	Miles	*Miles*	*Percent*
Total	172.5	[3]159.0	8.5
Concrete:			
1 to 12 inches	17.8	9.0	97.8
13 to 24 inches	13.3	15.0	52.0
Over 24 inches	9.5		
Metal:			
1 to 12 inches	43.5	42.9	1.4
13 to 24 inches	11.4	6.3	173.0
Over 24 inches	5.8		
Wood-stave:			
1 to 12 inches	13.3	26.4	-49.6
13 to 24 inches	0.4	3.9	102.6
Over 24 inches	7.5		
Clay and other:			
1 to 12 inches	44.9	54.2	-17.2
13 to 24 inches	2.2	0.3	(4)
Over 24 inches	2.9		

[1]Includes siphons and farm pipe lines reported. [2]Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3]Includes 1 mile clay pipe not segregated by size. [4]Percent not shown when more than 1,000.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage...number..	201	226	143
Area irrigable in these enterprises...acres...	324,771	388,697	[1]503,212
Area irrigated in these enterprises...acres...	283,314	(2)	(2)
Area for which drains have been installed...acres...	90,657	68,656	85,448
Additional area needing drainage...acres...	28,418	88,338	91,976

ITEM	1940	1930	1920
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage...percent..	32.0	[3]17.7	[1]17.0
(b) All irrigation enterprises...percent..	7.7	5.2	6.2
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting...percent..	36.7	40.4	[1]35.3
(b) Irrigated area reporting...percent..	42.0	(2)	(2)

[1]For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2]Not available. [3]Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,734,088	3,248,945	3,554,233	2,076,273	1,416,475	2,708,931	657,815	1,832,470	845,302
Area irrigated by these enterprises.....acres.....	944,123	925,100	982,514	693,955	517,459	770,348	250,168	407,641	212,166
Average water per acre irrigated.....acre-feet..	2.9	3.5	3.6	3.0	2.7	3.5	2.6	4.5	4.0
Total water delivered to irrigators.....acre-feet..	2,584,915	430,873	1,718,769	1,044,884	329,441	729,360	1,540,031	101,432	989,409
Area irrigated by these enterprises.....acres.....	1,029,584	175,423	353,424	427,167	136,414	188,406	602,417	39,009	165,018
Average water per acre irrigated.....acre-feet..	2.5	2.4	4.9	2.4	2.4	3.9	2.6	2.6	6.0
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	69,310	.....	.....	7,265	.....	.....	62,045	.....	.....
Area irrigated by these enterprises.....acres.....	19,781	.....	.....	1,690	.....	.....	18,091	.....	.....
Average water per acre irrigated.....acre-feet..	3.5	.....	.....	4.3	.....	.....	3.4	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	298,190	.....	.....	269,046	.....	.....	29,144	.....	.....
Area irrigated by these enterprises.....acres.....	258,754	.....	.....	238,212	.....	.....	20,542	.....	.....
Average water per acre irrigated.....acre-feet..	1.2	.....	.....	1.1	.....	.....	1.4	.....	.....
Total water delivered to irrigators.....acre-feet..	274,066	.....	.....	146,302	.....	.....	127,764	.....	.....
Area irrigated by these enterprises.....acres.....	255,709	.....	.....	134,926	.....	.....	120,783	.....	.....
Average water per acre irrigated.....acre-feet..	1.1	.....	.....	1.1	.....	.....	1.1	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	4,599	.....	.....	.....	.....	.....	4,599	.....	.....
Area irrigated by these enterprises.....acres.....	2,338	.....	.....	.....	.....	.....	2,338	.....	.....
Average water per acre irrigated.....acre-feet..	2.0	.....	.....	.....	.....	.....	2.0	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	1,176,116	100.0	322,994	1,324,125	100.0	1,371,651	100.0
Appropriation[2]	544,846	46.3	189,684	554,933	41.8	764,736	55.7
Underground	9,056	0.8	1,572	19,608	1.5	8,631	0.6
Appropriation and underground	2,535	0.2	9	.....	.....	.....	.....
Adjudicated by court	614,499	52.3	131,389	650,811	49.2	581,080	42.4
Other mixed and not reported	5,180	0.4	140	98,773	7.5	17,202	1.3

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 38,623 acres irrigated in 1939 which were within the Strawberry Valley Project. Areas totaling 161,455 acres which were irrigated with supplemental supplies from the Strawberry Valley, Moon Lake, Ogden River, Salt Lake Basin (Weber River, Echo Dam), and Sanpete Projects, are reported as receiving primary supplies through other enterprises, principally water-user associations.

The investments attributed to the Bureau of Reclamation in State tables 7 and 17 relate to expenditures on the aboved named projects and reflect construction costs incurred by the Bureau of Reclamation. Excluded from the investment are expenditures by the Bureau of Reclamation on the Provo River Project which was under construction in 1939 to provide supplemental water for areas inadequately irrigated by present systems and a supplemental municipal water supply for Salt Lake City, Provo, and Orem, Utah.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	2,254	29	1,169	259	470	217	106	4
2	Irrigated farms, 1939.....number...	45,220	.....	1,169	679	5,335	10,116	24,146	3,775
3	Area irrigated, 1939.....acres....	1,176,116	.....	73,195	33,124	175,141	257,579	522,029	115,048
4	(a) From which crops were harvested.....acres....	980,881	.....	52,115	25,964	143,332	216,291	434,813	108,366
5	(b) On which crops failed.....acres....	38,487	.....	4,013	1,092	6,151	11,981	14,287	963
6	(c) Irrigated pasture.....acres....	156,748	.....	17,067	6,068	25,658	29,307	72,929	5,719
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	29,219,904	66,528	1,527,459	310,940	2,904,253	5,724,742	11,605,709	7,080,273
8	(a) Cost of irrigation works and equipment.....dollars..	27,054,537	62,670	1,498,459	299,568	2,723,023	5,268,561	11,043,560	6,158,696
9	(b) Investment in water rights.....dollars..	2,165,367	3,850	29,000	11,372	181,230	456,181	562,149	921,577
10	Area works were capable of supplying with water.....acres....	1,357,714	15,113	94,687	41,517	194,436	309,238	576,911	125,812
11	Average investment per acre irrigated.....dollars..	24.84	.....	20.87	9.39	16.55	22.23	21.62	49.50
12	Average investment per acre which the works could supply with water.....dollars..	21.52	4.40	16.13	7.49	14.91	18.51	19.61	46.03
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	1,850	9	862	230	430	210	105	4
14	(a) Area irrigated in these enterprises.....acres....	1,144,100	.....	63,080	30,209	164,535	254,798	516,430	115,048
15	(b) Cost of maintenance and operation.....dollars..	881,814	1,414	73,545	21,408	86,581	157,666	463,029	78,171
16	(c) Average cost per irrigated acre reporting.....dollars..	0.77	.....	1.17	0.71	0.53	0.62	0.87	0.55
17	Total annual charges[3].....dollars..	1,079,113	2,055	555	67	120,682	245,332	608,147	102,275
18	Average charge per irrigated acre reporting.....dollars..	1.02	.....	0.15	0.57	0.73	0.96	1.18	0.89
19	Area against which charges were assessed.....acres....	1,128,306	2,750	3,700	167	179,139	276,477	551,025	115,048
20	Average annual charge per acre assessed.....dollars..	0.93	0.75	0.15	0.40	0.67	0.89	1.10	0.71
21	Total charges collected[3].....dollars..	1,106,871	1,478	285	1,301	95,355	211,898	595,530	201,024
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4].....number...	136	2	.....	.....	40	55	36	3
23	(a) Area irrigated in these enterprises.....acres....	385,488	.....	.....	.....	16,610	74,190	231,065	63,623
24	(b) Indebtedness.....dollars..	4,329,234	(6)	.....	.....	54,612	262,610	1,371,928	2,639,684
25	(c) Average indebtedness per acre irrigated.....dollars..	10.46	.....	.....	.....	3.23	3.54	5.94	28.81
26	(d) Cost of irrigation works and equipment.....dollars..	12,368,460	(6)	.....	.....	465,647	2,137,721	5,619,155	4,132,337
27	(e) Investment in water rights.....dollars..	468,224	(6)	.....	.....	28,562	155,696	273,341	7,125
28	(f) Total investment.....dollars..	12,836,684	(6)	.....	.....	494,209	2,293,417	5,892,496	4,139,462
29	(g) Maintenance and operation.....dollars..	367,499	(6)	.....	.....	12,694	59,043	260,868	33,517
30	(h) Total annual charges[3].....dollars..	468,066	(6)	.....	.....	19,201	90,724	324,170	31,923
31	(i) Total charges collected[3].....dollars..	569,971	(6)	.....	.....	17,171	84,741	336,157	130,424
32	(j) Area against which annual charges were assessed.....acres....	419,819	(6)	.....	.....	18,966	82,463	252,617	63,623
33	(k) Average indebtedness per acre assessed.....dollars..	7.53	(6)	.....	.....	2.79	3.16	5.43	18.42
34	(l) Average charges per acre assessed.....dollars..	1.04	(6)	.....	.....	1.00	1.10	1.28	0.35
35	(m) Average charges per acre irrigated.....dollars..	1.22	.....	.....	.....	1.16	1.23	1.40	0.50
36	Enterprises reporting arrearage[4].....number...	12	1	.....	.....	3	7	1	.....
37	(a) Area assessed in these enterprises.....acres....	15,421	(6)	.....	.....	710	11,561	(6)	.....
38	(b) Total arrearage.....dollars..	437,871	(6)	.....	.....	3,233	34,388	(6)	.....
39	(c) Average arrearage per acre assessed.....dollars..	28.34	(6)	.....	.....	3.38	2.97	(6)	.....
40	(d) Indebtedness.....dollars..	452,618	(6)	.....	.....	3,233	49,085	(6)	.....
	TYPE, 1940								
41	Individual and partnership.....number...	1,480	25	1,153	230	72	.....	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	742	4	12	29	389	211	95	2
43	Irrigation district.....number...	8	.....	1	.....	.....	2	5	.....
44	Commercial.....number...	11	.....	.....	.....	5	2	3	1
45	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	.....	1
46	U. S. Office of Indian Affairs.....number...	7	.....	2	.....	3	1	1	.....
47	All other.....number...	5	.....	1	.....	1	1	2	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	625	2	1	1	311	202	104	4
49	Wages and salaries paid and payable for 1939.....dollars..	442,290	383			42,724	89,706	255,074	54,403
50	Persons employed during week ending April 29, 1939.....number...	2,572	3			487	963	1,009	110
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	1,292	13	446	177	378	191	84	3
52	Streams, pumped.....number...	64	1	39	13	6	2	3	.....
53	Wells, pumped.....number...	173	7	157	8	1	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	269	2	257	9	1	.....	.....	.....
55	Lakes, gravity or pumped.....number...	9	.....	4	1	2	1	1	.....
56	Streams and springs; or springs.....number...	354	4	224	42	67	13	4	.....
57	Mixed, streams and wells.....number...	33	.....	9	1	6	6	10	1
58	Other mixed or stored storm water.....number...	60	2	33	8	9	4	4	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	147	7	79	15	19	7	17	3
2	Irrigated farms, 1939.....number...	10,575	.....	79	35	271	405	5,172	4,613
3	Area irrigated, 1939.....acres....	322,994	.....	2,662	1,115	9,055	8,131	195,653	106,378
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	12,676,628	97,740	63,020	19,457	121,494	138,855	5,222,691	7,013,371
5	(a) Cost of irrigation works and equipment.....dollars..	12,535,638	96,731	62,304	19,007	110,954	134,580	5,098,691	7,013,371
6	(b) Investment in water rights.....dollars..	140,990	1,009	716	450	10,540	4,275	124,000	.....
7	Area works were capable of supplying with water.....acres....	370,284	5,675	3,058	2,492	11,175	9,443	229,287	109,154
8	Average investment per acre irrigated.....dollars..	39.25	.....	23.67	17.45	13.42	17.08	26.69	65.93
9	Average investment per acre which the works could supply with water.....dollars..	34.23	17.22	20.61	7.81	10.87	14.70	22.78	64.25

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
29	1,258	404	426	113	24	.....	1,830	217	165	40	[2] 2	1
.....	2,176	3,288	13,542	14,540	11,674	.....	9,673	7,535	15,543	9,694	2,775	2
.....	42,739	70,790	295,622	365,605	401,360	.....	257,668	167,414	366,963	294,023	90,048	3
.....	36,058	58,779	245,348	312,211	328,485	.....	210,079	136,128	316,069	234,599	84,006	4
.....	1,426	1,729	11,038	14,881	9,413	.....	7,396	4,377	18,825	6,926	963	5
.....	5,255	10,282	39,236	38,513	63,462	.....	40,193	26,909	32,069	52,498	5,079	6
66,528	997,352	1,155,921	7,063,604	6,654,303	13,282,196	.....	1,827,676	1,802,598	6,228,773	13,455,354	5,905,503	7
62,670	960,433	1,091,831	6,787,969	6,168,426	11,983,208	.....	1,658,886	1,710,821	5,891,002	12,802,777	4,991,051	8
3,858	36,919	64,090	275,635	485,877	1,298,988	.....	168,790	91,777	337,771	652,577	914,452	9
15,113	61,064	79,516	347,028	417,172	437,801	.....	295,903	193,746	411,671	355,582	100,812	10
.....	23.34	16.33	23.87	17.89	30.33	.....	7.09	10.75	16.69	40.71	65.58	11
4.40	16.33	14.54	20.34	15.71	28.00	.....	6.18	9.29	14.90	34.32	58.58	12
9	938	363	404	112	24	.....	1,443	204	161	40	[2] 2	13
.....	35,488	63,664	283,582	360,006	401,360	.....	234,485	165,180	360,364	294,023	90,048	14
1,414	63,432	53,235	215,011	229,571	319,151	.....	164,702	112,301	230,768	315,716	58,327	15
.....	1.79	0.84	0.76	0.63	0.73	.....	0.70	0.68	0.63	0.96	0.63	16
2,055	9,099	40,548	287,934	350,227	389,250	.....	120,906	141,365	355,814	377,003	84,025	17
.....	1.99	1.23	1.11	0.99	0.97	.....	0.77	0.89	1.00	1.29	0.93	18
2,750	6,388	37,114	282,329	377,130	422,595	.....	168,702	170,720	377,208	321,628	90,048	19
0.75	1.42	1.09	1.02	0.93	0.86	.....	0.72	0.83	0.94	1.08	0.93	20
1,478	7,849	33,044	280,220	313,907	470,373	.....	89,282	124,310	357,114	398,141	138,024	21
2	3	20	68	33	10	.....	28	37	51	19	[2] 1	22
228		4,025	59,825	109,664	211,746	.....	18,440	37,956	105,041	185,428	38,623	23
15,413		23,042	753,930	314,272	3,222,577	.....	16,532	121,914	445,925	2,061,999	1,682,864	24
67.60		5.72	12.54	2.87	13.44	.....	0.90	3.19	4.25	9.66	43.57	25
48,598		237,420	2,318,553	2,443,897	7,319,992	.....	76,051	325,454	2,114,894	6,887,369	2,964,692	26
3,500		9,270	82,252	195,827	177,375	.....	18,950	17,050	179,997	252,227	.....	27
52,098		246,690	2,400,805	2,639,724	7,497,367	.....	95,001	342,504	2,294,891	7,139,596	2,964,692	28
1,900		7,336	74,319	98,103	185,841	.....	10,658	41,037	84,791	217,340	13,673	29
2,795		11,277	110,682	141,575	201,737	.....	15,438	50,814	139,929	248,212	13,673	30
2,416		12,592	134,357	128,355	292,251	.....	13,360	43,956	170,685	274,546	67,424	31
2,378		5,293	65,395	117,972	228,781	.....	18,010	42,844	111,128	209,214	38,623	32
6.48		4.35	11.43	2.66	8.84	.....	0.79	2.81	4.01	4.68	43.57	33
1.18		2.13	1.68	1.20	0.79	.....	0.86	1.18	1.26	1.05	0.35	34
12.26		2.80	1.87	1.29	0.95	.....	0.87	1.34	1.33	1.34	0.35	35
1	.....	1	8	2	.....	.....	2	4	4	2	.....	36
[5]	.....	[5]	9,219	[5]	.....	.....	[5]	1,750	7,469	[5]	.....	37
[5]	.....	[5]	409,731	[5]	.....	.....	[5]	3,933	30,698	[5]	.....	38
[5]	.....	[5]	44.35	[5]	.....	.....	[5]	1.77	4.11	[5]	.....	39
[5]	.....	[5]	416,890	[5]	.....	.....	[5]	9,333	39,557	[5]	.....	40
25	1,167	228	59	1	.....	.....	1,446	30	4	.....	.....	41
4	84	173	358	105	18	.....	372	182	156	32	.....	42
.....	.....	.....	4	3	1	.....	2	1	2	3	.....	43
.....	.....	2	3	3	3	.....	3	2	3	2	1	44
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	45
.....	4	1	1	.....	1	.....	4	2	.....	1	.....	46
.....	3	.....	1	1	.....	.....	3	.....	.....	2	.....	47
2	54	128	308	109	24	.....	279	159	146	39	[2] 2	48
5,359		14,504	100,836	125,326	196,265	.....	45,836	55,959	130,300	169,604	40,591	49
43		163	1,193	705	468	.....	654	432	919	478	89	50
13	516	287	354	104	18	.....	948	166	148	29	1	51
1	40	14	8	1	.....	.....	55	5	2	2	.....	52
7	145	20	1	.....	.....	.....	163	8	2	.....	.....	53
2	255	12	.....	.....	.....	.....	268	1	.....	.....	.....	54
.....	5	.....	3	.....	1	.....	5	2	.....	2	.....	55
4	252	60	36	2	.....	.....	326	21	6	1	.....	56
.....	9	4	12	3	5	.....	16	7	4	5	1	57
2	36	7	12	3	.....	.....	49	7	3	1	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
7	88	13	18	13	7	[2] 1	113	10	14	7	3	1
.....	109	105	557	2,488	5,245	2,071	317	692	1,519	4,267	3,780	2
.....	2,531	2,381	12,803	48,616	169,679	86,984	9,982	11,708	32,869	128,787	139,648	3
97,740	78,637	30,796	149,803	1,611,400	8,022,381	2,685,871	110,458	89,399	645,519	3,593,516	8,237,736	4
96,731	77,504	30,603	136,298	1,586,250	7,922,381	2,685,871	99,328	86,896	618,162	3,493,516	8,237,736	5
1,009	1,133	193	13,505	25,150	100,000	.....	11,130	2,503	27,357	100,000	.....	6
5,675	3,463	2,402	17,033	51,558	200,669	89,484	13,860	12,088	39,585	139,078	165,673	7
.....	31.07	12.93	11.70	33.15	47.28	30.88	11.07	7.64	19.64	27.90	58.99	8
17.22	22.71	12.82	8.79	31.25	39.98	30.02	7.97	7.40	16.31	25.84	49.72	9

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	115	3	58	9	18	7	17	3
11	(a) Area irrigated in these enterprises.....acres....	322,055	.....	2,168	751	8,974	8,131	195,653	106,378
12	(b) Cost of maintenance and operation.....dollars..	84,981	3	4,254	373	3,950	2,759	43,363	30,279
13	(c) Average cost per irrigated acre reporting.....dollars..	0.26	.....	1.96	0.50	0.44	0.34	0.22	0.28
14	Total annual charges[3].....dollars..	142,478	5,240	.....	.....	4,238	6,635	101,286	25,079
15	Average charge per irrigated acre reporting.....dollars..	0.45	.....	.....	.....	0.48	0.82	0.50	0.25
16	Area against which charges were assessed.....acres....	360,560	17,465	.....	.....	9,042	9,443	219,077	105,533
17	Average annual charge per acre acre assessed.....dollars..	0.40	0.30	.....	.....	0.47	0.70	0.46	0.24
18	Total charges collected[3].....dollars..	207,916	1,697	.....	.....	4,159	11,255	69,314	121,491
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[4].....number...	19	1	.....	.....	3	4	9	[2] 2
20	(a) Area irrigated in these enterprises.....acres....	225,690	.....	.....	.....	1,850	5,500	119,692	98,648
21	(b) Indebtedness.....dollars..	9,437,183	(6)	.....	.....	[6] 64,739	5,050	2,982,686	6,384,708
22	(c) Average indebtedness per acre irrigated.....dollars..	41.81	.....	.....	.....	[6] 34.99	0.92	24.92	64.72
23	(d) Cost of irrigation works and equipment.....dollars..	10,628,099	(6)	.....	.....	[6] 131,806	112,000	3,692,922	6,689,371
24	(e) Investment in water rights.....dollars..	29,007	(6)	.....	.....	[6] 7,107	3,900	18,000	.....
25	(f) Total investment.....dollars..	10,655,106	(6)	.....	.....	[6] 138,913	115,900	3,710,922	6,689,371
26	(g) Maintenance and operation.....dollars..	52,239	(6)	.....	.....	[6] 989	1,698	24,232	25,320
27	(h) Total annual charges[3].....dollars..	82,861	(6)	.....	.....	[6] 6,398	5,002	46,382	25,079
28	(i) Total charges collected[3].....dollars..	190,032	(6)	.....	.....	[6] 3,907	10,548	54,086	121,491
29	(j) Area against which annual charges were assessed.....acres....	267,152	(6)	.....	.....	[6] 19,615	6,812	135,192	103,533
30	(k) Average indebtedness per acre assessed.....dollars..	35.33	(6)	.....	.....	[6] 3.30	0.74	22.06	60.50
31	(l) Average charges per acre assessed.....dollars..	0.31	(6)	.....	.....	[6] 0.33	0.73	0.34	0.24
32	(m) Average charges per acre irrigated.....dollars..	0.37	.....	.....	.....	[6] 3.46	0.91	0.39	0.25
33	Enterprises reporting arrearage[4].....number...	4	1	.....	.....	.....	1	2	.....
34	(a) Area assessed in these enterprises.....acres....	33,308	(5)	.....	.....	.....	(5)	(5)	.....
35	(b) Total arrearage.....dollars..	28,350	(5)	.....	.....	.....	(5)	(5)	.....
36	(c) Average arrearage per acre assessed.....dollars..	0.85	(5)	.....	.....	.....	(5)	(5)	.....
37	(d) Indebtedness.....dollars..	988,886	(5)	.....	.....	.....	(5)	(5)	.....
	TYPE, 1940								
38	Individual and partnership.....number...	99	4	79	15	1	.....	.....	.....
39	Cooperative (incorporated and unincorporated).....number...	40	3	.....	.....	18	7	12	.....
40	Irrigation district.....number...	[2] 1	.....	.....	.....	.....	.....	1	.....
41	U. S. Bureau of Reclamation.....number...	6	.....	.....	.....	.....	.....	4	2
42	All other.....number...	[2] 1	.....	.....	.....	.....	.....	.....	1
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
43	Enterprises reporting pay roll.....number...	41	2	.....	.....	14	6	17	[2] 2
44	Wages and salaries paid and payable for 1939.....dollars..	76,317	(6)	.....	.....	[6] 9,251	1,436	46,227	19,403
45	Persons employed during week ending April 29, 1939.....number...	117	(6)	.....	.....	[6] 31	8	64	14
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
46	Streams, pumped.....number...	1	1	.....	.....	.....	.....	.....	.....
47	Wells, pumped or flowing.....number...	65	2	55	4	4	.....	.....	.....
48	Streams, gravity or storage.....number...	81	4	24	11	15	7	17	3

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.
[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Great Salt Lake		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Ibapah	Tooele	5,288	12.69	-0.41	3.65	+1.05	3.32	-0.05	3.44	-0.83	2.28	-0.58	46.3	+1.2
Nephi (near)	Juab	(2)	10.95	-1.80	3.03	+0.07	2.23	-1.44	2.11	-1.30	3.58	+0.87	(2)	(2)
Ogden	Weber	4,458	22.00	+4.43	7.81	+3.19	5.54	+0.06	5.91	+1.21	2.74	-0.03	(2)	(2)
Park Valley	Box Elder	5,613	8.96	-1.45	2.30	-0.36	2.06	-0.23	2.31	-0.80	2.29	-0.06	48.0	(2)
Payson	Utah	4,637	14.56	-1.76	4.80	+0.43	2.42	-2.55	3.85	-0.31	3.49	+0.67	(2)	(2)
Salt Lake City	Salt Lake	4,260	13.89	-2.24	5.29	+1.07	4.30	-0.50	3.35	-1.42	0.95	-1.39	53.9	+2.3
Bear River														
Logan	Cache	4,778	16.10	-0.43	5.60	+1.42	3.23	-1.77	4.98	+0.22	2.29	-0.30	49.8	+2.2
Woodruff	Rich	6,343	8.78	-0.96	2.95	+0.84	1.35	-0.76	2.52	-0.22	1.96	-0.82	38.5	-0.2
Sevier River														
Deseret	Millard	4,541	5.45	-2.71	1.49	-0.42	1.17	-1.08	1.62	-0.69	1.17	-0.52	50.6	+2.0
Fillmore	Millard	5,100	12.34	-1.96	3.40	-0.20	3.25	-1.20	2.83	-0.80	2.86	+0.24	53.7	+2.0
Panguitch	Garfield	6,700	12.84	+3.31	1.49	-0.52	2.85	+0.53	1.12	-0.49	7.38	+3.79	43.7	+1.7
Richfield	Sevier	5,350	7.47	-0.89	1.44	-0.53	1.30	-0.95	1.01	0.78	3.72	+1.37	50.7	+2.2
Colorado River														
Escalante	Garfield	5,700	12.27	+0.03	2.02	-0.50	3.30	+0.17	0.34	-1.35	6.61	+1.71	(2)	(2)
Hanksville	Wayne	4,200	4.29	-0.90	0.20	-1.00	1.40	+0.39	0.19	-0.76	2.50	+0.47	53.4	+2.0
Moab	Grand	4,000	10.46	+0.81	2.12	-0.44	2.87	+0.55	0.75	-1.29	4.72	+1.99	54.8	+0.6
Monticello	San Juan	7,000	13.55	-3.19	2.23	-2.27	3.89	-0.64	1.03	-1.72	6.40	+1.44	46.5	+1.1
St. George	Washington	2,880	9.99	+1.13	1.27	-0.84	3.03	+0.13	0.32	-0.94	5.37	+2.78	60.8	+1.4
Green River														
Castle Dale	Emery	5,500	8.46	-0.37	1.29	-0.69	2.78	+0.80	1.08	-0.60	3.31	+0.12	(2)	(2)
Duchesne	Duchesne	5,520	9.87	+0.38	1.85	-0.09	2.82	+0.78	1.39	-0.58	3.81	+0.27	45.5	+2.1
Green River	Emery	4,087	6.73	+0.49	1.69	+0.09	2.12	+0.97	0.51	-0.83	2.41	+0.26	52.0	-0.2
Manila	Daggett	6,225	8.60	-1.94	3.00	+0.80	1.02	-0.88	2.55	-0.85	2.03	-1.01	(2)	(2)
Price	Carbon	5,507	12.18	+2.01	2.31	-0.09	3.27	+1.07	1.41	-0.75	5.19	+1.78	(2)	(2)
Beaver River														
Milford	Beaver	4,962	6.73	-2.24	2.13	-0.03	0.91	-1.83	0.71	-1.35	2.98	+0.97	50.9	+2.1
Coal Creek														
Cedar City	Iron	5,805	11.98	-1.20	3.24	+0.02	3.52	-0.04	1.74	-0.81	3.48	-0.37	(2)	(2)

[1] Departure from normal.
[2] Data not available.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
3	61	12	18	13	7	[2] 1	81	10	14	7	3	10
.....	1,842	2,131	12,803	48,616	169,679	86,984	9,043	11,708	32,869	128,787	139,648	11
3	4,072	1,570	5,734	23,288	42,242	8,072	5,783	5,571	17,860	25,470	30,297	12
.....	2.21	0.74	0.45	0.48	0.25	0.09	0.64	0.48	0.54	0.20	0.22	13
5,240	.....	1,134	6,279	61,184	60,812	7,829	1,133	10,724	56,476	26,431	47,714	14
.....	.....	0.99	0.50	1.26	0.36	0.09	0.19	0.92	1.72	0.21	0.34	15
17,465	.....	1,142	14,073	48,832	192,064	86,984	7,202	11,688	50,850	128,787	162,033	16
0.30	.....	0.99	0.45	1.25	0.32	0.09	0.16	0.92	1.11	0.21	0.29	17
1,697	.....	1,093	5,541	42,120	51,140	106,325	1,793	5,417	33,161	24,985	142,560	18
1	.....	1	4	7	5	[2] 1	2	2	7	5	3	19
.....	.....	[6]	2,700	25,157	110,699	86,984	5,435		10,800	69,807	139,648	20
[5]	.....	[6]	3,935	1,052,652	5,937,234	2,381,208	4,405		77,810	1,421,625	7,933,343	21
.....	.....	[5]	1.46	41.84	53.63	27.38	0.81		7.20	20.37	56.81	22
[5]	.....	[5]	43,138	1,349,220	6,440,202	2,685,871	32,394		344,632	2,011,337	8,237,736	23
[5]	.....	.....	9,350	19,150	.....	.....	6,850		22,157	.....	.....	24
[5]	.....	[5]	52,488	1,368,370	6,440,202	2,685,871	39,244		366,789	2,011,337	8,237,736	25
[5]	.....	[5]	1,616	10,104	31,822	8,072	1,888		5,004	15,050	30,297	26
[5]	.....	[5]	1,575	17,200	50,393	7,829	1,677		17,458	16,012	47,714	27
[5]	.....	[5]	2,854	27,392	51,140	106,325	2,826		19,661	24,985	142,560	28
[5]	.....	[5]	4,290	25,179	133,084	86,984	6,725		28,587	69,807	162,033	29
[5]	.....	[5]	0.92	41.81	44.61	27.38	0.66		2.72	20.37	48.96	30
[5]	.....	[5]	0.37	0.68	0.38	0.09	0.25		0.61	0.23	0.29	31
.....	.....	[5]	0.58	0.68	0.46	0.09	0.31		1.62	0.23	0.34	32
1	.....	.....	.....	2	1	.....	.....	.....	2	2	.....	33
[6]	.....	.....	.....	[6]	[6]	.....	.....	.....	33,308		.....	34
[6]	.....	.....	.....	[6]	[6]	.....	.....	.....	28,350		.....	35
[5]	.....	.....	.....	[5]	[5]	.....	.....	.....	0.85		.....	36
[5]	.....	.....	.....	[5]	[5]	.....	.....	.....	988,886		.....	37
4	87	6	2	.....	.....	.....	98	1	.....	.....	.....	38
3	1	7	16	11	2	.....	15	9	14	2	.....	39
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	40
.....	.....	.....	.....	2	3	1	.....	.....	.....	3	3	41
.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	42
2	.....	5	15	11	7	[2] 1	11	8	12	7	3	43
[5]	.....	480	3,721	16,732	43,862	4,815	1,177	3,317	19,096	30,089	22,638	44
[5]	.....	3	27	17	54	4	10	12	32	48	15	45
1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	46
2	58	5	.....	.....	.....	.....	64	1	.....	.....	.....	47
4	30	8	18	13	7	1	48	9	14	7	3	48

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Data for 1 enterprise reporting indebtedness and for 2 enterprises reporting pay roll in the "No farms" group are included with the "5 to 24 farms" group.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation.—The general annual precipitation in Utah for the calendar year 1939, as shown by the records of the U. S. Weather Bureau at about 117 stations, was 11.49 inches, or 1.46 inches below the 48-year average; it was 3.70 inches below that of 1938, and the least since 1934. The Northwestern Division had 2.32 inches below normal, and the Southern and Eastern Divisions 0.11 below normal. The greatest annual precipitation was 27.31 at Silver Lake (Brighton), which was 15.71 inches below its normal. The next highest amounts were 25.34 inches at Timpanogos Summit and 24.83 inches at Mt. Baldy R. S.

The least annual precipitation was 2.05 inches at Callao; next lowest was 4.33 inches at Deseret and 4.35 inches at Hanksville. The greatest monthly amounts were 8.83 inches at Bryce Canyon and 7.97 inches at Alton during September. The least monthly amount was none at one station in April and July, two stations in August, three stations in December, eight stations in November, and ten stations in June. The greatest 24-hour amounts were 4.09 inches at Bryce Canyon on the 12th, and 2.96 inches at Elkhorn (Ashley) on the 6th of September.

Only fourteen precipitation stations had above normal amounts for the year, and only one, Wendover, was in the northern half of the State. The excess at southern stations was largely the result of the very wet month of September. January, February, June, and October had moderate excesses, September more than twice its normal, while the spring, midsummer, and late fall months had deficiencies. The greatest deficiency was 15.71 inches at Silver Lake (Brighton), while the greatest excess departure was 2.52 inches at Panguitch.

The average precipitation for the water year (October 1938 through September 1939) at 24 stations listed in State table 18, which are representative of the irrigated areas in the major drainage basins in Utah, was 10.88 inches, a departure of -0.49 from the average precipitation at these stations.

The general average annual snowfall for 1939 in Utah was 49.0 inches, or 1.7 inches below normal.

Temperature.—The general annual temperature for the State as shown by the records of about 81 stations was 49.0°, or 1.0° above the 48-year average. The year was 0.3° warmer than 1938, and was the warmest since 1936. The highest annual temperature for 1939 was 62.4° at Springdale (Zion Park), which was 3.0° above normal. The lowest annual temperature was 37.2° at Silver Lake (Brighton).

The warmest month was July with a mean temperature of 72.4°, or 0.7° above normal. The highest mean monthly temperature in the State was 87.2° recorded at Springdale in July. The mean daily maximum temperature at St. George for July was 102.7°, the highest in the State. The highest temperature observed was 112° at St. George and Wendover on July 13, and at Springdale (Zion Park) on August 16.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GREAT SALT LAKE	
			Total	Direct (1)
	IRRIGATED FARMS AND AREAS			
1	Irrigated farms....1939...number....	45,220	27,253	1,340
2	Area irrigated....1939...acres....	1,176,116	548,796	25,282
3	(a) Cropland harvested....1939...acres....	980,881	486,265	21,989
4	(b) Crop failure....1939...acres....	38,487	10,735	1,229
5	(c) Pasture....1939...acres....	156,748	51,796	2,064
6	Area irrigated....1929...acres....	1,324,125	593,029	.....
7	1919...acres....	1,371,651	570,868	.....
8	Increase or decrease (-), 1929-1939....percent....	-11.2	-7.5	.....
9	Irrigable area in enterprises....1940...acres....	1,432,533	630,446	28,227
10	1930...acres....	1,739,869	710,003	.....
11	1920[2]...acres....	2,359,244	836,075	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	256,417	81,650	2,945
13	1930...acres....	415,744	116,974	.....
14	1920[2]...acres....	987,593	265,207	.....
15	Area works were capable of supplying with water...1940...acres....	1,357,714	599,549	27,153
16	1930...acres....	1,542,475	642,662	.....
17	1920...acres....	1,700,550	660,283	.....
18	Increase or decrease (-), 1930-1940....percent....	-12.0	-6.7	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	181,598	50,753	1,871
20	1930...acres....	218,350	49,633	.....
21	1920...acres....	328,899	89,415	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	86.6	91.5	93.1
23	1929...percent....	85.8	92.3	.....
24	1919...percent....	80.7	86.5	.....
	CAPITAL INVESTED TO JANUARY 1			
25	Total investment in irrigation enterprises....1940...dollars....	41,896,532	24,555,604	2,409,673
26	(a) Cost of irrigation works and equipment....1940...dollars....	39,590,175	23,177,280	2,405,343
27	(b) Investment in water rights (reported)....1940...dollars....	2,306,357	1,378,324	4,330
28	Total investment in irrigation enterprises....1930...dollars....	35,669,819	19,407,237	.....
29	1920...dollars....	32,037,351	14,102,393	.....
30	Increase or decrease (-), 1930-1940....percent....	17.5	26.5	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	30.86	40.96	88.74
32	1930...dollars....	23.13	30.20	.....
33	1920...dollars....	18.84	21.36	.....
34	Average investment per acre irrigated....1939...dollars....	35.62	44.74	95.31
35	Estimated final investment in existing enterprises..1940...dollars....	43,380,966	25,223,024	2,572,882
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	30.28	40.01	91.15
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises	Primary / Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	1,855 / 118	810 / 64	110 / 13
38	Area irrigated in these enterprises....1939...acres....	1,144,100 / 322,055	533,596 / 153,641	23,036 / 6,235
39	Cost of maintenance and operation....1939...dollars....	881,814 / 84,981	446,866 / 58,641	17,087 / 8,420
40	Average cost, per acre irrigated....1939...dollars....	0.77 / 0.26	0.84 / 0.38	0.74 / 1.35
41	Total annual charges (reported)[4] [5]....1939...dollars....	1,079,113 / 142,478	605,952 / 94,960	22,480 / 2,190
42	Average annual charge per acre irrigated....1939...dollars....	1.02 / 0.45	1.20 / 0.62	1.17 / 0.37
43	Area against which charges were assessed....1939...acres....	1,128,306 / 360,560	523,341 / 160,027	19,816 / 9,349
44	Average annual charge per acre assessed....1939...dollars....	0.96 / 0.40	1.16 / 0.59	1.13 / 0.23
45	Total charges collected[4]....1939...dollars....	1,106,871 / 207,916	666,670 / 165,561	21,239 / 7,296
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	4,329,234 / 9,437,183	3,408,467 / 7,437,410	21,217 / 1,802,475
	WATER DELIVERED TO IRRIGATORS, 1939			
47	Enterprises reporting water delivered....1939...number....	1,864 / 129	843 / 80	99 / 16
48	Area irrigated by these enterprises....1939...acres....	1,049,365 / 258,047	475,987 / 154,024	17,557 / 6,345
49	Water delivered....1939...acre-feet..	2,654,225 / 278,665	1,295,794 / 192,036	48,301 / 11,835
50	Average water delivered per acre irrigated....1939...acre-feet..	2.5 / 1.1	2.7 / 1.2	2.8 / 1.9
51	Average cost of water per acre irrigated....1939...dollars....	1.03 / 0.50	1.20 / 0.63	1.20 / 0.41
52	Average cost of water per acre-foot delivered..1939...dollars....	0.41 / 0.46	0.44 / 0.50	0.44 / 0.22
	DRAINAGE OF IRRIGATED LAND			
53	Enterprises reporting land drained or needing drainage....1939...number....	202 /	133 /	10 / .....
54	Irrigable area in these enterprises....1939...acres....	324,771 /	202,024 /	352 / .....
55	Irrigated area in these enterprises....1939...acres....	283,314 /	186,156 /	324 / .....
56	Area for which drains have been installed....1939...acres....	90,657 /	47,009 /	99 / .....
57	Additional area needing drainage....1939...acres....	28,418 /	20,717 /	67 / .....

[1] Data for 1 enterprise in Deep Creek (Box Elder County) Drainage Basin (47) (number refers to separate map) are included with State totals. Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State total.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

GREAT SALT LAKE—Continued

Bear River							Weber River						
Total	Direct		Little Bear River		Malad River		Total	Direct		Chalk Creek	East Canyon Creek		
	(2)		(3)		(4)			(5)		(6)	(7)		
5,756	2,850		2,867		39		5,469	3,414		115	195		1
178,656	130,154		47,590		912		109,909	78,297		3,000	4,501		2
156,048	117,195		38,026		827		99,390	71,014		2,597	4,242		3
2,844	2,750		94		.....		2,082	1,431		39	.....		4
19,764	10,209		9,470		85		8,437	5,852		364	259		5
210,726	99,735		41,889		662		109,827	66,179		.....	5,652		6
202,681	104,731		46,541		1,189		97,589	44,726		.....	6,202		7
-15.2	30.5		13.6		37.8		0.1	18.3		.....	-20.4		8
208,408	157,756		49,650		1,002		130,954	94,662		3,084	4,509		9
247,782	119,900		48,221		693		135,546	86,389		.....	6,103		10
272,100	161,328		48,358		1,935		149,081	83,796		.....	6,538		11
29,752	27,602		2,060		90		21,045	16,365		84	8		12
37,056	20,165		6,332		31		25,719	20,210		.....	451		13
69,419	56,597		1,817		746		51,492	39,070		.....	336		14
199,615	149,885		48,818		912		114,195	80,940		3,083	4,509		15
222,787	100,149		44,940		668		113,996	66,388		.....	6,028		16
218,037	117,523		46,890		1,189		112,981	49,341		.....	6,468		17
-10.4	49.7		8.6		36.5		0.2	21.9		.....	-25.2		18
20,959	19,731		1,228		.....		4,286	2,643		83	8		19
12,061	414		3,051		6		4,169	209		.....	376		20
15,356	12,792		349		.....		15,392	4,615		.....	266		21
89.5	86.8		97.5		100.0		96.2	96.7		97.3	99.8		22
94.6	99.6		93.2		99.1		96.3	99.7		.....	93.8		23
93.0	89.1		99.3		100.0		86.4	90.6		.....	95.9		24
5,697,045	3,779,619		1,896,160		21,266		7,122,978	4,300,535		53,654	168,825		25
4,737,778	2,849,236		1,869,921		18,621		7,068,721	4,260,207		52,400	167,107		26
959,267	930,383		26,239		2,645		54,257	40,328		1,254	1,718		27
5,016,351	3,446,098		703,436		23,384		4,955,769	3,713,175		.....	45,485		28
3,430,663	2,150,603		720,363		18,097		2,106,048	1,353,323		.....	74,010		29
13.6	9.7		169.6		-9.1		43.7	15.8		.....	271.2		30
28.54	25.22		38.84		23.32		62.38	53.13		17.40	37.44		31
22.52	34.41		15.65		35.01		43.47	55.93		.....	7.55		32
15.73	18.30		15.36		15.22		18.64	27.43		.....	11.44		33
31.89	29.04		39.84		23.32		64.81	54.93		17.88	37.51		34
5,908,795	3,980,119		1,907,410		21,266		7,359,479	4,346,195		54,654	168,825		35
28.35	25.23		38.42		21.22		56.20	45.91		17.72	37.44		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
138	12	73	11	61	[3]1	4	265	8	176	6	16	22	[3]1	37
176,079	8,094	128,185	2,251	47,034	5,843	860	105,533	82,746	75,802	71,945	2,583	4,421	4,386	38
117,990	5,398	88,966	761	27,755	4,637	1,269	89,929	16,625	56,618	6,733	2,419	2,452	407	39
0.67	0.67	0.69	0.34	0.59	0.79	1.48	0.85	0.20	0.75	0.09	0.94	0.55	0.09	40
156,797	5,093	117,758	419	37,615	4,674	1,424	160,596	25,950	110,499	10,025	2,533	3,358	395	41
0.93	0.64	0.96	0.20	0.83	0.80	1.74	1.65	0.31	1.59	0.14	1.74	1.03	0.09	42
173,882	7,959	127,377	2,116	45,685	5,843	820	102,920	86,480	70,875	71,894	1,486	3,946	4,386	43
0.90	0.64	0.92	0.20	0.82	0.80	1.74	1.56	0.30	1.56	0.14	1.70	0.85	0.09	44
152,471	5,953	117,867	421	33,319	5,532	1,285	170,763	105,338	116,454	96,998	1,444	7,445	.....	45
25,256	923,000	24,190	.....	1,066	923,000	.....	1,154,291	4,169,722	1,031,200	1,968,197	441	120,750	.....	46
122	13	69	12	48	[3]1	5	260	9	171	7	17	23	[3]1	47
148,644	8,175	115,057	2,332	32,695	5,843	892	91,978	82,789	66,636	71,988	2,680	4,501	4,386	48
421,629	14,956	318,457	4,883	101,007	10,073	2,165	256,867	76,784	183,510	60,621	7,781	12,484	3,735	49
2.8	1.8	2.8	2.1	3.1	1.7	2.4	2.8	0.9	2.8	0.8	2.9	2.8	0.9	50
0.98	0.67	1.05	0.34	0.74	0.80	1.59	1.63	0.31	1.62	0.14	1.17	0.98	0.09	51
0.35	0.37	0.38	0.16	0.24	0.46	0.65	0.59	0.34	0.59	0.17	0.40	0.35	0.11	52
20	.....	7	.....	13	.....	.....	44	.....	41	.....	.....	.....	.....	53
97,572	.....	75,487	.....	22,085	.....	.....	48,593	.....	45,391	.....	.....	.....	.....	54
88,816	.....	66,862	.....	21,954	.....	.....	44,044	.....	41,105	.....	.....	.....	.....	55
17,723	.....	14,638	.....	3,085	.....	.....	14,737	.....	14,322	.....	.....	.....	.....	56
15,145	.....	13,010	.....	2,135	.....	.....	3,446	.....	1,932	.....	.....	.....	.....	57

[3] Data for less than 3 enterprises shown with permission of the enterprise involved.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GREAT SALT LAKE—Continued					
		Weber River—Continued		Jordan River			
		Ogden River		Total		Direct	
		(8)				(9)	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	1,745		14,688		6,618	
2	Area irrigated....1939...acres....	24,111		234,949		77,469	
3	(a) Cropland harvested....1939...acres....	21,537		208,838		68,873	
4	(b) Crop failure....1939...acres....	612		4,580		1,133	
5	(c) Pasture....1939...acres....	1,962		21,531		7,463	
6	Area irrigated....1929...acres....	20,581		272,476		78,708	
7	1919...acres....	21,884		270,598		71,187	
8	Increase or decrease (-), 1929-1939....percent....	17.2		-13.8		-1.6	
9	Irrigable area in enterprises....1940...acres....	28,699		262,857		93,299	
10	1930...acres....	24,229		326,675		102,379	
11	1920[1]...acres....	27,097		414,894		120,400	
12	Excess of irrigable area over the area irrigated..1940...acres....	4,588		27,908		15,830	
13	1930...acres....	3,648		54,199		23,671	
14	1920[1]...acres....	5,213		144,296		49,213	
15	Area works were capable of supplying with water...1940...acres....	25,663		258,586		91,617	
16	1930...acres....	23,931		305,879		93,479	
17	1920...acres....	26,852		329,265		84,682	
18	Increase or decrease (-), 1930-1940....percent....	7.2		-15.5		-2.0	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	1,552		23,637		14,148	
20	1930...acres....	3,350		33,403		14,771	
21	1920...acres....	4,968		58,667		13,495	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	94.0		90.9		84.6	
23	1929...percent....	86.0		89.1		84.2	
24	1919...percent....	81.5		82.2		84.1	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	2,599,964		9,325,908		3,246,361	
26	(a) Cost of irrigation works and equipment....1940...dollars....	2,589,007		8,965,438		3,040,425	
27	(b) Investment in water rights (reported)....1940...dollars....	10,957		360,470		205,936	
28	Total investment in irrigation enterprises....1930...dollars....	925,756		9,435,117		2,288,208	
29	1920...dollars....	423,755		8,565,682		1,288,620	
30	Increase or decrease (-), 1930-1940....percent....	180.8		-1.2		41.9	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	101.31		36.07		35.43	
32	1930...dollars....	38.68		30.85		24.48	
33	1920...dollars....	15.78		26.01		15.22	
34	Average investment per acre irrigated....1939...dollars....	107.83		39.69		41.91	
35	Estimated final investment in existing enterprises..1940...dollars....	2,789,805		9,381,868		3,294,491	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	97.21		35.69		35.31	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	51	[2] 1	297	31	87	10
38	Area irrigated in these enterprises....1939...acres....	22,727	6,415	228,948	56,566	75,360	10,620
39	Cost of maintenance and operation....1939...dollars....	28,440	9,485	221,860	28,198	120,529	7,473
40	Average cost, per acre irrigated....1939...dollars....	1.25	1.48	0.97	0.50	1.60	0.70
41	Total annual charges (reported)[4] [5]....1939...dollars....	44,206	15,530	266,079	61,727	134,217	7,330
42	Average annual charge per acre irrigated....1939...dollars....	1.92	2.42	1.21	1.10	1.79	0.70
43	Area against which charges were assessed....1939...acres....	26,613	10,200	226,723	56,239	80,055	10,518
44	Average annual charge per acre assessed....1939...dollars....	1.66	1.52	1.17	1.10	1.68	0.70
45	Total charges collected[4]....1939...dollars....	45,420	8,340	322,197	46,974	157,466	2,884
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	1,900	2,201,525	2,207,703	542,213	467,766	1,550
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	49	[2] 1	362	42	126	20
48	Area irrigated by these enterprises....1939...acres....	18,161	6,415	217,808	56,715	71,283	10,747
49	Water delivered....1939...acre-feet..	53,092	12,428	568,997	88,461	208,854	28,185
50	Average water delivered per acre irrigated....1939...acre-feet..	2.9	1.9	2.6	1.6	2.9	2.6
51	Average cost of water per acre irrigated....1939...dollars....	1.91	2.42	1.17	1.10	1.78	0.72
52	Average cost of water per acre-foot delivered..1939...dollars....	0.65	1.25	0.45	0.71	0.61	0.27
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	3	.....	59	.....	12	.....
54	Irrigable area in these enterprises....1939...acres....	3,202	.....	55,507	.....	1,119	.....
55	Irrigated area in these enterprises....1939...acres....	2,939	.....	52,972	.....	1,087	.....
56	Area for which drains have been installed....1939...acres....	415	.....	14,450	.....	171	.....
57	Additional area needing drainage....1939...acres....	1,514	.....	2,059	.....	160	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data for less than 3 enterprises shown with permission of the enterprise involved.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

GREAT SALT LAKE—Continued																	
Jordan River—Continued									SEVIER LAKE								
Utah Lake									Sevier River								
Total		Direct (10)		Spanish Fork System (11)		Provo River System (12)			Total		Upper Sevier River						
											Total		Direct (13)		East Fork Sevier River		
															Total		
8,070		573		2,830		4,667			7,415		5,556		2,702		200		1
157,480		17,146		60,117		80,217			237,569		167,786		93,407		10,715		2
139,965		15,652		52,733		71,580			208,575		140,143		79,417		8,955		3
3,447		654		1,474		1,319			8,983		7,998		2,308		145		4
14,068		840		5,910		7,318			20,011		19,645		11,682		1,615		5
.....		.....		.....		.....			258,929		.....		.....		.....		6
.....		.....		.....		.....			325,718		.....		.....		.....		7
.....		.....		.....		.....			-8.2		.....		.....		.....		8
169,558		23,463		62,940		83,155			277,779		192,513		103,387		12,040		9
.....		.....		.....		.....			336,671		.....		.....		.....		10
.....		.....		.....		.....			630,484		.....		.....		.....		11
12,078		6,317		2,823		2,938			40,210		24,727		9,980		1,325		12
.....		.....		.....		.....			77,742		.....		.....		.....		13
.....		.....		.....		.....			304,766		.....		.....		.....		14
166,969		21,946		62,679		82,344			270,066		188,240		100,564		11,410		15
.....		.....		.....		.....			303,757		.....		.....		.....		16
.....		.....		.....		.....			402,387		.....		.....		.....		17
.....		.....		.....		.....			-11.1		.....		.....		.....		18
9,489		4,800		2,562		2,127			32,497		20,454		7,157		695		19
.....		.....		.....		.....			44,828		.....		.....		.....		20
.....		.....		.....		.....			76,669		.....		.....		.....		21
94.3		78.1		95.9		97.4			88.0		89.1		92.9		93.9		22
.....		.....		.....		.....			85.2		.....		.....		.....		23
.....		.....		.....		.....			80.9		.....		.....		.....		24
6,079,547		538,902		3,719,390		1,821,255			6,092,351		3,177,697		1,923,464		111,900		25
5,925,013		514,660		3,709,722		1,700,631			5,603,973		2,811,399		1,612,579		92,385		26
154,534		24,242		9,668		120,624			488,378		366,298		310,885		19,515		27
.....		.....		.....		.....			6,793,638		.....		.....		.....		28
.....		.....		.....		.....			9,509,836		.....		.....		.....		29
.....		.....		.....		.....			-10.3		.....		.....		.....		30
36.41		24.56		59.34		22.12			22.56		16.88		19.13		9.81		31
.....		.....		.....		.....			22.37		.....		.....		.....		32
.....		.....		.....		.....			23.63		.....		.....		.....		33
38.61		31.43		61.87		22.70			25.64		18.94		20.59		10.44		34
6,087,377		540,172		3,719,590		1,827,615			6,138,536		3,203,207		1,944,439		112,935		35
35.90		23.02		59.10		21.98			22.10		16.64		18.81		9.38		36
Primary	Sup.		Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.			
Enterprises			Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises				
210	21	18	42	7	150	14	253	24	207	21	120	11	26	2			37
153,588	45,946	16,245	59,183	25,289	78,160	20,657	228,749	111,432	159,736	60,116	92,417	40,858	9,925	(3)			38
101,331	20,725	8,169	29,687	15,775	63,475	4,950	142,044	15,885	102,226	10,349	74,390	1,340	1,918	(3)			39
0.66	0.45	0.50	0.50	0.62	0.81	0.24	0.62	0.14	0.64	0.17	0.80	0.03	0.19	(3)			40
131,862	54,397	18,959	40.551	46,095	72,352	8,302	205,863	16,012	131,124	10,552	93,256	1,035	4,539	.....			41
0.91	1.19	1.19	0.70	1.82	1.01	0.41	0.94	0.14	0.86	0.18	1.06	0.03	0.56	.....			42
146,668	45,721	16,432	58,569	25,379	71,667	20,342	232,363	111,859	162,889	60,609	90,302	40,467	8,630	.....			43
0.90	1.19	1.15	0.69	1.82	1.01	0.41	0.89	0.14	0.80	0.17	1.03	0.03	0.53	.....			44
164,731	44,090	14,531	80,194	19,476	70,006	24,614	192,841	12,546	119,849	12,546	88,945	3,000	4,412	.....			45
1,739,937	540,663	1,900	1,687,146	113,926	50,891	426,737	396,197	384,367	208,997	384,367	166,845	8,980	6,170	.....			46
236	22	19	48	7	169	15	267	23	213	19	142	12	24	1			47
146,525	45,968	16,416	52,292	25,289	77,817	20,679	209,463	47,108	141,187	46,882	87,508	40,859	9,173	.....			48
360,143	60,276	26,026	82,680	35,540	251,437	24,736	490,334	23,602	361,471	22,770	257,000	19,859	32,716	(3)			49
2.5	1.3	1.6	1.6	1.4	3.2	1.2	2.3	0.5	2.6	0.5	2.9	0.5	3.6	.....			50
0.87	1.19	1.19	0.62	1.82	0.97	0.41	0.91	0.07	0.82	0.07	1.06	0.03	0.55	.....			51
0.35	0.91	0.75	0.39	1.30	0.30	0.34	0.39	0.14	0.32	0.14	0.36	0.07	0.15	.....			52
47	.....	2	14	.....	31	.....	57	.....	54	.....	47	.....	1	.....			53
54,388	.....	(3)	43,817	.....	10,471	.....	60,062	.....	28,562	.....	19,311	.....	(3)	.....			54
51,885	.....	(3)	41,374	.....	10,416	.....	51,211	.....	25,211	.....	18,502	.....	(3)	.....			55
14,279	.....	(3)	12,625	.....	1,579	.....	38,086	.....	6,586	.....	6,329	.....	(3)	.....			56
1,899	.....	(3)	1,403	.....	491	.....	948	.....	948	.....	784	.....	.....	.....			57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		SEVIER LAKE—Continued			
			Sevier River—Continued			
			Upper Sevier River—Continued			
			East Fork Sevier River—Continued		San Pitch River	Lower Sevier River
			Direct (14)	Otter Creek (15)	(16)	(17)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms	1939...number	96	104	2,654	1,859
2	Area irrigated	1939...acres	5,253	5,462	63,664	69,783
3	(a) Cropland harvested	1939...acres	4,789	4,166	51,771	68,432
4	(b) Crop failure	1939...acres	75	70	5,545	985
5	(c) Pasture	1939...acres	389	1,226	6,348	366
6	Area irrigated	1929...acres	.....	7,237	65,276	.....
7		1919...acres	.....	7,289	77,616	.....
8	Increase or decrease (-), 1929-1939	percent	.....	-24.5	-2.5	.....
9	Irrigable area in enterprises	1940...acres	6,291	5,749	77,086	85,266
10		1930...acres	.....	7,782	82,052	.....
11		1920[2]...acres	.....	7,845	105,519	.....
12	Excess of irrigable area over the area irrigated	1940...acres	1,038	287	13,422	15,483
13		1930...acres	.....	545	16,776	.....
14		1920[2]...acres	.....	556	27,903	.....
15	Area works were capable of supplying with water	1940...acres	5,661	5,749	76,266	81,826
16		1930...acres	.....	7,782	74,003	.....
17		1920...acres	.....	7,289	78,348	.....
18	Increase or decrease (-), 1930-1940	percent	.....	-26.1	3.1	.....
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	408	287	12,602	12,043
20		1930...acres	.....	545	8,727	.....
21		1920...acres	.....	.....	732	.....
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	92.8	95.0	83.5	85.3
23		1929...percent	.....	93.0	88.2	.....
24		1919...percent	.....	100.0	99.1	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises	1940...dollars	22,015	89,885	1,142,333	2,914,654
26	(a) Cost of irrigation works and equipment	1940...dollars	19,785	72,600	1,106,435	2,792,574
27	(b) Investment in water rights (reported)	1940...dollars	2,230	17,285	35,898	122,080
28	Total investment in irrigation enterprises	1930...dollars	.....	225,470	1,005,530	.....
29		1920...dollars	.....	151,850	1,142,510	.....
30	Increase or decrease (-), 1930-1940	percent	.....	-60.1	13.6	.....
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	3.89	15.63	14.98	35.62
32		1930...dollars	.....	28.97	13.59	.....
33		1920...dollars	.....	20.83	14.58	.....
34	Average investment per acre irrigated	1939...dollars	4.19	16.46	17.94	41.77
35	Estimated final investment in existing enterprises	1940...dollars	22,015	90,920	1,145,833	2,935,329
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	3.50	15.81	14.86	34.43
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation	1939...number	12	2	14	61	8	46	3
38	Area irrigated in these enterprises	1939...acres	4,503	[3]	5,422	57,394	18,938	69,013	51,316
39	Cost of maintenance and operation	1939...dollars	851	[3]	1,067	25,918	8,933	39,818	5,536
40	Average cost, per acre irrigated	1939...dollars	0.19	[3]	0.20	0.45	0.47	0.58	0.11
41	Total annual charges (reported)[4] [5]	1939...dollars	1,320	.....	3,219	33,329	9,517	74,739	5,460
42	Average annual charge per acre irrigated	1939...dollars	0.35	.....	0.75	0.59	0.51	1.12	0.11
43	Area against which charges were assessed	1939...acres	3,743	.....	4,887	63,957	20,142	69,474	51,250
44	Average annual charge per acre assessed	1939...dollars	0.35	.....	0.66	0.52	0.47	1.08	0.11
45	Total charges collected[4]	1939...dollars	1,350	.....	3,062	26,492	9,546	72,992	.....
46	Indebtedness to December 31 (reported)[5]	1939...dollars	600	.....	5,570	35,982	375,387	187,200	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered	1939...number	9	1	15	47	6	54	4
48	Area irrigated by these enterprises	1939...acres	3,731	.....	5,442	44,506	6,023	68,276	228
49	Water delivered	1939...acre-feet	15,236	[3]	17,480	71,755	2,910	128,863	832
50	Average water delivered per acre irrigated	1939...acre-feet	4.1	.....	3.2	1.6	0.5	1.9	3.7
51	Average cost of water per acre irrigated	1939...dollars	0.40	.....	0.65	0.40	0.31	1.10	1.14
52	Average cost of water per acre-foot delivered	1939...dollars	0.10	.....	0.20	0.25	0.63	0.58	0.31
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage	1939...number	.....	.....	1	6	.....	3	.....
54	Irrigable area in these enterprises	1939...acres	.....	.....	[3]	9,231	.....	31,500	.....
55	Irrigated area in these enterprises	1939...acres	.....	.....	[3]	6,689	.....	26,000	.....
56	Area for which drains have been installed	1939...acres	.....	.....	[3]	237	.....	31,500	.....
57	Additional area needing drainage	1939...acres	.....	.....	.....	164	.....	.....	.....

[1] Data for 2 enterprises in White River Drainage Basin (28) (number refers to separate map) are included with Green River "Direct" Drainage Basin (21).
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER													
			Green River										
Total		Direct	Dolores River	Total		Direct[1]	Henrys Fork	Brush Creek	Ashley Creek		Duchesne River		Willow Creek	
		(18)	(20)			(21)	(24)	(25)	(26)		(27)		(29)	
8,632		115	36	6,291		208	21	74	840		2,351		19	1
324,899		4,996	2,342	263,189		13,980	3,987	5,078	26,843		141,392		1,811	2
233,502		4,132	2,112	183,670		10,892	3,327	3,806	17,842		80,684		1,379	3
14,963		638	29	10,549		1,145	.....	1,020	4,527		3,212		58	4
76,414		226	201	68,970		1,943	660	252	4,474		57,496		374	5
347,452		1,286	.....	278,072		1,908	.....	.....	23,314		167,022		.....	6
362,376		9,740	.....	280,877		2,541	.....	.....	26,787		138,445		.....	7
-6.5		288.5	.....	-5.4		632.7	.....	.....	15.1		-15.3		.....	8
437,909		6,159	4,481	343,510		20,745	6,822	5,515	40,746		189,534		2,758	9
518,846		1,561	.....	409,701		4,408	.....	.....	37,519		255,834		.....	10
706,095		24,615	.....	510,426		3,629	.....	.....	44,087		322,689		.....	11
113,010		1,163	2,139	80,321		6,765	2,835	437	13,903		48,142		947	12
171,394		275	.....	131,629		2,500	.....	.....	14,205		88,812		.....	13
343,519		14,875	.....	229,549		1,088	.....	.....	17,300		184,243		.....	14
406,890		5,604	2,679	323,318		15,891	6,392	5,205	40,731		176,530		2,733	15
439,165		1,286	.....	351,500		2,958	.....	.....	29,519		222,094		.....	16
496,991		18,529	.....	385,612		3,038	.....	.....	44,087		217,809		.....	17
-7.3		335.8	.....	-8.0		437.2	.....	.....	38.0		-20.5		.....	18
81,991		608	337	60,129		1,911	2,405	127	13,888		35,138		922	19
91,713		.....	.....	73,428		1,050	.....	.....	6,205		55,072		.....	20
134,415		8,789	.....	104,735		497	.....	.....	17,300		79,363		.....	21
79.8		89.2	87.4	81.4		88.0	62.4	97.6	65.9		80.1		66.3	22
79.1		100.0	.....	79.1		64.5	.....	.....	79.0		75.2		.....	23
73.0		52.6	.....	72.8		83.6	.....	.....	60.8		63.6		.....	24
9,214,146		43,870	51,335	7,599,544		737,273	41,829	92,818	397,061		4,477,764		27,025	25
9,006,350		41,330	51,030	7,484,159		725,819	40,998	86,645	393,462		4,401,181		25,100	26
207,796		2,540	305	115,385		11,454	831	6,173	3,599		76,583		1,925	27
6,734,361		19,300	.....	5,360,798		440,025	.....	.....	402,600		2,977,463		.....	28
6,577,352		219,489	.....	4,154,660		376,325	.....	.....	374,140		2,428,174		.....	29
36.8		149.5	.....	41.8		67.6	.....	.....	-1.4		50.4		.....	30
22.65		8.59	19.16	23.50		46.40	6.54	17.83	9.75		25.37		9.89	31
15.33		15.01	.....	15.25		148.76	.....	.....	13.64		13.41		.....	32
13.23		11.85	.....	10.77		123.87	.....	.....	8.49		11.15		.....	33
28.36		9.64	21.92	28.87		52.74	10.49	18.28	14.79		31.67		14.92	34
9,920,759		45,270	51,335	8,180,922		774,403	42,554	92,818	417,061		4,955,124		27,275	35
22.65		8.05	11.46	23.82		37.33	6.24	16.83	10.24		26.14		9.89	36
Primary Enterprises	Sup.			Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.		
539	13	56	15	302	13	68	8	10	15	2	120	7	18	37
321,855	50,157	4,935	2,327	260,845	50,157	13,272	3,492	5,007	26,744	(3)	140,901	41,277	1,911	38
237,922	7,372	7,692	1,639	179,321	7,372	13,357	1,295	2,225	8,104	(3)	117,717	5,097	1,378	39
0.74	0.15	1.56	0.70	0.69	0.15	1.01	0.37	0.44	0.30	(3)	0.84	0.12	0.76	40
236,440	30,067	1,740	620	170,949	30,067	5,372	847	2,015	8,978	5,240	108,922	22,635	.....	41
0.82	0.60	0.87	0.82	0.71	0.60	0.73	0.53	0.44	0.34	.....	0.81	0.55	.....	42
317,628	82,765	2,077	760	264,252	82,765	7,450	1,997	4,590	30,596	17,465	153,755	56,500	.....	43
0.74	0.36	0.84	0.82	0.65	0.36	0.72	0.42	0.44	0.29	0.30	0.71	0.40	.....	44
219,948	27,333	1,631	950	168,367	27,333	5,044	2,066	1,210	9,190	1,697	100,344	21,069	.....	45
508,549	1,613,321	.....	.....	434,187	1,613,321	.....	.....	1,200	100	61,894	406,187	1,548,635	.....	46
521	11	62	17	307	11	67	10	11	14	1	126	7	18	47
309,859	50,137	4,996	2,342	256,576	50,137	12,042	2,487	5,078	24,908	(3)	141,042	41,277	1,811	48
747,718	59,886	13,062	5,521	608,825	59,886	27,660	13,038	11,645	35,519	(3)	370,436	46,449	4,060	49
2.4	1.2	2.6	2.4	2.4	1.2	2.3	5.2	2.3	1.4	(3)	2.6	1.1	2.2	50
0.82	0.50	1.57	0.69	0.74	0.50	0.97	0.20	0.45	0.37	(3)	0.81	0.55	0.76	51
0.34	0.42	0.60	0.29	0.31	0.42	0.42	0.04	0.20	0.26	(3)	0.31	0.49	0.34	52
12	.....	.....	.....	8	.....	1	.....	.....	.....	.....	6	.....	.....	53
62,685	.....	.....	.....	53,713	.....	(3)	.....	.....	.....	.....	50,813	.....	.....	54
45,947	.....	.....	.....	37,761	.....	(3)	.....	.....	.....	.....	36,261	.....	.....	55
5,562	.....	.....	.....	3,062	.....	.....	.....	.....	.....	.....	3,062	.....	.....	56
6,753	.....	.....	.....	5,788	.....	(3)	.....	.....	.....	.....	5,638	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued					
		Green River—Continued			Fremont River		
		Price River (30)	San Rafael River (31)	Total	Direct (32)	Muddy River (33)	Escalante River (34)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number	506	2,272	468	333	135	142
2	Area irrigated....1939...acres	10,154	59,944	26,204	16,267	9,937	3,282
3	(a) Cropland harvested....1939...acres	8,829	56,911	20,987	14,800	6,187	1,560
4	(b) Crop failure....1939...acres	573	14	1,795	595	1,200	362
5	(c) Pasture....1939...acres	752	3,019	3,422	872	2,550	1,360
6	Area irrigated....1929...acres	18,059	53,538	28,655	.....	.....	.....
7	1919...acres	23,811	77,290	26,513	.....	.....	.....
8	Increase or decrease (-), 1929-1939....percent	-43.8	12.0	-8.6	.....	.....	.....
9	Irrigable area in enterprises....1940...acres	13,498	63,892	31,795	17,933	13,862	3,410
10	1930...acres	24,691	36,259	44,794	.....	.....	.....
11	1920[2]...acres	37,191	85,028	42,005	.....	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	3,344	3,948	5,591	1,666	3,925	128
13	1930...acres	6,632	12,721	16,139	.....	.....	.....
14	1920[2]...acres	13,380	7,738	15,492	.....	.....	.....
15	Area works were capable of supplying with water...1940...acres	12,033	63,803	27,276	16,739	10,537	3,340
16	1930...acres	22,953	55,963	29,284	.....	.....	.....
17	1920...acres	24,848	80,028	34,005	.....	.....	.....
18	Increase or decrease (-), 1930-1940....percent	-47.6	14.0	-6.9	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	1,879	3,859	1,072	472	600	58
20	1930...acres	4,894	2,425	829	.....	.....	.....
21	1920...acres	1,037	2,738	7,492	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	84.4	94.0	96.1	97.2	94.3	98.3
23	1929...percent	78.7	95.7	97.9	.....	.....	.....
24	1919...percent	95.8	96.6	78.0	.....	.....	.....
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars	622,544	1,203,230	319,790	151,990	167,800	82,115
26	(a) Cost of irrigation works and equipment....1940...dollars	609,794	1,201,160	306,785	140,335	166,450	81,580
27	(b) Investment in water rights (reported)....1940...dollars	12,750	2,070	13,005	11,655	1,350	535
28	Total investment in irrigation enterprises....1930...dollars	1,140,078	258,800	294,965	.....	.....	.....
29	1920...dollars	458,725	288,100	567,050	.....	.....	.....
30	Increase or decrease (-), 1930-1940....percent	-45.4	364.9	8.4	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	51.74	18.86	11.72	9.08	15.92	24.59
32	1930...dollars	49.67	4.62	10.07	.....	.....	.....
33	1920...dollars	18.46	3.60	16.68	.....	.....	.....
34	Average investment per acre irrigated....1939...dollars	61.31	20.07	12.20	9.34	16.89	25.02
35	Estimated final investment in existing enterprises..1940...dollars	655,844	1,215,843	329,290	161,490	167,800	82,215
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	48.59	19.03	10.36	9.01	12.11	24.11
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
37	Enterprises reporting maintenance and operation...1939...number	39	1	24	3	23	17	6	14
38	Area irrigated in these enterprises....1939...acres	9,674	(3)	59,944	840	26,189	16,252	9,937	3,282
39	Cost of maintenance and operation....1939...dollars	11,592	(3)	23,653	365	8,400	5,780	2,620	3,516
40	Average cost, per acre irrigated....1939...dollars	1.20	(3)	0.39	0.43	0.32	0.36	0.26	1.07
41	Total annual charges (reported)[4] [6]....1939...dollars	10,626	1,952	34,189	240	7,469	5,766	1,703	8,415
42	Average annual charge per acre irrigated....1939...dollars	1.49	0.24	0.58	0.30	0.34	0.39	0.25	4.33
43	Area against which charges were assessed....1939...acres	7,301	8,000	58,563	800	21,742	14,820	6,922	1,942
44	Average annual charge per acre assessed....1939...dollars	1.46	0.24	0.58	0.30	0.34	0.39	0.25	4.33
45	Total charges collected[4]....1939...dollars	10,404	4,317	40,109	250	9,250	5,330	3,920	5,412
46	Indebtedness to December 31 (reported)[5]....1939...dollars	22,200	2,792	4,500	.....	30,800	800	30,000	6,000
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number	39	1	22	2	20	14	6	7
48	Area irrigated by these enterprises....1939...acres	9,834	(3)	59,374	(3)	24,774	14,837	9,937	660
49	Water delivered....1939...acre-feet	26,311	(3)	120,156	(3)	57,285	37,679	19,606	2,578
50	Average water delivered per acre irrigated....1939...acre-feet	2.7	(3)	2.0	(3)	2.3	2.5	2.0	3.8
51	Average cost of water per acre irrigated....1939...dollars	1.50	(3)	0.60	(3)	0.33	0.38	0.26	0.95
52	Average cost of water per acre-foot delivered..1939...dollars	0.56	(3)	0.30	(3)	0.14	0.15	0.13	0.25
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number	1	.....	.....	.....	1	.....	1	.....
54	Irrigable area in these enterprises....1939...acres	(3)	.....	.....	.....	(3)	.....	(3)	.....
55	Irrigated area in these enterprises....1939...acres	(3)	.....	.....	.....	(3)	.....	(3)	.....
56	Area for which drains have been installed....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres	(3)	.....	.....	.....	(3)	.....	(3)	.....

[1] Data for 2 enterprises in San Juan River "Direct" Drainage Basin (35) (number refers to separate map) are included with San Juan River Drainage Basin total.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued									COLUMBIA RIVER			INDEPENDENT BASINS			
San Juan River					Virgin River				Snake River						
Total[1]	Monte-zuma Creek (37)	Cottonwood Wash (38)	Paria River (40)	Kanab Creek (41)	Total	Direct (42)	Ash Creek (43)	Santa Clara River (44)	Total	Raft River (45)	Goose Creek (46)	Grouse Creek (48)	Deep Creek (Tooele County) (49)	Snake Valley (50)	
135	35	82	43	100	1,302	928	149	225	44	40	4	42	68	71	1
4,784	2,395	2,147	831	1,798	17,473	11,683	2,236	3,554	2,456	2,069	387	2,098	1,480	11,061	2
3,490	1,201	2,047	767	1,708	15,076	9,537	2,183	3,356	2,446	2,069	377	1,834	1,333	4,808	3
1,007	1,007	.....	57	.....	546	493	28	25	.....	.....	.....	9	4	1,982	4
287	187	100	7	90	1,851	1,653	25	173	10	.....	10	255	143	4,271	5
9,868	.....	.....	.....	.....	19,873	.....	.....	.....	4,724	4,471	253	2,408	2,147	.....	6
9,554	.....	.....	.....	.....	27,106	.....	.....	.....	.....	.....	.....	3,469	1,983	.....	7
-51.5	.....	.....	.....	.....	-12.1	.....	.....	.....	-48.0	-53.7	53.0	-12.9	31.1	.....	8
9,304	2,555	5,229	1,673	2,110	35,467	25,496	2,802	7,169	4,422	3,972	450	2,714	1,590	12,378	9
14,680	.....	.....	.....	.....	32,710	.....	.....	.....	7,059	6,806	253	2,578	2,362	.....	10
26,646	.....	.....	.....	.....	82,450	.....	.....	.....	.....	.....	.....	4,599	4,326	.....	11
4,520	160	3,082	842	312	17,994	13,813	566	3,615	1,966	1,903	63	616	110	1,317	12
4,812	.....	.....	.....	.....	12,837	.....	.....	.....	2,335	2,335	.....	170	215	.....	13
17,092	.....	.....	.....	.....	55,344	.....	.....	.....	.....	.....	.....	1,130	2,343	.....	14
8,104	2,445	5,209	1,641	2,110	32,818	24,467	2,577	5,774	3,302	2,852	450	2,214	1,590	12,151	15
14,480	.....	.....	.....	.....	29,089	.....	.....	.....	5,504	5,251	253	2,578	2,172	.....	16
14,158	.....	.....	.....	.....	35,586	.....	.....	.....	.....	.....	.....	3,639	3,446	.....	17
-44.0	.....	.....	.....	.....	12.8	.....	.....	.....	-40.0	-45.7	77.9	-14.1	26.8	.....	18
3,320	50	3,062	810	312	15,345	12,784	341	2,220	846	783	63	116	110	1,090	19
4,612	.....	.....	.....	.....	9,216	.....	.....	.....	780	780	.....	170	25	.....	20
4,604	.....	.....	.....	.....	8,480	.....	.....	.....	.....	.....	.....	170	1,463	.....	21
59.0	98.0	41.2	50.6	85.2	53.2	47.8	86.8	61.6	74.4	72.5	86.0	94.8	93.1	91.0	22
68.1	.....	.....	.....	.....	68.3	.....	.....	.....	85.8	85.1	100.0	93.4	98.8	.....	23
67.5	.....	.....	.....	.....	76.2	.....	.....	.....	.....	.....	.....	95.3	57.5	.....	24
174,865	20,672	137,195	6,998	65,095	870,534	662,415	44,055	164,064	26,935	26,035	900	12,155	11,516	86,576	25
174,168	20,000	137,170	6,775	64,295	796,228	597,305	43,450	155,473	25,935	25,035	900	12,085	8,515	85,501	26
697	672	25	223	800	74,306	65,110	605	8,591	1,000	1,000	.....	70	3,000	1,075	27
274,632	.....	.....	.....	.....	650,176	.....	.....	.....	34,526	33,326	1,200	27,700	12,277	.....	28
206,458	.....	.....	.....	.....	1,257,981	.....	.....	.....	.....	.....	.....	28,338	8,844	.....	29
-36.3	.....	.....	.....	.....	33.9	.....	.....	.....	-22.0	-21.9	-25.0	-56.1	-6.2	.....	30
21.58	8.45	26.34	4.26	30.85	26.53	27.07	17.10	28.41	8.16	9.13	2.00	5.49	7.24	7.13	31
18.97	.....	.....	.....	.....	22.35	.....	.....	.....	6.27	6.35	4.74	10.74	5.65	.....	32
14.58	.....	.....	.....	.....	35.35	.....	.....	.....	.....	.....	.....	7.79	2.57	.....	33
36.55	8.63	63.90	8.42	36.20	49.82	56.70	19.70	46.16	10.97	12.58	2.33	5.79	7.78	7.83	34
240,970	20,672	137,475	7,158	65,095	918,504	697,485	44,055	176,964	34,935	34,035	900	16,655	24,516	88.642	35
25.90	8.09	26.29	4.28	30.85	25.90	27.36	15.72	24.68	7.90	8.57	2.00	6.14	15.42	7.16	36
15	8	5	11	14	89	56	17	16	8	4	4	7	3	29	37
4,784	2,395	2,147	767	1,755	16,971	11,550	2,071	3,350	1,637	1,250	387	1,918	500	9,190	38
4,546	795	2,774	1,105	2,027	29,676	20,065	2,221	7,390	759	434	325	791	296	4,435	39
0.95	0.33	1.29	1.44	1.15	1.75	1.74	1.07	2.21	0.46	0.35	0.84	0.41	0.59	0.48	40
10,677	398	9,300	420	3,501	32,649	22,719	2,031	7,899	401	401	.....	478	250	1,262	41
2.75	0.24	4.65	0.96	2.74	2.14	2.20	1.13	2.53	0.39	0.39	.....	0.38	0.53	0.30	42
6,882	1,640	5,000	577	1,280	18,116	11,541	2,195	4,380	2,670	2,670	.....	1,255	474	4,240	43
1.55	0.24	1.86	0.73	2.74	1.80	1.97	0.93	1.80	0.15	0.15	.....	0.38	0.53	0.30	44
450	450	.....	475	3,458	29,955	20,348	1,230	8,377	387	387	.....	600	.....	980	45
16,413	.....	2,700	.....	.....	21,149	17,824	.....	3,325	.....	.....	.....	.....	2,266	.....	46
14	8	5	8	10	76	48	14	14	6	3	3	7	3	19	47
4,706	2,395	2,147	498	1,543	13,744	9,133	1,851	2,760	946	609	337	823	1,170	6,481	48
5,121	3,675	1,364	2,111	5,853	47,342	32,125	5,314	9,903	1,452	912	540	1,125	2,555	14,172	49
1.1	1.5	0.6	4.2	3.8	3.4	3.5	2.9	3.6	1.5	1.5	1.6	1.4	2.2	2.2	50
2.35	0.33	4.37	1.54	2.43	2.29	2.37	1.08	2.85	0.64	0.46	0.89	0.29	0.52	0.45	51
2.16	0.22	6.88	0.36	0.64	0.66	0.67	0.38	0.80	0.42	0.31	0.56	0.21	0.24	0.20	52
1	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	53
(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	54
(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	56
(3)	.....	.....	.....	.....	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	INDEPENDENT BASINS—Continued				
		Beaver River (51)	Little Salt Lake (52)	Coal Creek (53)	Escalante Desert (54)	Shoal Creek (55)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number	723	391	375	66	116
2	Area irrigated....1939...acres	20,612	8,625	10,269	3,566	3,143
3	(a) Cropland harvested....1939...acres	17,146	7,670	9,581	3,061	3,118
4	(b) Crop failure....1939...acres	750	725	238	63	15
5	(c) Pasture....1939...acres	2,716	230	450	442	10
6	Area irrigated....1929...acres	25,291	.....	14,488	.....	.....
7	1919...acres	28,732	.....	27,206	.....	.....
8	Increase or decrease (-), 1929-1939....percent	-18.5	.....	-29.1	.....	.....
9	Irrigable area in enterprises....1940...acres	26,711	10,285	17,694	5,895	3,168
10	1930...acres	33,260	.....	21,258	.....	.....
11	1920[1]...acres	53,729	.....	60,891	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	6,099	1,660	7,425	2,329	25
13	1930...acres	7,969	.....	6,770	.....	.....
14	1920[1]...acres	24,997	.....	33,685	.....	.....
15	Area works were capable of supplying with water...1940...acres	25,518	9,376	17,433	4,915	3,168
16	1930...acres	31,132	.....	21,108	.....	.....
17	1920...acres	46,469	.....	33,893	.....	.....
18	Increase or decrease (-), 1930-1940....percent	-18.0	.....	-17.4	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	4,906	751	7,164	1,349	25
20	1930...acres	5,841	.....	6,620	.....	.....
21	1920...acres	17,737	.....	6,687	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	80.8	92.0	58.9	72.6	99.2
23	1929...percent	81.2	.....	68.6	.....	.....
24	1919...percent	61.8	.....	80.3	.....	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars	1,062,563	143,857	167,554	319,973	199,857
26	(a) Cost of irrigation works and equipment....1940...dollars	877,867	142,345	162,828	304,125	180,275
27	(b) Investment in water rights (reported)....1940...dollars	184,696	1,512	4,726	15,848	19,582
28	Total investment in irrigation enterprises....1930...dollars	793,337	.....	182,140	.....	.....
29	1920...dollars	842,305	.....	179,171	.....	.....
30	Increase or decrease (-), 1930-1940....percent	33.9	.....	-8.0	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	41.64	15.34	9.61	65.10	63.09
32	1930...dollars	25.48	.....	8.63	.....	.....
33	1920...dollars	18.13	.....	5.29	.....	.....
34	Average investment per acre irrigated....1939...dollars	51.55	16.68	16.32	89.73	63.59
35	Estimated final investment in existing enterprises..1940...dollars	1,065,363	176,462	167,554	321,218	199,857
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	39.88	17.16	9.47	54.49	63.09
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	
37	Enterprises reporting maintenance and operation...1939...number	82 / 7	31	36 / 8	47 / 2	9
38	Area irrigated in these enterprises....1939...acres	20,196 / 5,588	8,218	10,201 / 673	3,371 / (2)	3,127
39	Cost of maintenance and operation....1939...dollars	18,315 / 695	8,770	11,907 / 2,088	6,898 / (2)	1,971
40	Average cost, per acre irrigated....1939...dollars	0.91 / 0.12	1.07	1.17 / 3.10	2.05 / (2)	0.63
41	Total annual charges (reported)[3] [4]....1939...dollars	11,347 / 1,264	3,129	7,813 /	1,530 / 175	3,600
42	Average annual charge per acre irrigated....1939...dollars	0.66 / 0.23	0.52	0.98 /	1.18 / 0.35	1.20
43	Area against which charges were assessed....1939...acres	19,673 / 5,409	6,165	14,655 /	1,300 / 500	3,000
44	Average annual charge per acre assessed....1939...dollars	0.58 / 0.23	0.51	0.53 /	1.18 / 0.35	1.20
45	Total charges collected[3]....1939...dollars	7,675 / 2,316	3,989	7,336 /	1,825 / 160	3,570
46	Indebtedness to December 31 (reported)[4]....1939...dollars	1,500 / 2,085	.....	55 /	..... /	12,200
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number	74 / 5	36	37 / 8	43 / 2	7
48	Area irrigated by these enterprises....1939...acres	17,686 / 5,541	8,608	10,269 / 673	3,465 / (2)	3,066
49	Water delivered....1939...acre-feet	41,073 / 1,319	17,843	17,252 / 958	9,837 / (2)	9,470
50	Average water delivered per acre irrigated....1939...acre-feet	2.3 / 0.2	2.1	1.7 / 1.4	2.8 / (2)	3.1
51	Average cost of water per acre irrigated....1939...dollars	1.15 / 0.30	1.23	1.31 / 3.10	2.07 / (2)	1.28
52	Average cost of water per acre-foot delivered..1939...dollars	0.50 / 1.27	0.59	0.78 / 2.18	0.73 / (2)	0.42
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number	..... /	.....	..... /	..... /	.....
54	Irrigable area in these enterprises....1939...acres	..... /	.....	..... /	..... /	.....
55	Irrigated area in these enterprises....1939...acres	..... /	.....	..... /	..... /	.....
56	Area for which drains have been installed....1939...acres	..... /	.....	..... /	..... /	.....
57	Additional area needing drainage....1939...acres	..... /	.....	..... /	..... /	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	GREAT SALT LAKE					
			Total	Direct	Bear River			
					Total	Direct	Little Bear River	Malad River
				(1)		(2)	(3)	(4)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	[2]2,409	1,131	171	174	98	70	6
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	564	530	159	1,147	1,529	697	152
3	Diversion dams....1940..total number	1,973	829	84	185	125	59	1
4	1930..total number	1,717	805	.....	235	16	99	4
5	1920..total number	1,479	576	.....	118	8	47	2
6	(a) Concrete and masonry....1940..number	611	449	53	98	74	24	.....
7	(b) Timber....1940..number	217	71	3	16	12	4	.....
8	(c) Earth and rock....1940..number	778	222	22	59	37	21	1
9	(d) Other, mixed, and not reported..1940..number	367	87	6	12	2	10	.....
10	Main canals and laterals....1940..total length, miles	9,004.5	4,076.6	215.0	1,273.6	917.0	344.6	12.0
11	1930..total length, miles	9,237	3,631	.....	940	241	362	17
12	1920..total length, miles	11,677	4,503	.....	1,101	396	378	10
13	(a) Earth....1940..length, miles	8,742	3,857	186	1,266	916	338	12
14	(b) Lined....1940..length, miles	262.5	219.6	29.0	7.6	1.0	6.6	.....
15	1940..capacity, c.f.s.[3]	34,579	14,046	625	3,690	2,536	1,141	13
16	1930..capacity, c.f.s.[3]	30,648	13,465	.....	3,856	2,053	970	24
17	1920..capacity, c.f.s.[3]	29,447	13,165	.....	4,253	2,264	1,074	13
18	Pipe lines[4]....1940..total length, miles	172.5	139.8	28.8	5.5	1.2	1.8	2.5
19	1930..total length, miles	159.0	63.2	.....	8.0	1.9	1.7	.....
20	1920..total length, miles	154.7	100.3	.....	14.7	1.2	2.0	.....
21	(a) Concrete....1940..length, miles	40.6	40.0	19.9	3.0	.....	0.5	2.5
22	(b) Metal....1940..length, miles	60.7	39.6	6.0	1.3	0.6	0.7	.....
23	(c) Wood-stave....1940..length, miles	21.2	12.6	.....	1.2	0.6	0.6	.....
24	(d) Other....1940..length, miles	50.0	47.6	2.9	.....	.....	.....	.....
25	Storage dams....1940..total number	362	138	9	17	12	3	2
26	1930..total number	287	112	.....	25	1	3	.....
27	1920..total number	307	71	.....	17	1	6	1
28	(a) Concrete and masonry....1940..number	39	29	.....	2	2	.....	.....
29	(b) Earth and rock....1940..number	313	107	9	15	10	3	2
30	(c) Other, mixed, and not reported..1940..number	10	2	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	438	166	37	19	14	3	2
32	(a) 1-99 acre-feet capacity....1940..number	254	94	36	8	6	2	.....
33	(b) 100-999 acre-feet capacity....1940..number	105	51	.....	6	6	.....	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	79	21	1	5	2	1	2
35	1940..total capacity, ac.-ft.[5]	3,417,704	2,475,525	3,934	1,440,927	1,423,664	15,263	([6])
36	1930..total number	413	128	.....	35	1	4	2
37	1930..total capacity, ac.-ft.	1,093,252	373,106	.....	6,306	50	168	2,001
38	Wells, flowing....1940..number	1,216	799	188	27	12	15	.....
39	1930..number	1,663	698	.....	90	.....	53	.....
40	1920..number	1,256	395	.....	114	.....	29	2
41	1940..yield, g.p.m.	83,838	64,451	7,886	1,670	600	1,070	.....
42	1930..yield, g.p.m.	104,670	34,775	.....	3,795	.....	1,829	.....
43	1920..yield, g.p.m.	96,371	34,780	.....	5,167	.....	3,025	219
44	Wells, pumped....1940..number	286	86	48	11	8	2	1
45	1930..number	346	102	.....	83	.....	1	.....
46	1920..number	192	68	.....	57	2	.....	.....
47	1940..yield, g.p.m.	122,528	29,515	16,226	4,760	2,160	([6])	([6])
48	1930..yield, g.p.m.	120,333	31,186	.....	20,326	.....	300	.....
49	1920..yield, g.p.m.	39,059	16,067	.....	11,597	902	.....	.....
50	Pumping plants....1940..total number	411	162	49	44	36	7	1
51	1930..total number	429	173	.....	131	27	7	.....
52	Prime movers....1940..capacity, hp	14,216	10,153	450	1,283	926	352	([6])
53	1930..capacity, hp	11,381	8,196	.....	1,785	780	104	.....
54	1920..capacity, hp	11,392	9,917	.....	2,443	1,678	50	.....
55	(a) Electric....1940..number	293	141	45	38	33	5	.....
56	1940..capacity, hp	11,163	9,670	406	961	861	100	.....
57	(b) Internal-combustion....1940..number	103	20	4	5	3	1	1
58	1940..capacity, hp	1,615	233	44	72	65	([6])	([6])
59	(c) Other....1940..number	15	[7]1	.....	[7]1	.....	[7]1	.....
60	1940..capacity, hp	1,438	250	.....	250	.....	250	.....
61	Pumps....1940..total number	409	161	49	44	36	7	1
62	1930..number	460	204	.....	136	30	7	.....
63	1920..number	291	167	.....	103	29	4	.....
64	1940..capacity, g.p.m.	835,862	656,790	16,217	58,475	45,675	12,200	([6])
65	1930..capacity, g.p.m.	877,942	746,160	.....	82,715	47,334	4,755	.....
66	1920..capacity, g.p.m.	783,588	686,245	.....	103,370	74,845	3,740	.....
67	(a) Centrifugal....1940..number	285	119	34	37	30	6	1
68	1940..capacity, g.p.m.	330,969	209,672	8,972	50,950	39,050	11,300	([6])
69	1940..average capacity, g.p.m.	1,161	1,762	264	1,377	1,302	1,883	([6])
70	(b) Turbine....1940..number	102	27	14	7	6	1	.....
71	1940..capacity, g.p.m.	72,733	18,245	7,145	7,525	6,625	([6])	.....
72	1940..average capacity, g.p.m.	713	676	510	1,075	1,104	([6])	.....
73	(c) Plunger....1940..number	9	6	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	666	515	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	74	86	.....	.....	.....	.....	.....
76	(d) Other....1940..number	13	9	1	.....	.....	.....	.....
77	1940..capacity, g.p.m.	431,494	428,358	([6])	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	35	40	45	38	36	47	([6])
79	1930..average, feet	36	41	.....	43	36	28	.....
80	1920..average, feet	25	38	.....	42	41	18	.....
81	from pumped wells....1940..average, feet	38	42	46	43	42	([6])	.....
82	from surface sources....1940..average, feet	28	37	12	36	34	47	([6])

[1] Data for 1 enterprise in Deep Creek (Box Elder County) Drainage Basin (47) (number refers to separate map) are included with State totals. Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State total. [2] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1. [3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [4] Includes siphons and farm pipe lines reported. [5] Total capacity of all reservoirs regardless of size. [6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [7] Data for less than 3 enterprises shown with permission of the enterprise involved.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	GREAT SALT LAKE—Continued						
		Weber River					Jordan River	
		Total	Direct	Chalk Creek	East Canyon Creek	Ogden River	Total	Direct
			(5)	(6)	(7)	(8)		(9)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	312	206	18	25	63	474	171
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	366	393	171	180	407	546	536
3	Diversion dams....1940..total number	207	131	20	18	38	353	105
4	1930..total number	314	102	.....	24	53	256	44
5	1920..total number	256	72	.....	38	27	202	67
6	(a) Concrete and masonry....1940..number	60	35	.....	9	16	238	93
7	(b) Timber....1940..number	17	14	1	1	1	35	4
8	(c) Earth and rock....1940..number	85	58	11	6	10	56	7
9	(d) Other, mixed, and not reported..1940..number	45	24	8	2	11	24	1
10	Main canals and laterals....1940..total length, miles	966.6	669.3	28.0	38.0	231.3	1,621.4	575.4
11	1930..total length, miles	855	318	.....	33	291	1,836	417
12	1920..total length, miles	676	227	.....	54	138	2,726	516
13	(a) Earth....1940..length, miles	917	642	28	38	209	1,488	524
14	(b) Lined....1940..length, miles	49.6	27.3	.....	.....	22.3	133.4	51.4
15	1940..capacity, c.f.s.[1]	3,546	2,408	109	217	812	6,186	1,085
16	1930..capacity, c.f.s.[1]	3,029	2,003	.....	180	450	6,580	1,996
17	1920..capacity, c.f.s.[1]	2,823	1,417	.....	179	480	6,089	2,029
18	Pipe lines[2]....1940..total length, miles	25.0	10.1	.....	.....	14.9	80.5	58.9
19	1930..total length, miles	20.5	0.3	.....	.....	7.6	34.7	13.8
20	1920..total length, miles	8.2	1.3	.....	.....	1.8	77.4	2.3
21	(a) Concrete....1940..length, miles	3.6	2.4	.....	.....	1.2	13.5	4.5
22	(b) Metal....1940..length, miles	4.8	3.3	.....	.....	1.5	27.5	20.0
23	(c) Wood-stave....1940..length, miles	8.3	0.9	.....	.....	7.4	3.1	1.1
24	(d) Other....1940..length, miles	8.3	3.5	.....	.....	4.8	36.4	33.3
25	Storage dams....1940..total number	44	30	9	2	3	68	17
26	1930..total number	38	3	.....	1	6	49	3
27	1920..total number	18	1	.....	1	.....	36	8
28	(a) Concrete and masonry....1940..number	1	.....	.....	1	.....	26	12
29	(b) Earth and rock....1940..number	43	30	9	1	3	40	4
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	2	1
31	Reservoirs....1940..total number	42	28	9	2	3	68	20
32	(a) 1-99 acre-feet capacity....1940..number	28	16	9	1	2	22	13
33	(b) 100-999 acre-feet capacity....1940..number	7	7	.....	.....	.....	38	7
34	(c) 1,000 and over acre-feet capacity....1940..number	7	5	.....	1	1	8	.....
35	1940..total capacity, ac.-ft.[3]	152,488	80,781	181	(4)	43,501	878,176	1,635
36	1930..total number	34	5	.....	1	1	59	3
37	1930..total capacity, ac.-ft.	77,358	74,301	.....	9	1	289,442	518
38	Wells, flowing....1940..number	8	5	.....	.....	3	576	208
39	1930..number	85	.....	.....	.....	9	523	2
40	1920..number	33	12	.....	.....	9	248	18
41	1940..yield, g.p.m.	216	156	.....	.....	60	54,679	6,576
42	1930..yield, g.p.m.	4,081	.....	.....	.....	1,786	26,899	60
43	1920..yield, g.p.m.	1,358	388	.....	.....	320	28,255	222
44	Wells, pumped....1940..number	4	.....	.....	.....	4	23	13
45	1930..number	10	.....	.....	.....	3	9	.....
46	1920..number	6	.....	.....	.....	1	5	.....
47	1940..yield, g.p.m.	1,400	.....	.....	.....	1,400	7,129	2,269
48	1930..yield, g.p.m.	7,385	.....	.....	.....	500	3,475	.....
49	1920..yield, g.p.m.	1,640	.....	.....	.....	230	2,830	.....
50	Pumping plants....1940..total number	13	6	.....	.....	7	56	29
51	1930..total number	227	44	.....	.....	183	8,193	3,931
52	Prime movers....1940..capacity, hp.	376	142	.....	.....	13	6,035	1,632
53	1930..capacity, hp.	232	106	.....	.....	7	7,242	4,301
54	1920..capacity, hp.	24	8	.....	.....	2	18	4
55	(a) Electric....1940..number	10	6	.....	.....	4	48	24
56	1940..capacity, hp.	179	44	.....	.....	135	8,124	3,899
57	(b) Internal-combustion....1940..number	3	.....	.....	.....	3	8	5
58	1940..capacity, hp.	48	.....	.....	.....	48	69	32
59	(c) Other....1940..number	.....	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
61	Pumps....1940..total number	13	6	.....	.....	7	55	28
62	1930..number	26	9	.....	.....	3	42	14
63	1920..number	25	10	.....	.....	1	39	21
64	1940..capacity, g.p.m.	16,300	3,900	.....	.....	12,400	565,798	61,630
65	1930..capacity, g.p.m.	24,605	9,545	.....	.....	500	638,840	545,000
66	1920..capacity, g.p.m.	27,145	6,615	.....	.....	230	555,730	389,000
67	(a) Centrifugal....1940..number	12	5	.....	.....	7	36	21
68	1940..capacity, g.p.m.	16,075	3,675	.....	.....	12,400	133,675	60,195
69	1940..average capacity, g.p.m.	1,340	735	.....	.....	1,771	3,713	2,866
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	6	3
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	3,575	1,225
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	596	408
73	(c) Plunger....1940..number	1	1	.....	.....	.....	5	4
74	1940..capacity, g.p.m.	(4)	(4)	.....	.....	.....	290	210
75	1940..average capacity, g.p.m.	(4)	(4)	.....	.....	.....	58	52
76	(d) Other....1940..number	.....	.....	.....	.....	.....	8	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	428,258	.....
78	Pumping lift, from all sources....1940..average, feet	19	17	.....	.....	21	44	49
79	1930..average, feet	20	17	.....	.....	32	56	82
80	1920..average, feet	16	14	.....	.....	33	36	20
81	from pumped wells....1940..average, feet	17	18	.....	.....	17	41	51
82	from surface sources...1940..average, feet	21	17	.....	.....	28	46	47

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

GREAT SALT LAKE—Continued				SEVIER LAKE								COLORADO RIVER			
Jordan River—Continued				Sevier River											
Utah Lake					Upper Sevier River										
Total	Direct (10)	Spanish Fork System (11)	Provo River System (12)	Total	Total	Direct (13)	East Fork Sevier River			San Pitch River (16)	Lower Sevier River (17)	Total	Direct (18)	Dolores River (20)	
							Total	Direct (14)	Otter Creek (15)						
303	23	64	216	351	285	174	33	17	16	78	66	616	62	17	1
551	954	979	381	769	660	578	346	333	359	978	1,240	661	90	158	2
248	40	82	126	310	281	143	36	23	13	102	29	617	45	18	3
.....	.....	.....	.....	184	.....	.....	.....	.....	12	49	.....	345	.....	.....	4
.....	.....	.....	.....	95	.....	.....	.....	.....	2	26	.....	710	36	.....	5
145	29	58	58	37	30	14	6	3	3	10	7	80	2	.....	6
31	.....	5	26	40	39	10	3	2	1	26	1	64	2	.....	7
49	10	12	27	132	115	55	19	12	7	41	17	351	38	17	8
23	1	7	15	101	97	64	8	6	2	25	4	122	3	1	9
1,046.0	90.1	470.8	485.1	1,306.7	954.7	510.0	90.0	42.0	48.0	354.7	352.0	3,163.4	54.5	43.1	10
.....	.....	.....	.....	1,487	.....	.....	.....	.....	38	404	.....	2,812	15	.....	11
.....	.....	.....	.....	2,586	.....	.....	.....	.....	51	773	.....	3,396	156	.....	12
964	81	407	476	1,297	951	507	90	42	48	354	346	3,142	54	43	13
82.0	9.1	63.8	9.1	9.7	3.7	3.0	.....	.....	.....	0.7	6.0	21.4	0.5	0.1	14
5,100	1,416	1,438	2,246	6,760	4,449	2,433	368	208	160	1,648	2,311	11,646	198	171	15
.....	.....	.....	.....	6,088	.....	.....	.....	.....	534	1,091	.....	7,873	38	.....	16
.....	.....	.....	.....	7,762	.....	.....	.....	.....	86	970	.....	6,026	286	.....	17
21.6	9.9	4.5	7.2	15.4	10.3	4.9	3.0	.....	3.0	2.4	5.1	14.5	2.6	.....	18
.....	.....	.....	.....	5.1	.....	.....	.....	.....	.....	0.1	.....	3.9	.....	.....	19
.....	.....	.....	.....	9.0	.....	.....	.....	.....	.....	3.4	.....	12.9	0.6	.....	20
9.0	4.5	1.5	3.0	0.2	0.2	.....	.....	.....	.....	0.2	.....	0.1	.....	.....	21
7.5	3.4	1.3	2.8	8.7	3.7	2.7	.....	.....	.....	1.0	5.0	11.1	2.5	.....	22
2.0	0.5	0.2	1.3	5.6	5.5	2.2	3.0	.....	3.0	0.3	0.1	2.8	0.1	.....	23
3.1	1.5	1.5	0.1	0.9	0.9	.....	.....	.....	.....	0.9	.....	0.5	.....	.....	24
51	4	10	37	76	42	18	5	1	4	19	34	119	3	3	25
.....	.....	.....	.....	51	.....	.....	.....	.....	2	14	.....	64	.....	.....	26
.....	.....	.....	.....	50	.....	.....	.....	.....	3	20	.....	145	5	.....	27
14	1	1	12	3	1	1	.....	.....	.....	.....	2	4	.....	.....	28
36	3	8	25	73	41	17	5	1	4	19	32	110	3	3	29
1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	30
48	3	9	36	83	44	18	5	1	4	21	39	120	4	2	31
9	1	2	6	51	18	7	1	.....	1	10	33	56	4	1	32
31	.....	7	24	13	13	4	3	.....	3	6	.....	31	.....	1	33
8	2	.....	6	19	13	7	1	1	.....	5	6	33	.....	.....	34
876,541	860,020	1,359	15,162	465,872	188,006	99,350	57,391	(4)	4,801	31,265	277,866	419,549	90	(4)	35
.....	.....	.....	.....	47	.....	.....	.....	.....	3	14	.....	75	.....	.....	36
.....	.....	.....	.....	511,227	.....	.....	.....	.....	63,800	7,508	.....	125,536	.....	.....	37
368	10	64	294	362	303	290	.....	.....	.....	13	59	.....	.....	.....	38
.....	.....	.....	.....	106	.....	.....	.....	.....	.....	1	.....	2	.....	.....	39
.....	.....	.....	.....	258	.....	.....	.....	.....	6	16	.....	6	.....	.....	40
48,103	918	4,098	43,087	17,604	9,710	9,105	.....	.....	.....	605	7,894	.....	.....	.....	41
.....	.....	.....	.....	10,423	.....	.....	.....	.....	.....	900	.....	70	.....	.....	42
.....	.....	.....	.....	38,863	.....	.....	.....	.....	112	3	.....	196	.....	.....	43
10	.....	2	8	14	12	8	.....	.....	.....	4	2	2	.....	.....	44
.....	.....	.....	.....	3	.....	.....	.....	.....	.....	1	.....	1	.....	.....	45
.....	.....	.....	.....	3	.....	.....	.....	.....	.....	1	.....	4	.....	.....	46
4,860	.....	(4)	3,860	7,069	6,389	3,929	.....	.....	.....	2,460	(4)	(4)	.....	.....	47
.....	.....	.....	.....	2,170	.....	.....	.....	.....	.....	1,000	.....	1,380	.....	.....	48
.....	.....	.....	.....	178	.....	.....	.....	.....	.....	150	.....	2,850	.....	.....	49
27	14	.....	13	16	13	9	.....	.....	.....	4	3	47	11	.....	50
4,262	4,000	.....	262	267	232	137	.....	.....	.....	95	35	1,803	235	.....	51
.....	.....	.....	.....	122	.....	.....	.....	.....	.....	25	.....	1,086	55	.....	52
.....	.....	.....	.....	117	.....	.....	.....	.....	.....	5	.....	789	212	.....	53
.....	.....	.....	.....	8	.....	.....	.....	.....	.....	2	.....	12	3	.....	54
24	14	.....	10	5	5	3	.....	.....	.....	2	.....	3	.....	.....	55
4,225	4,000	.....	225	95	95	65	.....	.....	.....	(4)	.....	42	.....	.....	56
3	.....	.....	3	9	7	5	.....	.....	.....	2	2	35	10	.....	57
37	.....	.....	37	146	136	71	.....	.....	.....	(4)	(4)	629	215	.....	58
.....	.....	.....	.....	2	1	1	.....	.....	.....	.....	1	9	1	.....	59
.....	.....	.....	.....	(4)	(4)	(4)	.....	.....	.....	.....	(4)	1,132	(4)	.....	60
27	14	.....	13	16	13	9	.....	.....	.....	4	3	44	11	.....	61
.....	.....	.....	.....	5	.....	.....	.....	.....	.....	1	.....	13	3	.....	62
.....	.....	.....	.....	10	.....	.....	.....	.....	.....	1	.....	26	10	.....	63
504,168	488,250	.....	15,918	19,068	12,988	9,628	.....	.....	.....	3,360	6,080	69,845	19,200	.....	64
.....	.....	.....	.....	5,770	.....	.....	.....	.....	.....	1,100	.....	19,320	6,350	.....	65
.....	.....	.....	.....	18,318	.....	.....	.....	.....	.....	450	.....	58,027	17,812	.....	66
15	8	.....	7	7	6	6	.....	.....	.....	.....	1	39	11	.....	67
73,480	60,750	.....	12,730	7,525	7,225	7,225	.....	.....	.....	.....	(4)	58,570	19,200	.....	68
4,899	7,594	.....	1,819	1,075	1,204	1,204	.....	.....	.....	.....	(4)	1,502	1,745	.....	69
3	.....	.....	3	7	6	2	.....	.....	.....	4	1	2	.....	.....	70
2,350	.....	.....	2,350	11,160	5,760	(4)	.....	.....	.....	3,360	(4)	(4)	.....	.....	71
783	.....	.....	783	1,594	960	(4)	.....	.....	.....	840	(4)	(4)	.....	.....	72
1	.....	.....	1	1	1	1	.....	.....	.....	.....	.....	1	.....	.....	73
(4)	.....	.....	(4)	(4)	(4)	(4)	.....	.....	.....	.....	.....	(4)	.....	.....	74
(4)	.....	.....	(4)	(4)	(4)	(4)	.....	.....	.....	.....	.....	(4)	.....	.....	75
8	6	.....	2	1	.....	.....	.....	.....	.....	.....	1	2	.....	.....	76
428,258	427,500	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	(4)	(4)	.....	.....	77
35	56	.....	31	31	35	28	.....	.....	.....	50	16	20	15	.....	78
.....	.....	.....	.....	27	.....	.....	.....	.....	.....	40	.....	25	15	.....	79
.....	.....	.....	.....	30	.....	.....	.....	.....	.....	4	.....	31	19	.....	80
25	.....	.....	25	40	46	41	.....	.....	.....	50	(4)	(4)	.....	.....	81
16	56	.....	40	13	14	14	.....	.....	.....	.....	8	19	15	.....	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued						
		Green River						
		Total	Direct[1] (21)	Henrys Fork (24)	Brush Creek (25)	Ashley Creek (26)	Duchesne River (27)	Willow Creek (29)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	342	73	12	11	19	138	18
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	945	218	533	473	2,144	1,279	152
3	Diversion dams....1940..total number	345	57	11	11	18	159	21
4	1930..total number	167	2	.....	.....	8	66	.....
5	1920..total number	414	2	.....	.....	109	156	.....
6	(a) Concrete and masonry....1940..number	48	4	1	.....	5	17	.....
7	(b) Timber....1940..number	57	10	.....	2	3	36	4
8	(c) Earth and rock....1940..number	180	36	10	6	4	87	5
9	(d) Other, mixed, and not reported..1940..number	60	7	.....	3	6	19	12
10	Main canals and laterals....1940..total length, miles	2,593.9	154.8	27.0	26.2	85.0	1,871.0	48.0
11	1930..total length, miles	2,157	20	.....	.....	78	1,583	.....
12	1920..total length, miles	2,451	29	.....	.....	90	1,314	.....
13	(a) Earth....1940..length, miles	2,588	152	27	26	85	1,869	48
14	(b) Lined....1940..length, miles	5.9	2.8	.....	0.2	.....	2.0	.....
15	1940..capacity, c.f.s.[3]	9,818	370	113	114	1,002	4,962	65
16	1930..capacity, c.f.s.[3]	6,264	71	.....	.....	646	4,066	.....
17	1920..capacity, c.f.s.[3]	4,047	71	.....	.....	113	2,416	.....
18	Pipe lines[4]....1940..total length, miles	3.9	1.4	.....	0.2	0.2	1.8	.....
19	1930..total length, miles	0.7	.....	.....	.....	.....	0.6	.....
20	1920..total length, miles	0.9	0.3	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	1.4	0.7	.....	.....	.....	0.3	.....
23	(c) Wood-stave....1940..length, miles	2.3	0.7	.....	0.2	0.2	1.0	.....
24	(d) Other....1940..length, miles	0.2	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	56	7	3	1	2	30	.....
26	1930..total number	28	.....	.....	.....	.....	14	.....
27	1920..total number	11	.....	.....	.....	.....	8	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	52	6	3	1	2	30	.....
30	(c) Other, mixed, and not reported..1940..number	4	1	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	54	6	3	1	2	30	.....
32	(a) 1-99 acre-feet capacity....1940..number	6	2	.....	.....	.....	2	.....
33	(b) 100-999 acre-feet capacity....1940..number	18	3	.....	.....	1	7	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	30	1	3	1	1	21	.....
35	1940..total capacity, ac.-ft.[6]	401,140	2,565	6,900	(7)	(7)	346,851	.....
36	1930..total number	39	.....	.....	.....	.....	24	.....
37	1930..total capacity, ac.-ft.	112,587	.....	.....	.....	.....	39,745	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	.....
39	1930..number	1	.....	.....	.....	.....	1	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.	30	.....	.....	.....	.....	30	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	.....	.....	.....	.....	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....
46	1920..number	1	1	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	1,350	1,350	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	30	27	.....	.....	.....	[5] 1	.....
51	1930..total number	8	7	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp.	1,525	1,420	.....	.....	.....	10	.....
53	1930..capacity, hp.	991	951	.....	.....	.....	.....	.....
54	1920..capacity, hp.	543	537	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	1	1	.....	.....	.....	.....	.....
56	1940..capacity, hp.	(7)	(7)	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	23	20	.....	.....	.....	1	.....
58	1940..capacity, hp.	408	303	.....	.....	.....	10	.....
59	(c) Other....1940..number	6	6	.....	.....	.....	.....	.....
60	1940..capacity, hp.	1,102	1,102	.....	.....	.....	.....	.....
61	Pumps....1940..total number	28	25	.....	.....	.....	1	.....
62	1930..number	9	8	.....	.....	.....	.....	.....
63	1920..number	13	10	.....	.....	.....	2	.....
64	1940..capacity, g.p.m.	48,550	42,450	.....	.....	.....	1,800	.....
65	1930..capacity, g.p.m.	11,470	10,120	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	39,315	11,580	.....	.....	.....	27,000	.....
67	(a) Centrifugal....1940..number	26	24	.....	.....	.....	.....	.....
68	1940..capacity, g.p.m.	38,750	34,450	.....	.....	.....	.....	.....
69	1940..average capacity, g.p.m.	1,490	1,435	.....	.....	.....	.....	.....
70	(b) Turbine....1940..number	1	1	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	(7)	(7)	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	(7)	(7)	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
76	(d) Other....1940..number	[5] 1	.....	.....	.....	.....	1	.....
77	1940..capacity, g.p.m.	1,800	.....	.....	.....	.....	1,800	.....
78	Pumping lift, from all sources....1940..average, feet	19	19	.....	.....	.....	8	.....
79	1930..average, feet	22	24	.....	.....	.....	.....	.....
80	1920..average, feet	29	26	.....	.....	.....	70	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	19	19	.....	.....	.....	8	.....

[1] Data for 2 enterprises in White River Drainage Basin (28) (number refers to separate map) are included with Green River "Direct" Drainage Basin (21).
[2] Data for 2 enterprises in San Juan River "Direct" Drainage Basin (35) (number refers to separate map) are included in San Juan River Drainage Basin total.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued													
Green River—Continued		Fremont River			Escalante River	San Juan River			Paria River	Kanab Creek	Virgin River		
Price River (30)	San Rafael River (31)	Total	Direct (32)	Muddy River (33)	(34)	Total[2]	Montezuma Creek (37)	Cottonwood Wash (38)	(40)	(41)	Total	Direct (42)	
44	27	24	18	6	14	15	8	5	14	15	113	70	1
373	2,363	1,136	930	1,756	239	540	306	1,042	117	141	290	350	2
35	33	26	20	6	17	22	13	7	16	8	120	72	3
21	13	31	.....	.....	.....	9	.....	.....	.....	.....	118	.....	4
13	11	148	.....	.....	.....	16	.....	.....	.....	.....	85	.....	5
8	13	7	5	2	1	7	3	2	.....	.....	15	8	6
.....	2	2	2	.....	.....	.....	.....	.....	.....	.....	3	3	7
19	13	9	6	3	10	7	5	2	14	7	69	41	8
8	5	8	7	1	6	8	5	3	2	1	33	20	9
147.9	234.0	109.2	81.2	28.0	52.0	52.0	18.0	25.0	23.3	20.5	214.9	127.4	10
126	155	127	.....	.....	.....	95	.....	.....	.....	.....	303	.....	11
195	740	186	.....	.....	.....	122	.....	.....	.....	.....	349	.....	12
147	234	109	81	28	52	52	18	2	23	20	201	115	13
0.9	.....	0.2	0.2	.....	.....	.....	.....	.....	0.3	0.5	13.9	12.4	14
571	2,621	557	276	281	50	162	50	88	41	48	601	385	15
353	830	477	.....	.....	.....	200	.....	.....	.....	.....	732	.....	16
636	591	548	.....	.....	.....	332	.....	.....	.....	.....	645	.....	17
0.8	.....	0.4	0.4	.....	.....	.....	.....	.....	.....	.....	7.6	6.2	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.1	.....	19
0.6	.....	1.0	.....	.....	.....	7.0	.....	.....	.....	.....	3.2	.....	20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.1	0.1	21
0.4	.....	0.2	0.2	.....	.....	.....	.....	.....	.....	.....	7.0	5.9	22
0.2	.....	0.2	0.2	.....	.....	.....	.....	.....	.....	.....	0.2	0.2	23
0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.3	.....	24
10	3	16	10	6	3	1	.....	.....	3	9	25	15	25
7	4	10	.....	.....	.....	.....	.....	.....	.....	.....	23	.....	26
1	2	117	.....	.....	.....	4	.....	.....	.....	.....	7	.....	27
.....	.....	3	3	.....	.....	.....	.....	.....	.....	.....	1	1	28
7	3	12	6	6	3	1	.....	.....	3	9	24	14	29
3	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
10	2	18	12	6	3	[5] 1	.....	.....	4	9	25	14	31
2	.....	8	4	4	.....	1	.....	.....	4	9	23	13	32
5	2	7	5	2	3	.....	.....	.....	.....	.....	2	1	33
3	.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
34,736	(7)	15,353	14,488	865	1,450	3	.....	.....	18	133	903	190	35
6	4	11	.....	.....	.....	.....	.....	.....	.....	.....	21	.....	36
50,685	17,007	4,376	.....	.....	.....	.....	.....	.....	.....	.....	1,761	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	39
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	4	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	.....	42
.....	.....	.....	.....	.....	.....	90	.....	.....	.....	.....	106	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,380	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....	49
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	1	50
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	51
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	43	16	52
40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	56
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	57
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	60
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	3	61
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	63
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,095	1,125	64
1,350	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	900	.....	66
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	67
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	68
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	(7)	77
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	34	30	78
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82	.....	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80	.....	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	81
(7)	(7)	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	30	82

[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Con.		COLUMBIA RIVER			INDEPENDENT BASINS	
		Virgin River—Continued		Snake River				
		Ash Creek (43)	Santa Clara River (44)	Total	Raft River (45)	Goose Creek (46)	Grouse Creek (48)	Deep Creek (Tooele County) (49)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises.....1940..number.....	19	24	11	7	4	10	5
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	136	241	300	407	112	221	318
3	Diversion dams.....1940..total number.....	20	28	33	31	2	9	13
4	1930..total number.....	.....	.....	58	44	14	12	1
5	1920..total number.....	.....	.....	.....	.....	.....	14	3
6	(a) Concrete and masonry.....1940..number.....	3	4	4	2	2	.....	.....
7	(b) Timber.....1940..number.....	.....	.....	7	7	.....	.....	11
8	(c) Earth and rock.....1940..number.....	14	14	1	1	.....	8	2
9	(d) Other, mixed, and not reported..1940..number.....	3	10	21	21	.....	1	.....
10	Main canals and laterals.....1940..total length, miles.....	31.5	56.0	18.0	18.0	.....	23.0	32.0
11	1930..total length, miles.....	.....	.....	33	21	12	35	37
12	1920..total length, miles.....	.....	.....	.....	.....	.....	45	36
13	(a) Earth.....1940..length, miles.....	30	56	18	18	.....	23	32
14	(b) Lined.....1940..length, miles.....	1.5	.....	.....	.....	.....	.....	.....
15	1940..capacity, c.f.s.[1].....	81	135	155	130	25	37	51
16	1930..capacity, c.f.s.[1].....	.....	.....	43	34	9	26	37
17	1920..capacity, c.f.s.[1].....	.....	.....	.....	.....	.....	35	50
18	Pipe lines[2].....1940..total length, miles.....	.....	1.4	.....	.....	.....	.....	.....
19	1930..total length, miles.....	.....	.....	0.7	0.7	.....	.....	.....
20	1920..total length, miles.....	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete.....1940..length, miles.....	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal.....1940..length, miles.....	.....	1.1	.....	.....	.....	.....	.....
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other.....1940..length, miles.....	.....	0.3	.....	.....	.....	.....	.....
25	Storage dams.....1940..total number.....	2	8	3	3	.....	2	1
26	1930..total number.....	.....	.....	2	1	1	2	1
27	1920..total number.....	.....	.....	.....	.....	.....	3	.....
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	2	8	1	1	.....	2	1
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	2	2	.....	.....	.....
31	Reservoirs.....1940..total number.....	2	9	3	3	.....	2	1
32	(a) 1-99 acre-feet capacity.....1940..number.....	2	8	2	2	.....	2	1
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	1	1	1	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]..	(4)	708	315	315	.....	(4)	(4)
36	1930..total number.....	.....	.....	3	3	.....	2	2
37	1930..total capacity, ac.-ft....	.....	.....	367	367	.....	462	1
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	1	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	(4)	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	1	1	.....	.....	.....	.....	.....
45	1930..number.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number.....	.....	.....	.....	.....	.....	1	.....
47	1940..yield, g.p.m.....	(4)	(4)	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	265	.....
50	Pumping plants.....1940..total number.....	1	1	.....	.....	.....	.....	.....
51	1930..total number.....	.....	.....	.....	.....	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	(4)	(4)	.....	.....	.....	.....	.....
53	1930..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp.....	.....	.....	.....	.....	.....	6	.....
55	(a) Electric.....1940..number.....	1	1	.....	.....	.....	.....	.....
56	1940..capacity, hp.....	(4)	(4)	.....	.....	.....	.....	.....
57	(b) Internal-combustion.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
58	1940..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....
59	(c) Other.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....
61	Pumps.....1940..total number.....	1	1	.....	.....	.....	.....	.....
62	1930..number.....	.....	.....	.....	.....	.....	.....	.....
63	1920..number.....	.....	.....	.....	.....	.....	3	.....
64	1940..capacity, g.p.m.....	(4)	(4)	.....	.....	.....	.....	.....
65	1930..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.....	.....	.....	.....	.....	.....	265	.....
67	(a) Centrifugal.....1940..number.....	.....	1	.....	.....	.....	.....	.....
68	1940..capacity, g.p.m.....	.....	(4)	.....	.....	.....	.....	.....
69	1940..average capacity, g.p.m..	.....	(4)	.....	.....	.....	.....	.....
70	(b) Turbine.....1940..number.....	1	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.....	(4)	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m..	(4)	.....	.....	.....	.....	.....	.....
73	(c) Plunger.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m..	.....	.....	.....	.....	.....	.....	.....
76	(d) Other.....1940..number.....	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources.....1940..average, feet.....	(4)	(4)	.....	.....	.....	.....	.....
79	1930..average, feet.....	.....	.....	.....	.....	.....	.....	.....
80	1920..average, feet.....	.....	.....	.....	.....	.....	240	.....
81	from pumped wells.....1940..average, feet.....	(4)	(4)	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet.....	.....	.....	.....	.....	.....	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Total capacity of all reservoirs regardless of size. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920—Continued

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		INDEPENDENT BASINS—Continued				
			Snake Valley (50)	Beaver River (51)	Little Salt Lake (52)	Coal Creek (53)	Escalante Desert (54)	Shoal Creek (55)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises	1940..number	35	98	40	45	54	12
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	347	260	234	387	91	264
3	Diversion dams	1940..total number	42	53	9	14	27	17
4		1930..total number	.....	57	.....	14	.....	.....
5		1920..total number	.....	36	.....	22	.....	.....
6	(a) Concrete and masonry	1940..number	13	10	4	3	.....	11
7	(b) Timber	1940..number	8	15	.....	1	.....	.....
8	(c) Earth and rock	1940..number	17	21	5	8	7	4
9	(d) Other, mixed, and not reported	1940..number	4	7	.....	2	20	2
10	Main canals and laterals	1940..total length, miles	62.0	99.4	70.0	66.4	48.0	23.0
11		1930..total length, miles	.....	238	.....	92	.....	.....
12		1920..total length, miles	.....	439	.....	199	.....	.....
13	(a) Earth	1940..length, miles	52	98	70	66	48	23
14	(b) Lined	1940..length, miles	10.0	1.4	.....	0.4	.....	.....
15		1940..capacity, c.f.s.[1]	147	1,198	93	260	121	65
16		1930..capacity, c.f.s.[1]	.....	794	.....	467	.....	.....
17		1920..capacity, c.f.s.[1]	.....	775	.....	1,158	.....	.....
18	Pipe lines[2]	1940..total length, miles	.....	0.3	0.2	.....	1.0	1.3
19		1930..total length, miles	.....	1.7	.....	.....	.....	.....
20		1920..total length, miles	.....	1.5	.....	0.7	.....	.....
21	(a) Concrete	1940..length, miles	.....	0.3	.....	.....	.....	.....
22	(b) Metal	1940..length, miles	.....	.....	0.2	.....	.....	1.1
23	(c) Wood-stave	1940..length, miles	.....	.....	.....	.....	.....	0.2
24	(d) Other	1940..length, miles	.....	.....	.....	.....	1.0	.....
25	Storage dams	1940..total number	2	8	3	.....	6	4
26		1930..total number	.....	7	.....	1	.....	.....
27		1920..total number	.....	14	.....	2	.....	.....
28	(a) Concrete and masonry	1940..number	.....	.....	.....	.....	.....	3
29	(b) Earth and rock	1940..number	2	7	3	.....	6	1
30	(c) Other, mixed, and not reported	1940..number	.....	1	.....	.....	.....	.....
31	Reservoirs	1940..total number	2	9	36	3	8	5
32	(a) 1-99 acre-feet capacity	1940..number	1	1	34	3	7	2
33	(b) 100-999 acre-feet capacity	1940..number	.....	7	2	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	1	1	.....	.....	1	3
35		1940..total capacity, ac.-ft.[3]	(4)	28,296	1,639	7	10,029	12,366
36		1930..total number	.....	5	.....	4	.....	.....
37		1930..total capacity, ac.-ft.	.....	31,905	.....	50	.....	.....
38	Wells, flowing	1940..number	.....	1	52	.....	1	.....
39		1930..number	.....	9	.....	1	.....	.....
40		1920..number	.....	1	.....	135	.....	.....
41		1940..yield, g.p.m.	.....	(4)	1,548	.....	(4)	.....
42		1930..yield, g.p.m.	.....	81	.....	35	.....	.....
43		1920..yield, g.p.m.	.....	.....	.....	9,955	.....	.....
44	Wells, pumped	1940..number	.....	82	30	36	34	2
45		1930..number	.....	90	.....	13	.....	.....
46		1920..number	.....	11	.....	41	.....	.....
47		1940..yield, g.p.m.	.....	34,108	12,208	16,030	22,028	(4)
48		1930..yield, g.p.m.	.....	32,962	.....	6,989	.....	.....
49		1920..yield, g.p.m.	.....	3,610	.....	10,500	.....	.....
50	Pumping plants	1940..total number	.....	83	31	36	34	2
51		1930..total number	.....	89	.....	12	.....	.....
52	Prime movers	1940..capacity, hp.	.....	509	362	521	575	(4)
53		1930..capacity, hp.	.....	528	.....	179	.....	.....
54		1920..capacity, hp.	.....	91	.....	270	.....	.....
55	(a) Electric	1940..number	.....	76	27	31	9	1
56		1940..capacity, hp.	.....	458	312	423	145	(4)
57	(b) Internal-combustion	1940..number	.....	7	4	3	24	1
58		1940..capacity, hp.	.....	51	50	73	425	(4)
59	(c) Other	1940..number	.....	.....	.....	2	1	.....
60		1940..capacity, hp.	.....	.....	.....	(4)	(4)	.....
61	Pumps	1940..total number	.....	83	30	36	37	2
62		1930..number	.....	89	.....	12	.....	.....
63		1920..number	.....	9	.....	24	.....	.....
64		1940..capacity, g.p.m.	.....	34,308	13,003	18,220	23,978	(4)
65		1930..capacity, g.p.m.	.....	33,412	.....	7,139	.....	.....
66		1920..capacity, g.p.m.	.....	4,010	.....	10,400	.....	.....
67	(a) Centrifugal	1940..number	.....	76	4	15	24	1
68		1940..capacity, g.p.m.	.....	30,807	1,700	7,210	15,335	(4)
69		1940..average capacity, g.p.m.	.....	405	425	481	639	(4)
70	(b) Turbine	1940..number	.....	6	26	21	12	1
71		1940..capacity, g.p.m.	.....	3,220	11,303	11,010	8,595	(4)
72		1940..average capacity, g.p.m.	.....	537	435	524	716	(4)
73	(c) Plunger	1940..number	.....	.....	.....	.....	1	.....
74		1940..capacity, g.p.m.	.....	.....	.....	.....	(4)	.....
75		1940..average capacity, g.p.m.	.....	.....	.....	.....	(4)	.....
76	(d) Other	1940..number	.....	1	.....	.....	.....	.....
77		1940..capacity, g.p.m.	.....	(4)	.....	.....	.....	.....
78	Pumping lift, from all sources	1940..average, feet	.....	23	46	46	37	(4)
79		1930..average, feet	.....	28	.....	38	.....	.....
80		1920..average, feet	.....	21	.....	47	.....	.....
81	from pumped wells	1940..average, feet	.....	23	46	46	37	(4)
82	from surface sources	1940..average, feet	.....	.....	.....	.....	.....	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [2] Includes siphons and farm pipe lines reported. [3] Total capacity of all reservoirs regardless of size. [4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Beaver		Box Elder		Cache	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms.....1940...number.....	25,411		329		1,805		2,253	
2	1930...number.....	27,159		395		1,977		2,372	
3	Irrigated farms.....1940...number.....	22,612		309		1,543		1,955	
4	1930...number.....	23,847		366		1,623		1,992	
5	Increase or decrease (-), 1930-1940.....percent....	-5.2		-15.6		-4.9		-1.9	
	Operated by—								
6	(a) Owners and managers.....1940...number.....	19,583		243		1,323		1,778	
7	1930...number.....	20,886		313		1,389		1,805	
8	(b) Tenants.....1940...number.....	3,029		66		220		177	
9	1930...number.....	2,961		53		234		187	
10	Land in all farms.....1940...acres.....	7,302,007		76,886		688,877		329,962	
11	Land in irrigated farms.....1940...acres.....	4,958,058		41,878		401,975		204,825	
12	Average per farm.....1940...acres.....	219		136		261		105	
13	(a) Operated by owners and managers.....1940...acres.....	4,647,567		34,757		381,243		192,833	
14	Average per farm.....1940...acres.....	237		143		288		108	
15	(b) Operated by tenants.....1940...acres.....	310,491		7,121		20,732		11,992	
16	Average per farm.....1940...acres.....	103		108		94		68	
17	Approximate land area.....1940...acres.....	52,701,440		1,655,680		3,580,160		752,000	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated.....1939...acres.....	1,176,116		20,584		73,406		82,160	
19	(a) Cropland harvested.....1939...acres.....	980,881		17,114		70,610		70,228	
20	(b) Crop failure.....1939...acres.....	38,487		754		378		94	
21	(c) Pasture.....1939...acres.....	156,748		2,716		2,418		11,838	
22	Area irrigated.....1929...acres.....	1,324,125		25,291		76,324		94,952	
23	1919...acres.....	1,371,651		28,103		86,734		94,705	
24	Increase or decrease (-), 1929-1939.....percent....	-11.2		-18.6		-3.8		-13.5	
25	Irrigable area in enterprises.....1940...acres.....	1,432,533		26,736		85,850		87,333	
26	1930...acres.....	1,739,869		33,260		103,008		109,861	
27	1920[1]...acres.....	2,359,244		52,180		145,465		100,507	
28	Excess of irrigable area over the area irrigated..1940...acres.....	256,417		6,152		12,444		5,173	
29	1930...acres.....	415,744		7,969		26,684		14,909	
30	Area works were capable of supplying with water...1940...acres.....	1,357,714		25,543		83,335		84,395	
31	1930...acres.....	1,542,475		31,132		81,266		105,605	
32	1920...acres.....	1,700,550		45,829		100,633		96,619	
33	Increase or decrease (-), 1930-1940.....percent....	-12.0		-18.0		2.5		-20.1	
34	Excess, capability of works over area irrigated...1940...acres.....	181,598		4,959		9,929		2,235	
35	1930...acres.....	218,350		5,841		4,942		10,653	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	23.7		49.2		18.3		40.1	
37	1929...percent....	32.0		40.3		20.9		42.0	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	86.6		80.6		88.1		97.4	
39	1929...percent....	85.8		81.2		93.9		89.9	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises.....1940...dollars....	41,896,532		1,062,866		5,180,073		2,438,380	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	39,590,175		878,217		4,259,395		2,406,891	
42	(b) Investment in water rights (reported).....1940...dollars....	2,306,357		184,649		920,678		31,489	
43	Total investment in all enterprises.....1930...dollars....	35,669,819		793,337		3,483,384		1,479,506	
44	1920...dollars....	32,037,351		831,344		1,806,863		1,436,207	
45	Increase or decrease (-), 1930-1940.....percent....	17.5		34.0		48.7		64.8	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	30.86		41.61		62.16		28.89	
47	1930...dollars....	23.13		25.48		42.86		14.01	
48	1920...dollars....	18.84		18.14		17.95		14.86	
49	Average investment per acre irrigated.....1939...dollars....	35.62		51.64		70.57		29.68	
50	Estimated final investment in existing enterprises..1940...dollars....	43,380,966		1,065,666		5,349,232		2,449,630	
51	1930...dollars....	37,857,011		795,087		3,497,084		1,510,598	
52	1920...dollars....	33,835,641		859,444		2,084,063		1,472,007	
53	Increase or decrease (-), 1930-1940.....percent....	14.6		34.0		53.0		62.2	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	30.28		39.86		62.31		28.05	
55	1930...dollars....	21.76		23.90		33.95		13.75	
56	1920[1]...dollars....	14.34		16.47		14.08		14.65	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
		Enterprises		Enterprises		Enterprises		Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	1,870	124	82	7	95	21	101	2
58	Area irrigated in these enterprises.....1939...acres.....	1,144,100	322,055	20,148	5,588	70,948	6,266	81,381	(2)
59	Cost of maintenance and operation.....1939...dollars....	881,814	84,981	18,345	695	60,601	8,616	61,536	(2)
60	Average cost, per acre irrigated.....1939...dollars....	0.77	0.26	0.91	0.12	0.85	1.38	0.76	(2)
61	1929...dollars....	1.00	.....	1.05	.....	1.08	.....	1.24	.....
62	Total annual charges (reported)[3] [4].....1939...dollars....	1,079,113	142,478	11,347	1,264	89,375	1,876	76,301	4,887
63	Average annual charge per acre irrigated.....1939...dollars....	1.02	0.45	0.66	0.23	1.33	0.32	0.98	0.75
64	Area against which charges were assessed.....1939...acres.....	1,128,306	360,560	19,673	5,409	69,580	8,945	79,008	6,488
65	Average annual charge per acre assessed.....1939...dollars....	0.96	0.40	0.58	0.23	1.28	0.21	0.97	0.75
66	Total charges collected[3].....1939...dollars....	1,106,871	207,916	7,675	2,316	86,839	6,982	71,272	5,747
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	4,329,234	9,437,183	1,500	2,085	650	1,801,975	24,531	923,000
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered.....1939...number.....	1,874	135	74	5	93	25	83	2
69	Area irrigated in these enterprises.....1939...acres.....	1,049,365	258,047	17,638	5,541	66,672	6,457	62,965	(2)
70	Water delivered in these enterprises.....1939...acre-feet..	2,654,225	278,665	41,115	1,319	202,931	14,013	173,071	(2)
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.5	1.1	2.3	0.2	3.0	2.2	2.7	(2)
72	Average cost of water per acre irrigated.....1939...dollars....	1.03	0.50	1.16	0.30	1.37	0.41	1.01	(2)
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage.....1939...number.....	204	.....	.....	.....	10	.....	15	.....
74	Irrigable area in these enterprises.....1939...acres.....	324,771	.....	.....	.....	60,344	.....	35,721	.....
75	Irrigated area in these enterprises.....1939...acres.....	283,314	.....	.....	.....	51,765	.....	35,590	.....
76	Area for which drains have been installed.....1939...acres.....	90,657	.....	.....	.....	13,083	.....	4,585	.....
77	Additional area needing drainage.....1939...acres.....	28,418	.....	.....	.....	12,062	.....	3,140	.....

*Census of Agriculture.
[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	
454	68	1,474	1,104	822	416	155	550	1
285	52	1,481	1,050	758	513	157	598	2
407	65	1,368	1,042	787	392	139	449	3
235	47	1,340	1,002	732	452	111	469	4
73.2	38.3	2.1	4.0	7.5	-13.3	25.2	-4.3	5
336	54	1,154	843	681	353	115	422	6
186	38	1,120	808	608	398	94	436	7
71	11	214	199	106	39	24	27	8
49	9	220	194	124	54	17	33	9
133,576	44,590	96,456	300,321	162,848	114,903	139,265	452,200	10
86,098	42,903	68,128	257,338	142,354	96,945	61,272	338,217	11
212	660	50	247	181	247	441	753	12
77,056	40,390	59,293	231,087	126,432	92,087	57,289	331,947	13
229	748	51	274	186	261	498	787	14
9,040	2,513	8,835	26,251	15,922	4,858	3,983	6,270	15
127	228	41	132	150	125	166	232	16
943,360	488,960	171,520	2,086,400	2,842,880	3,338,880	2,362,880	2,112,000	17
10,529	10,691	36,495	98,800	69,957	24,232	5,567	23,537	18
9,073	8,347	34,158	58,718	64,494	17,561	4,680	20,958	19
473	1,000	318	2,516	1,394	1,530	657	1,047	20
983	1,344	2,019	37,566	4,069	5,141	230	1,532	21
18,248	7,543	45,646	108,213	65,078	23,674	2,747	29,988	22
21,676	6,572	19,468	90,435	91,145	27,097	5,865	32,066	23
-42.3	41.7	-20.0	-8.7	7.5	2.4	102.7	-21.5	24
12,793	13,760	39,113	131,821	81,020	28,426	7,330	35,368	25
24,936	12,443	68,138	171,259	90,708	35,849	4,302	46,701	26
33,381	10,600	20,375	225,959	112,943	54,998	11,010	98,475	27
2,264	3,069	2,618	33,021	11,063	4,194	1,763	11,831	28
6,688	4,900	22,492	63,046	25,630	12,175	1,555	16,713	29
11,873	11,362	38,327	121,195	75,656	26,726	6,378	32,993	30
23,198	9,943	50,092	143,542	68,412	27,375	3,882	40,286	31
22,458	10,599	19,536	140,100	98,933	27,353	9,664	38,858	32
-48.8	14.3	-23.5	-15.6	10.6	-2.4	64.3	-18.1	33
1,344	671	1,832	22,395	5,699	2,494	811	9,456	34
4,950	2,400	4,446	35,329	3,334	3,701	1,135	10,298	35
12.2	24.9	53.6	38.4	49.1	25.0	9.1	7.0	36
74.5	31.1	54.0	63.6	60.3	25.9	12.5	12.4	37
88.7	94.1	95.2	81.5	92.5	90.7	87.3	71.3	38
78.7	75.9	91.1	75.4	95.1	86.5	70.8	74.4	39
600,377	132,860	2,924,523	3,319,066	1,894,544	256,956	93,055	680,521	40
586,500	129,159	2,903,965	3,250,971	1,876,734	233,469	89,610	653,923	41
13,877	3,701	20,558	68,095	7,810	23,487	3,445	26,598	42
1,146,628	73,200	1,987,062	1,844,346	717,200	365,971	51,725	773,550	43
420,075	112,698	522,313	1,432,832	781,800	430,199	167,511	854,295	44
-47.6	81.5	47.2	80.0	162.8	-29.8	79.9	-12.0	45
50.57	11.69	76.30	27.39	24.91	9.61	14.59	20.63	46
49.43	7.36	39.67	12.85	10.48	13.37	13.32	19.20	47
18.70	10.63	26.74	10.23	7.90	15.73	17.33	21.99	48
57.02	12.43	80.13	33.59	26.94	10.60	16.72	28.91	49
633,204	152,960	2,927,523	3,603,226	1,904,130	272,716	101,845	714,371	50
1,157,128	93,200	2,009,954	1,953,146	792,200	526,071	56,725	852,000	51
420,075	112,698	545,313	1,848,675	871,800	430,199	218,211	882,370	52
-45.3	64.1	45.7	84.5	140.4	-48.2	79.5	-16.2	53
49.50	11.12	74.85	27.33	23.50	9.59	13.89	20.20	54
46.40	7.49	39.50	11.40	8.73	14.67	13.18	18.24	55
12.58	10.63	26.76	8.18	7.72	7.82	19.82	8.96	56
Primary Enterprises / Sup.			Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.		Primary Enterprises / Sup.			Primary Enterprises / Sup.		
47	1	20	65	9	95	5	35	2	75	2	69	111	10	57
9,609	(2)	10,691	34,809	20,674	98,520	41,210	69,707	(2)	23,694	(2)	5,506	22,867	1,237	58
13,235	(2)	5,423	45,718	3,928	76,408	5,011	28,282	(2)	13,087	(2)	8,773	28,809	2,388	59
1.38	(2)	0.51	1.31	0.19	0.76	0.12	0.41	(2)	0.55	(2)	1.59	1.26	1.93	60
1.36	.....	0.54	1.32	.....	1.00	.....	0.68	.....	0.80	.....	2.74	0.94	.....	61
10,178	1,850	4,131	78,867	3,993	66,344	22,635	37,312	102	19,009	.....	1,740	14,024	175	62
1.53	0.25	0.55	2.30	0.19	0.71	0.55	0.56	0.17	1.03	.....	0.87	0.88	0.35	63
6,661	7,400	7,847	36,584	20,907	102,789	56,500	66,775	600	18,751	.....	2,077	23,120	500	64
1.53	0.25	0.53	2.16	0.19	0.65	0.40	0.56	0.17	1.01	.....	0.84	0.61	0.35	65
10,139	3,993	4,160	86,965	25,310	71,026	21,069	45,494	324	13,000	.....	1,631	14,691	160	66
19,600	2,582	.....	1,202,122	504,961	203,011	1,316,381	37,100	210	11,335	.....	.....	3,055	.....	67
48	1	19	105	19	98	5	34	2	62	1	74	116	10	68
9,921	(2)	9,191	30,491	20,801	98,450	41,210	68,557	(2)	15,776	(2)	5,357	23,337	1,237	69
26,693	(2)	20,615	73,940	18,437	249,635	46,348	142,943	(2)	53,576	(2)	13,855	46,010	1,822	70
2.7	(2)	2.2	2.4	0.9	2.5	1.1	2.1	(2)	3.4	(2)	2.6	2.0	1.5	71
1.63	(2)	0.50	2.64	0.20	0.72	0.55	0.58	(2)	0.59	(2)	1.63	1.40	1.99	72
1	.....	.....	28	.....	4	.....	2	.....	.....	.....	.....	.....	.....	73
(2)	.....	.....	24,233	.....	48,736	.....	(2)	.....	.....	.....	.....	.....	.....	74
(2)	.....	.....	23,592	.....	34,684	.....	(2)	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	9,906	.....	3,062	.....	.....	.....	.....	.....	.....	.....	.....	76
(2)	.....	.....	643	.....	5,098	.....	(2)	.....	.....	.....	.....	.....	.....	77

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

	ITEM (For definitions and explanations, see text)	Juab	Kane	Millard		Morgan		Piute	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number	395	210	967		247		315	
2	1930...number	496	200	1,243		247		229	
3	Irrigated farms....1940...number	305	166	903		235		210	
4	1930...number	381	167	1,186		229		219	
5	Increase or decrease (-), 1930-1940....percent	-19.9	-0.6	-23.9		2.6		-4.1	
	Operated by—								
6	(a) Owners and managers....1940...number	272	160	816		208		180	
7	1930...number	347	157	1,043		198		203	
8	(b) Tenants....1940...number	33	6	87		27		30	
9	1930...number	34	10	143		31		16	
10	Land in all farms....1940...acres	180,851	187,254	287,800		97,152		47,515	
11	Land in irrigated farms....1940...acres	110,586	128,622	205,244		83,180		47,197	
12	Average per farm....1940...acres	363	775	227		354		225	
13	(a) Operated by owners and managers....1940...acres	100,075	127,909	194,872		80,339		43,877	
14	Average per farm....1940...acres	368	799	239		386		244	
15	(b) Operated by tenants....1940...acres	10,611	713	10,372		2,841		3,320	
16	Average per farm....1940...acres	322	119	119		105		111	
17	Approximate land area....1940...acres	2,183,680	2,627,200	4,254,720		390,400		481,920	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	17,998	3,431	72,897		9,810		15,720	
19	(a) Cropland harvested....1939...acres	13,758	3,223	68,849		9,294		12,249	
20	(b) Crop failure....1939...acres	2,751	44	860		76		875	
21	(c) Pasture....1939...acres	1,489	164	3,188		440		2,596	
22	Area irrigated....1929...acres	13,297	4,170	90,638		11,534		15,475	
23	1919...acres	10,008	4,088	137,980		12,242		8,514	
24	Increase or decrease (-), 1929-1939....percent	35.4	-17.7	-19.6		-14.9		1.6	
25	Irrigable area in enterprises....1940...acres	20,605	4,018	87,285		10,159		15,730	
26	1930...acres	25,566	6,210	125,448		12,469		17,047	
27	1920[1]...acres	14,707	7,114	373,926		13,809		10,938	
28	Excess of irrigable area over the area irrigated...1940...acres	2,607	587	14,388		349		10	
29	1930...acres	12,269	2,040	34,810		935		1,572	
30	Area works were capable of supplying with water...1940...acres	20,065	3,986	84,083		10,025		15,730	
31	1930...acres	18,968	5,210	123,229		11,977		16,345	
32	1920...acres	12,372	4,469	209,694		13,506		10,258	
33	Increase or decrease (-), 1930-1940....percent	5.8	-23.5	-31.8		-16.3		-3.8	
34	Excess, capability of works over area irrigated...1940...acres	2,067	555	11,186		215		10	
35	1930...acres	5,671	1,040	32,591		443		870	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	16.3	2.7	35.5		11.8		33.3	
37	1929...percent	11.3	4.4	35.3		10.8		39.1	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	89.7	86.1	86.7		97.9		99.9	
39	1929...percent	70.1	80.0	73.6		96.3		94.7	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	210,021	91,573	2,902,475		355,049		95,828	
41	(a) Cost of irrigation works and equipment....1940...dollars	197,286	90,695	2,780,280		349,925		65,588	
42	(b) Investment in water rights (reported)....1940...dollars	12,735	878	122,195		5,124		30,240	
43	Total investment in all enterprises....1930...dollars	698,527	92,725	1,961,754		324,394		1,684,471	
44	1920...dollars	562,667	150,188	5,148,282		147,278		253,668	
45	Increase or decrease (-), 1930-1940....percent	-69.9	-1.2	48.0		9.4		-94.3	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	10.47	22.97	34.52		35.42		6.09	
47	1930...dollars	36.83	17.80	15.92		27.08		103.06	
48	1920...dollars	45.48	33.61	24.55		10.90		24.73	
49	Average investment per acre irrigated....1939...dollars	11.67	26.69	39.82		36.19		6.10	
50	Estimated final investment in existing enterprises...1940...dollars	237,216	92,623	2,911,941		355,049		97,128	
51	1930...dollars	703,239	92,725	1,969,869		331,194		1,685,476	
52	1920...dollars	564,667	152,688	5,210,982		147,378		255,168	
53	Increase or decrease (-), 1930-1940....percent	-66.3	-0.1	47.8		7.2		-94.2	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	11.51	23.05	33.36		34.95		6.17	
55	1930...dollars	27.51	14.93	15.70		26.56		98.87	
56	1920[1]...dollars	38.39	21.46	13.94		10.67		23.33	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
57	Enterprises reporting maintenance and operation...1939...number	34	23	53	4	44	[2]1	22	7
58	Area irrigated in these enterprises....1939...acres	15,897	3,320	71,157	51,316	9,334	8,060	15,320	177
59	Cost of maintenance and operation....1939...dollars	8,750	4,070	38,863	5,536	5,133	748	4,251	151
60	Average cost, per acre irrigated....1939...dollars	0.55	1.23	0.55	0.11	0.55	0.09	0.28	0.85
61	1929...dollars	0.92	2.01	0.87	.....	0.61	.....	0.46	.....
62	Total annual charges (reported)[4] [5]....1939...dollars	8,272	5,047	73,001	5,460	7,814	726	7,831	.....
63	Average annual charge per acre irrigated....1939...dollars	0.76	2.00	1.06	0.11	1.08	0.09	0.54	.....
64	Area against which charges were assessed....1939...acres	11,382	2,520	70,714	51,250	7,881	8,060	14,910	.....
65	Average annual charge per acre assessed....1939...dollars	0.73	2.00	1.03	0.11	0.99	0.09	0.53	.....
66	Total charges collected[4]....1939...dollars	8,078	4,892	70,972	.....	5,120	9,856	7,380	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars	7,366	.....	183,900	.....	18,578	220,738	3,674	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	25	16	59	4	46	[2]1	18	8
69	Area irrigated in these enterprises....1939...acres	12,780	2,490	71,338	226	9,011	8,060	14,508	178
70	Water delivered in these enterprises....1939...acre-feet	18,239	8,110	136,255	832	30,212	6,860	44,793	171
71	Average water delivered per acre irrigated....1939...acre-feet	1.4	3.3	1.9	3.7	3.4	0.9	3.1	1.0
72	Average cost of water per acre irrigated....1939...dollars	0.78	2.10	1.05	1.14	1.07	0.09	0.55	0.85
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	.....	.....	3	.....	.....	.....	.....	.....
74	Irrigable area in these enterprises....1939...acres	.....	.....	31,500	.....	.....	.....	.....	.....
75	Irrigated area in these enterprises....1939...acres	.....	.....	26,000	.....	.....	.....	.....	.....
76	Area for which drains have been installed....1939...acres	.....	.....	31,500	.....	.....	.....	.....	.....
77	Additional area needing drainage....1939...acres	.....	.....	.....	.....	.....	.....	.....	.....

*Census of Agriculture.
[1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2]Data for less than 3 enterprises shown with permission of the enterprise involved.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	
249	2,515	675	1,426	959	513	368	1,123	1
273	2,932	442	1,703	1,038	509	434	1,076	2
234	2,050	348	1,291	933	494	261	1,047	3
201	2,443	181	1,558	971	480	349	1,001	4
16.4	-16.1	92.3	-17.1	-3.9	2.9	-25.2	4.6	5
214	1,818	332	1,061	772	439	216	835	6
185	2,135	167	1,363	849	420	318	825	7
20	232	16	230	161	55	45	212	8
16	308	14	195	122	60	31	176	9
540,984	128,486	776,751	396,310	148,705	107,302	154,276	349,754	10
492,176	101,053	294,960	315,322	119,760	104,264	86,663	185,287	11
2,103	49	848	244	128	211	332	177	12
488,507	86,951	290,700	283,394	107,492	93,832	75,641	160,163	13
2,283	48	876	267	139	214	350	192	14
3,669	14,102	4,260	31,928	12,268	10,432	11,022	25,124	15
183	61	266	139	76	190	245	119	16
654,080	488,960	5,045,760	1,022,080	1,236,480	1,190,400	4,423,040	2,828,800	17
43,995	72,668	7,450	80,336	57,186	27,031	9,445	77,344	18
34,228	64,397	5,909	66,133	50,224	23,129	7,743	45,370	19
2,550	1,133	1,017	5,945	445	204	1,054	6,366	20
7,217	7,138	524	8,258	6,517	3,698	648	25,608	21
54,825	93,633	10,895	89,126	65,626	28,451	11,052	88,231	22
42,913	102,051	13,469	90,153	68,838	32,139	9,652	80,789	23
-19.8	-22.4	-31.6	-9.9	-12.9	-5.0	-14.5	-12.3	24
59,905	86,656	14,244	95,924	62,985	29,807	11,129	109,008	25
56,622	120,477	15,982	112,117	72,281	28,544	11,484	130,161	26
50,238	176,122	40,511	127,708	81,548	34,795	17,405	147,608	27
15,910	13,988	6,794	15,588	5,799	2,776	1,684	31,664	28
1,797	26,844	5,087	22,991	6,655	93	432	41,930	29
54,140	84,974	11,116	95,104	61,237	29,399	10,906	105,702	30
56,035	113,002	15,507	97,702	67,991	28,494	11,217	115,631	31
43,503	125,194	23,283	91,885	69,178	32,394	11,453	127,787	32
-3.4	-24.8	-28.3	-2.7	-9.9	3.2	-2.8	-8.6	33
10,145	12,306	3,666	14,768	4,051	2,368	1,461	28,358	34
1,210	19,369	4,612	8,576	2,365	43	165	27,400	35
8.9	71.9	2.5	25.5	47.8	25.9	10.9	41.7	36
23.3	79.7	23.0	22.2	62.0	14.9	9.3	62.2	37
81.3	85.5	67.0	84.5	93.4	91.9	86.6	73.2	38
97.8	82.9	70.3	91.2	96.5	99.8	98.5	76.3	39
280,698	2,277,415	226,575	1,574,262	1,414,572	525,285	171,457	1,684,488	40
270,100	2,082,866	225,428	1,474,777	1,198,269	510,853	167,595	1,662,867	41
10,598	194,549	1,147	99,485	216,303	14,432	3,862	21,621	42
290,735	2,405,028	287,032	1,487,922	959,465	2,248,199	207,806	1,578,349	43
319,225	2,096,530	259,287	1,288,433	2,083,537	229,639	136,263	1,488,111	44
-3.5	-5.3	-21.1	5.8	47.4	-76.6	-17.5	6.7	45
5.18	26.80	20.38	16.55	23.10	17.87	15.72	15.94	46
5.19	21.28	18.51	15.23	14.11	78.90	18.52	13.65	47
7.34	16.75	11.14	14.02	30.12	7.09	11.90	11.65	48
6.38	31.34	30.41	19.60	24.74	19.43	18.15	21.78	49
481,198	2,325,545	292,830	1,577,762	1,417,982	538,670	178,957	1,900,928	50
291,785	2,450,328	290,032	1,553,222	962,465	3,373,977	207,806	1,845,224	51
319,225	2,154,030	319,162	1,346,933	2,208,437	242,839	136,263	1,711,468	52
64.9	-5.1	1.0	1.6	47.3	-84.0	-13.9	3.0	53
8.03	26.84	20.56	16.45	22.51	18.07	16.08	17.44	54
5.15	20.34	18.15	13.85	13.32	118.20	18.10	14.18	55
6.35	12.23	7.88	10.55	27.08	6.98	7.83	11.59	56

Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	
27	1	70	3	32	72	10	71	4	85	6	39	88	5	57
42,355	(3)	71,654	9,017	7,435	74,066	19,758	56,352	40,631	25,389	10,705	8,371	77,005	107	58
10,311	(3)	99,447	5,550	7,226	37,573	9,283	53,326	1,175	15,624	1,050	4,426	54,906	137	59
0.24	(3)	1.39	0.62	0.97	0.51	0.47	0.95	0.03	0.62	0.10	0.53	0.71	1.28	60
0.18	.....	1.92	.....	0.86	0.65	.....	0.94	.....	0.58	.....	1.19	0.84	.....	61
8,720	50	113,026	5,460	11,297	48,837	9,757	65,528	1,035	17,645	4,513	5,420	53,121	5,240	62
0.23	0.06	1.58	0.61	2.43	0.67	0.50	1.26	0.03	0.90	0.42	0.81	0.75	.....	63
42,629	875	74,940	8,982	7,642	80,635	20,942	54,340	40,467	19,781	10,654	6,812	85,752	17,465	64
0.20	0.06	1.51	0.61	1.48	0.61	0.47	1.21	0.03	0.89	0.42	0.80	0.62	0.30	65
9,314	50	141,399	500	1,400	42,081	9,796	64,476	3,000	14,942	16,776	6,215	38,918	1,697	66
725	.....	67,166	.....	16,413	81,344	375,387	118,844	8,980	13,091	171,575	18,417	186,476	294,148	67
26	1	70	3	33	55	7	100	4	85	8	31	91	4	68
33,216	(3)	66,770	9,017	7,372	60,254	6,823	56,993	40,631	23,276	10,998	5,771	75,409	107	69
74,551	(3)	197,241	25,917	11,268	95,791	3,710	178,293	19,529	69,378	8,691	25,147	171,132	113	70
2.2	(3)	3.0	2.9	1.5	1.6	0.5	3.1	0.5	3.0	0.8	4.4	2.3	1.1	71
0.29	(3)	1.55	0.62	1.86	0.55	0.31	1.20	0.03	0.69	0.42	0.47	0.76	1.26	72
2	.....	7	.....	1	7	.....	47	.....	2	.....	1	2	.....	73
(3)	.....	229	.....	(3)	12,231	.....	16,331	.....	(3)	.....	(3)	(3)	.....	74
(3)	.....	214	.....	(3)	9,689	.....	15,522	.....	(3)	.....	(3)	(3)	.....	75
(3)	.....	29	.....	.....	437	.....	6,149	.....	.....	.....	(3)	.....	.....	76
(3)	.....	92	.....	(3)	164	.....	784	.....	(3)	.....	.....	(3)	.....	77

[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Utah		Wasatch		Washington	Wayne	Weber	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]								
1	All farms....1940...number	3,055		431		681	259	1,693	
2	1930...number	3,561		450		656	256	1,776	
3	Irrigated farms....1940...number	2,830		415		627	255	1,552	
4	1930...number	3,191		428		619	243	1,631	
5	Increase or decrease (-), 1930-1940....percent	-11.3		-3.0		1.3	4.9	-4.8	
6	Operated by—(*a*) Owners and managers....1940...number	2,469		378		578	236	1,297	
7	1930...number	2,874		384		589	228	1,406	
8	(*b*) Tenants....1940...number	361		37		49	19	255	
9	1930...number	317		44		30	15	225	
10	Land in all farms....1940...acres	388,693		257,172		252,547	46,289	[1]414,282	
11	Land in irrigated farms....1940...acres	250,875		189,683		194,764	34,272	272,119	
12	Average per farm....1940...acres	89		457		311	134	175	
13	(*a*) Operated by owners and managers....1940...acres	219,177		186,519		191,829	32,669	259,207	
14	Average per farm....1940...acres	89		493		332	138	200	
15	(*b*) Operated by tenants....1940...acres	31,698		3,164		2,935	1,603	12,912	
16	Average per farm....1940...acres	88		86		60	84	51	
17	Approximate land area....1940...acres	1,278,720		764,160		1,552,000	1,592,960	351,360	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	119,230		24,659		16,947	16,267	47,744	
19	(*a*) Cropland harvested....1939...acres	107,404		19,870		15,096	14,800	43,264	
20	(*b*) Crop failure....1939...acres	1,917		456		514	595	1,524	
21	(*c*) Pasture....1939...acres	9,909		4,333		1,337	872	2,956	
22	Area irrigated....1929...acres	145,436		23,501		18,747	16,890	44,894	
23	1919...acres	138,143		22,797		20,838	16,198	56,973	
24	Increase or decrease (-), 1929-1939....percent	-18.0		4.9		-9.6	-3.7	6.3	
25	Irrigable area in enterprises....1940...acres	130,433		35,924		34,300	17,933	56,938	
26	1930...acres	165,723		26,337		35,356	22,020	55,560	
27	1920[2]...acres	203,065		24,883		43,387	19,690	105,897	
28	Excess of irrigable area over the area irrigated...1940...acres	11,203		11,265		17,353	1,666	9,194	
29	1930...acres	20,287		2,896		16,609	5,130	10,666	
30	Area works were capable of supplying with water...1940...acres	127,854		25,674		31,876	16,739	51,321	
31	1930...acres	158,110		24,567		27,695	17,510	48,552	
32	1920...acres	173,487		22,892		29,077	18,690	70,846	
33	Increase or decrease (-), 1930-1940....percent	-19.1		4.5		15.1	-4.4	5.7	
34	Excess, capability of works over area irrigated...1940...acres	8,624		1,015		14,929	472	3,577	
35	1930...acres	12,674		1,066		8,948	620	3,658	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	47.5		13.0		8.7	47.5	17.5	
37	1929...percent	44.0		26.2		16.8	48.1	25.5	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	93.3		96.0		53.2	97.2	93.0	
39	1929...percent	92.0		95.7		67.7	96.5	92.5	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	5,636,998		342,283		990,771	151,990	4,391,601	
41	(*a*) Cost of irrigation works and equipment....1940...dollars	5,515,880		321,134		903,508	140,335	4,363,955	
42	(*b*) Investment in water rights (reported)....1940...dollars	121,118		21,119		87,263	11,655	27,646	
43	Total investment in all enterprises....1930...dollars	5,871,486		311,377		639,386	191,115	1,714,137	
44	1920...dollars	5,880,832		410,198		576,824	453,600	1,756,652	
45	Increase or decrease (-), 1930-1940....percent	-4.0		9.9		55.0	-20.5	156.2	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	44.09		13.33		31.08	9.08	85.57	
47	1930...dollars	37.14		12.67		23.09	10.91	35.30	
48	1920...dollars	33.90		17.92		19.84	24.27	24.80	
49	Average investment per acre irrigated....1939...dollars	47.28		13.88		58.46	9.34	91.98	
50	Estimated final investment in existing enterprises..1940...dollars	5,640,558		371,453		1,037,691	161,490	4,587,442	
51	1930...dollars	5,874,286		336,877		723,341	203,765	1,718,207	
52	1920...dollars	6,010,982		450,198		628,774	467,200	1,764,382	
53	Increase or decrease (-), 1930-1940....percent	-4.0		10.3		43.5	-20.7	167.0	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	43.24		10.34		30.25	9.01	80.57	
55	1930...dollars	35.45		12.79		20.46	9.25	30.92	
56	1920[2]...dollars	29.88		18.09		14.49	23.73	16.66	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.			Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number	158	19	42	3	90	17	108	[3]2
58	Area irrigated in these enterprises....1939...acres	116,078	40,760	23,491	5,186	16,465	16,252	46,279	45,610
59	Cost of maintenance and operation....1939...dollars	79,608	17,606	16,859	3,119	28,317	5,780	47,127	13,122
60	Average cost, per acre irrigated....1939...dollars	0.69	0.43	0.72	0.60	1.72	0.36	1.02	0.29
61	1929...dollars	1.02	.....	0.91	.....	1.95	0.64	1.06	.....
62	Total annual charges (reported)[4] [5]....1939...dollars	107,240	47,857	16,719	6,540	32,751	5,766	82,450	19,058
63	Average annual charge per acre irrigated....1939...dollars	0.96	1.18	0.83	1.26	2.15	0.39	1.81	0.42
64	Area against which charges were assessed....1939...acres	113,132	40,535	20,061	5,186	17,876	14,820	49,614	49,395
65	Average annual charge per acre assessed....1939...dollars	0.95	1.18	0.83	1.26	1.83	0.39	1.66	0.39
66	Total charges collected[4]....1939...dollars	141,524	37,045	15,519	7,045	30,150	5,330	86,269	56,250
67	Indebtedness to December 31 (reported)[5]....1939...dollars	1,713,326	497,062	23,611	43,601	30,149	800	342,450	3,274,498
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	182	20	44	3	73	14	100	[3]2
69	Area irrigated in these enterprises....1939...acres	109,534	40,532	24,112	5,186	13,788	14,837	39,551	45,610
70	Water delivered in these enterprises....1939...acre-feet	268,999	49,453	78,224	10,655	49,131	37,679	115,398	45,772
71	Average water delivered per acre irrigated....1939...acre-feet	2.5	1.2	3.2	2.1	3.6	2.5	2.9	1.0
72	Average cost of water per acre irrigated....1939...dollars	0.93	1.18	0.76	1.26	2.32	0.38	1.80	0.42
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	47	.....	.....	.....	2	.....	23	.....
74	Irrigable area in these enterprises....1939...acres	54,388	.....	.....	.....	(6)	.....	24,749	.....
75	Irrigated area in these enterprises....1939...acres	51,885	.....	.....	.....	(6)	.....	20,801	.....
76	Area for which drains have been installed....1939...acres	14,279	.....	.....	.....	(6)	.....	4,993	.....
77	Additional area needing drainage....1939...acres	1,899	.....	.....	.....	(6)	.....	2,821	.....

[a] Census of Agriculture. [1] The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Data for less than 3 enterprises shown with permission of the enterprises involved. [4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only. [6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	154,358,365	1,875,430	17,988,763	18,195,509	1,732,947	463,711	10,774,029	3,529,531
2	Land and buildings, irrigated farms....dollars..	137,529,004	1,679,388	14,392,750	15,821,382	1,581,422	456,161	10,318,499	3,350,076
	Operated by—								
3	(a) Owners and managers....dollars..	122,156,713	1,370,918	12,915,008	14,693,488	1,295,312	421,532	8,906,635	2,875,056
4	(b) Tenants....dollars..	15,372,291	308,470	1,477,742	1,127,894	286,110	34,629	1,411,864	475,020
5	Average, land and buildings, per farm....dollars..	6,082.12	5,434.91	9,327.77	8,092.78	3,885.56	7,017.86	7,542.76	3,215.04
6	per acre in farms....dollars..	27.74	40.10	35.81	77.24	18.37	10.63	151.46	13.02
7	Buildings, irrigated farms reporting value....number...	19,759	232	1,436	1,758	377	65	1,275	984
8	Total reported....dollars..	32,426,080	222,605	2,866,515	4,054,414	467,010	84,550	2,820,385	641,904
9	Average, per irrigated farm reporting....dollars..	1,641.08	959.50	1,996.18	2,306.27	1,238.75	1,300.77	2,212.07	652.34
10	per acre on all irrigated farms....dollars..	6.54	5.32	7.13	19.79	5.42	1.97	41.40	2.49
11	Buildings, nonirrigated farms reporting value....number...	2,211	7	218	244	40	1	87	50
12	Total reported....dollars..	3,630,811	6,035	409,995	426,860	40,990	(1)	136,970	51,820
13	Average, per nonirrigated farm reporting....dollars..	1,642.16	862.14	1,890.71	1,749.43	1,024.75	(1)	1,574.37	1,036.40
14	per acre on all nonirrigated farms....dollars..	1.55	0.17	1.43	3.41	0.86	(1)	4.84	1.21
15	Implements and machinery, irrigated farms reporting value..number...	19,084	239	1,364	1,718	326	65	1,096	945
16	Total reported....dollars..	10,761,346	100,726	1,277,437	1,152,012	200,234	37,525	727,379	367,285
17	Average, per irrigated farm reporting....dollars..	563.89	421.45	936.54	670.55	614.21	577.31	663.67	388.66
18	per acre, on all irrigated farms....dollars..	2.17	2.41	3.18	5.62	2.33	0.87	10.68	1.43
19	Implements and machinery, nonirrigated farms reporting value....number...	1,691	9	201	238	27	1	43	33
20	Total reported....dollars..	1,179,592	1,660	422,727	199,643	16,330	(1)	15,479	9,212
21	Average, per acre, on all nonirrigated farms....dollars..	0.50	0.05	1.47	1.60	0.34	(1)	0.55	0.21
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	[2]2,430	99	142	116	52	20	135	107
23	1930...number....	[2]2,731	147	219	162	33	9	280	70
24	1920...number....	2,403	95	220	133	40	8	187	71
25	Average size of enterprise based on irrigable area....1940...acres....	590	270	605	753	246	688	290	1,232
26	1930...acres....	607	226	470	678	756	1,383	243	2,447
27	1920[3]...acres....	982	549	661	756	835	1,325	109	3,183
28	Diversion dams....1940...number....	1,973	52	100	73	51	28	35	121
29	Main canals and laterals....1940...length, miles....	9,004.5	100.4	715.1	463.8	157.9	85.0	295.9	1,291.9
30	1930...length, miles....	9,237	238	352	563	153	72	219	985
31	1920...length, miles....	11,677	436	477	573	165	33	144	1,014
32	1940...capacity, c.f.s.[4]....	34,579	1,198	1,465	1,329	579	142	1,030	3,530
33	1930...capacity, c.f.s.[4]....	30,648	794	1,092	1,591	367	133	1,145	2,804
34	1920...capacity, c.f.s.[4]....	29,447	759	1,411	1,820	546	153	114	1,588
35	Pipe lines[5]....1940...length, miles....	172.5	0.3	10.6	2.4	0.8	.....	48.2	.....
36	Storage dams....1940...number....	362	8	10	5	8	3	5	19
37	Reservoirs....1940...number....	438	9	10	5	8	3	8	20
38	1930...number....	413	5	39	6	5	2	41	21
39	1920...number....	476	7	46	6	2	.....	72	7
40	1940...capacity, acre-feet..	3,417,704	28,296	1,426,228	16,673	30,736	500	3,350	53,377
41	1930...capacity, acre-feet..	1,093,252	31,905	5,952	1,784	50,660	6	3,719	13,745
42	1920...capacity, acre-feet..	1,600,505	40,451	3,597	1,509	1,248	.....	23,135	41,871
43	Wells, flowing....1940...number....	1,216	1	4	27	.....	.....	189	.....
44	1930...number....	1,663	9	32	58	.....	.....	642	1
45	1920...number....	1,256	1	82	32	.....	.....	379	.....
46	1940...yield, g.p.m....	83,838	(1)	190	1,670	.....	.....	5,575	.....
47	1930...yield, g.p.m....	104,670	81	876	2,919	.....	.....	31,713	30
48	1920...yield, g.p.m....	96,371	.....	1,880	3,287	.....	.....	8,185	.....
49	Wells, pumped....1940...number....	286	82	52	2	.....	.....	13	.....
50	1930...number....	346	90	82	1	.....	.....	48	.....
51	1920...number....	192	11	61	.....	.....	.....	54	.....
52	1940...yield, g.p.m....	122,528	34,108	17,986	(1)	.....	.....	1,846	.....
53	1930...yield, g.p.m....	120,333	32,962	20,026	300	.....	.....	5,885	.....
54	1920...yield, g.p.m....	39,059	3,610	12,932	.....	.....	.....	4,319	.....
55	Pumping plants....1940...number....	411	83	57	24	.....	.....	18	.....
56	1930...number....	429	89	94	35	1	.....	54	.....
57	1920...number....	250	9	71	27	.....	2	50	1
58	Prime movers....1940...capacity, hp....	14,216	509	825	707	.....	.....	2,932	.....
59	1930...capacity, hp....	11,381	528	944	787	40	.....	620	.....
60	1920...capacity, hp....	11,392	91	762	1,664	.....	13	179	.....
61	Pumps....1940...capacity, g.p.m....	835,862	34,308	30,837	33,715	.....	.....	38,525	.....
62	1930...capacity, g.p.m....	877,942	33,412	45,576	37,099	1,350	.....	31,095	.....
63	1920...capacity, g.p.m....	783,588	4,010	25,205	76,200	.....	965	5,253	27,000
64	Pumping lift, from all sources....1940...average, feet....	35	23	44	37	.....	.....	49	.....
65	1930...average, feet....	36	28	45	36	6	.....	40	.....
66	1920...average, feet....	25	21	46	.....	.....	11	9	70
67	from pumped wells....1940...average, feet....	38	23	45	(1)	.....	.....	40	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll....number...	689	15	28	58	13	2	42	24
69	Irrigated area in these enterprises....acres....	1,009,119	12,492	66,435	75,687	6,361	(1)	33,837	90,957
70	Wages and salaries paid and payable....dollars..	518,607	3,483	46,094	33,632	7,380	(1)	25,845	56,270
71	Persons employed during week ending April 29....number...	2,689	35	128	354	34	(1)	153	205

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2]Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4]Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5]Includes siphons and farm pipe lines reported.
[6]Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

	ITEM (For definitions and explanations, see text)	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	2,192,867	1,769,322	761,478	3,685,210	2,242,325	932,202	4,991,359	1,871,205
2	Land and buildings, irrigated farms....dollars..	2,087,813	1,683,980	608,578	3,149,580	1,649,860	695,250	4,720,341	1,784,655
	Operated by—								
3	(a) Owners and managers....dollars..	1,779,873	1,551,425	499,178	3,035,730	1,489,740	686,700	4,325,084	1,640,286
4	(b) Tenants....dollars..	307,940	132,555	109,400	113,850	160,120	8,550	395,257	144,369
5	Average, land and buildings, per farm....dollars..	2,652.88	4,295.87	4,378.26	7,014.65	5,409.38	4,188.25	5,227.40	7,594.28
6	per acre in farms....dollars..	14.67	17.37	9.93	9.31	14.91	5.41	23.00	21.46
7	Buildings, irrigated farms reporting value....number...	560	304	130	351	226	128	676	223
8	Total reported....dollars..	435,165	280,335	137,747	451,970	249,630	142,030	745,861	440,879
9	Average, per irrigated farm reporting....dollars..	777.08	922.15	1,059.59	1,287.66	1,104.56	1,109.61	1,103.34	1,977.04
10	per acre on all irrigated farms....dollars..	3.06	2.89	2.25	1.34	2.26	1.10	3.63	5.30
11	Buildings, nonirrigated farms reporting value....number...	26	8	12	61	54	14	38	11
12	Total reported....dollars..	15,750	3,575	13,750	60,043	42,005	17,100	45,625	15,641
13	Average, per nonirrigated farm reporting....dollars..	605.77	446.88	1,145.83	984.31	777.87	1,221.43	1,200.66	1,421.91
14	per acre on all nonirrigated farms....dollars..	0.77	0.20	0.18	0.53	0.60	0.29	0.55	1.12
15	Implements and machinery, irrigated farms reporting value..number...	684	358	126	395	271	77	776	218
16	Total reported....dollars..	293,658	173,783	60,035	284,896	149,608	26,038	520,967	158,494
17	Average, per irrigated farm reporting....dollars..	429.32	485.43	476.47	721.26	552.06	338.16	671.35	727.04
18	per acre, on all irrigated farms....dollars..	2.06	1.79	0.98	0.84	1.35	0.20	2.54	1.91
19	Implements and machinery, nonirrigated farms reporting value....number...	10	9	10	65	74	10	41	7
20	Total reported....dollars..	3,330	3,910	6,395	36,285	54,885	5,425	14,867	2,695
21	Average, per acre, on all nonirrigated farms....dollars..	0.16	0.22	0.08	0.32	0.78	0.09	0.18	0.19
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	40	82	[2]76	136	43	28	74	51
23	1930...number....	21	62	17	115	36	20	90	84
24	1920...number....	31	82	37	86	27	25	66	95
25	Average size of enterprise based on irrigable area....1940...acres....	2,026	347	96	260	479	144	1,180	199
26	1930...acres....	4,319	378	253	406	710	310	1,394	148
27	1920[2]...acres....	3,643	671	298	1,145	545	285	5,665	145
28	Diversion dams....1940...number....	41	114	48	40	71	28	36	59
29	Main canals and laterals....1940...length, miles....	273.1	214.3	72.3	185.4	47.7	61.4	386.8	102.0
30	1930...length, miles....	165	238	25	225	209	57	606	135
31	1920...length, miles....	853	276	84	231	125	54	823	182
32	1940...capacity, c.f.s.[3]....	2,965	711	228	492	420	89	2,289	453
33	1930...capacity, c.f.s.[3]....	1,034	535	59	730	702	53	1,714	483
34	1920...capacity, c.f.s.[3]....	1,061	464	150	1,242	156	89	3,560	748
35	Pipe lines[4]....1940...length, miles....	.....	.....	2.6	1.2	5.8	.....	7.0	0.1
36	Storage dams....1940...number....	12	8	5	6	8	12	29	6
37	Reservoirs....1940...number....	10	9	6	44	8	11	34	6
38	1930...number....	8	4	2	50	9	1	9	4
39	1920...number....	9	5	3	66	3	9	21	3
40	1940...capacity, acre-feet..	5,903	23,629	489	11,669	239,395	143	42,559	28,187
41	1930...capacity, acre-feet..	17,083	23,072	232	11,914	254,351	6,480	58,602	28,110
42	1920...capacity, acre-feet..	8,875	24,521	2,752	9,968	3,100	218	672,617	104
43	Wells, flowing....1940...number....	.....	.....	.....	53	7	.....	56	.....
44	1930...number....	.....	.....	.....	24	16	.....	136	.....
45	1920...number....	.....	.....	.....	139	11	.....	178	.....
46	1940...yield, g.p.m....	.....	.....	.....	1,648	408	.....	7,594	.....
47	1930...yield, g.p.m....	.....	.....	.....	550	1,070	.....	26,517	.....
48	1920...yield, g.p.m....	.....	.....	.....	10,061	342	.....	28,955	.....
49	Wells, pumped....1940...number....	.....	1	.....	101	.....	.....	2	.....
50	1930...number....	.....	.....	.....	82	.....	.....	6	.....
51	1920...number....	.....	.....	.....	41	1	.....	.....	.....
52	1940...yield, g.p.m....	.....	[1]	.....	50,966	.....	.....	[1]	.....
53	1930...yield, g.p.m....	.....	.....	.....	42,322	.....	.....	2,600	.....
54	1920...yield, g.p.m....	.....	.....	.....	10,500	28	.....	.....	.....
55	Pumping plants....1940...number....	9	1	21	102	.....	.....	3	.....
56	1930...number....	1	.....	7	76	.....	.....	9	.....
57	1920...number....	2	.....	11	21	3	.....	1	.....
58	Prime movers....1940...capacity, hp.....	1,218	[1]	323	1,478	.....	.....	35	.....
59	1930...capacity, hp....	900	.....	77	1,069	.....	.....	105	.....
60	1920...capacity, hp....	425	.....	227	272	28	.....	.....	.....
61	Pumps....1940...capacity, g.p.m....	25,350	[1]	23,100	55,901	.....	.....	6,080	.....
62	1930...capacity, g.p.m....	6,600	.....	7,620	55,110	.....	.....	5,700	.....
63	1920...capacity, g.p.m....	8,000	.....	17,812	10,400	2,468	.....	11,250	.....
64	Pumping lift, from all sources....1940...average, feet....	27	[1]	17	42	.....	.....	16	.....
65	1930...average, feet....	50	.....	17	40	.....	.....	21	.....
66	1920...average, feet....	46	.....	18	56	40	.....	.....	.....
67	from pumped wells....1940...average, feet....	.....	[1]	.....	42	.....	.....	[1]	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]								
68	Enterprises reporting pay roll....number...	9	18	2	17	3	3	16	18
69	Irrigated area in these enterprises....acres....	65,677	17,430	[1]	14,287	10,000	1,685	66,692	6,659
70	Wages and salaries paid and payable....dollars..	8,981	5,940	[1]	6,340	3,978	1,781	28,167	2,931
71	Persons employed during week ending April 29....number...	68	34	[1]	25	9	14	105	32

*Census of Agriculture.
[1]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber	
1,329,680	3,538,238	15,307,174	1,683,120	6,354,156	5,922,729	3,312,957	1,867,879	4,794,439	16,049,924	3,470,444	3,090,399	1,173,955	13,457,383	1
1,321,180	3,347,538	13,077,218	861,610	5,802,475	5,717,154	3,235,827	1,462,821	4,261,399	14,945,034	3,269,606	2,801,464	1,120,255	12,325,688	2
1,190,480	3,266,388	11,626,493	799,050	4,929,583	4,826,864	2,775,565	1,269,212	3,492,119	13,154,901	3,061,716	2,651,164	1,045,915	10,581,298	3
130,700	81,150	1,450,725	62,560	872,892	890,290	460,262	193,609	769,280	1,790,133	207,890	150,300	74,340	1,744,390	4
6,291.33	14,305.72	6,379.13	2,475.89	4,494.56	6,127.71	6,550.26	5,604.68	4,070.10	5,280.93	7,878.57	4,468.04	4,393.16	7,941.81	5
27.99	6.80	129.41	2.92	18.40	47.74	31.03	16.88	23.00	59.57	17.24	14.38	32.69	45.30	6
151	219	1,972	333	832	785	483	229	1,011	2,348	384	581	229	1,477	7
196,870	357,950	4,976,052	168,623	818,442	975,693	791,065	306,181	928,254	4,023,492	785,747	867,070	238,641	2,951,000	8
1,303.77	1,634.47	2,523.35	506.38	983.70	1,242.92	1,637.82	1,337.03	918.15	1,713.58	2,046.22	1,492.38	1,042.10	1,997.97	9
4.17	0.73	49.24	0.57	2.60	8.15	7.59	3.53	5.01	16.04	4.14	4.45	6.96	10.84	10
3	11	436	301	62	21	18	69	59	175	13	49	3	120	11
1,800	11,550	1,234,147	77,208	70,560	37,775	37,340	67,417	50,365	386,150	51,550	84,115	2,625	231,850	12
600.00	1,050.00	2,830.61	256.50	1,138.06	1,798.81	2,074.44	977.06	853.64	2,206.57	3,965.38	1,716.63	875.00	1,932.08	13
5.66	0.24	44.99	0.16	0.87	1.31	12.29	1.00	0.31	2.80	0.76	1.46	0.22	1.63	14
170	206	1,457	326	1,032	843	435	215	877	2,325	359	558	230	1,393	15
110,220	179,447	640,945	95,509	502,000	488,033	233,983	135,278	375,261	1,098,672	201,002	288,261	99,789	782,869	16
648.35	871.10	439.91	292.97	486.43	578.92	537.89	629.20	427.89	472.55	559.89	516.60	433.87	562.00	17
2.34	0.36	6.34	0.32	1.59	4.08	2.24	1.56	2.03	4.38	1.06	1.48	2.91	2.88	18
2	10	212	277	58	10	10	48	44	101	10	45	2	84	19
(1)	4,650	95,653	89,240	34,340	10,470	6,270	19,915	22,200	41,037	7,900	24,687	(1)	28,422	20
(1)	0.10	3.49	0.19	0.42	0.36	2.06	0.29	0.13	0.30	0.12	0.43	(1)	0.20	21
31	32	94	34	91	115	107	72	100	243	51	115	18	126	22
33	35	135	23	80	64	153	126	60	259	60	134	31	173	23
22	37	135	42	91	82	132	69	42	210	48	126	29	135	24
507	1,872	922	419	1,054	548	279	155	1,090	537	704	298	996	452	25
517	1,618	892	695	1,101	1,129	187	91	2,169	640	439	264	710	321	26
497	1,358	1,305	965	1,403	994	264	252	3,514	967	518	344	679	784	27
35	90	96	44	108	54	102	46	93	158	43	131	20	56	28
113.0	256.0	554.7	91.0	442.7	278.0	220.3	117.5	746.3	905.3	123.2	201.5	81.2	420.8	29
114	147	580	106	512	320	261	140	764	995	235	323	99	399	30
110	210	1,446	197	836	586	255	184	432	1,005	250	306	116	272	31
354	1,420	958	348	1,969	1,605	1,075	298	2,669	3,971	872	593	276	1,251	32
865	1,308	2,501	231	1,695	1,907	914	145	2,051	3,263	745	745	251	791	33
722	1,205	2,530	475	1,159	1,979	665	146	996	2,725	766	527	174	1,517	34
.....	.....	19.5	.....	2.6	5.7	0.7	17.5	3.1	15.9	.....	8.9	0.4	19.2	35
4	9	17	3	20	14	38	8	13	19	26	31	10	6	36
4	11	16	2	22	14	39	36	13	16	25	33	12	5	37
5	7	11	.....	19	16	10	36	5	26	18	25	6	23	38
3	4	14	14	23	16	18	16	.....	32	16	18	10	33	39
123,590	2,254	1,632	(1)	32,117	10,623	87,566	44	18,074	862,089	297,171	13,275	14,488	43,569	40
141,372	2,457	1,359	.....	29,420	21,113	54,462	359	26,030	273,193	11,578	17,560	3,800	2,934	41
55,000	52	3,051	11,885	30,708	87,779	1,810	21	.....	527,715	3,581	10,654	4,003	30,280	42
.....	.....	28	.....	13	290	.....	176	.....	364	.....	.....	.....	8	43
.....	.....	51	.....	15	40	.....	242	.....	312	.....	.....	.....	85	44
.....	.....	20	2	33	46	.....	80	.....	220	.....	.....	.....	33	45
.....	.....	1,231	.....	605	9,105	.....	7,601	.....	47,995	.....	.....	.....	216	46
.....	.....	1,728	.....	1,688	2,885	.....	15,106	.....	15,426	.....	.....	.....	4,081	47
.....	.....	222	90	505	9,395	.....	4,362	.....	27,729	.....	.....	.....	1,358	48
1	.....	1	.....	5	5	.....	4	.....	10	.....	3	.....	4	49
.....	.....	.....	.....	2	.....	.....	17	.....	7	.....	1	.....	10	50
.....	.....	1	.....	1	1	.....	7	1	4	.....	3	.....	6	51
(1)	.....	(1)	.....	3,660	1,626	.....	955	.....	4,860	.....	870	.....	1,400	52
.....	.....	.....	.....	1,470	.....	.....	3,683	.....	3,400	.....	300	.....	7,385	53
.....	.....	.....	.....	150	.....	.....	200	1,350	2,830	.....	1,500	.....	1,640	54
1	6	13	.....	5	6	.....	4	11	27	.....	7	.....	13	55
.....	2	5	.....	3	1	1	16	2	9	.....	1	.....	23	56
.....	2	9	.....	1	3	1	.....	4	8	.....	2	.....	22	57
(1)	155	1,011	.....	120	96	.....	34	219	4,262	.....	49	.....	227	58
.....	54	2,562	.....	32	30	6	72	29	3,150	.....	6	.....	370	59
.....	46	4,323	.....	5	84	6	.....	92	2,919	.....	30	.....	226	60
(1)	8,400	23,825	.....	4,860	7,025	.....	1,020	19,300	504,168	.....	2,045	.....	16,300	61
.....	40	541,400	.....	1,570	1,800	1,000	4,190	2,250	78,225	.....	300	.....	23,605	62
.....	3,300	524,900	.....	450	4,150	900	.....	3,350	30,830	.....	900	.....	26,245	63
(1)	40	42	.....	47	18	.....	51	13	35	.....	35	.....	19	64
.....	50	61	.....	24	33	10	26	20	42	.....	40	.....	20	65
.....	40	34	.....	4	32	12	.....	20	43	.....	30	.....	17	66
(1)	.....	(1)	.....	47	32	.....	51	.....	25	.....	41	.....	17	67
10	15	60	6	54	32	33	12	18	66	18	25	6	66	68
12,166	33,259	70,266	4,478	70,833	50,854	18,301	6,203	67,603	108,608	17,954	13,287	14,420	43,188	69
2,164	3,674	45,799	3,311	28,347	33,254	8,247	2,565	43,697	55,060	9,787	10,976	1,985	35,997	70
12	48	216	29	329	81	115	23	177	124	23	48	27	226	71

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[9] 42,865,280	42,775,040	42,775,040	42,775,040	42,775,040	42,775,040	42,775,040
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	81,686	84,381	70,904	66,288	56,192	33,202	18,056
Land in all farms.....acres....	15,181,815	14,680,097	13,533,778	13,244,720	11,712,235	8,499,297	4,179,190
Farms irrigated:[1]							
Farms.....number...	17,426	18,186	15,949	13,271	7,664	3,513	1,046
Increase or decrease (-) over preceding census....percent..	[2] 9.3	.....	20.2	73.2	118.2	235.9	.....
Proportion of all farms.....percent..	21.3	21.6	22.5	20.0	13.6	10.6	5.8
Land in farms.....acres....	2,108,197	[3]	1,923,337	[3]	[3]	[3]	[3]
Proportion of all farm land.....percent..	13.9	[3]	14.2	[3]	[3]	[3]	[3]
Area irrigated.....acres....	[4] 493,982	[5] 422,335	[6] 405,027	[7]	[7]	135,470	48,799
Increase or decrease (-) over preceding census....percent..	[2] 22.0	.....	.....	.....	.....	177.6	.....
Proportion of total land area of State.....percent..	1.2	1.0	0.9	.....	.....	0.3	0.1
Proportion of all farm land.....percent..	3.3	2.9	3.0	.....	.....	1.6	1.2
Value of irrigated farms (land and buildings).....dollars..	121,212,949	[3]	195,394,180	[3]	[3]	[3]	[3]
Average per farm.....dollars..	6,955.87	[3]	12,251.19	[3]	[3]	[3]	[3]
Average per acre.....dollars..	57.50	[3]	101.59	[3]	[3]	[3]	[3]
Value of farm implements and machinery[8].....dollars..	13,082,573	[3]	13,343,847	[3]	[3]	[3]	[3]
Average per farm[8].....dollars..	750.75	[3]	836.66	[3]	[3]	[3]	[3]
Average per acre[8].....dollars..	6.21	[3]	6.94	[3]	[3]	[3]	[3]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	4,120	[3]	2,986	2,692	1,934	[3]	[3]
Farms irrigated.....number...	24,648	[3]	[3]	[3]	[3]	[3]	[3]
Area irrigated.....acres....	615,013	[3]	499,283	529,899	334,378	[3]	[3]
Area existing works were capable of supplying with water.....acres....	731,527	[3]	631,511	637,151	470,514	[3]	[3]
Area irrigable.....acres....	837,096	[3]	915,379	[9] 836,795	[9] 817,032	[3]	[3]
Additional area existing works were capable of supplying with water.....acres....	116,514	[3]	132,228	107,252	136,136	[3]	[3]
Additional irrigable area in enterprises not supplied with water.....acres....	222,083	[3]	416,096	[9] 306,896	[9] 482,654	[3]	[3]
Investment in irrigation enterprises.....dollars..	56,415,196	[3]	40,561,895	29,299,011	16,219,149	1,722,369	196,660
Increase or decrease (-) over preceding census.....percent..	[2] 39.1	[3]	38.4	80.6	841.7	775.8	.....
Average per acre based on area works were capable of supplying with water.....dollars..	77.12	[3]	64.23	45.98	34.47	[3]	[3]
Increase or decrease (-) over preceding census....percent..	[2] 20.1	[3]	39.7	33.4	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	58,141,097	[3]	53,232,477	37,684,591	22,322,856	[3]	[3]
Average per acre based on irrigable area in enterprises.....dollars..	69.46	[3]	58.15	[9] 45.03	[9] 27.32	[3]	[3]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	2.80	[3]	4.14	3.45	3.08	[3]	[3]

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 84,821 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [9] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from that shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	81,686	15,181,815	3,569,603	409,161	84,821	593,366,445	39.08	154,520,136	10.18	56,101,147	3.70
Owners and managers.....	67,224	12,139,554	2,671,177	303,282	61,132	473,199,299	38.98	132,485,253	10.91	44,379,625	3.66
Tenants.....	14,462	3,042,261	898,626	105,879	23,689	120,167,146	39.50	22,034,883	7.24	11,721,522	3.85
Irrigated farms, total.....	17,426	2,108,197	504,310	409,161	84,821	121,212,949	57.50	36,111,810	17.13	13,082,573	6.21
Owners and managers.....	14,069	1,762,907	382,353	303,282	61,132	100,900,376	57.24	31,613,019	17.93	10,955,063	6.21
Tenants.....	3,357	345,290	121,957	105,879	23,689	20,312,573	58.83	4,498,791	13.03	2,127,510	6.16
Wholly irrigated farms.....	14,273	1,119,045	364,938	364,938	71,215	93,218,122	83.30	28,746,120	25.69	10,237,116	9.15
Owners and managers.....	11,510	890,256	267,687	267,687	50,577	77,159,082	86.67	25,191,137	28.30	8,531,085	9.58
Tenants.....	2,763	228,789	97,251	97,251	20,638	16,059,040	70.19	3,554,983	15.54	1,706,031	7.46
Partly irrigated farms.....	3,153	989,152	139,372	44,223	13,606	27,994,827	28.30	7,365,690	7.45	2,845,457	2.88
Owners and managers.....	2,559	872,651	114,666	35,595	10,555	23,741,294	27.21	6,121,882	7.36	2,423,978	2.78
Tenants.....	594	116,501	24,706	8,628	3,051	4,253,533	36.51	943,808	8.10	421,479	3.62
Nonirrigated farms, total.....	64,260	13,073,618	3,065,493	.....	.....	472,153,496	36.11	118,408,326	9.06	43,018,574	3.29

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	4,120	837,096	731,527	615,013	499,283	529,899	23.2	590,627	602,594	583,205	5.5	3.57	0.65
Primary sources:													
Streams, gravity	1,382	445,246	387,078	329,397	306,185	352,199	7.6	306,939	318,779	301,235	3.9	2.38	0.60
Streams, pumped	885	57,162	51,120	44,167	139,738	26,244	-68.4	44,146	43,649	43,628	4.1	9.36	2.26
Streams, gravity and pumped	35	264,281	226,781	191,824	4,144	92,702	(2)	191,824	191,820	191,820	5.0	2.23	0.44
Wells, pumped	831	24,647	23,290	17,926	19,456	17,504	-7.9	17,845	17,676	17,595	4.5	11.18	2.47
Wells, flowing	28	2,791	2,509	2,073	1,436	1,671	44.4	2,072	1,636	1,635	3.2	0.77	0.24
Wells, pumped and flowing	.....	.....	.....	.....	103	1,490	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	12	1,501	1,247	968	3,107	3,442	-68.8	968	961	961	6.2	4.84	0.77
Lakes, pumped	110	3,534	3,432	2,948	3,395	4,662	-13.2	2,948	2,917	2,917	4.2	16.90	4.02
Springs	377	12,319	11,584	5,752	4,033	7,869	42.6	5,661	5,380	5,358	3.1	2.83	0.93
Springs and streams	84	4,995	4,741	4,076	.....	.....	.....	2,436	3,977	2,345	2.7	3.50	1.29
Stored storm water	3	50	50	35	625	129	-94.4	35	35	35	0.9	7.86	8.33
City water	44	542	540	358	46	42	342.0	346	350	342	1.1	10.01	15.81
Sewage	1				35	.....							
Streams, gravity; wells, pumped	22	1,087	1,065	936	708	2,415	29.4	936	936	936	3.5	5.23	1.49
Streams, gravity; wells, flowing	2				.....	441	.....						
Streams, pumped; wells, pumped	18	1,306	1,271	1,018	.....	.....	.....	1,018	960	960	3.9	12.98	3.34
Waste water, seepage or drainage	79	1,074	1,058	955	.....	.....	.....	915	940	900	1.1	2.57	2.36
Other mixed	73	16,561	15,761	12,580	16,155	19,027	-22.7	12,538	12,578	12,538	3.9	7.71	1.98
Other and not reported	1				117	62		.....		.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	95	220,068	217,970	183,644	.....	.....	.....	183,524	10,967	10,967	3.8	0.40	0.10
Streams, pumped	7	160	160	145	4,600	.....	-96.8	145	145	145	2.5	6.61	2.66
Wells, pumped	30	965	879	875	157	.....	450.3	863	850	840	2.7	4.32	1.61
Wells, flowing	1				2	.....							

[1] Based on enterprises reporting both quantity and cost of water, assuming (*a*) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (*b*) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Percent not shown when more than 1,000. [3] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]					
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	56,415,196	100.0	77.12	40,561,895	100.0	64.23	12.89	602,414	2.80	487,977	4.14	-1.34	465,758	3.45
Primary sources:														
Streams, gravity	19,417,319	34.4	50.16	22,549,053	55.6	55.45	-5.29	318,779	1.68	300,194	2.50	-0.82	308,899	2.49
Streams, pumped	4,781,231	8.5	93.53	11,170,037	27.5	71.63	21.90	43,649	8.81	138,807	3.84	4.97	23,129	11.16
Streams, gravity and pumped	20,513,648	36.4	90.46	280,321	0.7	56.30	34.16	191,820	2.08	4,144	8.24	-6.16	92,574	1.99
Wells, pumped	1,468,048	2.6	63.03	1,785,628	4.4	82.24	-19.21	17,496	10.34	18,418	15.43	-5.09	16,158	12.71
Wells, flowing	81,184	0.1	32.36	159,630	0.4	78.79	-46.43	1,636	0.77	304	10.92	-10.15	1,076	2.03
Wells, pumped and flowing	.....	.....	.....	36,900	(3)	36.28	.....	.....	.....	103	2.91	.....	1,490	1.86
Lakes, gravity	155,329	0.3	124.56	260,684	0.6	59.04	65.52	961	2.61	3,087	6.70	-4.09	4,371	3.96
Lakes, pumped	298,284	0.5	86.91	558,096	1.4	150.15	-63.24	2,917	15.65	3,232	19.73	-4.08	2,976	13.05
Springs	275,428	0.5	23.78	173,304	0.4	16.72	7.06	5,380	2.82	2,868	3.90	-1.08	4,857	7.08
Springs and streams	192,933	0.3	40.69	.....	.....	.....	.....	3,977	2.27	.....	.....	.....	.....	.....
Stored storm water	2,250	(3)	45.00	13,370	(3)	19.15	25.85	35	7.86	250	2.44	5.42	65	11.85
City water	18,006	(3)	33.34	420	(3)	9.13	26.18	350	16.65	33	33.33	-0.34	.....	.....
Sewage				160	(3)	4.57				35	1.57		.....	.....
Streams, gravity; wells, pumped	35,875	0.1	33.69	43,836	0.1	45.42	-16.62	936	5.23	685	8.86	-3.56	2,158	20.70
Streams, gravity; wells, flowing				.....	.....	.....	.....			.....	.....	.....	324	4.97
Streams, pumped; wells, pumped	66,295	0.1	52.16	.....	.....	.....	.....	960	12.68	.....	.....	.....	.....	.....
Waste water, seepage or drainage	26,736	(3)	25.27	.....	.....	.....	.....	940	2.51	.....	.....	.....	.....	.....
Other mixed	2,549,058	4.5	161.73	3,197,338	7.9	170.10	-7.39	12,578	5.79	15,817	15.89	-10.10	7,681	6.14
Other and not reported				1,382	(3)	11.81				.....	.....	.....	.....	.....
Supplemental sources:[4]														
Streams, gravity and/or storage	6,495,970	11.5	29.80	.....	.....	.....	.....	21,301	0.31	.....	.....	.....	.....	.....
Streams, pumped	7,204	(3)	45.02	320,866	0.8	65.04	-20.02	145	6.61	4,347	13.55	-6.94	.....	.....
Wells, pumped	30,398	0.1	34.58	9,370	(3)	59.68	-28.99	850	4.50	156	8.09	-3.68	.....	.....
Wells, flowing				1,500	(3)	107.14				2	15.00		.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Less than one-tenth of 1 percent. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	615,013	184,664	499,283	529,899	23.2
Individual and partnership	104,343	10,721	88,015	142,215	18.6
Cooperative, incorporated	60,508	6,720	92,743	93,192	-9.2
Cooperative, unincorporated	23,748	.....			
Irrigation district	124,599	5,347	97,772	79,918	27.4
Commercial	7,290	.....	9,474	21,705	-23.1
Bureau of Reclamation[2] *	167,085	161,876	118,667	122,869	40.8
Office of Indian Affairs[2]	118,637	.....	92,367	69,510	28.4
State	159	.....	245	200	-35.1
City and/or sewage	8,644	.....	.....	.....	.....
Other	.....	.....	.....	290	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	731,527	219,009	631,511	637,151	15.8
Individual and partnership	131,549	11,058	106,290	169,457	23.8
Cooperative, incorporated	66,465	6,720	112,501	104,699	-18.6
Cooperative, unincorporated	25,063	.....			
Irrigation district	142,161	12,554	122,006	118,009	16.5

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	7,610	.....	20,201	31,652	-62.3
Bureau of Reclamation[2] *	210,512	188,677	137,288	135,119	53.3
Office of Indian Affairs[2]	139,085	.....	132,980	77,710	4.6
State	229	.....	245	200	-6.5
City and/or sewage	8,853	.....	.....	.....	.....
Other	.....	.....	.....	305	.....
IRRIGABLE AREA[3]					
Total	837,096	221,193	915,379	836,795	-8.6
Individual and partnership	140,099	11,182	121,944	226,671	14.9
Cooperative, incorporated	68,855	7,720	115,884	118,539	-17.5
Cooperative, unincorporated	26,800	.....			
Irrigation district	151,343	13,614	133,088	134,641	13.7
Commercial	7,610	.....	32,618	75,292	-76.7
Bureau of Reclamation[2] *	282,517	188,677	315,600	152,947	-10.5
Office of Indian Affairs[2]	150,085	.....	196,000	128,200	-23.4
State	229	.....	245	200	-6.5
City and/or sewage	9,558	.....	.....	.....	.....
Other	.....	.....	.....	305	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] U. S. Dept. of the Interior. [3] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 605.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	ENTERPRISES Serving 5 or more farms	AREAS Irrigable	AREAS Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	AVERAGE COST Primary enterprises: Maintenance and operation per acre[3]	AVERAGE COST Supplemental enterprises: Works and equipment per acre[2]	AVERAGE COST Supplemental enterprises: Maintenance and operation per acre[3]
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	4,120	243	837,096	731,527	67.19	2.78	29.81	0.51
Individual and partnership	3,874	22	140,099	131,549	31.18	4.60	6.10	0.59
Cooperative, incorporated	73	69	68,855	66,465	68.58	2.64	9.36	0.12
Cooperative, unincorporated	78	63	26,800	25,063	13.81	0.73	.....	.....
Irrigation district	66	65	151,343	142,161	87.46	3.62	24.05	0.83
Commercial	4	4	7,610	7,610	100.63	6.27	.....	.....
U. S. Bureau of Reclamation *	12	12	282,517	210,512	102.50	2.35	32.31	.....
U. S. Office of Indian Affairs	4	3	150,085	139,085	37.90	1.25	.....	.....
State	4	.....	229	229	72.29	2.36	.....	.....
City and/or sewage	5	5	9,558	8,853	8.90	2.12	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....

TYPE OF ENTERPRISE (For definitions and explanations, see text)	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Acres*	*Acres*	*Acres*	*Acres*
Total	24,648	615,013	520,424	6,113	88,476
Individual and partnership	4,252	104,343	85,926	1,703	16,714
Cooperative, incorporated	3,869	60,508	54,846	330	5,332
Cooperative, unincorporated	646	23,748	19,612	234	3,902
Irrigation district	7,573	124,599	111,635	1,665	11,299
Commercial	408	7,290	5,423	.....	1,867
U. S. Bureau of Reclamation *	5,727	167,085	133,934	2,181	30,970
U. S. Office of Indian Affairs	1,904	118,637	100,294	.....	18,343
State	4	159	144	.....	15
City and/or sewage	265	8,644	8,610	.....	34
Other	.....	.....	.....	.....	.....

[1] Reported by enterprises in the Census of Irrigation, 1940, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. * For explanation of areas and investment, see text, p. 605.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	56,415,196	49,881,624	6,533,572	55,678,678	736,518	40,561,895	29,299,011	39.1	68.19	29.82	304,832	1,725,901
Individual and partnership	4,246,697	4,178,853	67,844	4,168,738	77,959	4,467,599	4,732,706	-4.9	31.77	6.14	50	144,851
Cooperative, incorporated	4,691,822	4,625,022	66,800	4,621,087	70,735	4,162,417	3,949,896	21.2	69.59	9.94	31,385	112,500
Cooperative, unincorporated	352,094	352,094	.....	346,171	5,923				14.05	.....	5,202	8,000
Irrigation district	13,317,182	13,015,291	301,891	12,735,281	581,901	10,170,631	6,112,628	30.9	91.55	24.05	54,889	469,000
Commercial	765,810	765,810	.....	765,810	.....	682,507	2,341,428	12.2	100.63	.....	47,112	.....
U. S. Bureau of Reclamation *	27,675,132	21,578,095	6,097,037	27,675,132	.....	15,542,597	10,441,145	78.1	102.50	32.31	9,214	126,550
U. S. Office of Indian Affairs	5,271,081	5,271,081	.....	5,271,081	.....	5,492,844	1,658,040	-4.0	37.90	.....	186,980	865,000
State	16,555	16,555	.....	16,555	.....	43,300	55,668	-61.8	72.29	.....	.....	.....
City and/or sewage	78,823	78,823	.....	78,823	.....	.....	.....	.....	8.90	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	7,500	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. * For explanation of investment, see text, p. 605.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 95	*Acres* 820,492	*Acres* 726,245	*Dollars* 22,621,604	*Dollars* 43.52	*Dollars* 41.69	*Number* 17	*Dollars* 605,398	*Dollars* 494,978	*Dollars* 2.73	*Acres* 582,034	*Dollars* 1,545,582	*Dollars* 1,088,155
Partnership	1	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	5,152	3,484	1,376
Cooperative, incorporated	23	35,878	32,688	213,274	7.46	7.77	3	14,578	16,680	3.42	61,302	176,207	156,208
Cooperative, unincorporated	2	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	21,751	18,585	12,967
Irrigation district	53	153,608	145,556	4,287,148	31.27	31.25	6	30,160	38,868	1.85	150,956	711,324	726,590
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,610	48,991	43,184
Bureau of Reclamation[7] [8]	12	471,194	399,189	[9] 14,262,702	64.56	63.82	8	[9] 560,660	[9] 439,430	2.79	208,082	420,626	124,585
Office of Indian Affairs[7]	3	149,985	138,985	[9] 3,843,179	32.42	27.65	.....	.....	.....	.....	118,537	147,325	6,248
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	1	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	8,644	19,040	16,997
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $1.96. [4] Based on primary enterprises only; State average for supplemental enterprises is $4.20. [5] Based on primary enterprises only; no supplemental enterprises reported both arrearage and assessed area. [6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [7] U. S. Dept. of the Interior. [8] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [9] Represents construction costs of irrigation works less cancellations and repayments. * For explanation of areas and investment, see text, p. 605.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (for definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre				
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 602,414	*Dollars* 1,673,992	*Acres* 22,296	*Dollars* 11,314	*Dollars* 2.78	*Dollars* 0.51	*Number* 201	*Dollars* 784,904	*Number* 937
Individual and partnership	98,551	453,691	10,229	6,055	4.60	0.59	11	1,513	28
Cooperative, incorporated	56,508	149,097	6,720	801	2.64	0.12	64	54,814	137
Cooperative, unincorporated	21,160	15,355	.....	.....	0.73	.....	42	5,023	4
Irrigation district	124,380	449,823	5,347	4,458	3.62	0.83	65	264,480	419
Commercial	7,290	45,695	.....	.....	6.27	.....	4	[2] 32,507	[2] 28
U. S. Bureau of Reclamation*	167,085	392,991	.....	.....	2.35	.....	11	263,642	204
U. S. Office of Indian Affairs	118,637	148,647	.....	.....	1.25	.....	3	162,925	117
State	159	376	.....	.....	2.36	.....	.....	.....	.....
City and/or sewage	8,644	18,317	.....	.....	2.12	.....	1	([2])	([2])
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Only for enterprises serving 5 or more farms.
[2] Data for 1 "City and/or sewage" enterprise are included with "Commercial" enterprises in the 1940 Census.
* For explanation of areas and investment, see text, p. 605.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 1,755	*Number* 125	*Sec.-ft.* 15,104	*Miles* 3,581	*Miles* 667.6	114	*Ac.-ft.* 1,165,527	*Miles* 2,612.7	50	*G.p.m.* 21,192	1,041	*G.p.m.* 287,327	2,487	*Hp.* 37,131	2,488	*G.p.m.* 953,751
Individual and partnership	1,581	97	3,792	863	152.9	83	5,158	1,170.2	49	20,942	1,009	199,475	2,342	18,655	2,346	527,143
Cooperative, incorporated	44	4	1,658	279	74.0	5	6,033	225.6	.....	.....	12	33,650	34	4,065	33	71,350
Cooperative, unincorporated	74	2	758	160	5.2	2	1,080	38.1	.....	.....	8	9,562	18	515	18	12,832
Irrigation district	42	13	3,239	488	240.8	12	64,490	669.5	1	250	11	43,890	56	5,370	55	100,584
Commercial	3	.....	150	24	1.5	1	57	52.5	.....	.....	.....	.....	2	100	2	3,350
Bureau of Reclamation[3]	4	8	3,040	953	193.1	8	1,088,700	349.3	.....	.....	.....	.....	21	3,979	21	95,150
Office of Indian Affairs[3]	5	.....	2,322	789	.....	.....	.....	67.8	.....	.....	.....	.....	7	3,975	7	136,900
State	1	1	4	.....	.....	3	9	7.2	.....	.....	1	750	7	172	6	6,142
City and/or sewage	1	.....	141	25	0.1	.....	.....	32.5	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930		MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage		Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*		*Number*	*Number*	*Number*	*Number*
Total	1,755	125	499	100	Earth and rock	725	81	.....	52
					Other and mixed	[1] 384	11	[1] 217	30
Concrete or masonry	166	21	101	11	Not reported	27	.....	32	7
Timber	453	12	149	.....					

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*		*Number*	*Percent*	*Hp.*	*Percent*
Total, 1940	2,488	100.0	953,751	100.0	47	Total, 1940	2,487	100.0	37,131	100.0
Electric motor	**2,039**	**81.9**	**574,308**	**60.2**	**51**	**Centrifugal pump**	**2,013**	**80.9**	**33,230**	**89.5**
Centrifugal	1,731	69.5	526,559	55.2	47	Electric	1,725	69.4	23,974	64.6
Turbine	99	4.0	29,442	3.1	92	Internal-combustion	257	10.3	3,788	10.2
Plunger	183	7.4	13,807	1.4	64	Other	31	1.2	5,468	14.7
Other	26	1.0	4,500	0.5	32					
						Turbine pump	**112**	**4.5**	**1,670**	**4.5**
Internal-combustion engine	**330**	**13.3**	**134,508**	**14.1**	**30**	Electric	91	3.7	1,335	3.6
Centrifugal	248	10.0	119,562	12.6	25	Internal-combustion	13	0.5	217	0.6
Turbine	12	0.5	7,079	0.7	45	Other	8	0.3	118	0.3
Plunger	54	2.2	3,697	0.4	56					
Other	16	0.6	4,170	0.4	25	**Plunger pump**	**233**	**9.4**	**956**	**2.6**
						Electric	172	6.9	633	1.7
Other kinds of motive power	**45**	**1.8**	**76,799**	**8.1**	**45**	Internal-combustion	49	2.0	288	0.8
Centrifugal	22	0.9	72,275	7.7	52	Other	12	0.5	35	0.1
Turbine	6	0.2	3,950	0.4	36					
Plunger	12	0.5	362	[1]	44	**Other and mixed types of pumps**	**129**	**5.2**	**1,275**	**3.4**
Other	5	0.2	212	[1]	43	Electric	83	3.3	1,001	2.7
						Internal-combustion	34	1.4	267	0.7
Mixed kinds of motive power	**74**	**3.0**	**168,136**	**17.6**	**42**	Other	[2] 12	0.5	7	[1]
Centrifugal	43	1.7	166,043	17.4	45					
Turbine	.....	.....	.....	.....	.....	Total, 1930	[3] 1,951	.....	33,187	.....
Plunger	17	0.7	1,022	0.1	40					
Other	14	0.6	1,071	0.1	37	Increase or decrease (-) 1930-1940	536	.....	3,944	.....
Total, 1930	2,023	.....	993,303	.....	59					
Increase or decrease (-) 1930-1940	465	.....	-39,552	.....	-12					

[1] Less than one-tenth of 1 percent. [2] Includes water wheels for which no horsepower was reported. [3] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940[1]	1930[2]			1940[1]	1930[2]	
	Miles	*Miles*	*Percent*		*Miles*	*Miles*	*Percent*
Total	2,612.7	[3] 1,136.9	129.8	Wood-stave:			
				1 to 12 inches	474.0	260.6	81.9
Concrete:				13 to 24 inches	101.4	126.5	42.5
1 to 12 inches	489.5	139.7	250.4	Over 24 inches	78.9		
13 to 24 inches	103.6	110.0	14.0	Clay and other:			
Over 24 inches	21.8			1 to 12 inches	92.1	67.6	36.2
Metal:				13 to 24 inches	8.5	6.0	106.7
1 to 12 inches	1,171.5	290.4	303.4	Over 24 inches	3.9		
13 to 24 inches	62.5	10.2	561.8				
Over 24 inches	5.0						

[1] Includes siphons and farm pipe lines reported. [2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census. [3] Includes 26.0 miles clay pipe lines not segregated by size; 86.3 miles other materials not segregated by size; and 13.6 miles, 1 to 12 inches in size, material not specified.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage...number..	208	74	103	Ratio of area drained to area irrigated in—			
				(a) Enterprises reporting lands drained and/or needing drainage...percent..	59.3	[3] 37.3	[1] 36.2
Area irrigable in these enterprises...acres...	448,702	460,861	[1] 218,763	(b) All irrigation enterprises...percent..	29.0	34.5	14.9
Area irrigated in these enterprises...acres...	300,362	[2]	[2]	Ratio of area drained plus area needing drainage to—			
				(a) Irrigable area reporting...percent..	43.9	43.4	[1] 56.1
Area for which drains have been installed...acres...	178,212	172,039	79,168	(b) Irrigated area reporting...percent..	65.5	[2]	[2]
Additional area needing drainage...acres...	18,673	28,084	43,461				

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census. [2] Not available. [3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,702,120	1,922,946	2,168,818	2,033,320	1,557,214	1,513,616	668,800	365,732	655,202
Area irrigated by these enterprises.....acres.....	474,131	352,994	341,569	361,507	291,521	264,558	112,624	61,473	77,011
Average water per acre irrigated.....acre-feet..	5.7	5.4	6.3	5.6	5.3	5.7	5.9	5.9	8.5
Total water delivered to irrigators.....acre-feet..	2,454,200	686,739	594,479	1,013,980	650,152	139,232	1,440,220	36,587	455,247
Area irrigated by these enterprises.....acres.....	568,182	190,009	174,989	249,791	179,529	77,235	318,391	10,480	97,754
Average water per acre irrigated.....acre-feet..	4.3	3.6	3.4	4.1	3.6	1.8	4.5	3.5	4.7
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	94,381	.....	.....	22,395	.....	.....	71,986	.....	.....
Area irrigated by these enterprises.....acres.....	22,445	.....	.....	4,886	.....	.....	17,559	.....	.....
Average water per acre irrigated.....acre-feet..	4.2	.....	.....	4.6	.....	.....	4.1	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	17,221	.....	.....	4,800	.....	.....	12,421	.....	.....
Area irrigated by these enterprises.....acres.....	8,453	.....	.....	6,600	.....	.....	1,853	.....	.....
Average water per acre irrigated.....acre-feet..	2.0	.....	.....	0.7	.....	.....	6.7	.....	.....
Total water delivered to irrigators.....acre-feet..	701,830	.....	.....	15,120	.....	.....	686,710	.....	.....
Area irrigated by these enterprises.....acres.....	183,669	.....	.....	10,214	.....	.....	173,455	.....	.....
Average water per acre irrigated.....acre-feet..	3.8	.....	.....	1.5	.....	.....	4.0	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	2,322	.....	.....	.....	.....	.....	2,322	.....	.....
Area irrigated by these enterprises.....acres.....	865	.....	.....	.....	.....	.....	865	.....	.....
Average water per acre irrigated.....acre-feet..	2.7	.....	.....	.....	.....	.....	2.7	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated						
	Primary enterprises	Proportion of total	Supplemental enterprises[1]	Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total	615,013	100.0	184,664	499,283	100.0	529,899	100.0
Appropriation[2]	501,882	81.6	176,144	344,469	68.9	423,545	80.0
Riparian	51,326	8.3	2,590	29,295	5.9	17,095	3.2
Appropriation and riparian	9,014	1.5	3,993	.....	.....	.....	.....
Underground	16,446	2.7	646	17,309	3.5	20,859	3.9
Appropriation and underground	284	(3)	.....	.....	.....	.....	.....
Riparian and underground	1,214	0.2	118	.....	.....	.....	.....
Adjudicated by court	25,661	4.2	81	74,907	15.0	56,309	10.6
Other mixed and not reported	9,186	1.5	1,092	33,303	6.7	12,091	2.3

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] "Appropriation" includes water rights published in the 1930 and 1920 census reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State." [3] Less than one-tenth of 1 percent.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 167,085 acres irrigated in 1939 which were within the Sunnyside, Tieton, and Kittitas Districts of the Yakima Project and within the Okanogan Irrigation District of the Okanogan Project. These are indicated as separate enterprises under the Bureau of Reclamation and their areas are not duplicated under any other classification. Areas totaling 161,876 acres, classified as irrigated with a supplemental supply from the Yakima Project under the Warren Act or special contracts, include 106,497 acres under the Wapato Division of the Yakima Indian Reservation and a number of small districts are reported as receiving a primary supply through other enterprises, principally the Office of Indian Affairs and irrigation districts.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates to these areas and reflects construction costs incurred by the United States for irrigation facilities which were in operation in 1939. It also includes an investment of $247,868 expended by irrigation districts within the Yakima Project. Costs of drainage works and power facilities on the Yakima Project which were not to be repaid directly by water users are excluded. Construction costs of the Roza Division, the Yakima Project which was not in operation in 1939, and data relating to Grand Coulee Dam and the Columbia Basin Irrigation District are omitted. The dam which was under construction on the Columbia River was to store 10,000,000 acre-feet of water for the irrigation of 1,200,000 acres of land in the Upper Columbia Basin, regulate the Columbia River, and provide for the ultimate installation of 1,964,000 kilowatts of electric power. As Grand Coulee Dam was nearing completion, initial operations of the power plant were scheduled to begin in 1941. Construction of the irrigation carriage and distribution facilities was to begin when repayment contracts were signed as required by law. It was anticipated (before the United States entered World War II) that irrigation of the first lands in the Columbia Basin Project would begin in 1945.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	3,987	31	3,446	272	139	62	34	3
2	Irrigated farms, 1939.....number...	24,648	.....	3,446	679	1,467	3,051	10,122	5,883
3	Area irrigated, 1939.....acres....	615,013	.....	81,153	20,439	44,363	69,295	195,486	204,277
4	(a) From which crops were harvested.....acres....	520,424	.....	67,377	17,278	36,474	59,407	172,703	167,185
5	(b) On which crops failed.....acres....	6,113	.....	629	260	1,343	858	2,055	968
6	(c) Irrigated pasture.....acres....	88,476	.....	13,147	2,901	6,546	9,030	20,728	36,124
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises.....dollars..	49,881,624	13,272	3,570,184	594,461	1,268,736	4,503,709	28,704,369	11,226,893
8	(a) Cost of irrigation works and equipment.....dollars..	49,149,404	13,107	3,526,030	573,469	1,236,511	4,413,389	28,160,005	11,226,893
9	(b) Investment in water rights.....dollars..	732,220	165	44,154	20,992	32,225	90,320	544,364	.....
10	Area works were capable of supplying with water.....acres....	731,527	454	104,947	23,760	47,995	79,538	226,950	247,883
11	Average investment per acre irrigated.....dollars..	81.11	.....	43.99	29.08	28.60	63.17	146.45	54.96
12	Average investment per acre which the works could supply with water.....dollars..	68.19	29.23	34.02	25.02	26.43	55.24	126.17	45.29
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation.....number...	3,742	30	3,235	250	129	61	34	3
14	(a) Area irrigated in these enterprises.....acres....	602,414	.....	76,482	19,313	41,561	65,295	195,486	204,277
15	(b) Cost of maintenance and operation.....dollars..	1,673,992	900	399,133	56,088	79,132	151,121	627,166	360,452
16	(c) Average cost per irrigated acre reporting.....dollars..	2.78	.....	5.22	2.90	1.90	2.25	3.20	1.76
17	Total annual charges[3].....dollars..	1,542,453	.....	.....	.....	100,791	230,432	831,129	380,101
18	Average charge per irrigated acre reporting.....dollars..	3.04	.....	.....	.....	2.42	3.53	4.25	1.86
19	Area against which charges were assessed.....acres....	573,094	.....	.....	.....	44,921	73,410	226,363	228,400
20	Average annual charge per acre assessed.....dollars..	2.69	.....	.....	.....	2.24	3.14	3.67	1.66
21	Total charges collected[3].....dollars..	1,062,485	.....	.....	.....	80,174	186,724	795,587	.....
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4].....number...	92	.....	.....	.....	20	38	31	3
23	(a) Area irrigated in these enterprises.....acres....	439,839	.....	.....	.....	6,891	41,740	186,931	204,277
24	(b) Indebtedness.....dollars..	21,764,676	.....	.....	.....	153,165	1,385,715	14,853,205	5,372,591
25	(c) Average indebtedness per acre irrigated.....dollars..	49.48	.....	.....	.....	22.23	33.20	79.46	26.30
26	(d) Cost of irrigation works and equipment.....dollars..	42,904,126	.....	.....	.....	427,114	3,981,036	27,269,083	11,225,893
27	(e) Investment in water rights.....dollars..	632,570	.....	.....	.....	7,626	80,580	544,364	.....
28	(f) Total investment.....dollars..	43,536,696	.....	.....	.....	434,740	4,061,616	27,813,447	11,226,893
29	(g) Maintenance and operation.....dollars..	1,076,592	.....	.....	.....	35,629	126,572	553,939	360,452
30	(h) Total annual charges[3].....dollars..	1,382,790	.....	.....	.....	54,824	189,942	757,923	380,101
31	(i) Total charges collected[3].....dollars..	928,742	.....	.....	.....	42,689	159,344	726,709	.....
32	(j) Area against which annual charges were assessed.....acres....	500,154	.....	.....	.....	7,423	47,163	217,168	228,400
33	(k) Average indebtedness per acre assessed.....dollars..	43.52	.....	.....	.....	20.63	29.38	68.39	23.52
34	(l) Average charges per acre assessed.....dollars..	2.76	.....	.....	.....	7.39	4.03	3.49	1.66
35	(m) Average charges per acre irrigated.....dollars..	3.14	.....	.....	.....	7.96	4.55	4.05	1.86
36	Enterprises reporting arrearage[4].....number...	16	.....	.....	.....	4	[2] 2	8	[2] 2
37	(a) Area assessed in these enterprises.....acres....	219,571	.....	.....	.....	949	3,515	99,224	115,883
38	(b) Total arrearage.....dollars..	598,398	.....	.....	.....	7,828	13,933	202,161	374,476
39	(c) Average arrearage per acre assessed.....dollars..	2.73	.....	.....	.....	8.25	3.96	2.04	3.23
40	(d) Indebtedness.....dollars..	13,451,027	.....	.....	.....	65,006	325,655	11,302,775	1,757,591
	TYPE, 1940								
41	Individual and partnership.....number...	3,746	31	3,432	261	22	.....	.....	.....
42	Cooperative (incorporated and unincorporated).....number...	149	.....	10	9	95	27	8	.....
43	Irrigation district.....number...	64	.....	.....	1	17	27	19	.....
44	Commercial.....number...	4	.....	.....	.....	2	1	1	.....
45	U. S. Bureau of Reclamation.....number...	11	.....	.....	.....	1	3	5	2
46	U. S. Office of Indian Affairs.....number...	4	.....	.....	1	.....	2	.....	1
47	All other.....number...	9	.....	4	.....	2	2	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll.....number...	198	.....	.....	.....	102	59	34	3
49	Wages and salaries paid and payable for 1939.....dollars..	781,924	.....	.....	.....	30,609	73,046	357,093	321,176
50	Persons employed during week ending April 29, 1939.....number...	936	.....	.....	.....	128	181	420	207
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity.....number...	1,382	6	1,047	158	104	47	18	2
52	Streams, pumped.....number...	885	7	807	44	16	5	6	.....
53	Wells, pumped.....number...	831	12	782	25	7	3	2	.....
54	Wells, pumped and flowing; or wells flowing.....number...	28	.....	26	2	.....	.....	.....	.....
55	Lakes, gravity or pumped.....number...	122	.....	109	9	3	1	.....	.....
56	Streams and springs; or springs.....number...	461	5	433	19	4	.....	.....	.....
57	Mixed, streams and wells.....number...	77	.....	58	8	2	3	5	1
58	Other mixed or stored storm water.....number...	201	1	184	7	3	3	3	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940.....number...	133	1	119	8	.....	[2] 2	[2] 2	[2] 1
2	Irrigated farms, 1939.....number...	4,238	.....	119	16	.....	125	460	3,518
3	Area irrigated, 1939.....acres....	184,664	.....	9,928	793	.....	8,333	3,734	161,876
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises.....dollars..	6,533,572	61,799		6,045	.....	87,591	281,100	6,097,037
5	(a) Cost of irrigation works and equipment.....dollars..	6,529,274	61,401		6,045	.....	84,891	279,900	6,097,037
6	(b) Investment in water rights.....dollars..	4,298	398		.....	.....	2,700	1,200	.....
7	Area works were capable of supplying with water.....acres....	219,009	10,233		825	.....	15,540	3,734	188,677
8	Average investment per acre irrigated.....dollars..	35.38	.....		7.62	.....	10.51	75.28	37.66
9	Average investment per acre which the works could supply with water.....dollars..	29.83	6.04		7.33	.....	5.64	75.28	32.31

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
31	3,536	257	120	34	8	[2] 1	3,690	163	91	39	3	[2] 1	1
.....	4,102	1,139	3,594	7,058	6,971	1,784	5,004	984	3,195	8,791	5,883	791	2
.....	64,868	41,432	78,799	122,342	195,055	112,517	114,646	29,973	67,222	142,372	204,277	56,523	3
.....	55,912	34,367	63,602	112,424	159,208	94,911	92,960	25,525	56,862	132,922	167,185	44,970	4
.....	615	378	1,965	485	2,670	.....	1,219	819	1,594	811	968	702	5
.....	8,341	6,687	13,232	9,433	33,177	17,606	20,467	3,629	8,766	8,639	36,124	10,851	6
13,272	3,312,452	1,260,636	5,821,222	12,274,930	22,162,112	5,037,000	2,695,866	1,302,433	3,320,930	19,165,588	11,364,240	12,032,567	7
13,107	3,255,459	1,244,842	5,726,051	12,098,180	21,774,765	5,037,000	2,635,026	1,278,320	3,264,027	18,712,571	11,226,893	12,032,567	8
165	56,993	15,794	95,171	176,750	387,347	.....	60,840	24,113	56,903	453,017	137,347	.....	9
454	83,497	51,449	93,595	135,044	235,488	132,000	137,488	34,278	78,782	162,910	247,883	70,186	10
.....	51.06	30.43	71.59	100.33	113.62	44.77	23.25	43.45	49.40	133.48	55.63	212.88	11
29.23	39.67	24.50	60.55	90.90	94.11	38.16	19.42	38.00	42.15	116.75	45.85	171.44	12
30	3,310	245	115	33	8	[2] 1	3,456	157	87	38	3	[2] 1	13
.....	60,950	39,568	75,982	118,342	195,055	112,517	107,597	29,550	66,095	138,372	204,277	56,523	14
900	367,739	137,872	214,235	409,474	401,150	142,622	343,637	117,907	203,970	543,727	360,452	104,299	15
.....	6.03	3.48	2.73	3.46	2.06	1.27	3.16	3.99	3.09	3.90	1.76	1.85	16
.....	14,658	67,585	291,007	543,106	484,326	141,771	29,538	31,290	238,379	724,920	425,731	92,595	17
.....	7.66	6.53	4.24	4.59	2.48	1.26	0.92	1.62	3.82	5.86	2.00	1.64	18
.....	1,993	11,902	84,662	128,936	233,084	112,517	34,968	20,762	67,399	143,343	238,540	68,082	19
.....	7.35	5.68	3.44	4.21	2.08	1.26	0.84	1.51	3.54	5.06	1.78	1.36	20
.....	9,543	52,656	245,034	483,757	271,495	.....	19,278	28,577	200,464	667,370	50,076	96,720	21
.....	4	16	36	27	8	[2] 1	3	10	41	33	4	[2] 1	22
.....	220	3,215	29,245	99,587	195,055	112,517	159	6,506	46,157	117,724	212,770	56,523	23
.....	9,341	111,329	1,087,524	3,735,896	13,205,586	3,615,000	6,806	30,859	762,138	5,017,985	5,512,591	10,434,297	24
.....	42.46	34.63	37.19	37.51	67.70	32.13	42.81	4.74	16.51	42.62	25.91	184.60	25
.....	29,919	380,268	4,627,416	11,054,758	21,774,765	5,037,000	12,279	111,821	1,909,417	15,880,708	12,957,334	12,032,567	26
.....	100	3,126	65,247	176,750	387,347	.....	100	6,500	35,606	453,017	137,347	.....	27
.....	30,019	383,394	4,692,663	11,231,508	22,162,112	5,037,000	12,379	118,321	1,945,023	16,333,725	13,094,681	12,032,567	28
.....	3,758	34,060	160,491	334,511	401,150	142,622	2,518	8,895	134,294	438,952	387,634	104,299	29
.....	4,328	49,661	238,972	463,732	484,326	141,771	3,367	12,457	202,251	646,389	425,731	92,595	30
.....	3,517	39,532	201,273	412,925	271,495	.....	2,657	13,344	172,785	593,160	50,076	96,720	31
.....	272	3,906	40,834	109,541	233,084	112,517	166	7,026	50,442	135,898	238,540	68,082	32
.....	34.34	28.50	26.63	34.11	56.66	32.13	41.00	4.39	15.11	36.92	23.11	153.26	33
.....	15.91	12.71	5.85	4.23	2.08	1.26	20.28	1.77	4.01	4.76	1.78	1.36	34
.....	19.67	15.45	8.17	4.66	2.48	1.26	21.18	1.91	4.38	5.49	2.00	1.64	35
.....	.....	3	3	6	4	.....	.....	.....	5	8	[2] 2	[2] 1	36
.....	.....	591	3,873	22,867	192,240	.....	.....	.....	9,224	26,382	115,883	68,082	37
.....	.....	6,828	14,933	60,649	515,988	.....	.....	.....	8,628	74,582	374,476	140,712	38
.....	.....	11.55	3.86	2.65	2.68	.....	.....	.....	0.94	2.83	3.23	2.07	39
.....	.....	30,016	360,645	861,278	12,199,088	.....	.....	.....	72,206	1,186,933	1,757,591	10,434,297	40
31	3,489	203	23	.....	.....	.....	3,598	120	28	.....	.....	.....	41
.....	36	39	64	10	.....	.....	76	36	28	9	.....	.....	42
.....	4	13	28	15	4	.....	9	5	29	21	.....	.....	43
.....	.....	.....	2	2	.....	.....	1	.....	2	1	.....	.....	44
.....	1	.....	2	5	3	.....	.....	.....	1	7	2	1	45
.....	.....	1	.....	2	.....	1	1	.....	1	1	1	.....	46
.....	6	1	1	.....	1	.....	5	2	2	.....	.....	.....	47
.....	21	46	89	33	8	[2] 1	64	33	60	36	4	[2] 1	48
.....	2,406	14,175	88,006	228,152	292,185	157,000	9,474	14,110	66,801	279,049	347,060	65,430	49
.....	16	56	310	258	183	113	43	51	164	411	221	46	50
6	1,091	162	95	21	7	.....	1,264	49	46	21	2	.....	51
7	829	34	10	5	.....	.....	811	50	16	8	.....	.....	52
12	795	21	2	1	.....	.....	794	27	8	2	.....	.....	53
.....	21	6	1	.....	.....	.....	23	3	2	.....	.....	.....	54
.....	114	5	3	.....	.....	.....	109	7	6	.....	.....	.....	55
5	439	14	3	.....	.....	.....	446	10	5	.....	.....	.....	56
.....	58	9	4	4	1	1	56	9	5	5	1	1	57
1	189	6	2	3	.....	.....	187	8	3	3	.....	.....	58

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
1	90	34	5	[2] 2	.....	[2] 1	126	3	[2] 2	[2] 1	[2] 1	.....	1
.....	93	158	54	415	.....	3,518	251	4	125	340	3,518	.....	2
.....	3,241	5,786	3,547	10,214	.....	161,876	10,066	775	8,333	3,614	161,876	.....	3
35,658		26,219	34,958	339,700	.....	6,097,037	48,944	23,000	87,591	277,000	6,097,037	.....	4
35,260		25,019	34,958	337,000	.....	6,097,037	47,346	23,000	84,891	277,000	6,097,037	.....	5
398		1,200	.....	2,700	.....	.....	1,598	.....	2,700	.....	.....	.....	6
3,470		5,844	10,804	10,214	.....	188,677	10,353	825	15,540	3,614	188,677	.....	7
.....		4.53	9.86	33.26	.....	37.66	4.86	29.68	10.51	76.65	37.66	.....	8
10.28		4.49	3.24	33.26	.....	32.31	4.73	27.88	5.64	76.65	32.31	.....	9

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	125	1	113	7	.....	[2] 2	[2] 2	.....
11	(a) Area irrigated in these enterprises.....acres....	22,296	.....	9,616	613	.....	8,333	3,734	.....
12	(b) Cost of maintenance and operation.....dollars..	11,314	5,939		116	.....	825	4,434	.....
13	(c) Average cost per irrigated acre reporting.....dollars..	0.51	.....	.....	0.19	.....	0.10	1.19	.....
14	Total annual charges[3].....dollars..	3,129	.....	.....	.....	.....	3,129	.....	.....
15	Average charge per irrigated acre reporting.....dollars..	1.81	.....	.....	.....	.....	1.81	.....	.....
16	Area against which charges were assessed.....acres....	8,940	.....	.....	.....	.....	8,940	.....	.....
17	Average annual charge per acre assessed.....dollars..	0.35	.....	.....	.....	.....	0.35	.....	.....
18	Total charges collected[3].....dollars..	25,670	.....	.....	.....	.....	5,353	20,317	.....
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[4].....number...	3	.....	.....	.....	.....	[2] 2	.....	[2] 1
20	(a) Area irrigated in these enterprises.....acres....	170,209	.....	.....	.....	.....	8,333	.....	161,876
21	(b) Indebtedness.....dollars..	856,928	.....	.....	.....	.....	28,050	.....	828,878
22	(c) Average indebtedness per acre irrigated.....dollars..	5.03	.....	.....	.....	.....	3.37	.....	5.12
23	(d) Cost of irrigation works and equipment.....dollars..	6,181,928	.....	.....	.....	.....	84,891	.....	6,097,037
24	(e) Investment in water rights.....dollars..	2,700	.....	.....	.....	.....	2,700	.....	.....
25	(f) Total investment.....dollars..	6,184,628	.....	.....	.....	.....	87,591	.....	6,097,037
26	(g) Maintenance and operation.....dollars..	825	.....	.....	.....	.....	825	.....	.....
27	(h) Total annual charges[3].....dollars..	3,129	.....	.....	.....	.....	3,129	.....	.....
28	(i) Total charges collected[3].....dollars..	5,353	.....	.....	.....	.....	5,353	.....	.....
29	(j) Area against which annual charges were assessed.....acres....	8,940	.....	.....	.....	.....	8,940	.....	.....
30	(k) Average indebtedness per acre assessed.....dollars..	1.96	.....	.....	.....	.....	1.96	.....	.....
31	(l) Average charges per acre assessed.....dollars..	0.35	.....	.....	.....	.....	0.35	.....	.....
32	(m) Average charges per acre irrigated.....dollars..	1.81	.....	.....	.....	.....	1.81	.....	.....
33	Enterprises reporting arrearage[4].....number...	[2] 1	.....	.....	.....	.....	[2] 1	.....	.....
34	(a) Total arrearage.....dollars..	7,000	.....	.....	.....	.....	7,000	.....	.....
35	(b) Indebtedness.....dollars..	10,550	.....	.....	.....	.....	10,550	.....	.....
	TYPE, 1940								
36	Individual and partnership.....number...	128	1	119	8	.....	.....	.....	.....
37	Cooperative (incorporated and unincorporated).....number...	2	.....	.....	.....	.....	1	1	.....
38	Irrigation district.....number...	2	.....	.....	.....	.....	1	1	.....
39	U. S. Bureau of Reclamation.....number...	1	.....	.....	.....	.....	.....	.....	1
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
40	Enterprises reporting pay roll.....number...	3	.....	.....	.....	.....	[2] 2	[2] 1	.....
41	Wages and salaries paid and payable for 1939.....dollars..	2,980	.....	.....	.....	.....	980	2,000	.....
42	Persons employed during week ending April 29, 1939.....number...	1	.....	.....	.....	.....	.....	1	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
43	Streams, pumped.....number...	7	.....	7	.....	.....	.....	.....	.....
44	Wells, pumped or flowing.....number...	31	.....	30	1	.....	.....	.....	.....
45	Streams, gravity or storage.....number...	95	1	82	7	.....	2	2	1

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Approximate elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Columbia River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Colville	Stevens	1,635	13.05	-3.27	5.07	-0.20	4.71	+0.52	2.58	-1.59	0.69	-2.00	47.1	+0.7
Ephrata	Grant	1,275	6.08	-2.22	1.88	-1.04	2.69	+0.30	0.89	-0.93	0.62	-0.55	54.9	+3.0
Goldendale	Klickitat	1,635	18.45	+2.84	9.57	+3.15	6.93	+1.05	1.34	-0.79	0.61	-0.57	51.1	+2.9
Okanogan	Okanogan	910	8.08	-1.45	2.32	-1.39	3.11	+0.61	2.40	+0.51	0.25	-1.18	52.2	+1.9
Prosser	Benton	675	5.47	-1.92	2.06	-0.75	1.98	-0.25	0.40	-1.04	1.03	+0.12	53.9	+2.1
Ritzville	Adams	1,825	6.91	-3.71	2.75	-1.08	2.95	-0.38	0.76	-1.47	0.45	-0.78	51.1	+2.1
Spokane	Spokane	1,879	10.76	-5.86	3.35	-2.10	5.12	-0.01	1.62	-2.21	0.67	-1.54	50.7	+2.5
Walla Walla	Walla Walla	952	12.38	-4.63	4.61	-1.00	5.15	-0.18	1.70	-2.54	0.92	-0.91	56.2	+3.1
Waterville	Douglas	2,676	7.25	-3.28	2.57	-1.20	2.57	-0.72	1.44	-0.53	0.67	-0.83	46.8	+2.0
Yakima	Yakima	1,068	4.83	-3.32	2.13	-0.67	1.71	-0.95	0.65	-1.04	0.34	-0.66	54.3	+3.8
Snake River														
Colfax	Whitman	1,950	14.70	-4.72	6.15	-0.47	5.87	-0.62	1.93	-2.10	0.75	-1.53	50.5	+3.0
Pomeroy	Garfield	1,864	14.07	-3.13	5.22	-0.35	6.69	-0.75	1.55	-2.21	0.61	-1.32	52.0	+1.2
Strait of Juan de Fuca and Georgia Strait														
Bellingham (near)	Whatcom	107	34.69	+0.06	14.88	+1.56	11.78	+1.06	5.84	-0.42	2.19	-2.14	49.8	+1.0
Everett	Snohomish	127	32.17	-3.08	10.41	-2.60	11.16	-0.31	5.90	-0.74	4.70	+0.57	51.4	+1.7
Olympia	Thurston	69	43.68	-7.66	16.62	-4.65	21.05	+1.71	3.84	-3.25	2.17	-1.47	52.0	+1.3
Seattle	King	14	24.70	-9.33	8.77	-4.70	10.39	-1.49	3.01	-2.57	2.53	-0.57	54.1	+3.1
Sequim	Clallam	200	16.11	-0.71	5.25	-1.28	7.15	+2.02	2.91	-0.08	0.80	-1.37	51.4	+3.2
Pacific Slope														
Aberdeen	Grays Harbor	105	77.63	-4.45	31.34	-1.55	32.99	+2.23	8.99	-3.17	4.31	-1.96	50.8	+1.1
Centralia	Lewis	182	36.53	-8.15	14.10	-3.61	15.81	-0.09	4.06	-3.14	2.56	-1.31	53.2	+2.1
South Bend	Pacific	150	74.18	-9.54	28.97	-3.97	32.12	+0.65	9.43	-3.45	3.66	-2.77	52.6	+1.7
Vancouver	Clark	100	28.28	-8.52	10.44	-3.89	11.78	-1.40	3.47	-2.54	2.59	-0.69	54.6	+2.0

[1] Departure from normal.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
1	85	32	5	[2] 2	.....	.....	119	3	[2] 2	[2] 1	.....	.....	10
.....	3,127	5,408	3,547	10,214	.....	.....	9,574	775	8,333	3,614	.....	.....	11
4,037		1,814	230	5,233	.....	.....	5,391	665	825	4,433	.....	.....	12
.....	.....	0.34	0.06	0.51	.....	.....	0.56	0.86	0.10	1.23	.....	.....	13
.....	.....	.....	3,129	.....	.....	.....	.....	.....	3,129	.....	.....	.....	14
.....	.....	.....	1.81	.....	.....	.....	.....	.....	1.81	.....	.....	.....	15
.....	.....	.....	8,940	.....	.....	.....	.....	.....	8,940	.....	.....	.....	16
.....	.....	.....	0.35	.....	.....	.....	.....	.....	0.35	.....	.....	.....	17
.....	.....	.....	2,705	22,965	.....	.....	.....	.....	5,353	20,317	.....	.....	18
.....	.....	.....	[2] 1	[2] 1	.....	[2] 1	.....	.....	[2] 2	.....	[2] 1	.....	19
.....	.....	.....	1,733	6,600	.....	161,876	.....	.....	8,333	.....	161,876	.....	20
.....	.....	.....	17,500	10,550	.....	828,876	.....	.....	28,050	.....	828,878	.....	21
.....	.....	.....	10.10	1.60	.....	5.12	.....	.....	3.37	.....	5.12	.....	22
.....	.....	.....	24,891	60,000	.....	6,097,037	.....	.....	84,891	.....	6,097,037	.....	23
.....	.....	.....	.....	2,700	.....	.....	.....	.....	2,700	.....	.....	.....	24
.....	.....	.....	24,891	62,700	.....	6,097,037	.....	.....	87,591	.....	6,097,037	.....	25
.....	.....	.....	25	800	.....	.....	.....	.....	825	.....	.....	.....	26
.....	.....	.....	3,129	.....	.....	.....	.....	.....	3,129	.....	.....	.....	27
.....	.....	.....	2,705	2,648	.....	.....	.....	.....	5,353	.....	.....	.....	28
.....	.....	.....	8,940	.....	.....	.....	.....	.....	8,940	.....	.....	.....	29
.....	.....	.....	1.96	.....	.....	.....	.....	.....	1.96	.....	.....	.....	30
.....	.....	.....	0.35	.....	.....	.....	.....	.....	0.35	.....	.....	.....	31
.....	.....	.....	1.81	.....	.....	.....	.....	.....	1.81	.....	.....	.....	32
.....	.....	.....	.....	[2] 1	.....	.....	.....	.....	[2] 1	.....	.....	.....	33
.....	.....	.....	.....	7,000	.....	.....	.....	.....	7,000	.....	.....	.....	34
.....	.....	.....	.....	10,550	.....	.....	.....	.....	10,550	.....	.....	.....	35
1	90	33	4	.....	.....	.....	125	3	.....	.....	.....	.....	36
.....	.....	1	.....	1	.....	.....	1	.....	1	.....	.....	.....	37
.....	.....	.....	1	1	.....	.....	.....	.....	1	1	.....	.....	38
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	39
.....	.....	.....	[2] 1	[2] 2	.....	.....	.....	.....	[2] 2	[2] 1	.....	.....	40
.....	.....	.....	180	2,800	.....	.....	.....	.....	980	2,000	.....	.....	41
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	42
.....	7	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....	43
.....	29	2	.....	.....	.....	.....	30	1	.....	.....	.....	.....	44
1	54	32	5	2	.....	1	89	2	2	1	1	.....	45

[3] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

As reported by the U. S. Weather Bureau, the year 1939, for Washington as a whole, was warmer and drier than normal. It was warmer than 1938 but not quite so dry.

Precipitation.—The State average precipitation for the calendar year 1939 was 32.00 inches which is about four-fifths of the normal amount. There was a considerable excess in December and comparatively small excesses in the months of January, February, June, and July. All other months were deficient in precipitation, especially March, April, and November. The average for eastern Washington from April to September, inclusive, was but 2.53 inches. It was fortunate that June averaged 0.85 inch in that section, as, combined with the rain in the latter part of May, it saved the wheat crop. Mansfield and Okanogan were the only stations in the east that had more than their normal annual precipitation, while in western Washington, 82 percent of the stations were deficient in precipitation. The stations in this section that had an excess were northeast of the Olympic Mountains, north of the Chehalis River in Grays Harbor County, and on the west slopes of the northern Cascade Range.

With a total of 145.58 inches, Wynochee Oxbow had the most precipitation for the year (with the first 14 days of April interpolated). Yakima had the least precipitation for the year, 4.21 inches. Cushman Dam had the greatest monthly amount, 35.29 inches in December.

State table 18 shows precipitation in the State of Washington for the water year (October 1938 through September 1939) at 21 Weather Bureau stations located in typical irrigated areas in the major drainage basins. The average rainfall at 12 of these stations in the eastern half of the State, all of which lies east of the Cascade Range and in the Columbia River Drainage Basin, was 10.19 inches, a departure of -2.89 inches from the normal. Similarly, the average rainfall for 5 stations in that portion of the State draining into Puget Sound, Strait of Juan de Fuca, and Georgia Strait was 30.27 inches, a departure of -4.14 inches, and for 4 stations representing the Pacific Slope, 54.15 inches, a departure of -7.66 inches from the water year normal for these stations.

The snowfall for the year was less than normal. The greatest annual snowfall occurred at Mt. Baker Lodge with 435.0 inches.

Temperature.—The only stations in the State whose average temperature was below normal were Kosmos and Longview, where the deficiency was but 0.1°. The maximum for the State of 115° in July has been exceeded but twice since 1890 and has been equalled four additional times. February and June were the only months in which the State average temperature was below normal, while January and December were decidedly warmer than normal. Although the highest temperature for any day occurred in July, August averaged the warmest month of the year; and February averaged the coldest and had the lowest single temperature, 27° below zero. Normally January is the coldest month.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER			
			Total	Direct (1)	Clark Fork Total	Clark Fork Direct (2)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	24,648	22,866	1,626	81	81
2	Area irrigated....1939...acres....	615,013	592,527	26,166	1,642	1,642
3	(a) Cropland harvested....1939...acres....	520,424	507,089	24,316	1,220	1,220
4	(b) Crop failure....1939...acres....	6,113	6,109	233	5	5
5	(c) Pasture....1939...acres....	88,476	79,329	1,617	417	417
6	Area irrigated....1929...acres....	498,283	481,019	10,035	896	.....
7	1919...acres....	529,899	521,462	24,471	306	.....
8	Increase or decrease (-), 1929-1939....percent....	23.2	23.2	160.7	83.3	.....
9	Irrigable area in enterprises....1940...acres....	837,096	792,166	36,768	3,614	3,614
10	1930...acres....	915,379	882,074	22,546	3,334	.....
11	1920[2]...acres....	836,795	816,266	49,209	1,431	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	222,083	199,639	10,602	1,972	1,972
13	1930...acres....	416,096	401,055	12,511	2,438	.....
14	1920[2]...acres....	306,896	294,804	24,738	1,125	.....
15	Area works were capable of supplying with water...1940...acres....	731,527	690,595	31,281	2,600	2,600
16	1930...acres....	631,511	601,824	13,678	2,705	.....
17	1920...acres....	637,151	621,458	32,492	1,064	.....
18	Increase or decrease (-), 1930-1940....percent....	15.8	14.8	128.7	-3.9	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	116,514	98,068	5,115	958	958
20	1930...acres....	132,228	120,605	3,643	1,809	.....
21	1920...acres....	107,252	99,996	8,021	758	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	84.1	85.8	83.6	63.2	63.2
23	1929...percent....	79.1	79.9	73.4	33.1	.....
24	1919...percent....	83.2	83.9	75.3	28.8	.....
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	56,415,196	55,371,733	3,556,136	67,725	67,725
26	(a) Cost of irrigation works and equipment....1940...dollars....	55,678,678	54,640,628	3,484,531	66,970	66,970
27	(b) Investment in water rights (reported)....1940...dollars....	736,518	731,105	71,605	755	755
28	Total investment in irrigation enterprises....1930...dollars....	40,561,895	39,351,909	1,377,002	50,956	.....
29	1920...dollars....	29,299,011	28,990,618	2,229,066	7,293	.....
30	Increase or decrease (-), 1930-1940....percent....	39.1	40.7	158.3	32.9	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	77.12	80.18	113.68	26.05	26.05
32	1930...dollars....	64.23	65.39	100.67	18.84	.....
33	1920...dollars....	45.98	46.65	68.60	6.85	.....
34	Average investment per acre irrigated....1939...dollars....	91.73	93.45	135.91	41.25	41.25
35	Estimated final investment in existing enterprises..1940...dollars....	58,141,097	56,891,620	3,641,732	68,650	68,650
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	69.46	71.82	99.05	19.00	19.00
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Supplemental Enterprises	Primary Enterprises / Supplemental Enterprises			
37	Enterprises reporting maintenance and operation...1939...number....	3,742 / 125	3,015 / 124	780	45	45
38	Area irrigated in these enterprises....1939...acres....	602,414 / 22,296	580,083 / 22,261	24,500	1,274	1,274
39	Cost of maintenance and operation....1939...dollars....	1,673,992 / 11,314	1,597,619 / 11,289	242,708	1,173	1,173
40	Average cost, per acre irrigated....1939...dollars....	2.78 / 0.51	2.75 / 0.51	9.91	0.92	0.92
41	Total annual charges (reported)[3] [4]....1939...dollars....	1,542,453 / 3,129	1,474,678 / 3,129	101,805	79	79
42	Average annual charge per acre irrigated....1939...dollars....	3.04 / 1.81	3.00 / 1.81	12.44	0.46	0.46
43	Area against which charges were assessed....1939...acres....	573,094 / 8,940	548,066 / 8,940	10,883	790	790
44	Average annual charge per acre assessed....1939...dollars....	2.69 / 0.35	2.69 / 0.35	9.35	0.10	0.10
45	Total charges collected[3]....1939...dollars....	1,062,485 / 25,670	1,010,728 / 25,670	90,095	.....	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	21,764,676 / 856,928	21,529,336 / 856,928	320,953	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number....	3,847 / 130	3,151 / 129	816	56	56
48	Area irrigated by these enterprises....1939...acres....	590,627 / 184,534	571,261 / 184,499	25,617	1,642	1,642
49	Water delivered....1939...acre-feet..	2,548,581 / 704,152	2,500,619 / 704,142	110,206	3,006	3,006
50	Average water delivered per acre irrigated....1939...acre-feet..	4.3 / 3.8	4.4 / 3.8	4.3	1.8	1.8
51	Average cost of water per acre irrigated....1939...dollars....	3.35 / 0.75	3.28 / 0.75	10.46	0.97	0.97
52	Average cost of water per acre-foot delivered..1939...dollars....	0.78 / 0.20	0.75 / 0.20	2.43	0.53	0.53
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number....	208 /	61 /	15	2	2
54	Irrigable area in these enterprises....1939...acres....	448,702 /	442,694 /	601	(5)	(5)
55	Irrigated area in these enterprises....1939...acres....	300,362 /	296,021 /	404	(5)	(5)
56	Area for which drains have been installed....1939...acres....	178,212 /	177,194 /	465	(5)	(5)
57	Additional area needing drainage....1939...acres....	18,673 /	18,395 /	60	(5)	(5)

[1] Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State totals.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

COLUMBIA RIVER—Continued

Kettle River (4)	Colville River (5)	Spokane River: Total	Spokane River: Direct (6)	Spokane River: Latah Creek (7)	Sanpoil River (8)	Okanogan River (9)	Methow River (10)	Lake Chelan (11)	Entiat River (12)	
43	103	1,838	1,826	12	10	979	512	322	187	1
878	3,629	16,924	16,553	371	226	18,765	12,875	5,837	2,561	2
876	3,230	16,114	15,908	206	221	18,150	11,077	5,647	2,499	3
.....	6	285	285	.....	.....	122	55	40	60	4
2	393	525	360	165	5	493	1,743	150	2	5
.....	2,176	18,422	.....	.....	.....	21,462	11,720	.....	1,912	6
.....	6,960	16,453	.....	.....	.....	20,583	12,579	.....	2,054	7
.....	66.8	-8.1	.....	.....	.....	-12.6	9.9	.....	33.9	8
2,066	4,492	19,771	19,400	371	231	26,255	17,043	6,491	2,939	9
.....	3,622	38,220	.....	.....	.....	29,000	19,674	.....	2,154	10
.....	18,200	40,391	.....	.....	.....	42,042	24,017	.....	2,652	11
1,188	863	2,847	2,847	.....	5	7,490	4,168	654	378	12
.....	1,446	19,798	.....	.....	.....	7,538	7,954	.....	242	13
.....	11,240	23,938	.....	.....	.....	21,459	11,438	.....	598	14
1,167	4,288	19,595	19,224	371	226	23,818	15,166	6,348	2,925	15
.....	2,447	30,482	.....	.....	.....	27,790	17,346	.....	2,135	16
.....	13,993	21,675	.....	.....	.....	30,261	16,529	.....	2,251	17
.....	75.2	-35.7	.....	.....	.....	-14.3	-12.6	.....	37.0	18
289	659	2,671	2,671	.....	.....	5,053	2,291	511	364	19
.....	271	12,060	.....	.....	.....	6,328	5,626	.....	223	20
.....	7,033	5,222	.....	.....	.....	9,678	3,950	.....	197	21
75.2	84.6	86.4	86.1	100.0	100.0	78.8	84.9	92.0	87.6	22
.....	88.9	60.4	.....	.....	.....	77.2	67.6	.....	89.6	23
.....	49.7	75.9	.....	.....	.....	68.0	76.1	.....	91.2	24
11,680	39,202	2,387,514	2,378,374	9,140	1,055	3,601,840	681,331	866,494	163,675	25
11,275	37,775	2,375,776	2,366,636	9,140	855	3,577,846	674,473	865,736	163,050	26
405	1,427	11,738	11,738	.....	200	23,994	6,858	758	625	27
.....	355,290	1,352,395	.....	.....	.....	3,233,799	770,183	.....	184,992	28
.....	486,747	1,637,743	.....	.....	.....	2,259,018	483,809	.....	73,889	29
.....	-89.0	76.5	.....	.....	.....	11.4	-11.5	.....	-11.5	30
10.01	9.14	121.84	123.72	24.64	4.67	151.22	44.92	136.50	55.96	31
.....	145.19	44.37	.....	.....	.....	116.37	44.40	.....	86.65	32
.....	34.79	75.56	.....	.....	.....	74.65	29.27	.....	32.82	33
13.30	10.80	141.07	143.68	24.64	4.67	191.94	52.92	148.45	63.91	34
12,680	41,102	2,488,110	2,478,470	9,640	1,055	3,870,947	698,951	873,455	163,725	35
6.14	9.15	125.85	127.76	25.98	4.57	147.44	41.01	134.56	55.71	36
						Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	
38	80	90	79	11	10	235	4	134	3	93	32	37
846	3,144	16,620	16,259	361	226	18,314	178	12,709	30	5,762	2,424	38
1,236	2,461	121,617	120,437	1,180	168	97,928	253	22,544	676	74,128	6,718	39
1.46	0.78	7.32	7.41	3.27	0.74	5.35	1.42	1.77	22.53	12.86	2.77	40
.....	151	147,323	147,323	.....	.....	82,720	.....	24,015	.....	67,634	9,531	41
.....	0.20	9.57	9.57	.....	.....	6.53	.....	2.94	.....	18.33	4.82	42
.....	755	16,830	16,830	.....	.....	15,656	.....	8,501	.....	3,727	2,179	43
.....	0.20	8.75	8.75	.....	.....	5.28	.....	2.82	.....	18.15	4.37	44
.....	150	142,640	142,640	.....	.....	90,799	.....	23,405	.....	61,606	3,862	45
.....	.....	681,066	681,066	.....	.....	675,576	.....	137,940	.....	413,669	22,900	46
40	96	97	85	12	10	247	3	137	3	95	33	47
878	3,578	16,924	16,553	371	226	18,761	58	9,900	30	5,837	1,695	48
2,627	6,936	77,634	76,680	954	904	103,125	129	50,200	124	17,028	8,372	49
3.0	1.9	4.6	4.6	2.6	4.0	5.5	2.2	5.1	4.1	2.9	4.9	50
1.46	0.76	9.34	9.48	3.27	0.74	6.86	1.08	2.33	22.53	16.21	3.69	51
0.49	0.39	2.04	2.05	1.27	0.74	1.25	0.49	0.46	22.53	5.56	0.75	52
.....	5	1	1	.....	2	4	.....	.....	.....	.....	3	53
.....	425	(6)	(6)	.....	(6)	2,496	.....	.....	.....	.....	134	54
.....	296	(6)	(6)	.....	(6)	1,694	.....	.....	.....	.....	126	55
.....	.....	(6)	(6)	.....	.....	22	.....	.....	.....	.....	20	56
.....	92	(6)	(6)	.....	(6)	217	.....	.....	.....	.....	.....	57

[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued					
		Wenatchee River (13)		Crab Creek (14)		Yakima River Total	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	1,829		149		13,629	
2	Area irrigated....1939...acres....	22,091		6,007		433,191	
3	(a) Cropland harvested....1939...acres....	21,934		5,074		362,613	
4	(b) Crop failure....1939...acres....	34		39		4,389	
5	(c) Pasture....1939...acres....	123		894		66,189	
6	Area irrigated....1929...acres....	24,606		1,761		325,299	
7	1919...acres....	23,734		6,088		337,293	
8	Increase or decrease (-), 1929-1939....percent....	-10.2		241.1		33.2	
9	Irrigable area in enterprises....1940...acres....	27,781		8,043		587,001	
10	1930...acres....	27,548		1,983		636,343	
11	1920[1]...acres....	39,288		10,400		436,797	
12	Excess of irrigable area over the area irrigated..1940...acres....	5,690		2,036		153,810	
13	1930...acres....	2,942		222		311,044	
14	1920[1]...acres....	15,554		4,312		99,504	
15	Area works were capable of supplying with water...1940...acres....	24,474		7,628		503,375	
16	1930...acres....	25,717		1,885		399,726	
17	1920...acres....	34,568		8,048		353,644	
18	Increase or decrease (-), 1930-1940....percent....	-4.8		304.7		25.9	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	2,383		1,621		70,184	
20	1930...acres....	1,111		124		74,427	
21	1920...acres....	10,834		1,960		16,351	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	90.3		78.7		86.1	
23	1929...percent....	95.7		93.4		81.4	
24	1919...percent....	68.7		75.6		95.4	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	2,954,690		250,287		39,033,395	
26	(a) Cost of irrigation works and equipment....1940...dollars....	2,844,168		240,092		38,605,392	
27	(b) Investment in water rights (reported)....1940...dollars....	110,522		10,195		428,003	
28	Total investment in irrigation enterprises....1930...dollars....	2,922,367		55,950		25,282,348	
29	1920...dollars....	1,868,341		859,050		14,849,689	
30	Increase or decrease (-), 1930-1940....percent....	1.1		347.3		54.4	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	120.73		32.81		77.54	
32	1930...dollars....	113.64		29.68		63.25	
33	1920...dollars....	54.05		106.74		41.99	
34	Average investment per acre irrigated....1939...dollars....	133.75		41.67		90.11	
35	Estimated final investment in existing enterprises..1940...dollars....	2,959,227		253,948		40,030,657	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	106.52		31.57		68.20	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	237	4	128	1	621	105
38	Area irrigated in these enterprises....1939...acres....	21,830	3,632	5,780	[2]	426,121	9,887
39	Cost of maintenance and operation....1939...dollars....	113,057	4,561	32,006	[2]	786,672	4,728
40	Average cost, per acre irrigated....1939...dollars....	5.18	1.26	5.54	[2]	1.85	0.48
41	Total annual charges (reported)[3] [4]....1939...dollars....	119,083	.....	.....	3,129	848,085	.....
42	Average annual charge per acre irrigated....1939...dollars....	6.73	.....	.....	1.81	2.14	.....
43	Area against which charges were assessed....1939...acres....	19,914	.....	.....	8,940	439,466	.....
44	Average annual charge per acre assessed....1939...dollars....	5.98	.....	.....	0.35	1.93	.....
45	Total charges collected[3]....1939...dollars....	102,351	20,317	.....	2,705	428,989	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	467,011	.....	.....	17,500	18,734,915	828,878
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	247	4	131	1	629	108
48	Area irrigated by these enterprises....1939...acres....	20,837	3,632	5,738	[2]	419,442	172,040
49	Water delivered....1939...acre-feet..	80,266	10,836	28,347	[2]	1,884,813	675,275
50	Average water delivered per acre irrigated....1939...acre-feet..	3.9	3.0	4.9	[2]	4.5	3.9
51	Average cost of water per acre irrigated....1939...dollars....	7.47	7.11	5.66	[2]	2.15	0.48
52	Average cost of water per acre-foot delivered..1939...dollars....	1.94	2.42	1.15	[2]	0.48	0.12
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	1	.....	.....	.....	23	.....
54	Irrigable area in these enterprises....1939...acres....	[2]	.....	.....	.....	438,032	.....
55	Irrigated area in these enterprises....1939...acres....	[2]	.....	.....	.....	292,634	.....
56	Area for which drains have been installed....1939...acres....	[2]	.....	.....	.....	176,549	.....
57	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	17,922	.....

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[2] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER—Continued													
Yakima River—Continued					Snake River								
Direct (15)	Naches River (16)		Ahtanum Creek (17)		Total	Direct (18)	Grande Ronde River (19)	Asotin Creek (20)	Palouse River (21)	Walla Walla River (22)			
9,246	3,976		407		480	133	9	316	22	825			1
364,134	56,300		12,757		7,448	2,757	121	3,530	1,040	21,831			2
303,314	51,302		7,997		7,055	2,631	121	3,430	873	17,416			3
3,369	20		1,000		55	33	.....	.....	22	536			4
57,451	4,978		3,760		338	93	.....	100	145	3,879			5
257,220	29,956		8,172		8,715	1,640	.....	3,513	980	18,508			6
254,262	19,864		9,287		11,788	4,047	.....	3,051	1,735	22,270			7
41.6	87.9		56.1		-14.5	68.1	.....	0.5	6.1	18.0			8
500,381	71,957		14,663		8,789	3,596	125	3,875	1,193	26,421			9
507,193	30,514		8,996		10,375	1,719	.....	4,341	1,320	21,729			10
345,373	21,656		9,982		36,295	24,233	.....	4,051	3,645	36,157			11
136,247	15,657		1,906		1,341	839	4	345	153	4,590			12
249,973	558		824		1,660	79	.....	828	340	3,221			13
91,111	1,792		695		24,507	20,186	.....	1,000	1,910	13,887			14
426,851	61,861		14,663		8,618	3,425	125	3,875	1,193	25,243			15
317,165	30,386		8,936		9,894	1,659	.....	4,341	1,150	20,000			16
269,163	20,284		9,342		30,269	20,130	.....	4,051	2,020	29,965			17
34.6	103.6		64.1		-12.9	106.4	.....	-10.7	3.7	26.2			18
62,717	5,561		1,906		1,170	668	4	345	153	3,412			19
59,945	430		764		1,179	19	.....	828	170	1,492			20
14,901	420		55		18,481	16,083	.....	1,000	285	7,695			21
85.3	91.0		87.0		86.4	80.5	96.8	91.1	87.2	86.5			22
81.1	98.6		91.5		88.1	98.9	.....	80.9	85.2	92.5			23
94.5	97.9		99.4		38.9	20.1	.....	75.3	85.9	74.3			24
32,502,040	6,386,795		144,560		908,893	139,957	1,475	722,589	44,872	609,276			25
32,376,491	6,084,341		144,560		900,163	139,777	1,475	714,089	44,822	558,381			26
125,549	302,454		.....		8,730	180	.....	8,500	50	50,895			27
22,644,214	1,746,759		103,747		493,192	74,361	.....	250,331	42,595	551,351			28
13,912,727	458,027		88,443		1,398,296	471,772	.....	606,084	175,100	890,980			29
43.5	265.6		39.3		84.3	88.2	.....	188.7	5.3	10.5			30
76.14	103.24		9.86		105.46	40.86	11.80	186.47	37.61	24.14			31
71.40	57.49		11.61		49.85	44.82	.....	57.67	37.04	27.57			32
51.69	22.58		9.47		46.20	23.44	.....	149.61	86.68	29.73			33
89.26	113.44		11.33		122.03	50.76	12.19	204.70	43.15	27.91			34
33,497,467	6,388,530		144,660		917,116	147,762	1,483	722,589	45,282	612,758			35
66.94	88.78		9.87		104.35	41.09	11.86	186.47	37.96	23.19			36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.						Primary Enterprises	Sup.	
501	90	99	5	21	10	143	100	8	13	22	274	5	37
357,322	9,340	56,278	121	12,521	426	7,261	2,573	118	3,530	1,040	20,959	101	38
641,253	3,929	138,375	135	7,044	664	63,264	15,270	1,020	44,018	2,956	26,989	236	39
1.79	0.42	2.46	1.12	0.56	1.56	8.71	5.93	8.64	12.47	2.84	1.29	2.34	40
673,004	.....	166,561	.....	8,520	.....	46,456	2,000	.....	44,456	.....	22,278	.....	41
2.04	.....	3.15	.....	0.72	.....	12.99	8.00	.....	13.36	.....	1.70	.....	42
368,048	.....	58,846	.....	12,572	.....	3,897	250	.....	3,647	.....	13,643	.....	43
1.83	.....	2.83	.....	0.68	.....	11.92	8.00	.....	12.19	.....	1.63	.....	44
327,958	.....	92,257	.....	8,774	.....	41,980	2,080	.....	39,900	.....	22,158	.....	45
17,464,152	828,878	1,187,732	.....	83,031	.....	.....	.....	.....	.....	.....	68,306	.....	46
509	93	97	5	23	10	153	109	9	13	22	286	7	47
352,535	171,493	54,150	121	12,757	426	7,420	2,729	121	3,530	1,040	20,845	126	48
1,635,310	673,653	224,102	325	25,401	1,297	23,766	10,815	443	9,398	3,110	82,072	297	49
4.6	3.9	4.1	2.7	2.0	3.0	3.2	4.0	3.7	2.7	3.0	3.9	2.4	50
2.06	0.42	3.04	1.12	0.76	1.56	8.89	5.93	8.64	12.83	2.84	1.62	2.34	51
0.44	0.11	0.74	1.12	0.38	1.56	2.78	1.50	2.36	12.83	2.84	0.41	0.99	52
16	.....	5	.....	2	.....	2	1	.....	.....	1	2	.....	53
387,372	.....	42,032	.....	(2)	.....	(2)	(2)	.....	.....	(2)	(2)	.....	54
257,975	.....	27,041	.....	(2)	.....	(2)	(2)	.....	.....	(2)	(2)	.....	55
173,476	.....	3,025	.....	(2)	.....	(2)	(2)	.....	.....	(2)	(2)	.....	56
16,872	.....	50	.....	(2)	.....	.....	.....	.....	.....	.....	(2)	.....	57

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER—Continued			
		Klickitat River (23)	White Salmon River (24)	Lewis River (25)	Cowlitz River (26)
	IRRIGATED FARMS AND AREAS				
1	Irrigated farms....1939...number	98	110	24	21
2	Area irrigated....1939...acres	7,251	4,717	269	219
3	(a) Cropland harvested....1939...acres	5,986	3,247	264	150
4	(b) Crop failure....1939...acres	200	50	.....	.....
5	(c) Pasture....1939...acres	1,065	1,420	5	69
6	Area irrigated....1929...acres	6,797	4,034	.....	.....
7	1919...acres	12,332	6,247	.....	.....
8	Increase or decrease (-), 1929-1939....percent	6.7	16.9	.....	.....
9	Irrigable area in enterprises....1940...acres	7,702	5,482	768	509
10	1930...acres	7,538	5,609	.....	.....
11	1920[1]..acres	19,241	11,958	.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres	451	765	499	290
13	1930...acres	741	1,575	.....	.....
14	1920[1]..acres	6,909	5,711	.....	.....
15	Area works were capable of supplying with water...1940...acres	7,702	5,375	372	394
16	1930...acres	7,004	4,697	.....	.....
17	1920...acres	13,440	7,277	.....	.....
18	Increase or decrease (-), 1930-1940....percent	10.0	14.4	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	451	658	103	175
20	1930...acres	207	663	.....	.....
21	1920...acres	1,108	1,030	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	94.1	87.8	72.3	55.6
23	1929...percent	97.0	85.9	.....	.....
24	1919...percent	91.8	85.8	.....	.....
	CAPITAL INVESTED TO JANUARY 1				
25	Total investment in irrigation enterprises....1940...dollars	79,743	137,700	9,835	11,262
26	(a) Cost of irrigation works and equipment....1940...dollars	76,855	136,390	9,705	11,195
27	(b) Investment in water rights (reported)....1940...dollars	2,888	1,310	130	67
28	Total investment in irrigation enterprises....1930...dollars	6,125	111,862	.....	.....
29	1920...dollars	64,423	91,786	.....	.....
30	Increase or decrease (-), 1930-1940....percent	(2)	23.1	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars	10.35	25.62	26.44	28.58
32	1930...dollars	0.87	23.82	.....	.....
33	1920...dollars	4.79	12.61	.....	.....
34	Average investment per acre irrigated....1939...dollars	11.00	29.19	36.56	51.42
35	Estimated final investment in existing enterprises..1940...dollars	84,268	147,850	10,902	14,487
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars	10.94	26.97	14.20	28.46
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup.	Primary Enterprises / Sup.		
37	Enterprises reporting maintenance and operation...1939...number	15 / 1	20 / 1	22	18
38	Area irrigated in these enterprises....1939...acres	7,241 / (3)	4,616 / (3)	245	211
39	Cost of maintenance and operation....1939...dollars	753 / (3)	2,895 / (3)	735	567
40	Average cost, per acre irrigated....1939...dollars	0.10 / (3)	0.63 / (3)	3.00	2.69
41	Total annual charges (reported)[4] [5] ....1939...dollars	3,023 /	2,495 /	.....	.....
42	Average annual charge per acre irrigated....1939...dollars	0.43 /	0.58 /	.....	.....
43	Area against which charges were assessed....1939...acres	6,973 /	4,852 /	.....	.....
44	Average annual charge per acre assessed....1939...dollars	0.43 /	0.51 /	.....	.....
45	Total charges collected[4]....1939...dollars	320 / 2,648	2,373 /	.....	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars	..... / 10,550	7,000 /	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939				
47	Enterprises reporting water delivered....1939...number	13 / 1	24 / 2	23	18
48	Area irrigated by these enterprises....1939...acres	7,219 / (3)	4,217 / (3)	268	217
49	Water delivered....1939...acre-feet	7,405 / (3)	13,604 / (3)	170	138
50	Average water delivered per acre irrigated....1939...acre-feet	1.0 / (3)	3.2 / (3)	0.6	0.6
51	Average cost of water per acre irrigated....1939...dollars	0.47 /	0.59 / (3)	2.99	2.69
52	Average cost of water per acre-foot delivered..1939...dollars	0.46 /	0.18 / (3)	4.71	4.23
	DRAINAGE OF IRRIGATED LAND				
53	Enterprises reporting land drained or needing drainage....1939...number	..... /	1 /	.....	.....
54	Irrigable area in these enterprises....1939...acres	..... /	(3) /	.....	.....
55	Irrigated area in these enterprises....1939...acres	..... /	(3) /	.....	.....
56	Area for which drains have been installed....1939...acres	..... /	(3) /	.....	.....
57	Additional area needing drainage....1939...acres	..... /	(3) /	.....	.....

[*] Data for 4 enterprises (40 acres irrigated) in drainage basin (35), Sumas River, Washington (tributary of the Fraser River, Canada), are included in drainage basin (34), Nooksack River Area.

[1] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

[2] Percent not shown when more than 1,000.

CENSUS OF IRRIGATION – WASHINGTON

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

STRAIT OF JUAN DE FUCA										GEORGIA STRAIT	PACIFIC SLOPE			
Total		Puget Sound						Skagit and Samish Rivers	Dungeness River	Nooksack River Area[4]	Total	Chehalis River	Other Pacific Slope Streams	
		Total	Direct	Nisqually River	White and Puyallup Rivers	Lake Washington	Snohomish River							
			(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)		(36)	(37)	
1,548		1,072	179	451	376	56	10	9	467	39	195	159	36	1
20,248		9,236	1,000	3,899	3,634	590	113	143	10,869	528	1,710	1,381	329	2
12,017		6,354	766	2,447	2,575	481	85	90	5,573	463	855	596	259	3
4		4	3	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	4
8,227		2,878	231	1,452	1,058	109	28	53	5,296	65	855	785	70	5
8,960		.....	.....	.....	.....	.....	.....	.....	8,960	.....	.....	.....	.....	6
6,160		.....	.....	.....	.....	.....	.....	.....	6,160	.....	.....	.....	.....	7
126.0		.....	.....	.....	.....	.....	.....	.....	21.3	.....	.....	.....	.....	8
40,942		19,629	6,185	5,808	6,543	905	188	269	21,044	1,140	2,848	2,417	431	9
20,142		.....	.....	.....	.....	.....	.....	.....	20,142	.....	.....	.....	.....	10
12,660		.....	.....	.....	.....	.....	.....	.....	12,660	.....	.....	.....	.....	11
20,694		10,393	5,185	1,909	2,909	315	75	126	10,175	612	1,138	1,036	102	12
11,182		.....	.....	.....	.....	.....	.....	.....	11,182	.....	.....	.....	.....	13
6,500		.....	.....	.....	.....	.....	.....	.....	6,500	.....	.....	.....	.....	14
37,367		17,654	5,850	5,808	4,972	886	138	269	19,444	1,024	2,541	2,120	421	15
17,607		.....	.....	.....	.....	.....	.....	.....	17,607	.....	.....	.....	.....	16
9,860		.....	.....	.....	.....	.....	.....	.....	9,860	.....	.....	.....	.....	17
112.2		.....	.....	.....	.....	.....	.....	.....	10.4	.....	.....	.....	.....	18
17,119		8,418	4,850	1,909	1,338	296	25	126	8,575	496	831	739	92	19
8,647		.....	.....	.....	.....	.....	.....	.....	8,647	.....	.....	.....	.....	20
3,700		.....	.....	.....	.....	.....	.....	.....	3,700	.....	.....	.....	.....	21
54.2		52.3	17.1	67.1	73.1	66.6	81.9	53.2	55.9	.....	.....	.....	.....	22
50.9		.....	.....	.....	.....	.....	.....	.....	50.9	.....	.....	.....	.....	23
62.5		.....	.....	.....	.....	.....	.....	.....	62.5	.....	.....	.....	.....	24
934,501		628,122	125,029	265,142	190,215	41,792	5,944	6,805	299,574	27,116	81,846	65,585	16,261	25
929,711		625,472	123,107	265,142	189,710	41,598	5,915	6,780	297,459	26,970	81,369	65,134	16,235	26
4,790		2,650	1,922	.....	505	194	29	25	2,115	146	477	451	26	27
296,126		.....	.....	.....	.....	.....	.....	.....	296,126	.....	.....	.....	.....	28
94,010		.....	.....	.....	.....	.....	.....	.....	94,010	.....	.....	.....	.....	29
215.6		.....	.....	.....	.....	.....	.....	.....	1.2	.....	.....	.....	.....	30
25.01		35.58	21.37	45.65	38.26	47.17	43.07	25.30	15.41	26.48	32.21	30.94	38.62	31
16.82		.....	.....	.....	.....	.....	.....	.....	16.82	.....	.....	.....	.....	32
9.53		.....	.....	.....	.....	.....	.....	.....	9.53	.....	.....	.....	.....	33
46.15		68.01	125.03	68.00	52.34	70.83	52.60	47.59	27.56	51.36	47.86	47.49	49.43	34
1,121,362		814,633	143,455	426,642	196,505	42,037	5,994	7,155	299,574	31,586	96,529	79,768	16,761	35
27.39		41.50	23.19	73.46	30.03	46.45	31.88	26.60	14.24	27.71	33.89	33.00	38.89	36
Primary Enterprises	Sup.								Primary Enterprises / Sup.					
503	1	486	145	42	241	49	9	8	9 / 1	33	191	156	35	37
20,141	(3)	9,136	968	3,899	3,592	564	113	136	10,869 / (3)	512	1,678	1,353	325	38
65,417	(3)	50,925	6,485	10,075	27,094	6,035	1,236	666	13,826 / (3)	2,100	8,856	6,842	2,014	39
3.25	(3)	5.57	6.70	2.58	7.54	10.70	10.94	4.90	1.27 / (3)	4.10	5.28	5.06	6.20	40
67,700	.....	23,773	1,526	11,851	7,695	2,701	.....	.....	43,927 /	75	.....	.....	.....	41
4.65	.....	6.36	8.57	3.95	14.80	73.00	.....	.....	4.06 /	1.00	.....	.....	.....	42
24,953	.....	6,002	178	5,267	520	37	.....	.....	18,951 /	75	.....	.....	.....	43
2.71	.....	3.96	8.57	2.25	14.80	73.00	.....	.....	2.32 /	1.00	.....	.....	.....	44
51,657	.....	22,394	.....	12,000	7,695	2,699	.....	.....	29,263 /	100	.....	.....	.....	45
235,340	.....	138,500	.....	138,500	.....	.....	.....	.....	96,840 /	.....	.....	.....	.....	46
475	1	461	120	42	244	49	6	8	6 / 1	29	192	158	34	47
17,208	(3)	8,946	879	3,899	3,542	544	82	133	8,129 / (3)	493	1,665	1,380	285	48
46,376	(3)	15,961	1,471	9,448	3,824	1,062	156	65	30,350 / (3)	511	1,075	334	241	49
2.7	(3)	1.8	1.7	2.4	1.1	2.0	1.9	0.5	3.7 / (3)	1.0	0.6	0.6	0.8	50
5.41	(3)	6.03	7.19	3.44	7.67	11.23	13.23	5.28	4.73 / (3)	4.35	5.38	5.03	7.06	51
2.01	(3)	3.38	4.30	3.44	7.10	5.75	13.23	10.73	4.73 / (3)	4.20	8.33	8.32	8.34	52
54	.....	50	22	3	17	4	4	3	1 /	3	90	86	4	53
5,097	.....	4,937	239	4,459	145	13	81	80	(3) /	268	643	631	12	54
3,651	.....	3,596	107	3,322	100	13	54	15	(3) /	102	588	578	10	55
253	.....	203	91	.....	63	12	37	40	(3) /	152	613	603	10	56
276	.....	271	19	230	15	.....	7	.....	(3) /	.....	2	2	.....	57

[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1]	COLUMBIA RIVER					
			Total	Direct (1)	Clark Fork Total	Clark Fork Direct (2)	Kettle River (4)	Colville River (5)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises..1940..number	4,120	3,346	825	56	56	40	98
2	Average size of enterprise based on area works were capable of supplying with water..1940..acres	178	206	38	46	46	29	44
3	Diversion dams..1940..total number	1,755	1,681	251	44	44	25	59
4	1930..total number	499	482	2	9	.....	.....	18
5	1920..total number	579	570	9	5	.....	.....	40
6	(a) Concrete and masonry..1940..number	166	164	6	1	1	.....	1
7	(b) Timber..1940..number	453	422	93	12	12	6	18
8	(c) Earth and rock..1940..number	725	702	127	15	15	15	21
9	(d) Other, mixed, and not reported..1940..number	411	393	25	16	16	4	19
10	Main canals and laterals..1940..total length, miles	4,248.6	4,094.6	185.4	37.0	37.0	27.4	38.8
11	1930..total length, miles	3,635	3,468	51	15	.....	.....	33
12	1920..total length, miles	5,615	5,519	198	12	.....	.....	195
13	(a) Earth..1940..length, miles	3,581	3,446	132	34	34	23	33
14	(b) Lined..1940..length, miles	667.6	648.6	53.4	3.0	3.0	4.4	5.8
15	1940..capacity, c.f.s.[2]	15,104	14,072	761	89	89	50	146
16	1930..capacity, c.f.s.[2]	14,987	14,443	205	81	.....	.....	61
17	1920..capacity, c.f.s.[2]	16,242	15,607	630	99	.....	.....	393
18	Pipe lines[3]..1940..total length, miles	2,612.7	2,304.1	542.9	9.7	9.7	1.7	1.8
19	1930..total length, miles	1,136.9	1,082.5	148.4	2.5	.....	.....	2.4
20	1920..total length, miles	790.0	785.9	162.2	1.0	.....	.....	14.6
21	(a) Concrete..1940..length, miles	614.9	608.8	63.7	.....	.....	.....	.....
22	(b) Metal..1940..length, miles	1,239.0	951.6	338.5	6.4	6.4	0.7	1.1
23	(c) Wood-stave..1940..length, miles	654.3	640.3	126.9	2.0	2.0	.....	0.6
24	(d) Other..1940..length, miles	104.5	103.4	13.8	1.3	1.3	1.0	0.1
25	Storage dams..1940..total number	125	108	31	11	11	.....	1
26	1930..total number	100	91	1	1	.....	.....	2
27	1920..total number	115	113	18	1	.....	.....	1
28	(a) Concrete and masonry..1940..number	21	16	3	.....	.....	.....	.....
29	(b) Earth and rock..1940..number	81	75	24	2	2	.....	1
30	(c) Other, mixed, and not reported..1940..number	23	17	4	9	9	.....	.....
31	Reservoirs..1940..total number	114	93	23	11	11	.....	1
32	(a) 1-99 acre-feet capacity..1940..number	81	61	19	11	11	.....	1
33	(b) 100-999 acre-feet capacity..1940..number	9	8	4	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity..1940..number	24	24	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]	1,165,527	1,165,263	1,681	20	20	.....	(5)
36	1930..total number	78	70	1	1	.....	.....	.....
37	1930..total capacity, ac.-ft.	699,807	699,764	50	3,060	.....	.....	.....
38	Wells, flowing..1940..number	50	43	16	.....	.....	.....	1
39	1930..number	42	42	1	.....	.....	.....	.....
40	1920..number	60	59	8	.....	.....	.....	.....
41	1940..yield, g.p.m.	21,192	19,685	4,070	.....	.....	.....	(5)
42	1930..yield, g.p.m.	27,290	27,290	300	.....	.....	.....	.....
43	1920..yield, g.p.m.	14,925	14,925	4,390	.....	.....	.....	.....
44	Wells, pumped..1940..number	1,041	799	315	.....	.....	.....	.....
45	1930..number	1,019	879	11	.....	.....	.....	3
46	1920..number	520	517	166	.....	.....	.....	1
47	1940..yield, g.p.m.	287,327	263,181	70,489	.....	.....	.....	.....
48	1930..yield, g.p.m.	306,800	269,274	11,325	.....	.....	.....	975
49	1920..yield, g.p.m.	227,744	227,624	58,223	.....	.....	.....	40
50	Pumping plants..1940..total number	2,487	1,923	607	3	3	1	5
51	1930..total number	1,951	1,748	219	.....	.....	.....	3
52	Prime movers..1940..capacity, hp	37,131	34,274	8,526	65	65	(5)	16
53	1930..capacity, hp	33,187	30,783	6,625	.....	.....	.....	15
54	1920..capacity, hp	22,929	22,901	6,451	.....	.....	.....	23
55	(a) Electric..1940..number	2,071	1,622	531	.....	.....	.....	1
56	1940..capacity, hp	26,943	25,239	7,542	.....	.....	.....	(5)
57	(b) Internal-combustion..1940..number	353	248	75	.....	.....	.....	2
58	1940..capacity, hp	4,560	3,442	984	.....	.....	.....	(5)
59	(c) Other[6]..1940..number	63	53	1	3	3	1	2
60	1940..capacity, hp	5,628	5,593	.....	65	65	(5)	(5)
61	Pumps..1940..total number	2,488	1,917	605	1	1	1	5
62	1930..number	2,023	1,819	228	.....	.....	.....	3
63	1920..number	1,059	1,050	347	.....	.....	.....	5
64	1940..capacity, g.p.m.	953,751	874,008	196,667	1,800	1,800	(5)	2,096
65	1930..capacity, g.p.m.	993,303	908,708	215,538	.....	.....	.....	975
66	1920..capacity, g.p.m.	636,552	635,735	231,463	.....	.....	.....	8,450
67	(a) Centrifugal..1940..number	2,044	1,654	528	.....	.....	1	5
68	1940..capacity, g.p.m.	884,439	817,962	180,501	.....	.....	(5)	2,096
69	1940..average capacity, g.p.m.	423	495	342	.....	.....	(5)	419
70	(b) Turbine..1940..number	117	99	33	1	1	.....	.....
71	1940..capacity, g.p.m.	40,471	39,501	12,279	(5)	(5)	.....	.....
72	1940..average capacity, g.p.m.	346	399	372	(5)	(5)	.....	.....
73	(c) Plunger..1940..number	266	129	36	.....	.....	.....	.....
74	1940..capacity, g.p.m.	18,888	10,413	2,841	.....	.....	.....	.....
75	1940..average capacity, g.p.m.	71	81	79	.....	.....	.....	.....
76	(d) Other[7]..1940..number	61	35	8	.....	.....	.....	.....
77	1940..capacity, g.p.m.	9,953	6,132	1,046	.....	.....	.....	.....
78	Pumping lift, from all sources..1940..average, feet	47	55	59	32	32	(5)	12
79	1930..average, feet	59	59	78	.....	.....	.....	36
80	1920..average, feet	60	67	67	.....	.....	.....	55
81	from pumped wells..1940..average, feet	43	46	48	.....	.....	.....	.....
82	from surface sources..1940..average, feet	51	60	71	32	32	(5)	12

[1] Data for unidentified independent basins for the 1930 and 1920 Censuses are included only in State totals.
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.
[4] Total capacity of all reservoirs regardless of size.

WORKS, 1940, 1930, AND 1920

COLUMBIA RIVER—Continued														
Spokane River									Yakima River					
Total	Direct (6)	Latah Creek (7)	Sanpoil River (8)	Okanogan River (9)	Methow River (10)	Lake Chelan (11)	Entiat River (12)	Wenatchee River (13)	Crab Creek (14)	Total	Direct (15)	Naches River (16)	Ahtanum Creek (17)	
100	88	12	10	254	145	95	36	255	134	752	613	106	33	1
196	218	31	23	94	105	67	81	96	57	669	696	584	444	2
27	27	.....	4	46	109	25	21	80	32	616	515	90	11	3
6	.....	.....	.....	16	41	.....	5	42	7	126	21	25	19	4
15	.....	.....	.....	12	52	.....	5	41	24	105	12	2	10	5
5	5	.....	.....	2	1	1	1	6	9	52	38	11	3	6
8	8	.....	1	10	74	5	.....	17	14	59	31	28	.....	7
4	4	.....	3	28	29	18	11	52	6	248	199	41	8	8
10	10	.....	.....	6	5	1	9	5	3	257	247	10	.....	9
113.1	113.1	.....	3.0	280.7	226.5	43.1	50.3	146.4	36.3	2,622.8	2,093.7	494.9	34.2	10
25	.....	.....	.....	195	192	.....	34	187	5	2,295	1,871	169	52	11
235	.....	.....	.....	290	276	.....	41	213	43	2,226	1,552	134	83	12
67	67	.....	3	97	207	21	39	81	34	2,404	1,951	419	34	13
46.1	46.1	.....	.....	183.7	19.5	22.1	11.3	65.4	2.3	218.8	142.7	75.9	0.2	14
102	90	12	13	719	652	180	132	798	194	9,008	7,542	1,160	306	15
289	.....	.....	.....	602	1,014	.....	62	686	260	10,155	7,294	923	605	16
802	.....	.....	.....	552	1,230	.....	85	553	100	7,486	4,823	724	180	17
164.6	164.6	.....	.....	176.8	19.4	129.3	23.4	401.2	38.7	647.4	527.0	119.7	0.7	18
98.5	.....	.....	.....	52.7	8.8	.....	6.9	62.1	2.2	380.6	371.0	6.2	0.3	19
132.7	.....	.....	.....	20.9	4.8	.....	1.5	26.0	34.9	161.1	154.6	4.1	.....	20
124.4	124.4	.....	.....	17.5	3.4	0.5	0.2	19.8	6.9	337.0	265.2	71.5	0.3	21
22.1	22.1	.....	.....	112.9	9.5	61.8	19.5	278.5	18.1	28.5	24.4	3.8	0.3	22
15.8	15.8	.....	.....	38.7	6.3	66.8	3.7	102.9	13.3	207.6	168.1	39.4	0.1	23
2.3	2.3	.....	.....	7.7	0.2	0.2	.....	.....	0.4	74.3	69.3	5.0	.....	24
5	5	.....	.....	15	6	5	1	13	6	9	6	3	.....	25
3	.....	.....	.....	12	10	.....	1	10	3	8	6	.....	.....	26
8	.....	.....	.....	11	11	.....	1	6	9	10	7	.....	.....	27
2	2	.....	.....	1	.....	1	.....	2	5	1	1	.....	.....	28
3	3	.....	.....	14	6	3	1	8	1	8	5	3	.....	29
.....	.....	.....	.....	.....	.....	1	.....	3	.....	.....	.....	.....	.....	30
12	11	1	.....	12	5	2	1	11	2	9	5	4	.....	31
12	11	1	.....	2	4	.....	.....	7	.....	1	1	.....	.....	32
.....	.....	.....	.....	1	.....	2	.....	1	.....	.....	.....	.....	.....	33
.....	.....	.....	.....	9	1	.....	1	3	2	8	4	4	.....	34
70	69	(5)	.....	43,501	6,138	(5)	(5)	4,523	(5)	1,065,870	828,770	237,100	.....	35
3	.....	.....	.....	11	8	.....	.....	9	1	8	7	.....	.....	36
1,607	.....	.....	.....	43,085	4,374	.....	.....	6,203	70	629,487	628,437	.....	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	3	.....	2	38
.....	.....	.....	.....	1	.....	.....	.....	1	.....	4	.....	.....	.....	39
.....	.....	.....	.....	.....	1	.....	.....	.....	3	3	3	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	938	652	.....	(5)	41
.....	.....	.....	.....	50	.....	.....	.....	10	.....	3,350	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	60	235	235	.....	.....	43
49	38	11	.....	105	3	1	1	46	89	87	60	13	14	44
80	.....	.....	.....	196	2	.....	1	71	14	58	8	2	5	45
47	.....	.....	.....	48	2	.....	.....	7	111	45	41	1	1	46
79,643	78,373	1,270	.....	15,330	450	(5)	(5)	2,582	43,249	30,009	22,797	2,065	5,147	47
74,059	.....	.....	.....	27,970	800	.....	30	6,728	7,835	21,768	1,465	580	1,990	48
58,504	.....	.....	.....	13,278	115	.....	.....	1,300	36,285	9,680	7,870	335	125	49
85	70	15	.....	237	37	87	10	182	130	311	281	15	15	50
95	.....	.....	.....	326	21	.....	16	236	17	152	88	2	9	51
3,794	3,756	38	.....	2,606	334	1,306	78	1,927	1,534	11,817	11,700	32	85	52
3,822	.....	.....	.....	4,079	226	.....	93	1,853	161	7,498	6,510	24	93	53
3,476	.....	.....	.....	1,599	44	.....	18	337	2,321	3,492	3,447	8	2	54
68	54	14	.....	226	32	74	10	170	95	261	235	14	12	55
3,624	3,589	35	.....	2,414	283	1,198	78	1,774	1,061	5,993	5,895	23	75	56
15	14	1	.....	11	4	13	.....	9	35	24	20	1	3	57
170	167	(5)	.....	192	51	108	.....	149	473	391	372	(5)	10	58
2	2	.....	.....	.....	1	.....	.....	3	.....	26	26	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	.....	4	.....	5,433	5,433	.....	.....	60
84	70	14	.....	237	37	88	10	181	129	310	280	15	15	61
105	.....	.....	.....	335	22	.....	16	240	17	169	103	2	9	62
93	.....	.....	.....	119	9	.....	4	40	145	87	78	3	1	63
78,595	76,600	1,995	.....	58,115	6,787	15,298	1,912	20,963	68,569	347,320	339,376	2,715	5,229	64
72,534	.....	.....	.....	104,329	7,464	.....	1,920	34,451	10,947	237,533	206,020	580	2,321	65
68,643	.....	.....	.....	47,993	1,318	.....	310	21,114	66,270	78,975	75,715	1,285	125	66
65	51	14	.....	233	34	57	10	157	100	267	247	12	8	67
73,499	71,504	1,995	.....	56,995	6,447	12,995	1,912	19,302	59,500	333,206	327,254	2,525	3,427	68
1,131	1,402	142	.....	245	190	228	191	123	595	1,248	1,325	210	428	69
6	6	.....	.....	2	.....	1	.....	8	18	27	25	.....	2	70
3,570	3,570	.....	.....	(5)	.....	(5)	.....	656	5,657	11,639	11,245	.....	(5)	71
595	595	.....	.....	(5)	.....	(5)	.....	82	314	431	450	.....	(5)	72
10	10	.....	.....	2	2	30	.....	15	10	7	5	1	1	73
1,251	1,251	.....	.....	(5)	(5)	2,153	.....	965	1,912	597	337	(5)	(5)	74
125	125	.....	.....	(5)	(5)	72	.....	64	191	85	67	(5)	(5)	75
3	3	.....	.....	.....	1	.....	.....	1	1	9	3	2	4	76
275	275	.....	.....	.....	(5)	.....	.....	(5)	(5)	1,878	540	(5)	1,158	77
53	39	14	.....	43	73	128	59	73	53	46	48	12	46	78
77	.....	.....	.....	45	67	.....	64	66	20	38	24	9	39	79
79	.....	.....	.....	40	56	.....	59	67	65	38	39	55	18	80
70	80	17	.....	44	.....	(5)	(5)	34	63	53	62	13	48	81
38	41	10	.....	42	73	131	66	86	31	43	44	10	20	82

[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Includes water wheels for which no horsepower was reported.
[7] Includes 2 hydraulic rams for which no capacity was reported.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLUMBIA RIVER—Continued							
			Snake River							
			Total	Direct	Grande Ronde River	Asotin Creek	Palouse River	Walla Walla River	Klickitat River	White Salmon River
				(18)	(19)	(20)	(21)	(22)	(23)	(24)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
1	Enterprises	1940..number	155	111	9	13	22	304	17	27
2	Average size of enterprise based on area works were capable of supplying with water	1940..acres	56	31	14	298	54	83	453	199
3	Diversion dams	1940..total number	95	50	15	21	9	183	32	20
4		1930..total number	30	.....	.....	1	12	99	3	11
5		1920..total number	48	1	.....	2	13	135	19	19
6	(a) Concrete and masonry	1940..number	12	4	.....	2	6	64	.....	3
7	(b) Timber	1940..number	5	5	.....	.....	.....	53	27	10
8	(c) Earth and rock	1940..number	59	27	15	15	2	57	3	5
9	(d) Other, mixed, and not reported	1940..number	19	14	.....	4	1	9	2	2
10	Main canals and laterals	1940..total length, miles	61.9	19.1	12.1	15.6	15.1	162.9	24.3	32.1
11		1930..total length, miles	38	.....	.....	1	23	135	17	35
12		1920..total length, miles	137	41	.....	.....	42	1,158	70	114
13	(a) Earth	1940..length, miles	57	16	12	15	14	160	24	30
14	(b) Lined	1940..length, miles	4.9	3.1	0.1	0.6	1.1	2.9	0.3	2.1
15		1940..capacity, c.f.s.[1]	229	146	8	55	20	585	227	156
16		1930..capacity, c.f.s.[1]	70	.....	.....	1	23	391	37	169
17		1920..capacity, c.f.s.[1]	1,075	427	.....	1	219	1,049	352	478
18	Pipe lines[2]	1940..total length, miles	92.6	34.0	0.2	51.8	6.6	40.8	0.2	5.2
19		1930..total length, miles	45.7	10.7	.....	12.5	7.1	18.1	0.7	1.9
20		1920..total length, miles	94.1	33.6	.....	48.0	1.4	56.4	2.5	2.5
21	(a) Concrete	1940..length, miles	13.5	8.6	.....	.....	4.9	21.9	.....	.....
22	(b) Metal	1940..length, miles	34.1	16.3	0.2	16.7	0.9	10.8	.....	0.9
23	(c) Wood-stave	1940..length, miles	43.6	8.4	.....	35.1	0.1	7.5	0.1	4.3
24	(d) Other	1940..length, miles	1.4	0.7	.....	.....	0.7	0.6	0.1	.....
25	Storage dams	1940..total number	4	1	.....	.....	3	.....	.....	.....
26		1930..total number	2	.....	.....	1	.....	1	.....	1
27		1920..total number	9	2	.....	1	5	7	.....	3
28	(a) Concrete and masonry	1940..number	1	1	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock	1940..number	3	.....	.....	.....	3	.....	.....	.....
30	(c) Other, mixed, and not reported	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs	1940..total number	4	3	.....	1	.....	.....	.....	.....
32	(a) 1-99 acre-feet capacity	1940..number	4	3	.....	1	.....	.....	.....	.....
33	(b) 100-999 acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity	1940..number	.....	.....	.....	.....	.....	.....	.....	.....
35		1940..total capacity, ac.-ft.[3]	59	2	.....	(4)	.....	.....	.....	.....
36		1930..total number	2	.....	.....	1	.....	2	.....	.....
37		1930..total capacity, ac.-ft.	83	.....	.....	80	.....	2	.....	.....
38	Wells, flowing	1940..number	8	1	.....	.....	7	13	.....	.....
39		1930..number	7	.....	.....	.....	7	17	.....	.....
40		1920..number	8	.....	.....	.....	8	33	.....	.....
41		1940..yield, g.p.m.	7,165	(4)	.....	.....	7,140	7,495	.....	.....
42		1930..yield, g.p.m.	1,300	.....	.....	.....	1,300	10,600	.....	.....
43		1920..yield, g.p.m.	1,100	.....	.....	.....	1,100	6,080	.....	.....
44	Wells, pumped	1940..number	10	7	.....	.....	3	82	.....	.....
45		1930..number	22	.....	.....	.....	5	86	1	.....
46		1920..number	37	35	.....	.....	.....	36	.....	2
47		1940..yield, g.p.m.	1,710	1,260	.....	.....	450	18,871	.....	.....
48		1930..yield, g.p.m.	4,656	.....	.....	.....	680	13,580	33	.....
49		1920..yield, g.p.m.	13,365	13,015	.....	.....	.....	32,510	.....	24
50	Pumping plants	1940..total number	68	51	1	2	14	120	5	2
51		1930..total number	80	40	.....	1	11	132	5	.....
52	Prime movers	1940..capacity, hp.	1,303	798	(4)	(4)	65	604	45	(4)
53		1930..capacity, hp.	1,172	765	.....	150	103	753	60	.....
54		1920..capacity, hp.	3,559	3,186	.....	.....	40	681	26	42
55	(a) Electric	1940..number	35	24	.....	2	9	99	.....	.....
56		1940..capacity, hp.	755	315	.....	(4)	40	449	.....	.....
57	(b) Internal-combustion	1940..number	28	23	1	.....	4	17	3	.....
58		1940..capacity, hp.	543	479	(4)	.....	24	153	40	.....
59	(c) Other[5]	1940..number	5	4	.....	.....	1	4	2	2
60		1940..capacity, hp.	5	4	.....	.....	(4)	2	(4)	(4)
61	Pumps	1940..total number	66	50	1	2	13	124	4	2
62		1930..number	79	41	.....	1	11	139	5	.....
63		1920..number	74	58	.....	.....	3	62	5	4
64		1940..capacity, g.p.m.	33,499	26,411	(4)	(4)	2,838	31,667	3,633	(4)
65		1930..capacity, g.p.m.	79,499	18,624	.....	1,000	5,126	20,286	908	.....
66		1920..capacity, g.p.m.	47,849	33,177	.....	.....	4,400	20,840	3,875	320
67	(a) Centrifugal	1940..number	56	42	1	2	11	115	3	2
68		1940..capacity, g.p.m.	30,665	23,595	(4)	(4)	2,820	31,487	3,300	(4)
69		1940..average capacity, g.p.m.	548	562	(4)	(4)	256	274	1,100	(4)
70	(b) Turbine	1940..number	2	2	.....	.....	.....	.....	.....	.....
71		1940..capacity, g.p.m.	(4)	(4)	.....	.....	.....	.....	.....	.....
72		1940..average capacity, g.p.m.	(4)	(4)	.....	.....	.....	.....	.....	.....
73	(c) Plunger	1940..number	6	5	.....	.....	1	4	.....	.....
74		1940..capacity, g.p.m.	219	216	.....	.....	(4)	15	.....	.....
75		1940..average capacity, g.p.m.	36	43	.....	.....	(4)	4	.....	.....
76	(d) Other[6]	1940..number	2	1	.....	.....	1	5	1	.....
77		1940..capacity, g.p.m.	(4)	(4)	.....	.....	(4)	165	(4)	.....
78	Pumping lift, from all sources	1940..average, feet	47	46	(4)	(4)	33	19	15	(4)
79		1930..average, feet	48	59	.....	400	26	22	24	.....
80		1920..average, feet	46	46	.....	.....	16	21	28	83
81	from pumped wells	1940..average, feet	31	25	.....	.....	40	22	.....	.....
82	from surface sources	1940..average, feet	51	49	(4)	(4)	29	14	15	(4)

[6] Data for 4 enterprises (40 acres irrigated) in drainage basin (35), Sumas River, Washington (tributary of the Fraser River, Canada), are included in drainage basin (34), Nooksack River Area.

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

COLUMBIA RIVER—Con.		STRAIT OF JUAN DE FUCA									GEORGIA STRAIT	PACIFIC SLOPE			
			Puget Sound												
Lewis River (25)	Cowlitz River (26)	Total	Total	Direct (27)	Nisqually River (28)	White and Puyallup Rivers (29)	Lake Washington (30)	Snohomish River (31)	Skagit and Samish Rivers (32)	Dungeness River (33)	Nooksack River Area[2] (34)	Total	Chehalis River (36)	Other Pacific Slope Streams (37)	
24	19	538	519	159	42	258	51	9	9	10	35	201	164	37	1
16	21	69	34	37	138	19	17	15	30	1,944	29	13	13	11	2
10	2	60	56	36	1	13	2	4	.....	4	4	10	7	3	3
.....	.....	4	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	4
.....	.....	6	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	5
.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	1	.....	1	6
10	.....	24	21	9	1	6	2	3	.....	3	2	5	4	1	7
.....	1	18	17	10	.....	6	.....	1	.....	1	2	3	2	1	8
.....	1	17	17	17	.....	.....	.....	.....	.....	.....	.....	1	1	.....	9
2.5	0.1	151.8	67.3	8.4	49.5	9.3	.....	0.1	.....	84.5	.....	2.2	2.2	.....	10
.....	.....	99	.....	.....	.....	.....	.....	.....	.....	99	.....	.....	.....	.....	11
.....	.....	68	.....	.....	.....	.....	.....	.....	.....	68	.....	.....	.....	.....	12
.....	.....	133	54	7	39	8	.....	.....	.....	79	.....	2	2	.....	13
2.5	0.1	18.8	13.3	1.4	10.5	1.3	.....	0.1	.....	5.5	.....	0.2	0.2	.....	14
18	13	872	474	132	85	193	58	6	3	395	15	145	125	20	15
.....	.....	414	.....	.....	.....	.....	.....	.....	.....	414	.....	.....	.....	.....	16
.....	.....	570	.....	.....	.....	.....	.....	.....	.....	570	.....	.....	.....	.....	17
4.3	4.1	271.6	267.5	51.6	9.1	187.6	17.2	2.0	2.1	2.0	4.9	32.1	27.1	5.0	18
.....	.....	1.3	.....	.....	.....	.....	.....	.....	.....	1.3	.....	.....	.....	.....	19
.....	.....	1.0	.....	.....	.....	.....	.....	.....	.....	1.0	.....	.....	.....	.....	20
.....	.....	5.7	5.6	.....	1.9	3.1	0.4	0.2	.....	0.1	.....	0.4	0.2	0.2	21
4.1	4.1	255.3	253.5	48.6	4.9	182.5	16.5	1.0	1.6	0.2	4.2	27.9	23.9	4.0	22
0.2	.....	9.8	7.6	2.9	2.3	1.3	0.3	0.8	0.5	1.7	0.4	3.8	3.0	0.8	23
.....	.....	0.8	0.8	0.1	.....	0.7	.....	.....	.....	.....	0.3	.....	.....	.....	24
1	.....	14	14	13	.....	1	.....	.....	.....	.....	.....	3	2	1	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	4	4	4	.....	.....	.....	.....	.....	.....	.....	1	.....	1	28
1	.....	5	5	5	.....	.....	.....	.....	.....	.....	.....	1	1	.....	29
.....	.....	5	5	4	.....	1	.....	.....	.....	.....	.....	1	1	.....	30
.....	.....	15	15	10	1	3	1	.....	.....	.....	.....	6	3	3	31
.....	.....	14	14	10	1	2	1	.....	.....	.....	.....	6	3	3	32
.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	33
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
.....	.....	242	242	36	(4)	202	(4)	.....	.....	.....	.....	22	13	9	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
.....	.....	6	6	3	.....	3	.....	.....	.....	.....	1	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	707	707	200	.....	507	.....	.....	.....	.....	(4)	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
7	4	177	165	52	34	67	11	1	12	.....	22	43	25	18	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
680	88	11,158	10,168	2,703	1,539	3,918	1,608	(4)	990	.....	6,089	6,899	1,150	5,749	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
16	17	363	354	96	39	172	44	3	8	1	30	171	144	27	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
120	126	1,642	1,549	600	75	641	203	30	67	(4)	217	998	716	282	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
10	10	308	302	77	38	146	38	3	6	.....	17	124	119	5	55
33	30	1,263	1,222	505	60	458	169	30	41	.....	99	342	328	14	56
5	7	45	42	14	.....	23	5	.....	2	1	13	47	25	22	57
86	96	344	292	90	.....	173	29	.....	(4)	(4)	118	656	388	268	58
1	.....	10	10	5	1	3	1	.....	.....	.....	.....	.....	.....	.....	59
(4)	.....	35	35	5	(4)	10	(4)	.....	.....	.....	.....	.....	.....	.....	60
16	17	368	359	100	39	173	44	3	8	1	34	169	143	26	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
2,785	1,702	50,012	48,327	14,467	2,708	22,062	8,585	505	1,385	(4)	9,520	20,211	12,647	7,564	64
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
12	9	221	212	50	15	122	22	3	8	1	25	144	122	22	67
2,255	1,202	39,230	37,545	12,474	1,580	17,620	5,366	505	1,385	(4)	9,123	18,124	11,108	7,016	68
188	134	178	177	249	105	144	244	168	173	(4)	365	126	91	319	69
.....	1	12	12	.....	.....	11	1	.....	.....	.....	2	4	4	.....	70
.....	(4)	463	463	.....	.....	455	(4)	.....	.....	.....	(4)	337	337	.....	71
.....	(4)	39	39	.....	.....	41	(4)	.....	.....	.....	(4)	84	84	.....	72
3	4	114	114	41	24	30	19	.....	.....	.....	5	18	16	2	73
110	140	7,428	7,428	1,442	1,128	2,176	2,682	.....	.....	.....	227	820	802	(4)	74
37	35	65	65	35	47	73	141	.....	.....	.....	45	46	50	(4)	75
1	3	21	21	9	.....	10	2	.....	.....	.....	2	3	1	2	76
(4)	60	2,891	2,891	551	.....	1,811	(4)	.....	.....	.....	.....	930	(4)	(4)	77
12	13	33	33	45	29	24	39	102	34	(4)	25	12	12	12	78
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
20	25	36	36	41	32	31	54	(4)	42	.....	22	22	31	12	81
8	10	30	31	50	17	20	36	102	12	(4)	29	9	8	12	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Includes water wheels for which no horsepower was reported.
[6] Includes 2 hydraulic rams for which no capacity was reported.

COUNTY TABLE I—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Adams	Asotin	Benton	Chelan	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms...1940...number	81,686		651	542	1,673	2,079	
2	1930...number	70,904		818	622	1,668	2,218	
3	Irrigated farms...1940...number	17,426		15	330	1,516	1,776	
4	1930...number	15,949		22	372	1,510	2,025	
5	Increase or decrease (-), 1930-1940...percent	9.3		-31.8	-11.3	0.4	-12.3	
	Operated by—							
6	(a) Owners and managers...1940...number	14,069		11	292	1,260	1,605	
7	1930...number	13,129		18	336	1,233	1,867	
8	(b) Tenants...1940...number	3,357		4	38	256	171	
9	1930...number	2,820		4	36	277	158	
10	Land in all farms...1940...acres	15,181,815		961,557	329,367	519,662	180,588	
11	Land in irrigated farms...1940...acres	2,108,197		38,449	77,569	76,012	109,366	
12	Average per farm...1940...acres	121		2,563	235	50	62	
13	(a) Operated by owners and managers...1940...acres	1,762,907		36,939	74,973	62,381	98,623	
14	Average per farm...1940...acres	125		3,358	257	50	61	
15	(b) Operated by tenants...1940...acres	345,290		1,510	2,596	13,631	10,743	
16	Average per farm...1940...acres	103		378	68	53	63	
17	Approximate land area...1940...acres	42,865,280		1,212,800	401,280	1,112,320	1,875,840	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated...1939...acres	615,013		730	3,749	38,332	34,527	
19	(a) Cropland harvested...1939...acres	520,424		606	3,642	32,028	34,041	
20	(b) Crop failure...1939...acres	6,113		.....	.....	465	146	
21	(c) Pasture...1939...acres	88,476		124	107	5,839	340	
22	Area irrigated...1929...acres	499,283		1,183	4,162	30,286	34,071	
23	1919...acres	529,899		943	3,474	39,272	38,894	
24	Increase or decrease (-), 1929-1939...percent	23.2		-38.3	-9.9	26.6	1.3	
25	Irrigable area in enterprises...1940...acres	837,096		870	4,106	62,081	42,137	
26	1930...acres	915,379		1,362	5,023	54,668	40,951	
27	1920[2]...acres	836,795		1,737	4,684	72,015	65,324	
28	Excess of irrigable area over the area irrigated...1940...acres	222,083		140	357	23,749	7,610	
29	1930...acres	416,096		179	861	24,382	6,880	
30	Area works were capable of supplying with water...1940...acres	731,527		870	4,106	49,002	38,582	
31	1930...acres	631,511		1,275	5,012	43,916	36,313	
32	1920...acres	637,151		1,342	4,559	48,851	50,502	
33	Increase or decrease (-), 1930-1940...percent	15.8		-31.8	-18.1	11.6	6.2	
34	Excess, capability of works over area irrigated...1940...acres	116,514		140	357	10,670	4,055	
35	1930...acres	132,228		92	850	13,630	2,242	
36	Proportion which area irrigated is of all lands in irrigated farms...1939...percent	29.2		1.9	4.8	50.4	31.6	
37	1929...percent	26.0		1.2	9.5	35.3	34.7	
38	Proportion which area irrigated is of area works were capable of supplying with water...1939...percent	84.1		83.9	91.3	78.2	89.5	
39	1929...percent	79.1		92.8	83.0	69.0	93.8	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises...1940...dollars	56,415,196		19,920	724,459	2,777,690	4,400,110	
41	(a) Cost of irrigation works and equipment...1940...dollars	55,678,678		19,920	715,899	2,727,638	4,283,922	
42	(b) Investment in water rights (reported)...1940...dollars	736,518		.....	8,560	50,052	116,188	
43	Total investment in all enterprises...1930...dollars	40,561,895		47,620	302,221	3,549,863	4,787,525	
44	1920...dollars	29,299,011		77,350	627,165	2,387,113	3,503,670	
45	Increase or decrease (-), 1930-1940...percent	39.1		-58.2	139.7	-21.8	-8.1	
46	Average investment, based on area works were capable of supplying with water, per acre...1940...dollars	77.12		22.90	176.44	56.09	114.05	
47	1930...dollars	64.23		37.35	60.30	80.83	131.84	
48	1920...dollars	45.98		57.64	137.57	48.86	69.38	
49	Average investment per acre irrigated...1939...dollars	91.73		27.29	193.24	72.46	127.44	
50	Estimated final investment in existing enterprises...1940...dollars	58,141,097		19,920	724,467	2,755,368	4,462,398	
51	1930...dollars	53,232,477		49,620	305,221	3,566,351	5,150,995	
52	1920...dollars	37,684,591		87,750	627,165	3,040,479	4,080,090	
53	Increase or decrease (-), 1930-1940...percent	9.2		-59.9	137.4	-21.9	-13.4	
54	Average investment, based on estimated final investment and irrigable area, per acre...1940...dollars	69.46		22.90	176.44	44.87	105.90	
55	1930...dollars	58.15		36.43	60.76	65.24	125.78	
56	1920[2]...dollars	45.03		50.52	133.90	42.22	62.46	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental				Primary	Supplemental
		Enterprises					Enterprises	
57	Enterprises reporting maintenance and operation...1939...number	3,746	125	9	23	132	473	4
58	Area irrigated in these enterprises...1939...acres	602,414	22,296	710	3,719	37,978	33,881	3,632
59	Cost of maintenance and operation...1939...dollars	1,673,992	11,314	1,350	45,123	154,261	246,346	4,561
60	Average cost, per acre irrigated...1939...dollars	2.78	0.51	1.90	12.13	4.06	7.27	1.26
61	1928...dollars	4.14	.....	5.55	8.81	6.16	10.84	.....
62	Total annual charges (reported)[4 5]...1939...dollars	1,542,453	3,129	.....	44,456	150,213	223,387	.....
63	Average annual charge per acre irrigated...1939...dollars	3.04	1.81	.....	13.36	4.34	8.90	.....
64	Area against which charges were assessed...1939...acres	573,094	8,940	.....	3,647	45,039	27,633	.....
65	Average annual charge per acre assessed...1939...dollars	2.69	0.35	.....	12.19	3.34	8.08	.....
66	Total charges collected[4]...1939...dollars	1,062,485	25,670	.....	39,900	104,918	193,510	20,317
67	Indebtedness to December 31 (reported)[6]...1939...dollars	21,764,676	856,928	.....	.....	1,455,044	1,073,109	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered...1939...number	3,851	131	12	26	134	498	4
69	Area irrigated in these enterprises...1939...acres	590,627	184,534	730	3,749	38,332	32,407	3,632
70	Water delivered in these enterprises...1939...acre-feet	2,548,581	704,152	3,193	10,141	248,532	121,068	10,836
71	Average water delivered per acre irrigated...1939...acre-feet	4.3	3.8	4.4	2.7	6.5	3.7	3.0
72	Average cost of water per acre irrigated...1939...dollars	3.35	0.75	1.90	12.48	4.46	9.81	7.11
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage...1939...number	210	.....	.....	.....	6	5	.....
74	Irrigable area in these enterprises...1939...acres	448,702	.....	.....	.....	41,712	177	.....
75	Irrigated area in these enterprises...1939...acres	300,362	.....	.....	.....	21,884	163	.....
76	Area for which drains have been installed...1939...acres	178,212	.....	.....	.....	4,423	28	.....
77	Additional area needing drainage...1939...acres	18,673	.....	.....	.....	1,540	3	.....

*Census of Agriculture.
[1]Percent not shown when more than 1,000.
[2]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

irrigation data omitted from any of the counties listed are included under "All other counties"]

Clallam		Clark	Columbia	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant		Grays Harbor	Island	
1,226		4,528	525	1,925	1,245	553	363	335	600		1,915	1,044	1
729		3,503	544	1,147	1,214	577	354	393	787		1,151	877	2
108		132	92	28	479	116	193	40	161		116	8	3
118		13	120	.....	494	66	137	30	224		4	4	4
-8.5		915.4	-23.3	.....	-3.0	75.8	40.9	33.3	-28.1		(1)	100.0	5
93		110	81	20	425	93	173	31	126		108	8	6
101		.....	100	.....	463	58	109	22	202		.....	.....	7
15		22	11	8	54	23	20	9	35		8	.....	8
17		.....	20	.....	31	8	28	8	22		.....	.....	9
70,844		209,036	354,754	122,474	872,490	251,437	447,004	379,693	735,134		124,209	54,969	10
7,580		8,805	59,261	3,684	48,618	40,529	21,608	63,082	78,110		7,230	247	11
70		67	644	132	101	349	112	1,577	485		62	31	12
6,439		6,945	58,259	1,942	45,444	34,151	20,858	35,443	39,957		6,308	247	13
69		63	719	97	107	367	121	1,143	317		58	31	14
1,141		1,860	1,002	1,742	3,174	6,378	750	27,639	38,153		922	.....	15
76		85	91	218	59	277	38	3,071	1,090		115	.....	16
1,121,920		405,120	550,400	733,440	1,178,240	1,434,240	807,680	456,960	1,777,280		1,219,200	131,840	17
10,910		1,168	2,565	498	9,074	1,533	3,203	659	5,680		949	35	18
5,614		727	2,455	497	8,996	1,495	2,838	624	5,048		348	35	19
.....		4	.....	.....	29	.....	119	.....	43		.....	.....	20
5,296		437	110	1	49	38	246	35	589		601	.....	21
8,960		.....	2,480	.....	9,605	1,246	2,606	775	7,597		.....	.....	22
6,160		.....	2,168	.....	4,822	791	2,253	883	7,545		.....	.....	23
21.8		.....	3.4	.....	-5.5	23.0	22.9	-15.0	-25.2		.....	.....	24
21,085		1,690	3,085	1,153	11,227	2,664	5,094	808	7,456		1,329	45	25
20,142		.....	2,861	.....	10,525	5,847	4,821	806	9,112		.....	.....	26
12,660		.....	3,532	.....	8,756	7,421	14,268	1,698	12,806		.....	.....	27
10,175		522	520	655	2,153	1,131	1,891	149	1,776		380	10	28
11,182		.....	381	.....	920	4,601	2,215	31	1,515		.....	.....	29
19,485		1,628	3,074	622	10,596	1,741	3,646	808	7,007		1,324	35	30
17,607		.....	2,672	.....	10,061	2,018	4,471	806	8,231		.....	.....	31
9,860		.....	3,063	.....	4,938	2,253	10,014	1,552	9,302		.....	.....	32
10.7		.....	15.0	.....	5.3	-13.7	-18.5	0.2	-14.9		.....	.....	33
8,575		460	509	124	1,522	208	443	149	1,327		375	.....	34
8,647		.....	192	.....	456	772	1,865	31	634		.....	.....	35
143.9		13.3	4.3	13.5	18.7	3.8	14.8	1.0	7.3		13.1	14.2	36
103.1		.....	4.4	.....	28.1	9.4	6.3	3.4	4.6		.....	.....	37
56.0		71.7	83.4	80.1	85.6	88.1	87.8	81.6	81.1		71.7	100.0	38
50.9		.....	92.8	.....	95.5	61.7	58.3	96.2	92.3		.....	.....	39
299,754		65,472	38,409	15,661	1,438,975	15,335	1,162,994	34,900	280,250		29,654	4,175	40
297,639		65,245	37,399	15,649	1,374,655	14,751	1,162,694	34,840	270,055		29,573	4,025	41
2,115		227	1,010	12	64,310	584	300	60	10,195		81	150	42
296,126		.....	78,244	.....	685,382	45,693	528,544	22,340	694,701		.....	.....	43
94,010		.....	61,447	.....	382,390	66,050	362,390	32,700	1,192,739		.....	.....	44
1.2		.....	-50.9	.....	110.0	-66.4	120.0	56.2	-59.7		.....	.....	45
15.38		40.22	12.49	25.18	135.80	8.81	318.98	43.19	40.00		22.40	119.29	46
16.82		.....	29.28	.....	68.12	22.64	118.22	27.72	84.40		.....	.....	47
9.53		.....	20.06	.....	77.44	29.32	36.19	21.07	128.22		.....	.....	48
27.48		56.05	14.97	31.45	158.58	10.00	363.10	52.96	49.34		31.25	119.29	49
299,754		68,072	38,409	18,468	1,453,875	16,385	1,164,994	37,065	281,519		33,972	5,175	50
298,126		.....	78,544	.....	730,086	49,343	787,164	22,340	734,101		.....	.....	51
97,010		.....	64,947	.....	402,008	66,950	637,390	36,000	1,301,729		.....	.....	52
0.5		.....	-51.1	.....	99.1	-66.8	48.0	65.9	-61.7		.....	.....	53
14.22		40.28	12.45	16.02	129.50	6.15	228.70	45.87	37.76		25.56	115.00	54
14.80		.....	27.45	.....	69.37	8.44	163.28	27.72	80.56		.....	.....	55
7.66		.....	18.39	.....	45.91	9.02	44.67	21.20	101.65		.....	.....	56
Primary	Supplemental								Primary	Supplemental			
Enterprises									Enterprises				
12	1	102	54	25	178	85	61	30	150	1	116	3	57
10,910	(3)	1,144	2,425	487	8,634	1,420	3,198	577	4,990	(3)	925	35	58
13,838	(3)	6,897	1,999	1,172	85,348	1,573	44,129	5,642	35,950	(3)	3,779	205	59
1.27	(3)	6.03	0.82	2.41	9.89	1.11	13.80	9.78	7.20	(3)	4.09	5.86	60
0.82	.....	.....	1.57	.....	15.00	1.51	11.68	9.46	16.32	.....	.....	.....	61
43,927	.....	.....	449	.....	37,660	.....	17,346	.....	.....	3,129	.....	.....	62
4.06	.....	.....	0.81	.....	8.99	.....	11.45	.....	.....	1.81	.....	.....	63
18,951	.....	.....	560	.....	5,333	.....	2,840	.....	.....	8,940	.....	.....	64
2.32	.....	.....	0.80	.....	7.06	.....	6.11	.....	.....	0.35	.....	.....	65
29,263	.....	.....	443	.....	29,975	.....	16,775	.....	.....	2,705	.....	.....	66
96,840	.....	.....	.....	.....	96,403	.....	47,455	.....	.....	17,500	.....	.....	67
9	1	104	53	26	189	88	62	35	151	1	118	3	68
8,170	(3)	1,166	2,354	495	9,025	1,520	3,203	631	5,182	(3)	906	35	69
30,391	(3)	1,458	8,085	299	39,150	5,317	19,837	2,388	27,458	(3)	485	31	70
3.7	(3)	1.2	3.4	0.6	4.3	3.5	6.2	3.8	5.3	(3)	0.5	0.9	71
4.71	(3)	6.03	0.85	2.40	11.48	1.11	11.75	9.82	7.16	(3)	4.26	5.86	72
1	.....	9	1	.....	1	2	1	.....	.....	.....	86	.....	73
(3)	.....	341	(3)	.....	(3)	(3)	(3)	.....	.....	.....	631	.....	74
(3)	.....	232	(3)	.....	(3)	(3)	(3)	.....	.....	.....	578	.....	75
(3)	.....	300	(3)	.....	(3)	.....	(3)	.....	.....	.....	603	.....	76
(3)	.....	14	.....	.....	.....	(3)	.....	.....	.....	.....	2	.....	77

[3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Jefferson	King	Kitsap	Kittitas		Klickitat	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[a]							
1	All farms....1940...number	516	5,760	2,102	1,196		1,113	
2	1930...number	272	4,656	1,557	888		1,074	
3	Irrigated farms....1940...number	17	191	34	1,074		226	
4	1930...number	11	94	12	664		162	
5	Increase or decrease (-), 1930-1940....percent	54.5	103.2	183.3	61.7		39.5	
	Operated by—							
6	(a) Owners and managers....1940...number	15	123	30	804		186	
7	1930...number	.....	.....	.....	525		126	
8	(b) Tenants....1940...number	2	68	4	270		40	
9	1930...number	.....	.....	.....	139		36	
10	Land in all farms....1940...acres	42,884	152,770	46,196	466,401		733,365	
11	Land in irrigated farms....1940...acres	1,807	4,362	998	302,191		60,153	
12	Average per farm....1940...acres	106	23	29	281		266	
13	(a) Operated by owners and managers....1940...acres	(1)	2,700	904	258,399		54,736	
14	Average per farm....1940...acres	(1)	22	30	321		294	
15	(b) Operated by tenants....1940...acres	(1)	1,662	94	43,792		5,417	
16	Average per farm....1940...acres	(1)	24	24	162		135	
17	Approximate land area....1940...acres	1,159,680	1,367,040	257,280	1,481,600		1,223,680	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	103	1,641	118	108,399		13,093	
19	(a) Cropland harvested....1939...acres	81	1,343	77	92,969		10,167	
20	(b) Crop failure....1939...acres	.....	4	.....	1,631		252	
21	(c) Pasture....1939...acres	22	294	41	13,799		2,674	
22	Area irrigated....1929...acres	.....	.....	.....	46,031		11,502	
23	1919...acres	.....	.....	.....	81,967		18,978	
24	Increase or decrease (-), 1929-1939....percent	.....	.....	.....	135.5		13.8	
25	Irrigable area in enterprises....1940...acres	139	2,166	396	148,160		16,728	
26	1930...acres	.....	.....	.....	122,914		20,321	
27	1920[2]...acres	.....	.....	.....	87,775		32,315	
28	Excess of irrigable area over the area irrigated...1940...acres	36	525	278	39,761		3,635	
29	1930...acres	.....	.....	.....	76,883		8,819	
30	Area works were capable of supplying with water...1940...acres	122	2,064	388	123,150		14,439	
31	1930...acres	.....	.....	.....	63,415		18,607	
32	1920...acres	.....	.....	.....	83,552		21,360	
33	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	94.2		-22.4	
34	Excess, capability of works over area irrigated...1940...acres	19	423	270	14,751		1,346	
35	1930...acres	.....	.....	.....	17,384		7,105	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	5.7	37.6	11.8	35.9		21.8	
37	1929...percent	.....	.....	.....	16.2		17.2	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	54.4	79.5	30.4	88.0		90.7	
39	1929...percent	.....	.....	.....	72.6		61.8	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	2,883	121,525	15,162	13,196,137		263,473	
41	(a) Cost of irrigation works and equipment....1940...dollars	2,875	121,257	13,784	13,189,178		258,218	
42	(b) Investment in water rights (reported)....1940...dollars	8	268	1,378	6,959		5,255	
43	Total investment in all enterprises....1930...dollars	.....	.....	.....	7,060,394		190,912	
44	1920...dollars	.....	.....	.....	4,678,707		198,501	
45	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	86.9		38.0	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	23.63	58.88	39.08	107.15		18.25	
47	1930...dollars	.....	.....	.....	111.34		10.26	
48	1920...dollars	.....	.....	.....	56.00		9.29	
49	Average investment per acre irrigated....1939...dollars	27.99	74.06	128.49	121.74		20.12	
50	Estimated final investment in existing enterprises...1940...dollars	3,233	125,950	15,218	13,320,389		281,848	
51	1930...dollars	.....	.....	.....	10,309,879		192,212	
52	1920...dollars	.....	.....	.....	5,908,707		206,851	
53	Increase or decrease (-), 1930-1940....percent	.....	.....	.....	29.2		46.6	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	23.26	58.15	38.43	89.91		16.85	
55	1930...dollars	.....	.....	.....	83.88		9.46	
56	1920[2]...dollars	.....	.....	.....	67.32		6.40	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
57	Enterprises reporting maintenance and operation...1939...number	12	124	36	175	78	71	2
58	Area irrigated in these enterprises....1939...acres	94	1,606	108	102,028	8,770	12,980	(1)
59	Cost of maintenance and operation....1939...dollars	113	15,787	450	142,380	856	12,799	(1)
60	Average cost, per acre irrigated....1939...dollars	1.20	9.83	4.17	1.40	0.10	0.99	(1)
61	1929...dollars	.....	.....	.....	2.25	.....	0.73	.....
62	Total annual charges (reported)[3] [4]....1939...dollars	10	4,217	.....	155,687	.....	7,606	.....
63	Average annual charge per acre irrigated....1939...dollars	1.00	20.57	.....	1.77	.....	0.64	.....
64	Area against which charges were assessed....1939...acres	10	205	.....	99,635	.....	12,570	.....
65	Average annual charge per acre assessed....1939...dollars	1.00	20.57	.....	1.56	.....	0.61	.....
66	Total charges collected[3]....1939...dollars	.....	2,699	.....	156,410	.....	4,781	2,648
67	Indebtedness to December 31 (reported)[4]....1939...dollars	.....	.....	.....	11,081,889	.....	7,000	10,550
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	.....	124	24	178	81	72	3
69	Area irrigated in these enterprises....1939...acres	.....	1,560	111	97,308	28,547	12,559	6,880
70	Water delivered in these enterprises....1939...acre-feet	.....	3,269	79	354,161	102,833	24,990	5,360
71	Average water delivered per acre irrigated....1939...acre-feet	.....	2.1	0.7	3.6	3.6	2.0	0.8
72	Average cost of water per acre irrigated....1939...dollars	.....	10.18	3.16	1.63	0.10	1.19	0.10
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	1	15	6	4	.....	1	.....
74	Irrigable area in these enterprises....1939...acres	(1)	173	65	94,981	.....	(1)	.....
75	Irrigated area in these enterprises....1939...acres	(1)	120	35	56,830	.....	(1)	.....
76	Area for which drains have been installed....1939...acres	(1)	65	23	1,167	.....	(1)	.....
77	Additional area needing drainage....1939...acres	.....	10	12	6,072	.....	(1)	.....

[a] Census of Agriculture.
[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

irrigation data omitted from any of the counties listed are included under "All other counties"]

Lewis	Lincoln	Mason	Okanogan	Pacific	Pend Oreille	Pierce	Skagit	Snohomish	Spokane	Stevens	Thurston	
3,941	1,269	769	2,397	710	657	5,622	3,242	6,231	4,999	2,537	2,876	1
3,380	1,497	452	2,326	570	613	4,696	2,721	4,262	4,268	2,633	2,082	2
61	26	22	1,500	36	82	484	14	17	1,101	224	223	3
8	47	12	1,313	.....	38	58	8	27	696	236	141	4
662.5	-44.7	83.3	14.2	.....	115.6	734.5	75.0	-37.0	58.2	-5.1	58.2	5
58	21	20	1,326	35	69	402	12	13	952	181	203	6
.....	38	.....	1,198	.....	33	.....	.....	.....	636	191	134	7
3	5	2	174	1	13	82	2	4	149	43	20	8
.....	9	.....	115	.....	5	.....	.....	.....	60	45	7	9
274,275	1,317,436	43,995	954,264	64,509	116,146	162,747	152,758	188,304	828,880	519,215	177,885	10
4,737	39,241	2,578	334,660	3,861	17,548	15,152	1,733	1,098	34,900	55,836	13,266	11
78	1,509	117	223	107	214	31	124	65	32	249	59	12
4,520	32,020	(1)	315,969	(1)	14,206	11,644	(1)	858	27,757	43,447	12,257	13
78	1,525	(1)	238	(1)	206	29	(1)	66	29	240	60	14
217	7,221	(1)	18,691	(1)	3,342	3,508	(1)	240	7,143	12,389	1,009	15
72	1,444	(1)	107	(1)	257	43	(1)	60	48	288	50	16
1,566,080	1,482,880	618,880	3,388,800	592,000	899,840	1,075,200	1,110,400	1,344,000	1,128,320	1,613,440	460,160	17
467	1,323	107	32,809	206	1,654	4,035	158	102	16,652	5,379	3,261	18
310	1,123	60	30,371	151	1,232	2,622	105	72	15,889	4,862	2,120	19
.....	.....	.....	178	.....	5	.....	.....	.....	285	6	.....	20
157	200	47	2,260	55	417	1,413	53	30	478	511	1,141	21
.....	1,430	.....	36,248	.....	896	.....	.....	.....	18,249	3,077	3,033	22
.....	2,221	.....	35,899	.....	.....	.....	.....	.....	16,154	8,990	.....	23
.....	-7.5	.....	-9.5	.....	84.6	.....	.....	.....	-8.8	74.8	7.5	24
1,107	1,799	348	44,661	251	3,626	12,028	284	133	19,481	6,977	4,768	25
.....	1,895	.....	60,681	.....	3,334	.....	.....	.....	37,992	5,186	5,033	26
.....	3,291	.....	71,760	.....	.....	.....	.....	.....	39,458	28,605	.....	27
640	476	241	11,852	45	1,972	7,993	126	31	2,829	1,598	1,507	28
.....	465	.....	24,433	.....	2,438	.....	.....	.....	19,743	2,109	2,000	29
951	1,666	193	40,235	249	2,612	10,480	284	131	19,305	6,589	4,489	30
.....	1,695	.....	50,011	.....	2,705	.....	.....	.....	30,254	3,602	5,033	31
.....	2,838	.....	52,315	.....	.....	.....	.....	.....	20,995	18,238	.....	32
.....	-1.7	.....	-19.5	.....	-3.4	.....	.....	.....	-36.2	82.9	-10.8	33
484	343	86	7,426	43	958	6,445	126	29	2,653	1,210	1,228	34
.....	265	.....	13,763	.....	1,809	.....	.....	.....	12,005	525	2,000	35
9.9	3.4	4.2	9.8	5.3	9.4	26.6	9.1	9.3	47.7	9.6	24.6	36
.....	1.9	.....	17.6	.....	8.8	.....	.....	.....	74.0	6.1	61.0	37
49.1	79.4	55.4	81.5	82.7	63.3	38.5	55.6	77.9	86.3	81.6	72.6	38
.....	84.4	.....	72.5	.....	33.1	.....	.....	.....	60.3	85.4	60.3	39
27,139	8,573	7,910	4,372,245	13,505	67,767	207,050	7,805	10,061	2,386,456	140,920	274,057	40
26,857	8,573	7,820	4,340,317	13,505	67,005	206,440	7,780	10,021	2,374,726	139,001	273,770	41
282	.....	90	31,928	.....	762	610	25	40	11,730	1,919	287	42
.....	33,615	.....	4,165,746	.....	50,956	.....	.....	.....	1,346,735	476,384	226,250	43
.....	87,431	.....	2,874,338	.....	.....	.....	.....	.....	1,668,838	641,580	.....	44
.....	-74.5	.....	5.0	.....	33.0	.....	.....	.....	77.2	-70.4	21.1	45
28.54	5.15	40.98	108.67	54.24	25.94	19.76	27.48	76.80	123.62	21.39	61.05	46
.....	19.83	.....	83.30	.....	18.84	.....	.....	.....	44.51	132.26	44.95	47
.....	30.81	.....	54.94	.....	.....	.....	.....	.....	79.49	35.18	.....	48
58.11	6.48	73.93	133.26	65.56	40.97	51.31	49.40	98.64	143.31	26.20	84.04	49
33,014	11,883	13,285	4,659,422	14,005	68,692	210,410	8,155	10,061	2,487,046	145,296	451,592	50
.....	34,115	.....	4,489,856	.....	51,381	.....	.....	.....	1,374,635	639,219	226,250	51
.....	88,431	.....	4,797,308	.....	.....	.....	.....	.....	2,699,388	1,002,330	.....	52
.....	-65.2	.....	3.8	.....	33.7	.....	.....	.....	80.9	-77.3	99.6	53
29.82	6.61	38.18	104.33	55.80	18.94	17.49	28.71	75.65	127.67	20.82	94.71	54
.....	18.00	.....	73.99	.....	15.41	.....	.....	.....	36.18	123.26	44.95	55
.....	26.87	.....	66.85	.....	.....	.....	.....	.....	68.41	35.04	.....	56
			Primary Enterprises	Sup.								
36	20	16	406	7	28	46	263	9	10	80	166	37	57
467	1,323	107	32,132	208	203	1,286	3,988	151	102	16,348	4,829	3,257	58
2,075	1,370	361	141,399	929	1,856	1,188	23,607	766	660	121,230	4,915	10,236	59
4.44	1.04	3.37	4.40	4.47	9.14	0.92	5.92	5.07	6.47	7.42	1.02	3.14	60
.....	4.26	.....	8.78	.....	.....	0.81	.....	.....	.....	6.40	5.72	5.68	61
.....	.....	.....	124,325	.....	.....	79	7,695	.....	.....	147,323	151	11,851	62
.....	.....	.....	5.81	.....	.....	0.46	14.80	.....	.....	9.57	0.20	3.95	63
.....	.....	.....	24,709	.....	.....	790	520	.....	.....	16,830	755	5,267	64
.....	.....	.....	5.03	.....	.....	0.10	14.80	.....	.....	8.75	0.20	2.25	65
.....	.....	.....	129,788	.....	.....	.....	7,695	.....	.....	142,640	150	12,000	66
.....	.....	.....	821,082	.....	.....	.....	.....	.....	.....	681,066	.....	138,500	67
34	18	16	423	6	27	57	266	9	7	87	189	38	68
467	1,073	107	29,830	88	204	1,654	3,967	148	71	16,652	5,322	3,261	69
369	2,238	76	159,774	253	152	3,021	3,069	106	261	77,370	10,191	9,150	70
0.8	2.1	0.7	5.4	2.9	0.7	1.8	0.8	0.7	3.7	4.6	1.9	2.8	71
4.40	0.72	3.37	5.82	9.33	9.09	0.97	5.96	5.43	7.17	9.47	1.00	4.17	72
.....	1	2	4	.....	4	2	19	3	4	1	5	3	73
.....	(1)	(1)	2,496	.....	12	(1)	440	80	53	(1)	425	4,128	74
.....	(1)	(1)	1,694	.....	10	(1)	358	15	42	(1)	296	3,011	75
.....	.....	(1)	22	.....	10	(1)	36	40	42	(1)	.....	5	76
.....	(1)	.....	217	.....	.....	(1)	39	.....	9	(1)	92	201	77

[3] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[4] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

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COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Walla Walla		Whatcom	Whitman	Yakima		All other counties[1]
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number	1,420		4,703	2,537	6,606		1,277
2	1930...number	1,498		4,282	2,631	6,806		1,138
3	Irrigated farms....1940...number	659		36	46	6,231		12
4	1930...number	682		18	45	6,507		31
5	Increase or decrease (-), 1930-40....percent	-3.4		100.0	2.2	-4.2		-61.3
6	Operated by—(a) Owners and managers....1940...number	469		30	37	4,636		11
7	1930...number	516		.....	38	4,935		250
8	(b) Tenants....1940...number	190		6	9	1,595		1
9	1930...number	166		.....	7	1,572		50
10	Land in all farms....1940...acres	726,971		196,750	1,351,907	932,495		128,444
11	Land in irrigated farms....1940...acres	82,987		2,886	72,359	414,277		1,417
12	Average per farm....1940...acres	126		80	1,573	66		118
13	(a) Operated by owners and managers....1940...acres	62,926		2,489	71,403	307,159		(2)
14	Average per farm....1940...acres	134		83	1,930	66		(2)
15	(b) Operated by tenants....1940...acres	20,061		397	956	107,118		(2)
16	Average per farm....1940...acres	106		66	106	67		(2)
17	Approximate land area....1940...acres	824,320		1,376,640	1,386,880	2,734,720		1,354,880
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres	20,363		528	1,419	289,584		.....
19	(a) Cropland harvested....1939...acres	16,011		463	1,215	240,187		.....
20	(b) Crop failure....1939...acres	536		.....	55	2,355		.....
21	(c) Pasture....1939...acres	3,816		65	149	47,042		.....
22	Area irrigated....1929...acres	18,921		.....	1,913	254,055		957
23	1919...acres	23,575		.....	2,099	230,033		2,778
24	Increase or decrease (-), 1929-1939....percent	7.6		.....	-25.8	14.0		.....
25	Irrigable area in enterprises....1940...acres	24,700		1,140	1,901	381,473		.....
26	1930...acres	22,465		.....	2,340	475,530		1,570
27	1920[3]...acres	45,303		.....	4,138	309,235		10,014
28	Excess of irrigable area over the area irrigated...1940...acres	4,337		612	482	91,889		.....
29	1930...acres	3,544		.....	427	221,475		613
30	Area works were capable of supplying with water...1940...acres	23,472		1,024	1,791	335,367		.....
31	1930...acres	20,453		.....	2,083	299,991		1,280
32	1920...acres	39,040		.....	2,536	242,726		7,315
33	Increase or decrease (-), 1930-1940....percent	14.8		.....	-14.0	11.8		.....
34	Excess, capability of works over area irrigated...1940...acres	3,109		496	372	45,783		.....
35	1930...acres	1,532		.....	170	45,936		323
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	24.5		18.3	2.0	69.9		.....
37	1929...percent	23.6		.....	6.2	61.6		6.8
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	86.8		51.6	79.2	86.3		.....
39	1929...percent	92.5		.....	91.8	84.7		74.8
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars	593,634		27,116	107,592	23,256,428		.....
41	(a) Cost of irrigation works and equipment....1940...dollars	543,749		26,970	107,482	22,885,436		.....
42	(b) Investment in water rights (reported)....1940...dollars	49,885		146	110	370,992		.....
43	Total investment in all enterprises....1930...dollars	575,916		.....	95,520	15,215,018		86,190
44	1920...dollars	990,667		.....	225,933	8,897,058		248,934
45	Increase or decrease (-), 1930-1940....percent	3.1		.....	12.6	52.9		.....
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	25.29		26.48	60.07	69.34		.....
47	1930...dollars	28.16		.....	45.86	50.72		67.34
48	1920...dollars	25.38		.....	89.09	36.65		34.03
49	Average investment per acre irrigated....1939...dollars	29.15		51.36	75.82	80.31		.....
50	Estimated final investment in existing enterprises...1940...dollars	597,116		31,586	113,642	24,129,413		.....
51	1930...dollars	587,966		.....	102,520	23,356,538		96,015
52	1920...dollars	1,340,767		.....	237,533	10,670,024		291,734
53	Increase or decrease (-), 1930-1940....percent	1.6		.....	10.8	3.3		.....
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	24.18		27.71	59.78	63.25		.....
55	1930...dollars	26.17		.....	43.81	49.12		61.16
56	1920[3]...dollars	29.60		.....	57.40	34.50		29.13
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises			Primary Enterprises	Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number	257	5	33	43	425	27	.....
58	Area irrigated in these enterprises....1939...acres	19,631	101	512	1,344	288,885	1,117	.....
59	Cost of maintenance and operation....1939...dollars	28,500	236	2,100	7,666	506,922	3,872	.....
60	Average cost, per acre irrigated....1939...dollars	1.45	2.34	4.10	5.70	1.75	3.47	.....
61	1929...dollars	2.99	.....	.....	8.64	1.98	.....	12.01
62	Total annual charges (reported)[4] [5]....1939...dollars	23,829	.....	75	.....	542,167	.....	.....
63	Average annual charge per acre irrigated....1939...dollars	1.87	.....	1.00	.....	1.99	.....	.....
64	Area against which charges were assessed....1939...acres	13,333	.....	75	.....	294,392	.....	.....
65	Average annual charge per acre assessed....1939...dollars	1.79	.....	1.00	.....	1.84	.....	.....
66	Total charges collected[4]....1939...dollars	23,795	.....	100	.....	167,643	.....	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars	68,306	.....	.....	.....	6,197,982	828,878	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number	270	7	29	45	430	28	.....
69	Area irrigated in these enterprises....1939...acres	19,588	126	493	1,419	286,926	143,493	.....
70	Water delivered in these enterprises....1939...acre-feet	79,747	297	511	3,674	1,298,540	572,442	.....
71	Average water delivered per acre irrigated....1939...acre-feet	4.1	2.4	1.0	2.6	4.5	4.0	.....
72	Average cost of water per acre irrigated....1939...dollars	1.81	2.34	4.35	5.70	2.05	3.47	.....
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number	1	.....	3	2	17	.....	.....
74	Irrigable area in these enterprises....1939...acres	(2)	.....	268	(2)	301,426	.....	.....
75	Irrigated area in these enterprises....1939...acres	(2)	.....	102	(2)	213,982	.....	.....
76	Area for which drains have been installed....1939...acres	.....	.....	152	(2)	170,996	.....	.....
77	Additional area needing drainage....1939...acres	(2)	.....	.....	.....	10,350	.....	.....

*Census of Agriculture. [1]Data between census years not comparable (see headnote). [2]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census. [3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Adams	Asotin	Benton	Chelan	Clallam	Clark	Columbia
	FARM VALUES, 1940[c]								
1	Land and buildings, all farms....dollars..	593,366,445	20,904,693	4,679,465	7,875,658	13,745,699	5,652,448	21,455,133	13,280,553
2	Land and buildings, irrigated farms....dollars..	121,212,949	338,220	1,552,929	5,596,883	12,774,521	1,011,875	1,205,650	966,530
	Operated by—								
3	(a) Owners and managers....dollars..	100,900,376	321,270	1,399,129	4,718,268	12,081,698	892,525	931,350	933,080
4	(b) Tenants....dollars..	20,312,573	16,950	153,800	878,615	692,823	119,350	274,300	33,450
5	Average, land and buildings, per farm....dollars..	6,955.87	22,548.00	4,705.85	3,691.88	7,192.86	9,369.21	9,133.71	10,505.76
6	per acre in farms....dollars..	57.50	8.80	20.02	73.63	116.81	133.49	136.93	16.31
7	Buildings, irrigated farms reporting value....number...	17,135	14	328	1,490	1,736	107	131	90
8	Total reported....dollars..	36,111,810	19,096	578,295	1,864,271	1,321,899	283,340	343,210	190,750
9	Average, per irrigated farm reporting....dollars..	2,107.49	1,364.00	1,763.09	1,251.19	2,489.57	2,648.04	2,619.92	2,119.44
10	per acre on all irrigated farms....dollars..	17.13	0.50	7.46	24.53	39.52	37.38	38.98	3.22
11	Buildings, nonirrigated farms reporting value....number...	53,475	625	207	147	294	1,108	4,355	121
12	Total reported....dollars..	118,408,326	2,099,602	449,410	242,237	312,589	1,617,585	7,368,578	1,267,420
13	Average, per nonirrigated farm reporting....dollars..	1,865.43	3,359.36	2,171.06	1,647.87	1,063.23	1,459.91	1,691.98	3,010.50
14	per acre on all nonirrigated farms....dollars..	9.06	2.27	1.78	0.55	4.39	25.57	36.80	4.29
15	Implements and machinery, irrigated farms reporting value..number...	15,795	14	221	1,419	1,642	89	113	82
16	Total reported....dollars..	13,082,573	21,955	127,783	686,950	1,382,838	85,598	118,134	68,785
17	Average, per irrigated farm reporting....dollars..	828.27	1,568.21	578.20	484.11	842.17	961.78	1,045.43	838.84
18	per acre, on all irrigated farms....dollars..	6.21	0.57	1.65	9.04	12.64	11.29	13.42	1.16
19	Implements and machinery, nonirrigated farms reporting value....number...	52,562	619	195	138	234	763	3,711	390
20	Total reported....dollars..	43,018,574	2,531,076	360,825	403,327	94,009	354,763	1,425,352	962,636
21	Average, per acre, on all nonirrigated farms....dollars..	3.29	2.74	1.43	0.91	1.32	5.61	7.12	3.26
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	[1]4,125	12	26	134	509	13	104	56
23	1930...number....	[1]2,989	20	19	191	545	8	12	67
24	1920...number....	2,692	26	21	146	379	7	.....	52
25	Average size of enterprise based on irrigable area....1940...acres....	203	72	158	463	83	1,622	16	55
26	1930...acres....	306	68	264	286	75	2,518	.....	43
27	1920[2]...acres....	311	67	223	493	172	1,809	.....	68
28	Diversion dams....1940...number....	1,755	4	36	3	172	5	43	42
29	Main canals and laterals....1940...length, miles....	4,248.6	9.3	28.7	208.7	276.7	84.5	6.8	27.3
30	1930...length, miles....	3,635	18	3	209	331	99	.....	22
31	1920...length, miles....	[3]5,615	27	16	336	424	68	.....	51
32	1940...capacity, c.f.s.[4]....	15,104	12	67	727	1,269	401	61	104
33	1930...capacity, c.f.s.[4]....	14,987	19	6	2,072	895	414	.....	63
34	1920...capacity, c.f.s.[4]....	16,242	203	39	982	1,100	570	.....	697
35	Pipe lines[6]....1940...length, miles....	2,612.7	3.6	52.5	233.7	645.9	2.7	31.8	2.6
36	Storage dams....1940...number....	125	.....	.....	.....	28	.....	4	.....
37	Reservoirs....1940...number....	114	.....	1	.....	23	.....	1	.....
38	1930...number....	78	.....	2	.....	21	.....	.....	.....
39	1920...number....	205	4	1	.....	36	.....	.....	1
40	1940...capacity, acre-feet..	1,165,527	.....	(6)	.....	8,127	.....	(6)	.....
41	1930...capacity, acre-feet..	699,807	.....	83	.....	12,783	.....	.....	.....
42	1920...capacity, acre-feet..	477,789	4	100	.....	11,481	.....	.....	1
43	Wells, flowing....1940...number....	50	1	.....	7	.....	.....	8	.....
44	1930...number....	42	1	.....	9	4	.....	.....	.....
45	1920...number....	60	6	.....	7	1	.....	.....	.....
46	1940...yield, g.p.m.....	21,192	(6)	.....	2,700	.....	.....	20	.....
47	1930...yield, g.p.m.....	27,290	100	.....	11,900	90	.....	.....	.....
48	1920...yield, g.p.m.....	14,925	160	.....	6,200	10	.....	.....	.....
49	Wells, pumped....1940...number....	1,041	3	.....	80	60	.....	39	2
50	1930...number....	1,019	7	.....	143	98	.....	.....	.....
51	1920...number....	520	7	.....	101	13	.....	.....	4
52	1940...yield, g.p.m.....	287,327	1,130	.....	22,540	4,422	.....	5,825	(6)
53	1930...yield, g.p.m.....	306,800	6,240	.....	41,230	10,109	.....	.....	.....
54	1920...yield, g.p.m.....	227,744	5,160	.....	38,807	1,775	.....	.....	130
55	Pumping plants....1940... mber....	2,487	4	3	142	350	1	65	2
56	1930...number....	1,951	6	6	201	399	.....	.....	3
57	1920...number....	975	12	1	144	138	.....	.....	7
58	Prime movers....1940...capacity, hp.....	37,131	44	440	3,383	5,363	(6)	308	(6)
59	1930...capacity, hp.....	33,187	73	221	4,489	4,722	.....	.....	17
60	1920...capacity, hp.....	22,929	143	5	4,555	1,415	.....	.....	23
61	Pumps....1940...capacity, g.p.m.....	953,751	1,730	4,250	117,932	62,170	(6)	10,914	(6)
62	1930...capacity, g.p.m.....	993,303	6,225	2,505	220,012	80,489	.....	.....	1,203
63	1920...capacity, g.p.m.....	636,552	10,042	200	163,628	45,853	.....	.....	355
64	Pumping lift, from all sources....1940...average, feet.....	47	50	166	35	92	(6)	14	(6)
65	1930...average, feet.....	59	31	131	37	89	.....	.....	14
66	1920...average, feet.....	60	28	8	37	86	.....	.....	18
67	from pumped wells....1940...average, feet.....	43	61	.....	35	45	.....	15	(6)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]								
68	Enterprises reporting pay roll....number...	205	.....	2	8	37	8	.....	3
69	Irrigated area in these enterprises....acres....	499,904	.....	(6)	34,616	24,857	10,829	.....	317
70	Wages and salaries paid and payable....dollars..	784,904	.....	(6)	77,349	77,655	12,667	.....	445
71	Persons employed during week ending April 29....number...	937	.....	(6)	78	111	72	.....	1

[c] Census of Agriculture. [1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Not revised. [4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources. [5] Includes siphons and farm pipe lines reported. [6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [7] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920

	ITEM (For definitions and explanations, see text)	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant	Grays Harbor	Island
	FARM VALUES, 1940*								
1	Land and buildings, all farms....dollars..	7,961,384	14,049,914	2,164,155	6,686,351	9,628,627	9,517,678	8,219,565	4,513,110
2	Land and buildings, irrigated farms....dollars..	427,400	3,335,289	624,930	897,800	1,006,000	1,417,607	559,850	40,000
	Operated by—								
3	(a) Owners and managers....dollars..	279,500	3,112,064	525,000	825,200	715,200	1,116,552	522,150	40,000
4	(b) Tenants....dollars..	147,900	223,225	99,930	72,600	290,800	301,055	37,700	.....
5	Average, land and buildings, per farm....dollars..	15,264.29	6,963.03	5,387.33	4,651.81	25,150.00	8,805.01	4,826.29	5,000.00
6	per acre in farms....dollars..	116.02	68.60	15.42	41.55	15.95	18.15	77.43	161.94
7	Buildings, irrigated farms reporting value....number...	28	464	113	184	40	159	115	8
8	Total reported....dollars..	89,100	958,121	143,750	322,395	108,150	319,964	244,100	17,650
9	Average, per irrigated farm reporting....dollars..	3,182.14	2,064.92	1,272.12	1,752.15	2,703.75	2,012.35	2,122.61	2,206.25
10	per acre on all irrigated farms....dollars..	24.19	19.71	3.55	14.92	1.71	4.10	33.76	71.46
11	Buildings, nonirrigated farms reporting value....number...	1,881	712	426	153	287	426	1,789	1,022
12	Total reported....dollars..	2,477,905	1,144,291	335,025	582,230	944,318	952,062	2,919,457	1,683,145
13	Average, per nonirrigated farm reporting....dollars..	1,317.33	1,607.15	786.44	3,805.42	3,290.31	2,234.89	1,631.89	1,646.91
14	per acre on all nonirrigated farms....dollars..	22.78	1.39	1.59	1.37	2.98	1.45	24.96	30.76
15	Implements and machinery, irrigated farms reporting value..number...	28	393	113	177	39	145	87	4
16	Total reported....dollars..	43,025	432,438	70,115	126,270	79,715	133,233	62,017	1,100
17	Average, per irrigated farm reporting....dollars..	1,536.61	1,100.35	620.49	713.39	2,043.97	918.85	712.84	275.00
18	per acre, on all irrigated farms....dollars..	11.68	8.89	1.73	5.84	1.26	1.71	8.58	4.45
19	Implements and machinery, nonirrigated farms reporting value....number...	1,691	694	385	148	286	404	1,597	671
20	Total reported....dollars..	671,906	1,714,621	150,972	727,443	865,821	969,296	800,304	364,541
21	Average, per acre, on all nonirrigated farms....dollars..	6.18	2.08	0.72	1.71	2.73	1.48	6.84	6.66
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises....1940...number....	28	191	89	62	37	155	123	3
23	1930...number....	.....	206	35	60	34	175	1	1
24	1920...number....	.....	86	45	48	36	172	.....	.....
25	Average size of enterprise based on irrigable area....1940...acres....	41	59	30	82	22	48	11	15
26	1930...acres....	.....	51	167	80	24	52	.....	.....
27	1920[2]...acres....	.....	102	165	297	47	74	.....	.....
28	Diversion dams....1940...number....	3	9	60	.....	12	31	3	2
29	Main canals and laterals....1940...length, miles....	1.1	18.2	52.4	19.1	4.0	15.2	1.0	1.0
30	1930...length, miles....	.....	28	11	8	.....	11	.....	.....
31	1920...length, miles....	.....	26	32	10	18	45	.....	.....
32	1940...capacity, c.f.s.[3]....	19	125	101	122	42	183	89	2
33	1930...capacity, c.f.s.[3]....	.....	87	17	71	.....	267	.....	.....
34	1920...capacity, c.f.s.[3]....	.....	48	119	121	97	113	.....	.....
35	Pipe lines[4]....1940...length, miles....	5.7	244.5	3.7	68.8	5.1	41.8	14.6	.....
36	Storage dams....1940...number....	3	6	.....	.....	.....	7	.....	1
37	Reservoirs....1940...number....	1	5	.....	1	.....	4	2	.....
38	1930...number....	.....	4	1	1	.....	6	.....	.....
39	1920...number....	.....	8	2	2	1	18	.....	.....
40	1940...capacity, acre-feet..	(1)	56	.....	(1)	.....	41,276	(1)	.....
41	1930...capacity, acre-feet..	.....	5	1	50	.....	74	.....	.....
42	1920...capacity, acre-feet..	.....	.....	151	2	.....	4,519	.....	.....
43	Wells, flowing....1940...number....	.....	.....	.....	.....	.....	1	.....	.....
44	1930...number....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number....	.....	2	1	.....	.....	.....	.....	.....
46	1940...yield, g.p.m....	.....	.....	.....	.....	.....	(1)	.....	.....
47	1930...yield, g.p.m....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	.....	190	1,000	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	8	96	.....	39	.....	122	9	1
50	1930...number....	.....	112	.....	28	1	136	.....	.....
51	1920...number....	.....	22	3	31	1	132	.....	.....
52	1940...yield, g.p.m....	480	21,644	.....	11,255	.....	46,379	435	(1)
53	1930...yield, g.p.m....	.....	43,221	.....	8,875	60	45,251	.....	.....
54	1920...yield, g.p.m....	.....	6,865	1,000	13,080	250	39,779	.....	.....
55	Pumping plants....1940...number....	28	195	1	84	12	164	106	1
56	1930...number....	.....	204	.....	65	16	170	.....	.....
57	1920...number....	.....	55	3	50	7	164	.....	.....
58	Prime movers....1940...capacity, hp....	326	2,515	(1)	1,361	165	1,706	302	(1)
59	1930...capacity, hp....	.....	2,932	.....	1,200	284	2,650	.....	.....
60	1920...capacity, hp....	.....	1,452	9	1,100	242	3,084	.....	.....
61	Pumps....1940...capacity, g.p.m....	6,801	44,024	(1)	48,476	7,865	71,419	7,659	(1)
62	1930...capacity, g.p.m....	.....	69,258	.....	97,265	5,594	81,925	.....	.....
63	1920...capacity, g.p.m....	.....	38,760	153	36,478	7,750	76,924	.....	.....
64	Pumping lift, from all sources....1940...average, feet....	12	77	(1)	35	47	57	9	(1)
65	1930...average, feet....	.....	72	.....	34	48	74	.....	.....
66	1920...average, feet....	.....	95	12	48	76	79	.....	.....
67	from pumped wells....1940...average, feet....	25	67	.....	33	.....	63	23	(1)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]								
68	Enterprises reporting pay roll....number...	.....	6	.....	1	.....	1	.....	.....
69	Irrigated area in these enterprises....acres....	.....	4,116	.....	(1)	.....	.....	.....	.....
70	Wages and salaries paid and payable....dollars..	.....	13,053	.....	(1)	.....	(1)	.....	.....
71	Persons employed during week ending April 29....number...	.....	18	.....	(1)	.....	.....	.....	.....

*Census of Agriculture.

[1] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.

[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Irrigation data omitted from any of the counties listed are included under "All other counties"]

Jefferson	King	Kitsap	Kittitas	Klickitat	Lewis	Lincoln	Mason	Okanogan	Pacific	Pend Oreille	Pierce	Skagit	Snohomish	
2,423,945	30,654,050	7,698,910	11,466,858	8,805,923	17,239,694	33,897,094	2,880,845	12,370,077	3,139,904	2,226,878	25,981,561	20,160,915	28,520,393	1
101,250	1,583,002	207,800	10,663,324	1,474,153	511,400	375,220	164,135	8,356,567	307,575	418,450	4,290,653	397,900	247,400	2
(1)	1,066,802	193,300	8,222,354	1,215,253	498,200	320,620	(1)	7,718,293	(1)	349,450	3,465,153	(1)	175,400	3
(1)	516,200	14,500	2,440,970	258,900	13,200	54,600	(1)	638,274	(1)	69,000	825,500	(1)	72,000	4
5,955.88	8,287.97	6,111.76	9,928.61	6,522.80	8,383.61	14,431.54	7,460.68	5,571.04	8,543.75	5,103.05	8,864.99	28,421.43	14,552.94	5
56.03	362.91	208.22	35.29	24.51	107.96	9.56	63.67	24.97	79.66	23.85	283.17	229.60	225.32	6
16	185	34	1,057	224	61	26	22	1,465	32	81	478	14	17	7
34,700	497,122	102,900	2,909,401	387,396	190,275	73,700	58,565	2,385,605	86,450	131,850	1,623,716	103,501	72,700	8
2,168.75	2,687.15	3,026.47	2,752.51	1,729.40	3,119.26	2,834.62	2,662.95	1,628.40	2,701.56	1,627.78	3,396.90	7,392.93	4,276.47	9
19.20	113.97	103.11	9.63	6.44	40.17	1.88	22.72	7.13	22.39	7.51	107.16	59.72	66.21	10
499	5,522	2,058	118	866	3,847	1,211	741	867	666	566	5,097	3,191	6,192	11
825,275	11,598,886	3,728,300	197,310	1,533,811	5,885,880	3,703,644	1,071,875	823,763	1,079,420	532,044	9,545,599	6,501,316	11,094,228	12
1,653.86	2,100.49	1,811.61	1,672.12	1,771.14	1,529.99	3,058.34	1,446.52	950.13	1,620.75	940.01	1,872.79	2,037.39	1,791.70	13
20.09	78.16	82.49	1.20	2.28	21.84	2.90	25.88	1.33	17.80	5.40	64.67	43.05	59.26	14
17	168	29	1,010	215	56	25	21	1,344	30	76	413	14	16	15
10,304	170,519	18,137	1,437,468	157,998	65,411	39,108	15,832	988,821	34,148	54,026	327,582	26,324	27,800	16
606.12	1,014.99	625.41	1,423.24	734.87	1,168.05	1,564.32	753.90	735.73	1,138.27	710.87	793.18	1,880.29	1,737.50	17
5.70	39.09	18.17	4.76	2.63	13.81	1.00	6.14	2.95	8.84	3.08	21.62	15.19	25.32	18
436	3,997	1,458	111	815	3,155	1,198	663	771	535	470	3,699	2,344	5,032	19
201,320	1,881,165	440,706	80,014	845,130	1,355,079	3,864,360	250,191	538,927	253,807	161,742	1,292,108	1,424,437	1,957,732	20
4.90	12.68	9.75	0.49	1.26	5.03	3.02	6.04	0.87	4.18	1.64	8.75	9.43	10.46	21
14	128	40	267	81	36	20	16	438	29	57	287	10	10	22
7	32	6	72	72	3	19	2	498	.....	20	15	1	9	23
.....	.....	.....	223	93	.....	54	.....	383	.....	.....	.....	.....	.....	24
10	17	10	555	207	31	90	22	102	9	64	42	28	13	25
.....	.....	.....	1,707	282	.....	100	.....	122	.....	167	.....	.....	.....	26
.....	.....	.....	394	347	.....	61	.....	187	.....	.....	.....	.....	.....	27
15	10	4	387	81	1	22	10	171	.....	45	10	1	2	28
3.0	8.5	.....	570.8	80.6	0.2	18.1	3.2	515.6	.....	39.0	1.9	.....	.....	29
.....	.....	.....	334	62	.....	7	.....	409	.....	15	.....	.....	.....	30
.....	.....	.....	430	192	.....	31	.....	507	.....	.....	.....	.....	.....	31
19	130	27	2,542	424	26	25	16	1,422	7	90	170	4	6	32
.....	.....	.....	2,237	214	.....	12	.....	1,690	.....	81	.....	.....	.....	33
.....	.....	.....	1,788	842	.....	63	.....	1,851	.....	.....	.....	.....	.....	34
1.3	49.9	12.7	41.6	19.8	7.5	1.7	2.8	227.5	4.0	9.7	190.9	2.4	3.2	35
.....	1	3	4	5	2	2	1	21	.....	11	8	1	.....	36
.....	2	4	4	3	.....	.....	1	17	.....	11	8	3	.....	37
.....	.....	.....	3	4	.....	.....	.....	20	.....	1	.....	.....	.....	38
.....	.....	.....	7	18	.....	1	.....	49	.....	.....	.....	.....	.....	39
.....	(1)	4	827,720	31	.....	.....	(1)	49,639	.....	20	233	9	.....	40
.....	.....	.....	386,100	66	.....	.....	.....	52,459	.....	3,060	.....	.....	.....	41
.....	.....	.....	384,810	415	.....	.....	.....	30,789	.....	.....	.....	.....	.....	42
.....	1	3	1	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	45
.....	(1)	200	(1)	.....	.....	.....	.....	.....	.....	.....	(1)	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	50	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	31	12	5	5	14	3	.....	115	18	.....	113	12	2	49
.....	.....	.....	.....	7	.....	8	.....	204	.....	.....	.....	.....	.....	50
.....	.....	.....	1	2	.....	9	.....	52	.....	.....	.....	.....	.....	51
.....	3,344	377	2,450	1,010	453	1,300	.....	16,810	5,749	.....	5,554	990	(1)	52
.....	.....	.....	.....	1,049	.....	2,500	.....	29,420	.....	.....	.....	.....	.....	53
.....	.....	.....	200	24	.....	3,785	.....	13,613	.....	.....	.....	.....	.....	54
.....	113	25	13	25	36	5	2	298	23	3	196	10	6	55
.....	.....	.....	2	21	.....	11	.....	369	.....	.....	.....	.....	.....	56
.....	.....	.....	9	12	.....	20	.....	131	.....	.....	.....	.....	.....	57
.....	516	42	1,232	396	255	18	(1)	3,852	269	65	875	72	22	58
.....	.....	.....	137	212	.....	185	.....	5,035	.....	.....	.....	.....	.....	59
.....	.....	.....	193	104	.....	361	.....	1,885	.....	.....	.....	.....	.....	60
.....	21,171	1,227	29,017	13,693	4,280	1,583	(1)	75,392	6,924	1,800	21,994	1,927	1,193	61
.....	.....	.....	2,700	6,615	.....	5,170	.....	123,611	.....	.....	.....	.....	.....	62
.....	.....	.....	12,575	6,100	.....	11,805	.....	54,461	.....	.....	.....	.....	.....	63
.....	30	28	83	36	13	39	(1)	50	12	32	33	32	51	64
.....	.....	.....	135	41	.....	52	.....	50	.....	.....	.....	.....	.....	65
.....	.....	.....	24	46	.....	63	.....	43	.....	.....	.....	.....	.....	66
.....	30	24	34	24	24	49	.....	44	12	.....	37	42	(1)	67
.....	.....	.....	9	10	.....	.....	.....	25	.....	1	.....	.....	.....	68
.....	.....	.....	86,483	10,608	.....	.....	.....	20,566	.....	(1)	.....	.....	.....	69
.....	.....	.....	86,437	3,694	.....	.....	.....	51,492	.....	(1)	.....	.....	.....	70
.....	.....	.....	80	12	.....	.....	.....	123	.....	.....	.....	.....	.....	71

[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

[Counties for which 1920 data are not shown may have had irrigation in that year; 1930 and 1920 irrigation data omitted from any of the counties listed are included under "All other counties"]

	ITEM (For definitions and explanations, see text)	Spokane	Stevens	Thurston	Walla Walla	Whatcom	Whitman	Yakima	All other counties[1]
	FARM VALUES, 1940[a]								
1	Land and buildings, all farms.....dollars..	36,372,082	11,499,619	11,415,527	30,104,903	23,351,635	67,978,332	47,514,884	7,327,993
2	Land and buildings, irrigated farms.....dollars..	5,086,680	1,606,700	944,437	6,023,655	412,353	1,156,260	45,031,451	97,100
	Operated by—								
3	(a) Owners and managers.....dollars..	4,485,934	1,211,300	883,237	4,801,350	345,853	1,120,360	35,408,271	(2)
4	(b) Tenants.....dollars..	600,746	395,400	61,200	1,222,305	66,500	35,900	9,622,180	(2)
5	Average, land and buildings, per farm.....dollars..	4,620.05	7,172.77	4,235.14	9,140.60	11,454.25	25,136.09	7,227.00	8,091.67
6	per acre in farms.....dollars..	145.75	28.78	71.19	72.59	142.88	15.98	108.70	68.53
7	Buildings, irrigated farms reporting value.....number...	1,090	224	216	644	35	46	6,149	12
8	Total reported.....dollars..	2,757,121	430,850	401,150	1,460,155	128,841	151,260	12,288,651	31,800
9	Average, per irrigated farm reporting.....dollars..	2,529.47	1,923.44	1,857.18	2,267.32	3,681.17	3,288.26	1,998.48	2,650.00
10	per acre on all irrigated farms.....dollars..	79.00	7.72	30.24	17.59	44.64	2.09	29.66	22.44
11	Buildings, nonirrigated farms reporting value.....number...	3,851	2,286	2,640	745	4,626	2,422	360	1,251
12	Total reported.....dollars..	7,151,686	2,937,190	4,031,544	2,235,161	8,856,404	7,582,116	521,001	2,576,019
13	Average, per nonirrigated farm reporting.....dollars..	1,857.10	1,284.86	1,527.10	3,000.22	1,914.48	3,130.52	1,447.22	2,059.17
14	per acre on all nonirrigated farms.....dollars..	9.01	6.34	24.49	3.47	45.68	5.93	1.01	20.28
15	Implements and machinery, irrigated farms reporting value..number...	842	217	188	626	36	44	5,830	12
16	Total reported.....dollars..	409,273	162,156	97,546	572,656	67,629	87,595	4,865,204	7,080
17	Average, per irrigated farm reporting.....dollars..	486.07	747.26	518.86	914.79	1,878.58	1,990.80	834.51	590.00
18	per acre, on all irrigated farms.....dollars..	11.73	2.90	7.35	6.90	23.43	1.21	11.74	5.00
19	Implements and machinery, nonirrigated farms reporting value.....number...	3,385	2,126	2,310	709	3,778	2,273	297	1,074
20	Total reported.....dollars..	3,031,225	965,903	818,494	2,095,320	1,739,373	6,630,878	224,584	569,087
21	Average, per acre, on all nonirrigated farms.....dollars..	3.82	2.08	4.97	3.25	8.97	5.18	0.43	4.48
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940...number.....	90	192	38	285	35	45	465	.....
23	1930...number.....	99	112	4	341	13	43	221	26
24	1920...number.....	107	199	.....	280	.....	29	252	54
25	Average size of enterprise based on irrigable area.....1940...acres.....	216	36	125	87	33	42	820	.....
26	1930...acres.....	384	46	1,258	66	.....	54	2,152	.....
27	1920[3]..acres.....	369	144	.....	162	.....	143	1,227	185
28	Diversion dams.....1940...number.....	22	125	7	161	4	24	228	.....
29	Main canals and laterals.....1940...length, miles.....	110.1	78.9	50.7	144.7	.....	15.1	1,854.2	.....
30	1930...length, miles.....	25	59	51	135	.....	15	1,772	11
31	1920...length, miles.....	230	269	.....	1,148	.....	31	1,580	50
32	1940...capacity, c.f.s.[4]....	91	247	127	533	15	57	5,802	.....
33	1930...capacity, c.f.s.[4]....	289	78	100	391	.....	15	5,946	23
34	1920...capacity, c.f.s.[4]....	782	477	.....	959	.....	48	5,152	191
35	Pipe lines[5].....1940...length, miles.....	164.6	7.7	12.9	46.3	4.9	22.9	421.4	.....
36	Storage dams.....1940...number.....	5	3	.....	.....	.....	4	5	.....
37	Reservoirs.....1940...number.....	12	2	1	.....	.....	3	5	.....
38	1930...number.....	3	1	1	2	.....	.....	5	3
39	1920...number.....	32	7	.....	5	.....	.....	3	10
40	1940...capacity, acre-feet..	70	(2)	(2)	.....	.....	2	238,150	.....
41	1930...capacity, acre-feet..	1,607	90	35	2	.....	.....	243,387	5
42	1920...capacity, acre-feet..	5,663	800	.....	.....	.....	.....	39,000	54
43	Wells, flowing.....1940...number.....	.....	1	.....	13	1	7	4	.....
44	1930...number.....	.....	.....	.....	17	.....	6	4	.....
45	1920...number.....	.....	.....	.....	33	.....	5	3	1
46	1940...yield, g.p.m.....	.....	(2)	.....	7,495	(2)	7,025	601	.....
47	1930...yield, g.p.m.....	.....	.....	.....	10,600	.....	1,200	3,350	.....
48	1920...yield, g.p.m.....	.....	.....	.....	6,080	.....	1,000	285	.....
49	Wells, pumped.....1940...number.....	48	3	8	86	22	3	82	.....
50	1930...number.....	80	5	3	114	.....	3	48	22
51	1920...number.....	49	2	.....	45	.....	.....	43	3
52	1940...yield, g.p.m.....	79,463	65	383	19,901	6,089	530	28,189	.....
53	1930...yield, g.p.m.....	74,059	1,500	313	19,628	.....	540	19,203	3,602
54	1920...yield, g.p.m.....	58,646	45	.....	36,240	.....	.....	8,225	120
55	Pumping plants.....1940...number.....	83	11	22	126	30	35	267	.....
56	1930...number.....	93	7	3	166	.....	32	117	60
57	1920...number.....	75	9	.....	65	.....	11	51	11
58	Prime movers.....1940...capacity, hp.....	3,790	26	287	707	217	504	8,018	.....
59	1930...capacity, hp.....	3,732	42	18	955	.....	479	5,460	344
60	1920...capacity, hp.....	3,316	41	.....	2,775	.....	340	1,735	151
61	Pumps.....1940...capacity, g.p.m.....	78,402	2,200	3,450	35,697	9,520	13,885	245,156	.....
62	1930...capacity, g.p.m.....	69,934	2,105	313	31,169	.....	15,841	150,511	20,858
63	1920...capacity, g.p.m.....	79,688	9,156	.....	25,885	.....	8,434	47,002	1,303
64	Pumping lift, from all sources.....1940...average, feet.....	54	15	39	20	25	47	46	.....
65	1930...average, feet.....	76	38	80	24	.....	47	39	33
66	1920...average, feet.....	83	48	.....	24	.....	56	38	.....
67	from pumped wells.....1940...average, feet.....	71	28	48	22	22	32	55	.....
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll.....number...	15	1	1	24	.....	.....	53	.....
69	Irrigated area in these enterprises.....acres....	15,402	(2)	(2)	12,774	.....	.....	270,569	.....
70	Wages and salaries paid and payable.....dollars..	40,753	(2)	(2)	12,203	.....	.....	372,913	.....
71	Persons employed during week ending April 29.....number...	64	.....	(2)	39	.....	.....	302	.....

[a] Census of Agriculture.
[1] Data between census years not comparable (see headnote).
[2] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[5] Includes siphons and farm pipe lines reported.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

STATE TABLE 1.—IRRIGATION SUMMARY FOR THE STATE: 1890 TO 1940

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[8]62,403,840	62,430,720	62,430,720	62,430,720	62,460,160	62,460,160	62,460,160
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	15,018	17,487	16,011	15,748	10,987	6,095	3,125
Land in all farms.....acres....	28,025,979	28,161,911	23,525,234	11,809,351	8,543,010	8,124,536	1,830,432
Farms irrigated:[1]							
Farms.....number...	8,637	7,860	7,308	6,449	6,297	3,721	1,917
Increase or decrease (-) over preceding census....percent..	[2]18.2	.....	13.3	2.4	69.2	94.1	.....
Proportion of all farms.....percent..	57.5	44.9	45.6	41.0	57.3	61.1	61.3
Land in farms.....acres....	12,915,523	[3]	9,959,883	[3]	[3]	[3]	[3]
Proportion of all farm land.....percent..	46.1	[3]	42.3	[3]	[3]	[3]	[3]
Area irrigated.....acres....	[4]1,284,027	[5]773,930	[6]978,106	[7]	[7]	605,878	229,676
Increase or decrease (-) over preceding census....percent..	[2]31.3	.....	.....	.....	.....	163.8	.....
Proportion of total land area of State.....percent..	2.1	1.2	1.6	.....	.....	1.0	0.4
Proportion of all farm land.....percent..	4.3	2.7	4.2	.....	.....	7.5	12.5
Value of irrigated farms (land and buildings).....dollars..	106,524,175	[3]	120,208,187	[3]	[3]	[3]	[3]
Average per farm.....dollars..	12,333.47	[3]	16,448.85	[3]	[3]	[3]	[3]
Average per acre.....dollars..	8.25	[3]	12.07	[3]	[3]	[3]	[3]
Value of farm implements and machinery[8].....dollars..	10,873,844	[3]	9,483,869	[3]	[3]	[3]	[3]
Average per farm[8].....dollars..	1,258.98	[3]	1,297.74	[3]	[3]	[3]	[3]
Average per acre[8].....dollars..	0.84	[3]	0.95	[3]	[3]	[3]	[3]
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	3,385	[3]	2,631	3,564	5,577	[3]	[3]
Farms irrigated.....number...	11,527	[3]	[3]	[3]	[3]	[3]	[3]
Area irrigated.....acres....	1,486,498	[3]	1,236,155	1,207,982	1,133,302	[3]	[3]
Area existing works were capable of supplying with water.....acres....	1,913,527	[3]	1,655,008	1,831,039	1,639,510	[3]	[3]
Area irrigable.....acres....	2,277,046	[3]	1,958,147	[9]2,564,668	[9]2,224,298	[3]	[3]
Additional area existing works were capable of supplying with water.....acres....	427,029	[3]	418,853	623,057	506,208	[3]	[3]
Additional irrigable area in enterprises not supplied with water.....acres....	790,548	[3]	721,992	[9]1,356,686	[9]1,090,996	[3]	[3]
Investment in irrigation enterprises.....dollars..	41,522,801	[3]	35,153,187	34,326,328	17,700,980	3,973,165	831,427
Increase or decrease (-) over preceding census.....percent..	[2]18.1	[3]	2.4	93.9	345.5	377.9	.....
Average per acre based on area works were capable of supplying with water.....dollars..	21.70	[3]	21.24	18.75	10.80	[3]	[3]
Increase or decrease (-) over preceding census....percent..	[2]2.2	[3]	13.3	73.6	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	48,539,663	[3]	41,970,416	51,500,288	20,425,890	[3]	[3]
Average per acre based on irrigable area in enterprises.....dollars..	21.32	[3]	21.43	[9]20.08	[9]9.18	[3]	[3]
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	0.59	[3]	0.84	1.04	0.86	[3]	[3]

[1] Relates to farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; farms reporting irrigated crops, 1930, 1920, and 1910 Censuses; and farms reporting irrigated land, 1900 and 1890 Censuses. [2] Increase or decrease represented by 1940 figures are with reference to 1930 figures, not 1935. [3] Not available. [4] Irrigated land from which crops were harvested plus 264,374 acres of irrigated land used only for pasture. [5] Irrigated land from which crops were harvested. [6] Acreage of irrigated crops including some duplication where 2 or more crops were harvested from same land. [7] Data were secured for crops irrigated but the returns were considered relatively incomplete. [8] Total is for irrigated farms reporting this item. Averages are based on all irrigated farms. [9] For 1920 and 1910 relates to total area in enterprises. Irrigable areas for those years were not reported. [10] The land area shown for 1940 represents redeterminations by the Bureau of the Census and, therefore, differs from those shown for earlier years.

STATE TABLE 2.—CENSUS OF AGRICULTURE—NUMBER OF FARMS, FARM ACREAGE ACCORDING TO USE, AND SPECIFIED FARM VALUES FOR IRRIGATED AND NONIRRIGATED FARMS, BY TENURE OF OPERATOR, 1940

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	15,018	28,025,979	1,534,800	1,019,653	264,374	158,971,294	5.67	29,335,484	1.05	15,309,847	0.55
Owners and managers.....	11,380	25,482,074	1,210,366	808,952	236,470	133,488,006	5.24	24,463,620	0.96	11,999,304	0.47
Tenants.....	3,638	2,543,905	324,434	210,701	27,904	25,483,288	10.02	4,871,864	1.92	3,310,543	1.30
Irrigated farms, total.....	8,637	12,915,523	1,091,107	1,019,653	264,374	106,524,175	8.25	20,788,956	1.61	10,873,844	0.84
Owners and managers.....	6,427	11,959,992	868,052	808,952	236,470	88,316,333	7.38	17,261,091	1.44	8,364,039	0.70
Tenants.....	2,210	955,531	223,055	210,701	27,904	18,207,842	19.06	3,527,865	3.69	2,509,805	2.63
Wholly irrigated farms.....	7,252	10,595,812	916,123	916,123	232,997	87,203,069	8.23	17,123,152	1.62	9,092,087	0.86
Owners and managers.....	5,336	9,800,969	725,863	725,863	209,963	71,854,510	7.33	14,132,962	1.44	6,960,190	0.71
Tenants.....	1,916	794,843	190,260	190,260	23,034	15,348,559	19.31	2,990,190	3.76	2,131,897	2.68
Partly irrigated farms.....	1,385	2,319,711	174,984	103,530	31,377	19,321,106	8.33	3,665,804	1.58	1,781,757	0.77
Owners and managers.....	1,091	2,159,023	142,189	83,089	26,507	16,461,823	7.62	3,128,129	1.45	1,403,849	0.65
Tenants.....	294	160,688	32,795	20,441	4,870	2,859,283	17.79	537,675	3.35	377,908	2.35
Nonirrigated farms, total.....	6,381	15,110,456	443,693	.....	.....	52,447,119	3.47	8,546,528	0.57	4,436,003	0.29

[1] Does not include irrigated fallow land or land in young irrigated crops not harvested or in irrigated crops that failed.
[2] Based on all land in farms for each tenure group.

STATE TABLE 3.—NUMBER OF ENTERPRISES, IRRIGABLE AREA, AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1940; IRRIGATED AREA, 1939, 1929, AND 1919; WATER DELIVERED TO IRRIGATORS, 1939; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	3,385	2,277,046	1,913,527	1,486,498	1,236,155	1,207,982	20.3	1,360,506	1,418,031	1,298,355	2.1	0.69	0.32
Primary sources:													
Streams, gravity	2,887	2,167,185	1,842,092	1,430,647	1,173,763	1,155,596	21.9	1,306,099	1,365,992	1,247,682	2.1	0.63	0.30
Streams, pumped	99	12,032	10,938	7,860	9,489	1,525	-17.2	7,834	7,704	7,678	1.7	1.80	1.06
Streams, gravity and pumped	12	13,286	12,892	11,908	.....	.....	.....	11,908	10,194	10,194	0.9	0.14	0.16
Wells, pumped	64	[2] 4,232	[2] 3,775	3,008	180	147	([3])	3,008	2,751	2,751	1.9	4.61	2.43
Wells, flowing	20	890	791	459	140	19	227.9	436	261	241	1.2	2.09	1.73
Wells, pumped and flowing	1	([2])	([2])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	5	1,049	629	591	3,656	355	-83.9	571	586	566	1.1	1.25	1.10
Lakes, pumped	2				6	.....							
Springs	116	8,721	8,410	7,011	6,289	5,985	11.5	6,588	6,278	5,874	2.8	0.60	0.22
Springs and streams	43	23,250	22,988	16,504	.....	.....	.....	16,468	16,291	16,285	1.3	1.31	0.97
Stored storm water	32	3,123	2,591	947	974	10,852	-2.8	906	563	548	1.4	1.45	1.05
City water	2	152	152	152	.....	.....	133.8	152	150	150	0.4	0.23	0.52
Sewage	1				65	.....							
Streams, gravity; wells, pumped	6	2,701	2,681	2,650	137	400	([3])	1,775	2,650	1,775	0.8	1.19	1.48
Streams, gravity; wells, flowing	2				.....	.....							
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	3	180	180	160	.....	.....	.....	160	100	100	3.5	0.55	0.16
Other mixed	24	40,245	5,408	4,601	38,497	33,043	-88.0	4,601	4,511	4,511	1.0	0.92	0.88
Other and not reported	.....	.....	.....	.....	2,959	60	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]													
Streams, gravity and/or storage	61	162,436	160,116	90,656	.....	.....	.....	64,821	88,489	64,302	0.8	0.28	0.35
Streams, pumped	4	2,974	2,974	2,925	.....	.....	.....	2,925	2,925	2,925	1.6	4.89	3.08
Wells, pumped	1				.....	.....	.....						
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on enterprises reporting both quantity and cost of water, assuming (a) that for enterprises serving 1 to 4 farms the cost of water is cost of maintenance and operation, and for enterprises serving 5 or more farms it is total annual charges, and (b) that enterprises reporting cost and quantity of water had used the same quantity of water per acre as all enterprises which reported water delivered. [2] Data for 1 enterprise with "Wells, pumped and flowing" source of supply are included with enterprises reporting "Wells, pumped" source of supply in the 1940 Census. [3] Percent not shown when more than 1,000. [4] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 4.—INVESTMENT, 1940 AND 1930; AND COST OF MAINTENANCE AND OPERATION, 1939, 1929, AND 1919; BY SOURCE OF WATER SUPPLY

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]							
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919		
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	41,522,801	100.0	21.70	35,153,187	100.0	21.24	0.46	1,421,852	0.59	1,131,867	0.84	-0.25	869,581	1.04
Primary sources:														
Streams, gravity	37,446,314	90.1	20.33	32,977,096	93.8	21.08	-0.75	1,369,813	0.55	1,075,560	0.79	-0.24	826,086	1.03
Streams, pumped	222,773	0.5	20.37	283,444	0.8	19.06	1.31	7,704	1.82	8,033	1.58	0.24	985	9.91
Streams, gravity and pumped	150,200	0.4	11.65	.....	.....	.....	.....	10,194	0.14	.....	.....	.....	.....	.....
Wells, pumped	[3] 92,075	[3] 0.2	[3] 24.39	8,250	([4])	28.95	-4.58	2,751	4.66	176	34.76	-30.10	122	7.79
Wells, flowing	22,613	0.1	28.59	1,000	([4])	6.25	22.34	261	2.03	90	1.67	0.36	12	9.58
Wells, pumped and flowing	([3])	([3])	([3])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, gravity	65,377	0.2	103.94	143,000	0.4	16.26	87.63	586	1.26	3,655	12.97	-11.70	60	0.83
Lakes, pumped				1,560	([4])	23.64				6	4.17		.....	.....
Springs	82,595	0.2	9.82	51,670	0.1	6.92	2.90	6,278	0.58	4,863	0.71	-0.13	2,983	0.60
Springs and streams	983,808	2.4	42.80	.....	.....	.....	.....	16,291	0.37	.....	.....	.....	.....	.....
Stored storm water	66,808	0.2	25.78	43,348	0.1	28.35	-2.57	563	1.42	692	2.54	-1.12	10,055	0.73
City water	1,465	([4])	9.64	.....	.....	.....	-20.36	150	0.23	.....	.....	.....	.....	.....
Sewage				2,100	([4])	30.00				.....	.....	.....	.....	.....
Streams, gravity; wells, pumped	103,436	0.2	38.58	1,600	([4])	11.43	27.29	2,650	1.05	137	0.52	0.53	125	1.20
Streams, gravity; wells, flowing				150	([4])	10.00				.....	.....		.....	.....
Streams, pumped; wells, pumped	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waste water, seepage or drainage	5,100	([4])	28.33	.....	.....	.....	.....	100	0.55	.....	.....	.....	.....	.....
Other mixed	713,239	1.7	131.89	1,594,984	4.5	29.38	102.51	4,511	0.97	35,781	0.86	0.11	29,153	1.25
Other and not reported	.....	.....	.....	44,985	0.1	13.52	.....	.....	.....	2,854	1.14	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	1,505,189	3.6	9.40	.....	.....	.....	.....	90,089	0.20	.....	.....	.....	.....	.....
Streams, pumped	61,809	0.1	20.78	.....	.....	.....	.....	2,925	4.73	.....	.....	.....	.....	.....
Wells, pumped				.....	.....	.....	.....			.....	.....	.....	.....	.....
Wells, flowing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Based on irrigated area in enterprises reporting cost of maintenance and operation. [2] Based on area works were capable of supplying with water. [3] Data for 1 enterprise with "Wells, pumped and flowing" source of supply are included with enterprises reporting "Wells, pumped" source of supply in the 1940 Census. [4] Less than one-tenth of 1 percent. [5] Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not again added into the totals (see text).

STATE TABLE 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	1,486,498	93,581	1,236,155	1,207,982	20.3
Individual and partnership	816,337	11,376	665,844	724,620	22.6
Cooperative, incorporated	320,855	31,867	303,086	286,702	[2] 31.0
Cooperative, unincorporated	[2] 76,119	10,633			
Irrigation district	96,681	24,307	86,174	22,935	12.2
Commercial	10,931	.....	51,460	57,800	-78.8
Bureau of Reclamation[3] [c]	138,653	15,398	85,886	53,555	61.4
Office of Indian Affairs[3]	23,681	.....	21,636	22,000	9.5
State	(2)	.....	.....	2,120	.....
City and/or sewage	.....	.....	.....	2,020	.....
Other	3,241	.....	22,069	36,230	-85.3
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	1,913,527	163,090	1,655,008	1,831,039	15.6
Individual and partnership	995,736	15,492	799,345	1,008,379	24.6
Cooperative, incorporated	425,066	32,312	395,079	432,956	[2] 29.0
Cooperative, unincorporated	[2] 84,705	13,274			
Irrigation district	117,976	85,691	115,408	54,017	2.2

ITEM AND TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930–40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	56,653	.....	94,760	121,310	-40.2
Bureau of Reclamation[3] [c]	170,643	16,321	144,548	93,022	18.1
Office of Indian Affairs[3]	52,941	.....	57,668	45,000	-8.2
State	(2)	.....	.....	2,120	.....
City and/or sewage	.....	.....	.....	2,020	.....
Other	9,807	.....	48,200	72,215	-79.7
IRRIGABLE AREA[4]					
Total	2,277,046	165,410	1,958,147	2,564,668	16.3
Individual and partnership	1,056,540	15,562	898,108	1,339,116	17.6
Cooperative, incorporated	579,841	32,312	434,902	532,206	[2] 55.2
Cooperative, unincorporated	[2] 95,304	15,274			
Irrigation district	147,790	85,941	134,408	56,617	10.0
Commercial	91,898	.....	109,760	146,478	-16.3
Bureau of Reclamation[3] [c]	228,918	16,321	236,869	299,789	-3.4
Office of Indian Affairs[3]	64,508	.....	78,900	87,940	-18.2
State	(2)	.....	.....	2,155	.....
City and/or sewage	.....	.....	.....	2,177	.....
Other	12,247	.....	65,200	98,190	-81.2

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [3] U. S. Dept. of the Interior. [4] For 1920 relates to total area. Irrigable area for that year was not reported. [c] For explanation of areas, see text, p. 634.

STATE TABLE 6.—ENTERPRISES, AREAS, AVERAGE COSTS, 1940; AND AREA IRRIGATED, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	ENTERPRISES Total	Serving 5 or more farms	AREAS Irrigable	Works were capable of supplying with water	AVERAGE COST Primary enterprises: Works and equipment per acre[2]	Primary enterprises: Maintenance and operation per acre[3]	Supplemental enterprises: Works and equipment per acre[2]	Supplemental enterprises: Maintenance and operation per acre[3]	AREA IRRIGATED, 1939[1] Farms served	Total area	Cropland: From which crops were harvested	Cropland: On which crops failed	Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	3,385	316	2,277,046	1,913,527	20.64	0.57	9.56	0.34	11,527	1,486,498	1,193,997	16,550	275,951
Individual and partnership	3,142	99	1,056,540	995,736	7.55	0.41	2.85	0.21	4,088	816,337	622,747	9,214	184,376
Cooperative, incorporated	107	103	579,841	425,066	16.26	0.51	5.44	0.11	2,822	320,855	278,084	4,303	38,468
Cooperative, unincorporated	86	71	[4] 95,304	[4] 84,705	[4] 6.01	[4] 0.27	1.09	0.10	[4] 622	[4] 76,119	[4] 65,018	961	10,140
Irrigation district	23	23	147,790	117,976	34.66	0.82	13.41	0.59	1,160	96,681	91,181	1,500	4,000
Commercial	8	7	91,898	56,653	52.15	0.66	.....	.....	29	10,931	6,241	190	4,500
U. S. Bureau of Reclamation[3]	10	10	228,918	170,643	89.26	1.23	10.81	0.70	2,194	138,653	113,127	357	25,169
U. S. Office of Indian Affairs	[5] 2	2	64,508	52,941	42.65	2.45	.....	.....	601	23,681	15,687	.....	7,994
State	1	.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	6	1	12,247	9,807	3.21	0.37	.....	.....	11	3,241	1,912	25	1,304

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [5] Data for less than 3 enterprises shown with permission of the enterprises involved. [c] For explanation of areas and investment, see text, p. 634.

STATE TABLE 7.—INVESTMENT IN IRRIGATION ENTERPRISES, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

TYPE OF ENTERPRISE (For definitions and explanations, see text)	TOTAL INVESTMENT, TO JANUARY 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920	Increase or decrease (-) 1930–40	AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WATER: Primary enterprises	Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	41,522,801	39,955,803	1,566,998	41,057,813	464,988	35,153,187	34,326,328	18.1	20.88	9.61	814,990	7,016,862
Individual and partnership	7,819,522	7,773,873	45,649	7,557,526	261,996	5,410,053	8,738,886	44.5	7.81	2.95	1,803	181,727
Cooperative, incorporated	7,239,250	7,061,745	177,505	7,086,708	152,542	4,786,271	6,701,990	[2] 62.4	16.61	5.49	58,503	889,375
Cooperative, unincorporated	[2] 531,806	[2] 516,621	15,185	[2] 523,952	7,854				[2] 6.10	1.14	6,045	5,650
Irrigation district	5,249,158	4,096,984	1,152,174	5,237,808	11,350	2,615,006	1,441,312	100.7	34.73	13.45	446,747	906,500
Commercial	2,980,102	2,980,102	.....	2,954,643	25,459	2,299,870	780,562	29.6	52.60	.....	40	185,000
U. S. Bureau of Reclamation[3]	15,411,395	15,234,910	176,485	15,407,667	3,728	17,589,985	12,863,870	-12.4	89.28	10.81	281,452	3,345,810
U. S. Office of Indian Affairs	2,258,000	2,258,000	.....	2,258,000	.....	1,469,642	1,339,887	53.6	42.65	.....	20,000	1,496,800
State	(2)	(2)	.....	(2)	.....	.....	15,050	.....	(2)	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	9,980	.....	.....	.....	.....	.....
Other	33,568	33,568	.....	31,509	2,059	982,360	2,434,791	-96.6	3.42	.....	400	6,000

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [c] For explanation of investment, see text, p. 634.

STATE TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE,[1] CENSUS OF 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
		Area						Total arrearages					
	Enterprises 1940	Irrigable 1940	Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Dec. 31 1939	Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
Total	*Number* 40	*Acres* 697,738	*Acres* 584,130	*Dollars* 16,699,485	*Dollars* 41.01	*Dollars* 31.64	*Number* 8	*Dollars* 87,800	*Dollars* 69,898	*Dollars* 1.93	*Acres* 935,232	*Dollars* 662,711	*Dollars* 472,160
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84,965	23,344	9,814
Cooperative, incorporated	13	165,689	136,589	502,220	5.74	3.68	2	([6])	([6])	([6])	408,065	204,301	196,099
Cooperative, unincorporated	1	([6])	([6])	([6])	([6])	([6])	.....	.....	.....	.....	79,865	18,715	12,950
Irrigation district	17	184,633	179,967	1,418,894	5.26	5.19	5	18,421	4,094	0.46	135,852	158,634	112,517
Commercial	[7]1	50,000	40,000	97,560	10.50	2.44	1	58,579	50,632	6.31	19,450	9,769	6,908
Bureau of Reclamation[8] *	6	228,918	170,643	[9]13,138,291	91.75	76.99	.....	.....	.....	.....	158,598	188,080	110,878
Office of Indian Affairs[8]	[7]2	64,508	52,941	[10]1,542,220	32.37	29.13	.....	.....	.....	.....	47,640	59,550	22,674
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	([6])	([6])	([6])

[1] Only for enterprises serving 5 or more farms. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. [2] In payment of principal, interest, and/or other funded obligations. [3] Based on primary enterprises only; State average for supplemental enterprises is $3.47. [4] Based on primary enterprises only; State average for supplemental enterprises is $10.85. [5] Based on primary enterprises only; State average for supplemental enterprises is $0.46. [6] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [7] Data for less than 3 enterprises shown with permission of the enterprises involved. [8] U. S. Dept. of the Interior. [9] Represents indebtedness and arrearages of irrigation districts to the U. S. Government. [10] Represents construction costs of irrigation works less cancellations and repayments. * For explanation of areas and investment, see text, p. 634.

STATE TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises		Supplemental enterprises		Average cost per irrigated acre				
	Irrigated area reporting 1939	Reported cost 1939	Irrigated area reporting 1939	Reported cost 1939	Primary enterprises 1939	Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
Total	*Acres* 1,421,852	*Dollars* 807,345	*Acres* 93,014	*Dollars* 31,923	*Dollars* 0.57	*Dollars* 0.34	*Number* 175	*Dollars* 392,047	*Number* 578
Individual and partnership	755,309	308,765	10,809	2,223	0.41	0.21	19	5,783	28
Cooperative, incorporated	319,855	163,222	31,867	3,613	0.51	0.11	86	79,818	197
Cooperative, unincorporated	[2]73,551	[2]19,732	10,633	1,047	[2]0.27	0.10	39	[3]11,346	[3]46
Irrigation district	96,681	79,192	24,307	14,261	0.82	0.59	19	48,736	58
Commercial	10,931	7,240	.....	.....	0.66	.....	3	3,121	3
U. S. Bureau of Reclamation*	138,653	170,019	15,398	10,779	1.23	0.70	6	195,705	192
U. S. Office of Indian Affairs	23,681	58,000	.....	.....	2.45	.....	[4]2	47,538	54
State	([2])	([2])	.....	.....	([2])	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	3,191	1,175	.....	.....	0.37	.....	1	([3])	([3])

[1] Only for enterprises serving 5 or more farms. [2] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [3] Data for 1 "Other" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [4] Data for less than 3 enterprises shown with permission of the enterprises involved. * For explanation of areas and investment, see text, p. 634.

STATE TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
Total	*Number* 4,205	*Number* 319	*Sec.-ft.* 46,366	*Miles* 11,715	*Miles* 47.1	334	*Ac.-ft.* 3,379,957	*Miles* 70.3	36	*G.p.m.* 3,830	94	*G.p.m.* 60,522	224	*Hp.* 4,152	230	*G.p.m.* 209,559
Individual and partnership	3,974	254	21,712	7,882	28.6	273	179,566	30.2	35	3,636	93	59,172	217	3,633	223	188,368
Cooperative, incorporated	100	30	8,784	1,400	2.6	31	295,850	7.6	1	194	1	1,350	1	15	1	1,350
Cooperative, unincorporated	80	5	[3]2,216	429	1.1	4	5,667	[3]6.0	....	.....	.....	.....	[3]2	[3]11	[3]2	[3]1,050
Irrigation district	15	11	3,359	421	1.3	9	161,024	3.1	....	.....	.....	.....	2	440	2	15,708
Commercial	5	6	2,369	153	0.1	6	79,266	0.3	....	.....	.....	.....	1	45	1	3,000
Bureau of Reclamation[4]	5	11	7,440	1,007	12.9	9	2,643,584	18.3	....	.....	.....	.....	.....	.....	.....	.....
Office of Indian Affairs[4]	15	2	250	410	0.5	2	15,000	4.3	....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	([3])	.....	.....	.....	.....	([3])	....	.....	.....	.....	([3])	([3])	([3])	([3])
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Other	11	.....	236	13	.....	.....	.....	0.5	....	.....	.....	.....	1	8	1	83

[1] Includes main and lateral canals but not farm ditches. [2] Includes flumes. [3] Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. [4] U. S. Dept. of the Interior.

STATE TABLE 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	*Number*	*Number*	*Number*
Total	4,205	319	2,406	212
Concrete or masonry	257	12	213	22
Timber	528	3	317	.....
Earth and rock	2,673	277	.....	137
Other and mixed	[1] 698	21	[1] 1,824	45
Not reported	49	6	52	8

[1] Principally temporary dams, replaced annually.

STATE TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	230	100.0	209,559	100.0	30
Electric motor	34	14.8	26,693	12.7	27
Centrifugal	24	10.4	23,953	11.4	22
Turbine	3	1.3	2,580	1.2	63
Plunger	5	2.2	110	0.1	23
Other	2	0.9	50	[1]	40
Internal-combustion engine	166	72.2	158,280	75.6	27
Centrifugal	118	51.3	126,268	60.3	17
Turbine	35	15.2	29,893	14.3	62
Plunger	11	4.8	479	0.2	36
Other	2	0.9	1,640	0.8	14
Other kinds of motive power	19	8.2	10,576	5.0	59
Centrifugal	7	3.0	10,375	5.0	19
Turbine	.....	.....	.....	.....	.....
Plunger	9	3.9	103	[1]	81
Other	3	1.3	98	[1]	74
Mixed kinds of motive power	11	4.8	14,010	6.7	26
Centrifugal	4	1.7	4,960	2.4	17
Turbine	6	2.7	8,600	4.1	40
Plunger	.....	.....	.....	.....	.....
Other	1	0.4	450	0.2	10
Total, 1930	65	.....	86,905	.....	21
Increase or decrease (-) 1930-1940	165	.....	122,654	.....	9

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	224	100.0	4,152	100.0
Centrifugal pump	142	63.4	2,812	67.8
Electric	23	10.3	267	6.4
Internal-combustion	111	49.5	2,442	58.9
Other	8	3.6	103	2.5
Turbine pump	40	17.8	1,038	25.0
Electric	5	2.2	98	2.4
Internal-combustion	35	15.6	940	22.6
Other	.....	.....	.....	.....
Plunger pump	23	10.3	72	1.7
Electric	4	1.8	6	0.1
Internal-combustion	10	4.5	53	1.3
Other	9	4.0	13	0.3
Other and mixed types of pumps	19	8.5	230	5.5
Electric	5	2.2	30	0.7
Internal-combustion	4	1.8	112	2.7
Other	10	4.5	88	2.1
Total, 1930	[2] 61	.....	912	.....
Increase or decrease (-) 1930-1940	163	.....	3,240	.....

[1] Less than one-tenth of 1 percent.

[2] Number of pumping plants.

STATE TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940 [1]	1930 [2]	
	Miles	*Miles*	*Percent*
Total	70.3	14.1	398.6
Concrete:			
1 to 12 inches	1.7	0.1	[3]
13 to 24 inches	1.2	2.7	348.1
Over 24 inches	10.9		
Metal:			
1 to 12 inches	26.2	6.3	315.9
13 to 24 inches	5.1	1.7	594.1
Over 24 inches	6.7		
Wood-stave:			
1 to 12 inches	9.5	.....	.....
13 to 24 inches	0.6	0.8	337.5
Over 24 inches	2.9		
Clay and other:			
1 to 12 inches	2.6	.....	.....
13 to 24 inches	2.3	2.5	16.0
Over 24 inches	0.6		

[1] Includes siphons and farm pipe lines reported when more than 1,000.

[2] Pipe sizes were separated at 30 inches in diameter (instead of 24 inches) in the 1930 Census.

[3] Percent not shown.

BUREAU OF RECLAMATION AREAS AND INVESTMENT

The areas credited to the United States Bureau of Reclamation in State tables 5, 6, 8, and 9 include 138,653 acres irrigated in 1939 which were within the Goshen Irrigation District, North Platte Project; the Shoshone and Deaver Districts and the Willwood Division, Shoshone Project; and the Midvale District, Riverton Project. These districts are indicated as separate enterprises under the Bureau of Reclamation, and their areas are not duplicated under any other classification. Areas totaling 15,398 acres irrigated, received a supplemental supply from the Riverton Project which is under construction, and the Goshen District of the North Platte Project in Wyoming. These areas are reported as also receiving a primary water supply from other enterprises.

The investment attributed to the Bureau of Reclamation in State tables 7 and 17 relates to these areas and reflects construction costs incurred by the United States for irrigation and power facilities which were charged to Wyoming lands at the time of the irrigation census of 1940. It also includes an investment of about $30,000 by water users in one project. Costs of drainage works and certain facilities repayable by net power revenues and of storage dams charged to Nebraska or Idaho lands are not included in the Bureau of Reclamation investment in Wyoming. Also, not included are certain power costs in Wyoming not repayable by water users under contracts in effect at the time of the irrigation census. Data relating to the Heart Mountain Division of the Shoshone Project, under construction in 1940; the Kendrick Project on the North Platte River, where power facilities only were in operation when the census was taken; and the Eden Project being constructed on Little and Big Sandy Creeks under the Water Conservation and Utilization Program; are not included in the 1940 Census of Irrigation.

STATE TABLE 14.—AREA WITHIN IRRIGATION ENTERPRISES FOR WHICH DRAINS HAVE BEEN INSTALLED, AND ADDITIONAL AREA IN NEED OF DRAINAGE: 1940, 1930, AND 1920

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	145	88	144	Ratio of area drained to area irrigated in—			
Area irrigable in these enterprises.....acres...	843,642	592,041	[1] 513,347	(a) Enterprises reporting lands drained and/or needing drainage....percent..	38.4	[3] 24.9	[1] 13.3
Area irrigated in these enterprises.....acres...	456,760	(2)	(2)	(b) All irrigation enterprises.....percent..	11.8	11.9	5.6
Area for which drains have been installed...acres...	175,394	147,346	68,086	Ratio of area drained plus area needing drainage to—			
Additional area needing drainage.....acres...	44,997	34,077	75,183	(a) Irrigable area reporting.....percent..	26.1	30.6	[1] 27.9
				(b) Irrigated area reporting.....percent..	48.3	(2)	(2)

[1] For 1920 relates to total area in enterprises. Irrigable area was not reported and irrigated area in enterprises reporting drainage was not reported separately for the 1920 Census.
[2] Not available.
[3] Based on irrigable area for 1930, area irrigated in enterprises reporting land drained or needing drainage not available.

STATE TABLE 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	3,052,654	1,292,891	1,310,560	1,929,017	513,763	491,047	1,123,637	779,128	819,513
Area irrigated by these enterprises.....acres.....	690,158	403,534	545,265	359,039	183,323	230,729	331,119	220,211	314,536
Average water per acre irrigated.....acre-feet..	4.4	3.2	2.4	5.4	2.8	2.1	3.4	3.5	2.6
Total water delivered to irrigators.....acre-feet..	2,825,665	395,362	393,985	935,998	228,552	274,200	1,889,667	166,810	119,785
Area irrigated by these enterprises.....acres.....	1,356,583	160,266	186,328	259,313	111,685	128,021	1,097,270	48,581	58,307
Average water per acre irrigated.....acre-feet..	2.1	2.5	2.1	3.6	2.0	2.1	1.7	3.4	2.1
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	7,427	.....	.....	.....	.....	.....	7,427	.....	.....
Area irrigated by these enterprises.....acres.....	3,923	.....	.....	.....	.....	.....	3,923	.....	.....
Average water per acre irrigated.....acre-feet..	1.9	.....	.....	.....	.....	.....	1.9	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	73,785	.....	.....	55,888	.....	.....	17,897	.....	.....
Area irrigated by these enterprises.....acres.....	68,107	.....	.....	50,056	.....	.....	18,051	.....	.....
Average water per acre irrigated.....acre-feet..	1.1	.....	.....	1.1	.....	.....	1.0	.....	.....
Total water delivered to irrigators.....acre-feet..	56,496	.....	.....	22,838	.....	.....	33,658	.....	.....
Area irrigated by these enterprises.....acres.....	67,602	.....	.....	24,077	.....	.....	43,525	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	0.9	.....	.....	0.8	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	25	.....	.....	.....	.....	.....	25	.....	.....
Area irrigated by these enterprises.....acres.....	144	.....	.....	.....	.....	.....	144	.....	.....
Average water per acre irrigated.....acre-feet..	0.2	.....	.....	.....	.....	.....	0.2	.....	.....

[1] Data only for enterprises serving 5 or more farms. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

STATE TABLE 16.—AREA IRRIGATED, BY TYPE OF RIGHTS UNDER WHICH WATER WAS DELIVERED: 1939, 1929, AND 1919

TYPE OF WATER RIGHTS (For definitions and explanations, see text)	1939			1929		1919	
	Area irrigated			Area irrigated	Proportion of total	Area irrigated	Proportion of total
	Primary enterprises	Proportion of total	Supplemental enterprises[1]				
	Acres	*Percent*	*Acres*	*Acres*	*Percent*	*Acres*	*Percent*
Total.....	1,486,498	100.0	93,581	1,236,155	100.0	1,207,982	100.0
Appropriation[2].....	1,436,392	96.7	91,991	978,069	79.2	1,009,518	83.6
Underground.....	3,679	0.2	144	320	(3)	276	(3)
Appropriation and underground.....	220	(3)	.....	.....	.....	.....	.....
Adjudicated by court.....	36,107	2.4	1,367	217,905	17.6	162,186	13.4
Other mixed and not reported.....	10,100	0.7	79	39,861	3.2	36,002	3.0

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).
[2] "Appropriation" includes water rights published in the 1930 and 1920 Census Reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."
[3] Less than one-tenth of 1 percent.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	3,319	73	2,560	404	232	32	18
2	Irrigated farms, 1939.....number...	11,527	.....	2,560	993	2,149	1,416	4,409
3	Area irrigated, 1939.....acres....	1,486,498	.....	558,025	189,901	286,097	128,148	324,327
4	(a) From which crops were harvested.....acres....	1,193,997	.....	414,158	152,631	234,797	111,984	280,427
5	(b) On which crops failed.....acres....	16,550	.....	6,932	1,890	4,366	2,505	857
6	(c) Irrigated pasture.....acres....	275,951	.....	136,935	35,380	46,934	13,659	43,043
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises.....dollars..	39,955,803	2,150,445	6,122,640	1,699,024	4,793,478	3,771,892	21,418,324
8	(a) Cost of irrigation works and equipment.....dollars..	39,498,204	2,123,708	5,923,703	1,648,673	4,631,098	3,761,328	21,409,694
9	(b) Investment in water rights.....dollars..	457,599	26,737	198,937	50,351	162,380	10,564	8,630
10	Area works were capable of supplying with water.....acres....	1,913,527	49,426	681,595	228,793	329,465	214,921	409,327
11	Average investment per acre irrigated.....dollars..	26.88	.....	10.97	8.95	16.75	29.43	66.04
12	Average investment per acre which the works could supply with water..dollars..	20.88	43.51	8.98	7.43	14.55	17.55	52.33
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation.....number...	2,961	37	2,276	379	219	32	18
14	(a) Area irrigated in these enterprises.....acres....	1,421,852	.....	514,733	181,288	273,356	128,148	324,327
15	(b) Cost of maintenance and operation.....dollars..	807,345	5,587	229,963	57,400	89,931	71,439	353,025
16	(c) Average cost per irrigated acre reporting.....dollars..	0.57	.....	0.45	0.32	0.33	0.56	1.09
17	Total annual charges[2].....dollars..	631,343	5,574	237	429	112,296	92,649	420,158
18	Average charge per irrigated acre reporting.....dollars..	0.87	.....	0.11	0.28	0.41	0.72	1.30
19	Area against which charges were assessed.....acres....	852,728	9,290	2,160	2,195	312,192	157,948	368,943
20	Average annual charge per acre assessed.....dollars..	0.74	0.60	0.11	0.20	0.36	0.59	1.14
21	Total charges collected[2].....dollars..	447,354	1,697	1,200	241	74,633	91,469	278,114
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3].....number...	35	[4]1	.....	.....	9	10	15
23	(a) Area irrigated in these enterprises.....acres....	321,962	.....	.....	.....	18,474	51,683	251,805
24	(b) Indebtedness.....dollars..	15,770,071	97,560	.....	.....	217,482	489,796	14,965,233
25	(c) Average indebtedness per acre irrigated.....dollars..	48.98	.....	.....	.....	11.77	9.48	59.43
26	(d) Cost of irrigation works and equipment.....dollars..	24,308,358	1,800,000	.....	.....	449,674	1,738,500	20,320,184
27	(e) Investment in water rights.....dollars..	11,648	.....	.....	.....	1,848	1,170	8,630
28	(f) Total investment.....dollars..	24,320,006	1,800,000	.....	.....	451,522	1,739,670	20,328,814
29	(g) Maintenance and operation.....dollars..	365,666	2,056	.....	.....	9,677	33,530	320,403
30	(h) Total annual charges[2].....dollars..	455,508	5,574	.....	.....	24,312	48,485	377,137
31	(i) Total charges collected[2].....dollars..	287,475	1,697	.....	.....	13,465	38,636	233,677
32	(j) Area against which annual charges were assessed.....acres....	384,576	9,290	.....	.....	19,104	65,089	291,093
33	(k) Average indebtedness per acre assessed.....dollars..	41.01	10.50	.....	.....	11.38	7.53	51.41
34	(l) Average charges per acre assessed.....dollars..	1.18	0.60	.....	.....	1.27	0.74	1.30
35	(m) Average charges per acre irrigated.....dollars..	1.41	.....	.....	.....	1.32	0.94	1.50
36	Enterprises reporting arrearage[3].....number...	6	[4]1	.....	.....	1	3	1
37	(a) Area assessed in these enterprises.....acres....	41,492	9,290	.....	.....	[5]	16,963	[5]
38	(b) Total arrearage.....dollars..	79,900	58,579	.....	.....	[5]	13,721	[5]
39	(c) Average arrearage per acre assessed.....dollars..	1.93	6.31	.....	.....	[5]	0.81	[5]
40	(d) Indebtedness.....dollars..	208,831	97,560	.....	.....	[5]	69,300	[5]
	TYPE, 1940							
41	Individual and partnership.....number...	3,096	64	2,540	396	94	2	.....
42	Cooperative (incorporated and unincorporated).....number...	180	4	12	8	126	26	4
43	Irrigation district.....number...	18	1	.....	.....	6	4	7
44	Commercial.....number...	8	2	2	.....	4	.....	.....
45	U. S. Bureau of Reclamation.....number...	8	2	.....	.....	1	.....	5
46	U. S. Office of Indian Affairs.....number...	2	.....	.....	.....	.....	.....	2
47	All other.....number...	7	.....	6	.....	1	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
48	Enterprises reporting pay roll.....number...	163	[4]1	.....	2	110	32	18
49	Wages and salaries paid and payable for 1939.....dollars..	386,458	1,010	.....	43,660		39,398	302,390
50	Persons employed during week ending April 29, 1939.....number...	567	2	.....	156		104	305
	SOURCE OF WATER SUPPLY, 1939							
51	Streams, gravity.....number...	2,887	51	2,170	391	226	32	17
52	Streams, pumped.....number...	99	7	90	1	1	.....	.....
53	Wells, pumped.....number...	64	2	61	1	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing.....number...	21	2	18	.....	1	.....	.....
55	Lakes, gravity or pumped.....number...	7	.....	7	.....	.....	.....	.....
56	Streams and springs; or springs.....number...	159	4	147	6	1	.....	1
57	Mixed, streams and wells.....number...	20	.....	15	3	2	.....	.....
58	Other mixed or stored storm water.....number...	62	7	52	2	1	.....	.....

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
1	Enterprises, 1940.....number...	66	5	33	11	9	7	[4]1
2	Irrigated farms, 1939.....number...	683	.....	33	27	118	295	210
3	Area irrigated, 1939.....acres....	93,581	.....	4,270	5,806	41,618	26,489	15,398
	CAPITAL INVESTMENT, 1940							
4	Total capital investment in all enterprises.....dollars..	1,566,998	1,002,143	27,536	14,640	135,650	210,554	176,475
5	(a) Cost of irrigation works and equipment.....dollars..	1,559,609	1,000,620	26,365	14,145	133,000	209,004	176,475
6	(b) Investment in water rights.....dollars..	7,389	1,523	1,171	495	2,650	1,550	.....
7	Area works were capable of supplying with water.....acres....	163,090	62,671	7,339	6,518	42,704	27,537	16,321
8	Average investment per acre irrigated.....dollars..	16.74	.....	6.45	2.52	3.26	7.95	11.46
9	Average investment per acre which the works could supply with water..dollars..	9.61	15.99	3.75	2.25	3.18	7.65	10.81
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
10	Enterprises reporting maintenance and operation.....number...	59	3	28	11	9	7	[4]1
11	(a) Area irrigated in these enterprises.....acres....	93,014	.....	3,703	5,806	41,618	26,489	15,398
12	(b) Cost of maintenance and operation.....dollars..	31,923	8	1,672	746	2,184	16,535	10,778
13	(c) Average cost per irrigated acre reporting.....dollars..	0.34	.....	0.45	0.13	0.05	0.62	0.70
14	Total annual charges[2].....dollars..	31,368	.....	.....	.....	3,687	16,902	10,779
15	Average charge per irrigated acre reporting.....dollars..	0.38	.....	.....	.....	0.09	0.68	0.70
16	Area against which charges were assessed.....acres....	82,504	.....	.....	.....	42,169	24,937	15,398
17	Average annual charge per acre assessed.....dollars..	0.38	.....	.....	.....	0.09	0.68	0.70
18	Total charges collected[2].....dollars..	24,806	10,800	.....	.....	5,194	8,812	.....

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.

[2] Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, FARMS, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
73	1,390	953	758	125	20	2,790	356	136	31	6	1
.....	1,544	1,289	2,427	1,948	4,319	4,057	1,331	1,268	2,481	2,390	2
.....	59,264	164,369	512,307	390,996	359,562	561,564	270,021	253,506	254,619	146,788	3
.....	49,993	132,565	406,649	290,617	314,173	434,780	208,463	204,725	229,988	116,041	4
.....	1,422	3,311	5,375	4,180	2,262	7,676	2,862	4,065	1,590	357	5
.....	7,849	28,493	100,283	96,199	43,127	119,108	58,696	44,716	23,041	30,390	6
2,150,445	1,227,515	2,687,024	4,600,765	6,668,503	22,621,551	2,902,089	2,698,866	4,249,792	12,317,849	17,787,207	7
2,123,708	1,175,064	2,618,159	4,470,604	6,622,823	22,487,846	2,752,746	2,631,336	4,178,564	12,151,486	17,784,072	8
26,737	52,451	68,865	130,161	45,680	133,705	149,343	67,530	71,228	166,363	3,135	9
49,426	93,628	210,298	607,601	506,310	446,264	672,785	325,035	299,294	378,378	238,035	10
.....	20.71	16.35	8.98	17.06	62.91	5.17	10.00	16.76	48.38	121.18	11
43.51	13.11	12.78	7.57	13.17	50.69	4.31	8.30	14.20	32.55	74.73	12
37	1,196	875	712	121	20	2,458	337	130	30	6	13
.....	52,228	152,347	478,519	379,196	359,562	523,422	253,885	243,138	254,619	146,788	14
5,587	60,252	99,213	147,880	139,578	354,835	198,402	106,520	95,800	203,444	203,179	15
.....	1.15	0.65	0.31	0.37	0.99	0.38	0.42	0.39	0.80	1.38	16
5,574	312	2,313	47,954	159,813	415,377	24,580	37,746	92,564	261,079	215,374	17
.....	1.13	0.66	0.33	0.70	1.18	0.30	0.38	0.58	1.08	1.47	18
9,290	276	5,463	168,314	275,466	393,919	87,127	113,704	195,488	277,902	178,507	19
0.60	1.17	0.44	0.28	0.58	1.05	0.28	0.33	0.47	0.94	1.21	20
1,697	187	995	50,234	114,839	279,402	15,743	24,684	81,240	195,930	129,757	21
[4]1	.....	1	3	16	14	.....	2	11	16	6	22
.....	.....	2,619		70,429	248,914	.....	38,079		137,095	146,788	23
97,560	.....	161,263		513,693	14,997,555	.....	124,122		2,187,830	13,458,119	24
.....	.....	61.57		7.29	60.25	.....	3.26		15.96	91.68	25
1,800,000	.....	220,844		1,891,188	20,396,326	.....	387,330		6,136,956	17,784,072	26
.....	.....	348		2,670	8,630	.....	2,200		6,313	3,135	27
1,800,000	.....	221,192		1,893,858	20,404,956	.....	389,530		6,143,269	17,787,207	28
2,056	.....	2,810		49,800	311,000	.....	17,449		145,038	203,179	29
5,574	.....	2,848		89,087	357,999	.....	31,750		208,384	215,374	30
1,697	.....	6,594		54,262	224,922	.....	26,910		130,808	129,757	31
9,290	.....	3,249		86,217	285,820	.....	40,294		165,775	178,507	32
10.50	.....	49.63		5.96	52.47	.....	3.08		13.20	75.39	33
0.60	.....	0.88		1.03	1.25	.....	0.79		1.26	1.21	34
.....	.....	1.09		1.26	1.44	.....	0.83		1.52	1.47	35
[4]1	.....	1	.....	3	1	.....	.....	3	2	[4]1	36
9,290	.....	[5]	.....	16,963	[5]	.....	.....	8,163	[5]	9,290	37
58,579	.....	[5]	.....	13,721	[5]	.....	.....	10,921	[5]	58,579	38
6.31	.....	[5]	.....	0.81	[5]	.....	.....	1.34	[5]	6.31	39
97,560	.....	[5]	.....	69,300	[5]	.....	.....	65,766	[5]	97,560	40
64	1,380	936	653	62	1	2,719	295	79	3	.....	41
4	5	15	101	48	7	63	57	48	12	.....	42
1	.....	.....	1	10	6	2	1	4	11	.....	43
2	.....	2	1	3	.....	.....	2	3	2	1	44
2	.....	.....	1	.....	5	2	.....	.....	2	4	45
.....	.....	.....	.....	1	1	.....	.....	.....	1	1	46
.....	5	.....	1	1	.....	4	1	2	.....	.....	47
[4]1	2	7	76	58	19	36	43	51	27	6	48
1,010	661		18,384	69,537	296,866	5,286	12,519	34,572	106,335	227,746	49
2	21		111	128	305	43	82	82	133	227	50
51	1,076	876	745	121	18	2,403	325	124	29	6	51
7	75	14	2	1	.....	91	4	4	.....	.....	52
2	50	11	1	.....	.....	61	3	.....	.....	.....	53
2	18	1	.....	.....	.....	20	1	.....	.....	.....	54
.....	5	2	.....	.....	.....	6	.....	1	.....	.....	55
4	116	31	5	2	1	147	10	1	1	.....	56
.....	8	7	4	.....	1	14	2	4	.....	.....	57
7	42	11	1	1	.....	48	11	2	1	.....	58

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
5	28	9	10	11	3	50	6	8	[4]2	1
.....	33	12	69	314	255	102	131	240	210	2
.....	1,239	1,474	9,517	43,333	38,018	15,722	21,844	40,617	15,398	3
1,002,143	16,027	7,339	66,635	205,579	269,275	41,369	41,550	306,104	1,177,975	4
1,000,620	15,265	6,895	65,850	203,504	267,475	39,130	41,000	303,004	1,176,475	5
1,523	762	444	785	2,075	1,800	2,239	550	3,100	1,500	6
62,671	2,195	3,933	10,549	44,801	38,941	22,899	22,869	40,665	76,657	7
.....	12.94	4.98	7.00	4.74	7.08	2.63	1.90	7.54	76.50	8
15.99	7.30	1.87	6.32	4.59	6.91	1.81	1.82	7.53	15.37	9
3	25	7	10	11	3	43	6	8	[4]2	10
.....	1,102	1,044	9,517	43,333	38,018	15,155	21,844	40,617	15,398	11
8	869	229	2,432	16,748	11,637	2,649	1,884	16,610	10,780	12
.....	0.79	0.22	0.26	0.39	0.31	0.17	0.09	0.41	0.70	13
.....	.....	.....	1,533	17,987	11,848	1,337	1,350	17,902	10,779	14
.....	.....	.....	0.36	0.45	0.31	0.12	0.08	0.46	0.70	15
.....	.....	.....	4,365	40,101	38,018	11,264	16,777	39,065	15,398	16
.....	.....	.....	0.35	0.45	0.31	0.12	0.08	0.46	0.70	17
10,800	.....	1,998	8,500	758	2,750	1,000	1,588	11,418	10,800	18

[3] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[4] Data for less then 3 enterprises shown with permission of the enterprises involved.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

STATE TABLE 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY; BY SPECIFIED GROUPS OF IRRIGATED FARMS,

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms
	INDEBTEDNESS AND ARREARAGE, 1939							
19	Enterprises reporting indebtedness[2]....number...	5	[3]1	.....	.....	[3]2	[3]2	.....
20	(a) Area irrigated in these enterprises....acres....	24,307	.....	.....	.....	15,628	8,679	.....
21	(b) Indebtedness....dollars..	929,414	845,000	.....	.....	46,500	37,914	.....
22	(c) Average indebtedness per acre irrigated....dollars..	38.24	.....	.....	.....	2.98	4.37	.....
23	(d) Cost of irrigation works and equipment....dollars..	1,148,724	1,000,000	.....	.....	84,000	64,724	.....
24	(e) Investment in water rights....dollars..	3,450	1,500	.....	.....	1,550	400	.....
25	(f) Total investment....dollars..	1,152,174	1,001,500	.....	.....	85,550	65,124	.....
26	(g) Maintenance and operation....dollars..	14,261	2	.....	.....	359	13,900	.....
27	(h) Total annual charges[4]....dollars..	16,004	.....	.....	.....	1,442	14,562	.....
28	(i) Total charges collected[4]....dollars..	19,226	10,800	.....	.....	3,386	5,040	.....
29	(j) Area against which annual charges were assessed....acres....	24,355	.....	.....	.....	15,628	8,727	.....
30	(k) Average indebtedness per acre assessed....dollars..	3.47	.....	.....	.....	2.98	4.34	.....
31	(l) Average charges per acre assessed....dollars..	0.66	.....	.....	.....	0.09	1.67	.....
32	(m) Average charges per acre irrigated....dollars..	0.66	.....	.....	.....	0.09	1.68	.....
33	Enterprises reporting arrearage[2]....number...	[3]2	[3]1	.....	.....	[3]1	.....	.....
34	(a) Area assessed in these enterprises....acres....	1,508	.....	.....	.....	1,508	.....	.....
35	(b) Total arrearage....dollars..	7,900	7,200	.....	.....	700	.....	.....
36	(c) Average arrearage per acre assessed....dollars..	0.46	.....	.....	.....	0.46	.....	.....
37	(d) Indebtedness....dollars..	852,500	845,000	.....	.....	7,500	.....	.....
	TYPE, 1940							
38	Individual and partnership....number...	46	2	33	10	1	.....	.....
39	Cooperative (incorporated and unincorporated)....number...	13	1	.....	1	6	5	.....
40	Irrigation district....number...	5	1	.....	.....	2	2	.....
41	U. S. Bureau of Reclamation....number...	2	1	.....	.....	.....	.....	1
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
42	Enterprises reporting pay roll....number...	12	[3]1	.....	.....	5	6	.....
43	Wages and salaries paid and payable for 1939....dollars..	5,589	1,500	.....	.....	1,250	2,839	.....
44	Persons employed during week ending April 29, 1939....number...	11	6	.....	.....	3	2	.....
	SOURCE OF SUPPLEMENTAL WATER SUPPLY, 1939							
45	Streams, pumped....number...	4	.....	2	1	.....	1	.....
46	Wells, pumped or flowing....number...	1	.....	1	.....	.....	.....	.....
47	Streams, gravity or storage....number...	61	5	30	10	9	6	1

[1] Relates to enterprises reporting no irrigation in 1939 but having works capable of supplying water in 1940.
[2] Indebtedness and arrearage were reported only by enterprises serving 5 or more farms.
[3] Data for less than 3 enterprises shown with permission of the enterprises involved.

STATE TABLE 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND WEATHER STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Big Horn River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Lander	Fremont	5,370	11.04	-1.59	3.47	+0.83	1.98	-0.40	4.40	-1.07	1.19	-0.95	45.6	+3.1
Thermopolis	Hot Springs	4,350	9.17	-4.28	2.16	-0.04	1.69	-0.13	3.93	-2.32	1.39	-1.79	47.4	+2.5
Cody	Park	4,984	10.16	+0.81	1.83	+0.33	0.96	-0.06	5.32	+1.17	2.05	-0.63	47.8	+3.5
Lovell	Big Horn	3,825	8.08	+1.48	1.02	-0.03	0.93	-0.01	4.54	+1.74	1.59	-0.22	46.7	+3.1
Average*	.....	.....	**9.61**	**-0.90**	**2.12**	**+0.27**	**1.39**	**-0.15**	**4.55**	**-0.12**	**1.56**	**-0.90**	**46.9**	**+3.0**
Tongue and Powder Rivers														
Sheridan	Sheridan	3,773	18.18	+3.12	2.49	+0.15	2.23	-0.48	8.06	+1.45	5.40	+2.00	46.4	+3.0
Nine Mile Creek	Johnson	5,000	10.33	-1.80	1.68	+0.23	1.42	+0.34	5.92	-0.81	1.31	-1.56	45.3	(2)
Salt Creek (near)	Natrona	4,842	(2)	(2)	2.27	+0.09	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Average*	.....	.....	**14.26**	**+0.66**	**2.15**	**+0.16**	**1.82**	**-0.07**	**6.99**	**+0.32**	**3.36**	**+0.22**	**45.8**	**+3.0**
Cheyenne River														
Clarkelen (near)	Campbell	5,010	11.59	-2.25	1.51	-0.45	1.64	-0.22	6.10	-0.23	2.34	-1.35	44.4	(2)
Colony	Crook	3,500	11.47	-5.46	1.32	-0.82	1.68	-0.37	4.63	-2.01	3.84	-2.26	48.1	+3.0
Spencer (near)	Niobrara	3,800	9.24	-3.37	0.46	-0.95	0.99	-0.47	3.33	-2.94	4.46	+0.99	(2)	(2)
Average*	.....	.....	**10.77**	**-3.69**	**1.10**	**-0.74**	**1.44**	**-0.35**	**4.69**	**-1.73**	**3.55**	**-0.87**	**46.2**	**+3.0**
North and South Platte Rivers														
Saratoga	Carbon	6,700	6.47	-3.83	1.52	-0.60	0.71	-1.39	1.92	-1.26	2.32	-0.58	42.3	+1.1
Laramie	Albany	7,188	9.00	-2.06	2.09	+0.29	1.65	+0.09	2.87	-0.88	2.39	-1.56	43.9	+3.0
Cheyenne	Laramie	6,139	11.28	-3.71	2.14	+0.11	3.19	+1.11	4.33	-1.70	1.62	-3.23	46.7	+2.1
Casper (near)	Natrona	5,124	8.30	-6.88	1.47	-1.68	0.96	-1.79	4.09	-1.89	1.78	-1.52	47.3	+0.1
Fort Laramie (near)	Goshen	4,715	7.22	-6.89	1.03	-0.76	1.13	-0.52	2.35	-4.03	2.71	-1.58	48.9	+1.9
Average*	.....	.....	**8.45**	**-4.67**	**1.65**	**-0.53**	**1.53**	**-0.50**	**3.11**	**-1.95**	**2.16**	**-1.69**	**45.8**	**+1.6**
Green River														
Kendall	Sublette	7,600	17.40	+0.53	6.99	+3.17	2.85	-1.89	4.33	-0.28	3.23	-0.47	34.8	+1.8
Green River	Sweetwater	6,083	6.59	-0.62	2.75	+1.15	0.93	-0.49	1.78	-0.63	1.13	-0.65	45.4	+2.4
Average*	.....	.....	**12.00**	**-0.04**	**4.87**	**+2.16**	**1.89**	**-1.19**	**3.06**	**-0.46**	**2.18**	**-0.56**	**40.1**	**+2.1**
Bear River														
Evanston	Uinta	6,860	7.53	-6.43	2.52	-0.63	1.30	-2.57	1.87	-1.92	1.84	-1.31	40.1	+0.5
Border	Lincoln	6,065	12.28	-0.30	4.75	+2.04	2.43	-1.28	3.54	+0.11	1.56	-1.17	39.7	+1.8
Average*	.....	.....	**9.90**	**-3.36**	**3.64**	**+0.70**	**1.86**	**-1.92**	**2.70**	**-0.90**	**1.70**	**-1.24**	**39.9**	**+1.2**
Snake River														
Afton (near)	Lincoln	6,225	15.00	-3.09	3.59	-1.23	3.75	-0.47	4.83	-0.35	2.83	-1.04	(2)	(2)
Moran	Teton	6,770	21.38	-0.09	6.35	+1.32	7.06	-0.16	5.54	+0.39	2.43	-1.64	34.7	+0.6
Jackson	Teton	6,244	14.63	-2.99	4.49	+0.39	3.20	-1.57	4.81	+0.53	2.13	-2.34	38.9	+1.5
Average*	.....	.....	**17.00**	**-2.06**	**4.81**	**+0.16**	**4.67**	**-0.73**	**5.06**	**+0.19**	**2.46**	**-1.67**	**36.8**	**+1.0**

[1] Departure from normal. [2] Data not available. *Average for drainage basin group.

CHARGES, INDEBTEDNESS AND ARREARAGE, TYPE OF ENTERPRISE, PAY ROLL, NUMBER OF EMPLOYEES, AREAS IRRIGATED, AND COST OF WORKS: CENSUS OF 1940—Continued

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
[3]1	.....	.....	[3]1	[3]2	[3]1	.....	[3]1	3	[3]1	19
.....	.....	.....	1,508	8,679	14,120	.....	6,000	18,307	.....	20
845,000	.....	.....	7,500	37,914	39,000	.....	200	84,214	845,000	21
.....	.....	.....	4.97	4.37	2.76	.....	0.03	4.60	.....	22
1,000,000	.....	.....	18,000	64,724	66,000	.....	5,000	143,724	1,000,000	23
1,500	.....	.....	50	400	1,500	.....	.....	1,950	1,500	24
1,001,500	.....	.....	18,050	65,124	67,500	.....	5,000	145,674	1,001,500	25
2	.....	.....	50	13,900	309	.....	400	13,859	2	26
.....	.....	.....	1,131	14,562	311	.....	600	15,404	.....	27
10,800	.....	.....	636	5,040	2,750	.....	600	7,826	10,800	28
.....	.....	.....	1,508	8,727	14,120	.....	6,000	18,355	.....	29
.....	.....	.....	4.97	4.34	2.76	.....	0.03	4.59	.....	30
.....	.....	.....	0.75	1.67	0.02	.....	0.10	0.84	.....	31
.....	.....	.....	0.75	1.68	0.02	.....	0.10	0.84	.....	32
[3]1	.....	.....	[3]1	.....	.....	.....	.....	[3]1	[3]1	33
.....	.....	.....	1,508	.....	.....	.....	.....	1,508	.....	34
7,200	.....	.....	700	.....	.....	.....	.....	700	7,200	35
.....	.....	.....	0.46	.....	.....	.....	.....	0.46	.....	36
845,000	.....	.....	7,500	.....	.....	.....	.....	7,500	845,000	37
2	28	9	6	1	.....	44	2	.....	.....	38
1	.....	.....	3	8	1	5	3	5	.....	39
1	.....	.....	1	2	1	.....	1	3	1	40
1	.....	.....	.....	.....	1	1	.....	.....	1	41
[3]1	.....	.....	1	8	2	3	1	7	[3]1	42
1,500	.....	.....	([5])	2,906	([5])	518	([5])	3,346	1,500	43
6	.....	.....	.....	3	([5])	1	.....	4	6	44
.....	3	.....	.....	1	.....	3	.....	1	.....	45
.....	.....	1	.....	.....	.....	1	.....	.....	.....	46
5	25	8	10	10	3	46	6	7	2	47

[4]Annual charges, reported only by enterprises serving 5 or more farms, may include for these enterprises costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

Precipitation in Wyoming during both the calendar year 1939 and the water year (October 1938 through September 1939), as reported by the United States Weather Bureau, was substantially below normal; for the calendar year precipitation averaged approximately 73 percent of normal. In October and December 1938, and February and June 1939, precipitation was slightly above normal, but in all other months of both calendar and water years the precipitation was deficient.

For the water year, the run-off from principal watersheds, as measured by the United States Geological Survey at representative stations, averaged slightly more than half of normal (53 percent). At the close of 1938 a good supply of water was in most irrigation reservoirs, but because of high temperatures and low humidity in the spring months of 1939, snow in many of the higher mountains of the southern part of the State melted rapidly and the moisture evaporated instead of finding its way into the streams. As a result, the volume of run-off was low and it was only on account of the large storage carry-over that there was sufficient water for irrigation in several important valleys.

Temperatures in Wyoming during both the calendar year 1939 and the water year (October 1938 through September 1939) were somewhat warmer than normal, only November 1938 and February, June, and August, 1939 showing mean temperatures below normal.

In comparison, the precipitation for the calendar year 1929, when the last previous irrigation census was taken, was almost the normal, the departure for the State being -0.01 inch, while the temperature was colder than usual in most sections.

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DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER			
			Total[1]		Yellowstone River	
					Total	Clarks Fork (12)
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms....1939...number....	11,527	9,203		6,176	93
2	Area irrigated....1939...acres....	1,486,498	1,066,757		526,919	11,217
3	(a) Cropland harvested....1939...acres....	1,193,997	879,011		444,532	8,796
4	(b) Crop failure....1939...acres....	16,550	13,622		5,131	23
5	(c) Pasture....1939...acres....	275,951	174,124		77,256	2,398
6	Area irrigated....1929...acres....	1,236,155	900,523		426,595	6,658
7	1919...acres....	1,207,982	869,845		448,671	8,897
8	Increase or decrease (-), 1929-1939....percent....	20.3	18.5		23.5	68.5
9	Irrigable area in enterprises....1940...acres....	2,277,046	1,655,772		799,851	15,723
10	1930...acres....	1,958,147	1,449,657		750,147	11,035
11	1920[3]...acres....	2,564,668	1,895,348		968,053	15,640
12	Excess of irrigable area over the area irrigated..1940...acres....	790,548	589,015		272,932	4,506
13	1930...acres....	721,992	549,334		323,552	4,377
14	1920[3]...acres....	1,356,686	1,025,503		519,382	6,743
15	Area works were capable of supplying with water...1940...acres....	1,913,527	1,410,582		688,184	14,688
16	1930...acres....	1,655,008	1,217,344		596,983	11,035
17	1920...acres....	1,831,039	1,308,438		653,949	14,121
18	Increase or decrease (-), 1930-1940....percent....	15.6	15.9		15.3	33.1
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	427,029	343,825		161,265	3,471
20	1930...acres....	418,853	316,821		170,388	4,377
21	1920...acres....	623,057	438,593		205,278	5,224
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	77.7	75.6		76.6	76.4
23	1929...percent....	74.7	74.0		71.5	60.3
24	1919...percent....	66.0	66.5		68.6	63.0
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises....1940...dollars....	41,522,801	37,358,108		21,687,868	309,513
26	(a) Cost of irrigation works and equipment....1940...dollars....	41,057,813	37,001,274		21,583,244	306,707
27	(b) Investment in water rights (reported)....1940...dollars....	464,988	356,834		104,624	2,806
28	Total investment in irrigation enterprises....1930...dollars....	35,153,187	31,313,543		19,001,400	71,975
29	1920...dollars....	34,326,328	29,818,236		16,419,213	117,292
30	Increase or decrease (-), 1930-1940....percent....	18.1	19.3		14.1	330.0
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	21.70	26.48		31.51	21.07
32	1930...dollars....	21.24	25.72		31.83	6.52
33	1920...dollars....	18.75	22.79		25.11	8.31
34	Average investment per acre irrigated....1939...dollars....	27.93	35.02		41.16	27.59
35	Estimated final investment in existing enterprises..1940...dollars....	48,539,663	43,860,036		27,091,578	311,823
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	21.32	26.49		33.87	19.83
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Supplemental Enterprises	Primary	Supplemental	Primary	Supplemental
			Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	2,967 / 59	2,005	36	1,027	27 / 62
38	Area irrigated in these enterprises....1939...acres....	1,421,852 / 93,014	1,017,404	62,736	517,769	40,214 / 11,068
39	Cost of maintenance and operation....1939...dollars....	807,345 / 31,923	693,484	30,168	438,899	18,214 / 6,881
40	Average cost, per acre irrigated....1939...dollars....	0.57 / 0.34	0.68	0.48	0.85	0.45 / 0.62
41	Total annual charges (reported)[7] [8]....1939...dollars....	631,343 / 31,368	578,489	30,600	417,841	19,419 / 3,100
42	Average annual charge per acre irrigated....1939...dollars....	0.87 / 0.38	0.96	0.55	1.09	0.52 / 0.62
43	Area against which charges were assessed....1939...acres....	852,728 / 82,504	689,406	55,908	444,531	37,633 / 5,285
44	Average annual charge per acre assessed....1939...dollars....	0.74 / 0.38	0.84	0.55	0.94	0.52 / 0.59
45	Total charges collected[7]....1939...dollars....	447,354 / 24,806	394,095	22,056	246,926	21,654 / 2,441
46	Indebtedness to December 31 (reported)[8]....1939...dollars....	15,770,071 / 929,414	15,273,594	890,414	10,784,703	890,414 / .....
	WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered....1939...number....	2,999 / 55	1,988	34	1,044	26 / 54
48	Area irrigated by these enterprises....1939...acres....	1,360,506 / 67,746	969,928	57,475	487,348	38,653 / 7,868
49	Water delivered....1939...acre-feet..	2,833,092 / 56,521	1,887,138	44,218	1,167,974	34,613 / 25,493
50	Average water delivered per acre irrigated....1939...acre-feet..	2.1 / 0.8	1.9	0.8	2.4	0.9 / 3.2
51	Average cost of water per acre irrigated....1939...dollars....	0.66 / 0.48	0.79	0.55	0.99	0.52 / 0.82
52	Average cost of water per acre-foot delivered..1939...dollars....	0.31 / 0.58	0.41	0.72	0.41	0.58 / 0.25
	DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage....1939...number....	145 /	128	.....	76	..... / 2
54	Irrigable area in these enterprises....1939...acres....	843,642 /	730,604	.....	452,645	..... / (4)
55	Irrigated area in these enterprises....1939...acres....	456,760 /	419,891	.....	266,876	..... / (4)
56	Area for which drains have been installed....1939...acres....	175,394 /	175,368	.....	138,138	..... / (4)
57	Additional area needing drainage....1939...acres....	44,997 /	37,270	.....	27,203	..... / (4)

[1] Data for 1 enterprise in Niobrara River Drainage Basin (33) (number refers to separate map) are included with Missouri River Total.
[2] Data for 2 enterprises in Little Horn River Drainage Basin (9) (number refers to separate map) are included with Big Horn River "Direct" Drainage Basin (10).
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[4] Less than one-tenth of 1 percent.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939

MISSOURI RIVER—Continued

Yellowstone River—Continued

Big Horn River

	Total	Direct[2] (10)	Popo Agie River (31)		Wind River (25)	Owl Creek (44)		Cottonwood Creek (18)		Gooseberry Creek (17)	Nowood Creek (19)	Greybull River (15)		
			Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises			Primary Enterprises	Sup. Enterprises	
1	5,017	645	103	5	944	50	[5] 1	22	[5] 1	14	96	46	2	37
2	388,964	61,706	46,891	6,131	73,157	11,900	2,679	2,860	1,508	2,779	15,442	46,616	([6])	38
3	326,993	54,709	36,469	515	62,781	10,623	13,500	2,675	50	2,549	13,904	37,713	([6])	39
4	3,716	320	230	0.08	440	452	5.04	171	0.03	190	52	1,779	([6])	40
5	58,255	6,677	11,749	600	9,936	825	5,527	14	1,131	40	1,486	9,034	10,067	41
6	318,607	47,016	21,131	0.10	51,789	16,148	5.21	.....	0.75	.....	15,254	52,138	0.32	42
7	307,846	44,207	22,073	6,000	43,620	11,610	2,727	.....	1,508	.....	18,416	49,231	41,000	43
8	22.1	31.2	129.3	0.10	41.3	-26.3	5.12	.....	0.75	.....	1.2	-6.9	0.25	44
9	618,163	73,313	88,884	600	161,230	19,473	4,440	4,794	636	4,823	20,701	70,784	11,744	45
10	623,351	58,998	31,343	200	224,983	20,051	37,714	.....	7,500	.....	21,478	70,308	845,000	46
11	750,261	81,648	34,723		228,338	14,546		.....		.....	26,193	93,543		47
12	229,199	11,607	40,436		88,073	7,573		1,934		2,044	5,259	22,258		48
13	304,744	11,982	10,212		173,194	3,903		.....		.....	6,224	18,170		49
14	442,415	37,441	12,650		184,718	2,936		.....		.....	7,777	44,312		50
15	512,460	69,123	77,943		97,588	19,274		4,675		4,823	18,590	65,313		51
16	475,301	55,023	26,189		116,788	18,924		.....		.....	19,778	65,331		52
17	468,198	61,285	34,375		77,122	12,951		.....		.....	22,080	79,134		53
18	7.8	25.6	197.6		-16.4	1.8		.....		.....	-6.0	([4])		54
19	123,496	7,417	29,495		24,431	7,374		1,815		2,044	3,148	16,787		55
20	156,694	8,007	5,058		64,999	2,776		.....		.....	4,524	13,193		56
21	160,352	17,078	12,302		33,502	1,341		.....		.....	3,664	29,903		57
22	75.9	89.3	62.2		75.0	61.7		61.2		57.6	83.1	74.3		58
23	67.0	85.4	80.7		44.3	85.3		.....		.....	77.1	79.8		59
24	65.8	72.1	64.2		56.6	89.6		.....		.....	83.4	62.2		60
25	19,338,912	1,506,357	2,220,420		6,538,301	210,292		91,036		46,561	268,485	1,590,651		61
26	19,268,120	1,501,670	2,210,948		6,526,528	207,299		88,290		45,100	261,246	1,569,743		62
27	70,792	4,687	9,472		11,773	2,993		2,746		1,461	7,239	20,908		63
28	17,389,656	695,847	235,333		5,949,958	110,235		.....		.....	162,731	413,845		64
29	14,330,800	1,330,576	349,546		2,101,819	52,915		.....		.....	161,588	503,184		65
30	11.2	116.5	843.5		9.9	90.8		.....		.....	65.0	284.4		66
31	37.74	21.79	28.49		67.00	10.91		19.47		9.65	14.44	24.35		67
32	36.59	12.65	8.99		50.95	5.83		.....		.....	8.23	6.33		68
33	30.61	21.71	10.17		27.25	4.09		.....		.....	7.32	6.36		69
34	49.72	24.41	45.83		89.37	17.67		31.83		16.75	17.39	32.78		70
35	24,731,647	1,552,882	3,443,633		10,160,273	210,292		92,536		46,561	271,010	1,595,901		71
36	40.01	21.18	38.74		63.02	10.80		19.30		9.65	13.09	22.55		72
	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises			Primary Enterprises	Sup. Enterprises	
37	625	12	96	103	5	95	50	[5] 1	22	[5] 1	14	96	46	2	37
38	384,576	10,530	61,666	46,891	6,131	72,719	11,699	2,679	2,860	1,508	2,719	15,442	46,616	([6])	38
39	380,257	14,368	75,576	58,478	515	87,835	3,813	13,500	2,088	50	1,470	18,918	11,252	([6])	39
40	0.99	1.36	1.23	1.25	0.08	1.21	0.33	5.04	0.73	0.03	0.54	1.23	0.24	([6])	40
41	385,615	15,693	82,486	55,076	600	78,939	1,527	13,962	500	1,131	.....	2,837	10,067	.....	41
42	1.26	1.54	1.54	1.43	0.10	1.33	0.28	5.21	0.67	0.75	.....	0.64	0.32	.....	42
43	361,730	10,235	55,093	57,986	6,000	68,254	8,044	2,727	750	1,508	.....	5,082	41,000	.....	43
44	1.07	1.53	1.50	0.95	0.10	1.16	0.19	5.12	0.67	0.75	.....	0.56	0.25	.....	44
45	219,835	16,476	72,978	22,640	600	65,231	.....	4,440	.....	636	.....	487	11,744	10,800	45
46	10,784,003	890,414	226,441	1,222,672	200	5,944,365	.....	37,714	.....	7,500	.....	.....	.....	845,000	46
47	616	11	88	110	5	93	52	[5] 1	18	[5] 1	14	94	46	1	47
48	361,281	10,530	47,269	42,884	6,131	70,740	11,900	2,679	2,779	1,508	2,719	15,379	46,268	([6])	48
49	971,628	6,860	111,131	120,121	1,718	172,292	13,105	4,500	5,112	300	3,739	53,443	87,670	([6])	49
50	2.7	0.7	2.4	2.8	0.3	2.4	1.1	1.7	1.8	0.2	1.4	3.5	1.9	([6])	50
51	1.17	1.53	1.61	1.37	0.12	1.20	0.31	5.21	0.69	0.75	0.54	1.10	0.34	([6])	51
52	0.43	2.35	0.68	0.49	0.42	0.49	0.28	3.10	0.38	3.77	0.39	0.32	0.18	([6])	52
53	58	.....	6	14	.....	7	3	.....	1	.....	.....	7	7	.....	53
54	427,243	.....	56,095	61,950	.....	138,436	4,124	.....	([6])	.....	.....	2,509	32,518	.....	54
55	250,206	.....	48,027	28,345	.....	57,440	946	.....	([6])	.....	.....	2,259	22,486	.....	55
56	137,536	.....	27,706	2,563	.....	21,572	80	.....	.....	.....	.....	.....	14,380	.....	56
57	26,593	.....	3,140	4,156	.....	2,312	101	.....	([6])	.....	.....	187	2,144	.....	57

[5] Data for less than 3 enterprises shown with permission of the enterprise involved.
[6] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[7] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[8] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued					
		Yellowstone River—Continued					
		Big Horn River—Continued				Tongue River	
		Shell Creek (74)		Shoshone River (11)		Total	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	124		1,704		711	
2	Area irrigated....1939...acres....	11,361		112,785		72,222	
3	(a) Cropland harvested....1939...acres....	10,447		95,123		64,219	
4	(b) Crop failure....1939...acres....	42		40		56	
5	(c) Pasture....1939...acres....	872		17,622		7,947	
6	Area irrigated....1929...acres....	7,110		95,636		52,195	
7	1919...acres....	11,955		95,091		43,025	
8	Increase or decrease (-), 1929-1939....percent....	59.8		17.9		38.4	
9	Irrigable area in enterprises....1940...acres....	13,705		160,456		86,023	
10	1930...acres....	13,894		163,768		57,917	
11	1920[2]...acres....	24,005		217,998		69,167	
12	Excess of irrigable area over the area irrigated..1940...acres....	2,344		47,671		13,801	
13	1930...acres....	6,784		68,132		5,722	
14	1920[2]...acres....	12,050		122,907		26,142	
15	Area works were capable of supplying with water...1940...acres....	13,705		141,426		85,687	
16	1930...acres....	13,795		142,902		55,453	
17	1920...acres....	22,406		134,431		59,290	
18	Increase or decrease (-), 1930-1940....percent....	-0.7		-1.0		54.5	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	2,344		28,641		13,465	
20	1930...acres....	6,685		47,266		3,258	
21	1920...acres....	10,451		39,340		16,265	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	82.9		79.7		84.3	
23	1929...percent....	51.5		66.9		94.1	
24	1919...percent....	53.4		70.7		72.6	
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	133,380		6,733,429		1,103,939	
26	(a) Cost of irrigation works and equipment....1940...dollars....	130,875		6,726,421		1,086,439	
27	(b) Investment in water rights (reported)....1940...dollars....	2,505		7,008		17,500	
28	Total investment in irrigation enterprises....1930...dollars....	386,300		9,285,642		723,271	
29	1920...dollars....	380,420		8,702,480		811,125	
30	Increase or decrease (-), 1930-1940....percent....	-65.5		-27.5		52.6	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	9.73		47.61		12.88	
32	1930...dollars....	28.00		64.98		13.04	
33	1920...dollars....	16.98		64.74		13.68	
34	Average investment per acre irrigated....1939...dollars....	11.74		59.70		15.29	
35	Estimated final investment in existing enterprises..1940...dollars....	133,380		7,225,179		1,108,904	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	9.73		45.03		12.89	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	37	1	66	2	175	8
38	Area irrigated in these enterprises....1939...acres....	11,263	(3)	112,701	(3)	70,002	14,562
39	Cost of maintenance and operation....1939...dollars....	6,448	(3)	114,379	(3)	28,016	2,017
40	Average cost, per acre irrigated....1939...dollars....	0.57	(3)	1.01	(3)	0.40	0.14
41	Total annual charges (reported)[4] [5]....1939...dollars....	4,760	.....	149,423	.....	19,210	1,870
42	Average annual charge per acre irrigated....1939...dollars....	0.66	.....	1.40	.....	0.37	0.14
43	Area against which charges were assessed....1939...acres....	7,208	.....	118,313	.....	54,917	12,898
44	Average annual charge per acre assessed....1939...dollars....	0.66	.....	1.26	.....	0.35	0.14
45	Total charges collected[4]....1939...dollars....	3,160	.....	43,595	.....	18,102	3,168
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	2,500	.....	3,388,025	.....	700	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	37	1	64	2	189	7
48	Area irrigated by these enterprises....1939...acres....	10,031	(3)	111,312	(3)	63,722	12,962
49	Water delivered....1939...acre-feet..	37,519	(3)	367,496	(3)	94,910	15,796
50	Average water delivered per acre irrigated....1939...acre-feet..	3.7	(3)	3.3	(3)	1.5	1.2
51	Average cost of water per acre irrigated....1939...dollars....	0.69	(3)	1.39	(3)	0.42	0.15
52	Average cost of water per acre-foot delivered..1939...dollars....	0.18	(3)	0.42	(3)	0.28	0.12
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	.....	13	.....	9	.....
54	Irrigable area in these enterprises....1939...acres....	.....	.....	130,861	.....	10,122	.....
55	Irrigated area in these enterprises....1939...acres....	.....	.....	89,953	.....	9,824	.....
56	Area for which drains have been installed....1939...acres....	.....	.....	71,235	.....	442	.....
57	Additional area needing drainage....1939...acres....	.....	.....	14,403	.....	162	.....

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

MISSOURI RIVER—Continued														
Yellowstone River—Continued														
Tongue River—Continued				Powder River										
Direct (6)		Goose Creek (8)		Total		Direct (5)		South Fork (24)	Middle Fork (22)	Crazy Woman Creek (20)		Clear Creek (7)		Little Powder River (4)	
322		389		355		49		9	47	46		200		4	1
34,767		37,455		54,516		5,085		1,490	8,616	7,796		31,236		293	2
30,483		33,736		44,524		5,039		1,219	7,674	6,156		24,143		293	3
56		.....		1,336		25		271	153	554		333		.....	4
4,228		3,719		8,656		21		.....	789	1,086		6,760		.....	5
8,914		35,455		49,135		4,703		.....	450	2,600		35,295		.....	6
9,805		27,627		88,903		2,465		.....	3,341	21,965		50,648		.....	7
290.0		5.6		11.0		8.1		.....	(1)	199.8		-11.5		.....	8
47,755		38,268		79,942		5,570		3,259	12,043	11,944		46,621		505	9
10,534		38,499		57,844		4,703		.....	450	4,188		38,338		.....	10
11,679		43,817		132,985		4,975		.....	4,271	29,684		71,560		.....	11
12,988		813		25,426		485		1,769	3,427	4,148		15,385		212	12
1,620		3,044		8,709		.....		.....	.....	1,588		3,043		.....	13
1,874		16,190		44,082		2,510		.....	930	7,719		20,912		.....	14
47,470		38,217		75,349		5,530		3,209	11,953	9,342		44,825		490	15
10,534		36,884		55,194		4,703		.....	450	4,146		35,960		.....	16
10,771		37,749		112,340		4,962		.....	3,385	24,151		63,735		.....	17
350.6		3.6		36.5		17.6		.....	(1)	125.3		24.7		.....	18
12,703		762		20,833		445		1,719	3,337	1,546		13,589		197	19
1,620		1,429		6,059		.....		.....	.....	1,546		665		.....	20
966		10,122		23,437		2,497		.....	44	2,186		13,087		.....	21
73.2		98.0		72.4		92.0		46.4	72.1	83.5		69.7		59.8	22
84.6		96.1		89.0		100.0		.....	100.0	62.7		98.2		.....	23
91.0		73.2		79.1		49.7		.....	98.7	90.9		79.5		.....	24
452,339		651,600		935,504		61,114		13,890	87,285	132,930		634,260		6,025	25
440,143		646,296		921,978		60,143		13,800	85,340	130,475		626,305		5,915	26
12,196		5,304		13,526		971		90	1,945	2,455		7,955		110	27
85,814		584,639		816,498		160,000		.....	15,300	23,850		551,488		.....	28
125,555		563,518		1,159,996		152,100		.....	78,500	127,791		553,465		.....	29
527.1		11.5		14.6		-61.8		.....	470.5	457.4		15.0		.....	30
9.53		17.05		12.42		11.05		4.33	7.30	14.23		14.15		12.30	31
8.15		15.85		14.79		34.02		.....	34.00	5.75		15.34		.....	32
11.66		14.93		10.33		30.65		.....	23.19	5.29		8.68		.....	33
13.01		17.40		17.16		12.02		9.32	10.13	17.05		20.31		20.56	34
457,289		651,615		939,204		62,264		14,090	87,585	133,980		635,260		6,025	35
9.58		17.03		11.75		12.22		4.32	6.79	11.22		13.63		11.93	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.		
114	1	61	7	165	7	11	.....	6	31	31	3	84	4	2	37
33,260	(3)	36,742	10,562	52,123	15,122	4,986	.....	1,329	8,616	7,344	887	29,825	14,235	(3)	38
9,670	(3)	18,346	1,583	23,545	1,829	4,622	.....	715	5,885	2,252	150	10,020	1,679	(3)	39
0.29	(3)	0.50	0.15	0.45	0.12	0.93	.....	0.54	0.68	0.31	0.17	0.34	0.12	(3)	40
3,352	600	15,858	1,270	9,916	1,856	4,283	.....	.....	951	300	.....	4,382	1,856	.....	41
0.19	0.15	0.47	0.14	0.47	0.13	0.90	.....	.....	1.05	0.24	.....	0.31	0.13	.....	42
20,951	4,006	33,966	8,898	22,599	14,500	4,759	.....	.....	906	1,250	.....	15,684	14,500	.....	43
0.16	0.15	0.47	0.14	0.44	0.13	0.90	.....	.....	1.05	0.24	.....	0.28	0.13	.....	44
3,547	938	14,555	2,230	6,548	2,010	4,283	.....	.....	951	300	.....	1,014	2,010	.....	45
400	.....	300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
128	1	61	6	185	8	17	1	7	31	34	3	92	4	4	47
31,892	(3)	31,830	8,962	54,477	15,161	5,085	(3)	1,451	6,616	7,796	887	31,236	14,235	293	48
49,350	(3)	45,560	2,314	75,943	11,957	10,025	(3)	1,533	10,810	6,382	216	47,001	11,671	192	49
1.5	(3)	1.4	0.3	1.4	0.8	2.0	(3)	1.1	1.3	0.8	0.2	1.5	0.8	0.7	50
0.30	(3)	0.53	0.15	0.46	0.13	0.93	.....	0.53	0.68	0.30	0.17	0.35	0.13	2.17	51
0.19	(3)	0.37	0.57	0.33	0.17	0.47	.....	0.51	0.54	0.36	0.69	0.23	0.16	3.33	52
3	.....	6	.....	7	.....	.....	.....	1	1	.....	.....	5	.....	.....	53
3,550	.....	6,572	.....	13,109	.....	.....	.....	(3)	(3)	.....	.....	12,710	.....	.....	54
3,279	.....	6,545	.....	5,645	.....	.....	.....	(3)	(3)	.....	.....	5,251	.....	.....	55
45	.....	397	.....	80	.....	.....	.....	(3)	.....	.....	.....	.....	.....	.....	56
62	.....	100	.....	398	.....	.....	.....	.....	(3)	.....	.....	368	.....	.....	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued					
			Cheyenne River				
				Belle Fourche River			
		Little Missouri River	Total	Total	Direct	Redwater Creek	South Fork
		(3)			(2)	(1)	(21)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	2	63	30	17	13	33
2	Area irrigated....1939...acres....	(2)	4,722	898	371	527	3,824
3	(a) Cropland harvested....1939...acres....	(2)	3,922	765	261	504	3,157
4	(b) Crop failure....1939...acres....	.....	212	15	8	7	197
5	(c) Pasture....1939...acres....	(2)	588	118	102	16	470
6	Area irrigated....1929...acres....	.....	3,503	457	457	.....	3,046
7	1919...acres....	60	7,872	1,966	1,966	.....	5,906
8	Increase or decrease (-), 1929-1939....percent....	.....	34.8	96.5	-18.8	.....	25.5
9	Irrigable area in enterprises....1940...acres....	(2)	10,974	2,804	2,058	746	8,170
10	1930...acres....	.....	7,678	657	657	.....	7,021
11	1920[3]...acres....	60	16,818	5,054	5,054	.....	11,764
12	Excess of irrigable area over the area irrigated..1940...acres....	(2)	6,252	1,906	1,687	219	4,346
13	1930...acres....	.....	4,175	200	200	.....	3,975
14	1920[3]...acres....	.....	8,946	3,088	3,088	.....	5,858
15	Area works were capable of supplying with water...1940...acres....	(2)	9,392	2,072	1,488	584	7,320
16	1930...acres....	.....	4,475	632	632	.....	3,843
17	1920...acres....	60	11,531	3,621	3,621	.....	7,910
18	Increase or decrease (-), 1930-1940....percent....	.....	109.9	227.8	135.4	.....	90.5
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres	(2)	4,670	1,174	1,117	57	3,496
20	1930...acres....	.....	972	175	175	.....	797
21	1920...acres....	.....	3,659	1,655	1,655	.....	2,004
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	(2)	50.3	43.3	24.9	90.2	52.2
23	1929...percent....	.....	78.3	72.3	72.3	.....	79.3
24	1919...percent....	100.0	68.3	54.3	54.3	.....	74.7
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940...dollars....	6,673	97,523	38,186	28,393	9,793	59,337
26	(a) Cost of irrigation works and equipment.....1940...dollars....	6,558	94,431	37,249	27,676	9,573	57,182
27	(b) Investment in water rights (reported).....1940...dollars....	115	3,092	937	717	220	2,155
28	Total investment in irrigation enterprises.....1930...dollars....	.....	36,965	3,100	3,100	.....	33,865
29	1920...dollars....	726	242,886	76,066	76,066	.....	166,820
30	Increase or decrease (-), 1930-1940....percent....	.....	163.8	[4]	815.9	.....	75.2
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	15.70	10.38	18.43	19.08	16.77	8.11
32	1930...dollars....	.....	8.26	4.91	4.91	.....	8.81
33	1920...dollars....	12.10	21.06	21.01	21.01	.....	21.09
34	Average investment per acre irrigated.....1939...dollars....	25.18	20.65	42.52	76.53	18.58	15.52
35	Estimated final investment in existing enterprises..1940...dollars....	11,673	107,963	45,511	35,168	10,343	62,452
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	16.21	9.84	16.23	17.09	13.86	7.64
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number....	4	51	28	19	9	23
38	Area irrigated in these enterprises.....1939...acres....	250	3,810	846	319	527	2,964
39	Cost of maintenance and operation.....1939...dollars....	103	2,731	920	613	307	1,811
40	Average cost, per acre irrigated.....1939...dollars....	0.41	0.72	1.09	1.92	0.58	0.61
41	Total annual charges (reported)[5] [6].....1939...dollars....	.....	76	76	.....	76	.....
42	Average annual charge per acre irrigated.....1939...dollars....	.....	0.48	0.48	.....	0.48	.....
43	Area against which charges were assessed.....1939...acres....	.....	160	160	.....	160	.....
44	Average annual charge per acre assessed.....1939...dollars....	.....	0.48	0.48	.....	0.48	.....
45	Total charges collected[6].....1939...dollars....	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[6].....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939...number....	2	56	26	17	9	30
48	Area irrigated by these enterprises.....1939...acres....	(2)	4,657	898	371	527	3,759
49	Water delivered.....1939...acre-feet..	(2)	4,539	887	303	584	3,652
50	Average water delivered per acre irrigated.....1939...acre-feet..	(2)	1.0	1.0	0.8	1.1	1.0
51	Average cost of water per acre irrigated.....1939...dollars....	(2)	0.69	0.96	1.60	0.58	0.61
52	Average cost of water per acre-foot delivered..1939...dollars....	(2)	0.71	0.98	1.95	0.53	0.63
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939...number....	.....	.....	.....	.....	.....	.....
54	Irrigable area in these enterprises.....1939...acres....	.....	.....	.....	.....	.....	.....
55	Irrigated area in these enterprises.....1939...acres....	.....	.....	.....	.....	.....	.....
56	Area for which drains have been installed.....1939...acres....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage.....1939...acres....	.....	.....	.....	.....	.....	.....

[1] Data for 2 enterprises in Great Divide Drainage Basin (50) (number refers to separate map) are included with North Platte River "Direct" Drainage Basin (32).
[2] Data are included only in totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

| | MISSOURI RIVER—Continued | | |

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued					
		North Platte River—Continued					
		Medicine Bow River—Continued					
		Rock Creek (71)	Little Medicine Bow River				Sweetwater River (38)
			Total	Direct (73)	Sheep Creek (72)	Muddy Creek (68)	
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	40	28	8	14	6	44
2	Area irrigated....1939...acres....	40,090	7,460	1,805	2,625	3,030	15,796
3	(a) Cropland harvested....1939...acres....	31,782	6,390	1,555	2,505	2,330	7,936
4	(b) Crop failure....1939...acres....	600	.....	.....	.....	.....	181
5	(c) Pasture....1939...acres....	7,708	1,070	250	120	700	7,679
6	Area irrigated....1929...acres....	.....	400	.....	.....	400	6,506
7	1919...acres....	.....	657	.....	.....	657	5,448
8	Increase or decrease (-), 1929-1939....percent....	.....	(1)	.....	.....	657.5	142.8
9	Irrigable area in enterprises....1940...acres....	113,174	8,530	2,720	2,780	3,030	18,002
10	1930...acres....	.....	400	.....	.....	400	8,697
11	1920[2]...acres....	.....	1,112	.....	.....	1,112	14,166
12	Excess of irrigable area over the area irrigated..1940...acres....	73,084	1,070	915	155	.....	2,206
13	1930...acres....	.....	.....	.....	.....	.....	2,191
14	1920[2]..acres....	.....	455	.....	.....	455	8,718
15	Area works were capable of supplying with water...1940...acres....	45,320	7,845	2,090	2,725	3,030	17,741
16	1930...acres....	.....	400	.....	.....	400	8,519
17	1920...acres....	.....	677	.....	.....	677	10,593
18	Increase or decrease (-), 1930-1940....percent....	.....	(1)	.....	.....	657.5	108.3
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	5,230	385	285	100	.....	1,945
20	1930...acres....	.....	.....	.....	.....	.....	2,013
21	1920...acres....	.....	20	.....	.....	20	5,145
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	88.5	95.1	86.4	96.3	100.0	89.0
23	1929...percent....	.....	100.0	.....	.....	100.0	76.4
24	1919...percent....	.....	97.0	.....	.....	97.0	51.4
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	1,254,703	46,801	14,835	14,981	16,985	167,112
26	(a) Cost of irrigation works and equipment....1940...dollars....	1,126,000	44,630	14,450	14,550	15,630	155,775
27	(b) Investment in water rights (reported)....1940...dollars....	128,703	2,171	385	431	1,355	11,337
28	Total investment in irrigation enterprises....1930...dollars....	.....	6,000	.....	.....	6,000	78,200
29	1920...dollars....	.....	7,770	.....	.....	7,770	87,322
30	Increase or decrease (-), 1930-1940....percent....	.....	680.0	.....	.....	183.1	113.7
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	27.69	5.97	7.10	5.50	5.61	9.42
32	1930...dollars....	.....	15.00	.....	.....	15.00	9.18
33	1920...dollars....	.....	11.48	.....	.....	11.48	8.24
34	Average investment per acre irrigated....1939...dollars....	31.30	6.27	8.22	5.71	5.61	10.58
35	Estimated final investment in existing enterprises..1940...dollars....	1,454,703	47,551	15,035	15,531	16,985	174,212
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	12.85	5.57	5.63	5.59	5.61	9.68
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
37	Enterprises reporting maintenance and operation...1939...number....	20	27	8	14	5	30
38	Area irrigated in these enterprises....1939...acres....	39,925	7,450	1,805	2,625	3,020	9,700
39	Cost of maintenance and operation....1939...dollars....	9,430	3,016	1,100	1,595	321	3,726
40	Average cost, per acre irrigated....1939...dollars....	0.24	0.40	0.61	0.61	0.11	0.38
41	Total annual charges (reported)[4] [5]....1939...dollars....	8,084	.....	.....	.....	.....	.....
42	Average annual charge per acre irrigated....1939...dollars....	0.38	.....	.....	.....	.....	.....
43	Area against which charges were assessed....1939...acres....	21,458	.....	.....	.....	.....	.....
44	Average annual charge per acre assessed....1939...dollars....	0.38	.....	.....	.....	.....	.....
45	Total charges collected[4]....1939...dollars....	4,865	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	11	28	8	14	6	42
48	Area irrigated by these enterprises....1939...acres....	26,753	7,460	1,805	2,625	3,030	15,265
49	Water delivered....1939...acre-feet..	28,499	8,665	1,434	985	6,246	23,478
50	Average water delivered per acre irrigated....1939...acre-feet..	1.1	1.2	0.8	0.4	2.1	1.5
51	Average cost of water per acre irrigated....1939...dollars....	0.39	0.40	0.61	0.61	0.11	0.35
52	Average cost of water per acre-foot delivered..1939...dollars....	0.37	0.35	0.77	1.62	0.05	0.23
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	1	.....	.....	.....	.....	.....
54	Irrigable area in these enterprises....1939...acres....	(3)	.....	.....	.....	.....	.....
55	Irrigated area in these enterprises....1939...acres....	(3)	.....	.....	.....	.....	.....
56	Area for which drains have been installed....1939...acres....	(3)	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	.....	.....

[1] Percent not shown when more than 1,000.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

Box Elder Creek (37)	La Prele Creek (36)	La Bonte Creek (35)	Laramie River: Total	Laramie River: Direct (64)	Laramie River: Little Laramie River (63)	Laramie River: Sybille Creek (55)	Laramie River: North Laramie River (52)	Laramie River: Chugwater Creek (54)	Rawhide Creek (34)	Horse Creek (53)	
MISSOURI RIVER—Continued											
North Platte River—Continued											
23	122	35	838	599	108	28	55	48	3	187	1
2,519	10,678	6,631	164,276	91,395	51,465	4,238	6,647	10,531	340	23,391	2
2,444	9,967	6,370	135,033	80,926	33,686	4,232	5,848	10,341	340	22,006	3
30	280	68	2,674	1,962	20	6	536	150	.....	1,005	4
45	431	193	26,569	8,507	17,759	.....	263	40	.....	380	5
3,742	16,549	4,383	179,019	98,510	43,942	5,237	5,979	6,139	225	29,594	6
4,648	9,103	4,376	149,999	72,400	30,860	6,183	6,858	5,914	2,045	28,369	7
-32.7	-35.5	51.3	-8.2	-7.2	17.1	-19.1	11.2	71.5	51.1	-21.0	8
3,390	16,599	7,854	325,997	227,254	61,448	5,271	10,704	21,320	340	32,484	9
8,486	17,462	4,876	315,207	215,907	51,177	5,934	11,474	7,648	225	34,688	10
7,916	21,697	6,525	366,928	171,554	42,852	9,519	20,144	9,853	3,651	71,188	11
871	5,921	1,223	161,721	135,859	9,983	1,033	4,057	10,789	.....	9,093	12
4,744	913	493	136,188	117,397	7,235	697	5,495	1,509	.....	5,091	13
3,268	12,594	2,149	216,929	99,154	11,992	3,336	13,286	3,939	1,606	42,819	14
3,252	16,432	7,369	284,045	189,540	60,508	5,271	7,806	20,920	340	32,212	15
8,486	16,908	4,826	257,351	168,297	50,972	5,387	6,360	7,108	225	30,920	16
7,696	15,690	5,756	291,993	122,956	33,144	8,044	11,749	9,258	2,481	39,702	17
-61.7	-2.8	52.7	10.4	12.6	18.7	-2.2	22.7	194.3	51.1	4.2	18
733	5,754	738	119,769	98,145	9,043	1,033	1,159	10,389	.....	8,821	19
4,744	359	443	78,332	69,787	7,030	150	381	969	.....	1,326	20
3,048	6,587	1,380	141,994	50,556	2,284	1,861	4,891	3,344	436	11,333	21
77.5	65.0	90.0	57.8	48.2	85.1	80.4	85.2	50.3	100.0	72.6	22
44.1	97.9	90.8	69.6	58.5	86.2	97.2	94.0	86.4	100.0	95.7	23
60.4	58.0	76.0	51.4	58.9	93.1	76.9	58.4	63.9	82.4	71.5	24
22,983	1,091,526	145,549	4,490,920	3,121,930	263,087	48,567	795,429	261,907	2,660	1,119,093	25
22,028	1,086,550	140,300	4,467,208	3,116,020	252,925	46,420	793,369	258,474	2,460	1,116,250	26
955	4,976	5,249	23,712	5,910	10,162	2,147	2,060	3,433	200	2,843	27
176,245	331,825	28,655	4,198,500	3,365,261	273,861	24,935	276,120	118,648	3,200	627,600	28
104,676	327,411	71,826	4,334,896	923,041	48,753	65,041	396,708	83,155	27,330	536,475	29
-87.0	228.9	407.9	7.0	-7.8	-3.9	94.8	188.1	120.7	-16.9	78.3	30
7.07	66.43	19.75	15.81	16.47	4.35	9.21	101.90	12.52	7.82	34.74	31
20.77	19.63	5.94	16.31	20.11	5.37	4.63	43.42	16.69	14.22	20.30	32
13.60	20.87	12.48	14.85	7.51	1.47	8.09	33.77	8.98	11.02	13.51	33
9.12	102.22	21.95	27.34	34.16	5.11	11.46	119.67	24.87	7.82	47.84	34
23,663	1,091,526	145,849	5,272,645	3,872,505	263,087	51,567	797,079	288,407	2,660	1,120,443	35
6.98	65.76	18.57	16.17	17.04	4.28	9.78	74.47	13.53	7.82	34.49	36
			Primary Enterprises / Sup.	Primary Enterprises / Sup.						Primary Enterprises / Sup.	
24	23	34	252 / 2	90 / 2	72	24	47	19	3	42 / 1	37
2,489	9,784	6,431	158,441 / (3)	89,987 / (3)	47,404	3,948	6,571	10,531	340	22,051 / (3)	38
1,757	12,965	8,065	67,392 / (3)	50,024 / (3)	8,512	1,642	3,012	4,202	285	10,754 / (3)	39
0.71	1.33	1.25	0.43 / (3)	0.56 / (3)	0.18	0.42	0.46	0.40	0.84	0.49 / (3)	40
.....	10,020	.....	45,333	43,655	822	.....	.....	856	.....	18,012	41
.....	1.39	.....	0.59	0.64	0.13	.....	.....	0.41	.....	1.81	42
.....	12,000	.....	92,812	84,432	6,280	.....	.....	2,100	.....	12,915	43
.....	0.84	.....	0.49	0.52	0.13	.....	.....	0.41	.....	1.39	44
.....	10,020	.....	40,057	38,435	822	.....	.....	800	.....	7,515	45
.....	.....	.....	99,490	99,490	.....	.....	.....	.....	.....	112,877	46
17	22	8	255 / 1	97 / 1	75	23	46	14	1	38 / 1	47
1,792	10,105	1,953	162,996 / (3)	91,351 / (3)	51,315	4,122	6,335	9,873	(3)	20,361 / (3)	48
2,125	20,651	1,920	198,965 / (3)	115,889 / (3)	57,609	2,958	7,082	15,447	(3)	26,482 / (3)	49
1.2	2.0	1.0	1.2 / (3)	1.3 / (3)	1.1	0.7	1.1	1.6	(3)	1.3 / (3)	50
0.65	1.28	0.86	0.42 / (3)	0.55 / (3)	0.19	0.36	0.32	0.42	(3)	1.20 / (3)	51
0.54	0.63	0.87	0.34 / (3)	0.43 / (3)	0.17	0.50	0.28	0.27	(3)	0.92 / (3)	52
.....	1	.....	29	6	23	.....	.....	.....	.....	2 /	53
.....	(3)	.....	170,077	153,959	16,118	.....	.....	.....	.....	(3) /	54
.....	(3)	.....	71,347	56,225	15,122	.....	.....	.....	.....	(3) /	55
.....	(3)	.....	18,341	2,455	15,886	.....	.....	.....	.....	(3) /	56
.....	.....	.....	7,242	7,240	2	.....	.....	.....	.....	(3) /	57

[4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued				COLORADO RIVER	
		South Platte River				Green River	
		Total	Cache la Poudre River (70)	Crow Creek (66)	Lodgepole Creek (65)	Total	Direct (40)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	92	31	22	39	1,110	118
2	Area irrigated....1939...acres....	15,066	3,597	5,575	5,894	273,971	45,000
3	(a) Cropland harvested....1939...acres....	14,092	3,427	4,835	5,830	193,470	32,655
4	(b) Crop failure....1939...acres....	569	.....	505	64	2,687	127
5	(c) Pasture....1939...acres....	405	170	235	.....	77,814	12,218
6	Area irrigated....1929...acres....	17,340	10,794	4,951	1,595	228,699	25,791
7	1919...acres....	9,804	5,449	2,580	1,775	211,507	20,285
8	Increase or decrease (-), 1929-1939....percent....	-13.1	-66.7	12.6	269.5	19.8	74.5
9	Irrigable area in enterprises....1940...acres....	19,349	3,607	5,834	9,908	448,422	81,253
10	1930...acres....	19,748	10,991	6,717	2,040	360,974	38,880
11	1920[3]...acres....	21,553	5,779	5,590	10,184	473,116	32,492
12	Excess of irrigable area over the area irrigated..1940...acres....	4,283	10	259	4,014	174,451	36,253
13	1930...acres....	2,408	197	1,766	445	132,275	13,089
14	1920[3]...acres....	11,749	330	3,010	8,409	261,609	12,207
15	Area works were capable of supplying with water...1940...acres....	18,946	3,607	5,794	9,545	337,027	56,401
16	1930...acres....	19,393	10,991	6,677	1,725	304,057	28,985
17	1920...acres....	14,220	5,659	4,867	3,694	353,731	28,034
18	Increase or decrease (-), 1930-1940....percent....	-2.3	-67.2	-13.2	453.3	10.8	94.6
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	3,880	10	219	3,651	63,056	11,401
20	1930...acres....	2,053	197	1,726	130	75,358	3,194
21	1920...acres....	4,416	210	2,287	1,919	142,224	7,749
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	79.5	99.5	96.2	61.7	81.3	79.8
23	1929...percent....	89.4	98.2	74.2	92.5	75.2	89.0
24	1919...percent....	68.9	96.3	53.0	48.1	59.8	72.4
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	345,839	93,863	153,861	98,115	3,205,108	555,890
26	(a) Cost of irrigation works and equipment....1940...dollars....	330,675	92,746	140,514	97,415	3,120,886	518,910
27	(b) Investment in water rights (reported)....1940...dollars....	15,164	1,117	13,347	700	84,222	36,980
28	Total investment in irrigation enterprises....1930...dollars....	264,466	112,845	136,346	15,275	2,121,930	190,463
29	1920...dollars....	212,945	74,989	48,919	89,037	3,064,797	170,841
30	Increase or decrease (-), 1930-1940....percent....	30.8	-16.8	12.8	542.3	51.0	191.9
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	18.25	26.02	26.56	10.28	9.51	9.86
32	1930...dollars....	13.64	10.27	20.42	8.86	6.98	6.57
33	1920...dollars....	14.98	13.25	10.05	24.10	8.66	6.09
34	Average investment per acre irrigated....1939...dollars....	22.95	26.09	25.60	16.65	11.70	12.35
35	Estimated final investment in existing enterprises..1940...dollars....	353,089	93,863	155,061	104,165	3,707,046	593,540
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	18.25	26.02	26.58	10.51	8.27	7.30
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	57	14	7	36	620	15	96
38	Area irrigated in these enterprises....1939...acres....	9,463	2,962	790	5,711	265,513	22,161	40,376
39	Cost of maintenance and operation....1939...dollars....	14,494	1,264	537	12,693	89,242	1,259	14,096
40	Average cost, per acre irrigated....1939...dollars....	1.53	0.43	0.68	2.22	0.34	0.06	0.35
41	Total annual charges (reported)[5] [6]....1939...dollars....	759	759	.....	.....	24,049	411	1,545
42	Average annual charge per acre irrigated....1939...dollars....	0.56	0.56	.....	.....	0.42	0.02	0.48
43	Area against which charges were assessed....1939...acres....	1,350	1,350	.....	.....	90,270	19,120	5,100
44	Average annual charge per acre assessed....1939...dollars....	0.56	0.56	.....	.....	0.27	0.02	0.30
45	Total charges collected[6]....1939...dollars....	.....	.....	.....	.....	40,476	2,750	.....
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	.....	.....	.....	.....	414,915	39,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	81	22	21	38	628	13	100
48	Area irrigated by these enterprises....1939...acres....	14,949	3,580	5,475	5,894	257,989	2,104	43,630
49	Water delivered....1939...acre-feet..	16,591	2,083	5,084	9,424	611,792	4,703	115,026
50	Average water delivered per acre irrigated....1939...acre-feet..	1.1	0.6	0.9	1.6	2.4	2.2	2.6
51	Average cost of water per acre irrigated....1939...dollars....	1.53	0.43	0.68	2.22	0.34	0.15	0.35
52	Average cost of water per acre-foot delivered..1939...dollars....	1.38	0.73	0.73	1.39	0.14	0.07	0.13
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	3	2	1	.....	12	.....	.....
54	Irrigable area in these enterprises....1939...acres....	764	(4)	(4)	.....	97,846	.....	.....
55	Irrigated area in these enterprises....1939...acres....	564	(4)	(4)	.....	21,988	.....	.....
56	Area for which drains have been installed....1939...acres....	.....	.....	.....	.....	26	.....	.....
57	Additional area needing drainage....1939...acres....	55	(4)	(4)	.....	2,450	.....	.....

[1] Data for 1 enterprise in Cottonwood Creek Drainage Basin (57) (number refers to separate map) are included with Blacks Fork "Direct" Drainage Basin (48).
[2] Percent not shown when more than 1,000.
[3] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION – WYOMING

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLORADO RIVER—Continued

Green River—Continued

Horse Creek (29)	Cottonwood Creek (75)	New Fork (30)	South Piney Creek (41)	La Barge Creek (42)	Fontenelle Creek (43)	Sandy Creek (39)	Bitter Creek (49)	Blacks Fork		
								Total	Direct[1] (48)	
14	27	155	35	20	17	85	24	408	336	1
13,515	25,345	46,724	26,881	6,773	4,824	12,737	1,350	59,038	43,790	2
8,857	16,916	34,041	18,619	5,843	4,060	9,274	1,142	38,723	27,551	3
.....	.....	.....	60	.....	.....	.....	14	1,977	1,477	4
4,658	8,429	12,683	8,202	930	764	3,463	194	18,338	14,762	5
5,982	9,189	48,003	1,472	4,083	1,607	.....	878	61,397	.....	6
15,520	17,437	27,743	11,928	5,459	4,428	.....	2,395	65,980	.....	7
125.9	175.8	-2.7	(2)	65.9	200.2	.....	53.8	-3.8	.....	8
15,528	26,807	71,121	29,848	6,798	5,167	49,023	1,625	118,567	99,219	9
8,855	12,667	77,099	2,970	4,898	1,680	.....	1,356	87,650	.....	10
21,670	32,317	53,918	30,924	11,700	5,858	.....	12,495	175,970	.....	11
2,013	1,462	24,397	2,967	25	343	36,286	275	59,529	55,429	12
2,873	3,478	29,096	1,498	815	73	.....	478	26,253	.....	13
6,150	14,880	26,175	18,996	6,241	1,430	.....	10,100	109,990	.....	14
15,528	26,807	61,766	29,848	6,798	4,967	21,474	1,617	74,007	55,157	15
6,935	10,594	63,967	1,800	4,898	1,680	.....	1,026	76,875	.....	16
19,453	29,283	43,614	26,397	7,725	5,033	.....	11,447	104,305	.....	17
123.9	153.0	-3.4	(2)	38.8	195.7	.....	57.6	-3.7	.....	18
2,013	1,462	15,042	2,967	25	143	8,737	267	14,969	11,367	19
953	1,405	15,964	328	815	73	.....	148	15,478	.....	20
3,933	11,846	15,871	14,469	2,266	605	.....	9,052	38,325	.....	21
87.0	94.5	75.6	90.1	99.6	97.1	59.3	83.5	79.8	79.4	22
86.3	86.7	75.0	81.8	83.4	95.7	.....	85.6	79.9	.....	23
79.8	59.5	63.6	45.2	70.7	88.0	.....	20.9	63.3	.....	24
29,355	232,850	530,590	165,445	36,650	33,390	933,490	59,304	345,317	220,731	25
27,600	227,550	515,050	162,395	35,900	32,400	931,925	58,650	334,204	213,209	26
1,755	5,300	15,540	3,050	750	990	1,565	654	11,113	7,522	27
19,823	29,641	533,415	7,830	28,900	12,600	.....	5,445	208,495	.....	28
51,163	456,827	293,043	85,728	39,150	33,000	.....	93,158	566,776	.....	29
48.1	685.6	-0.5	(2)	26.8	165.0	.....	820.2	65.5	.....	30
1.89	8.69	8.59	5.54	5.39	6.72	43.47	36.68	4.67	4.00	31
2.86	2.80	3.34	4.35	5.90	7.50	.....	6.28	2.71	.....	32
2.63	15.60	6.72	3.25	5.07	6.56	.....	8.14	5.43	.....	33
2.17	9.19	11.36	6.15	5.41	6.92	73.29	43.93	5.85	.....	34
29,355	232,850	544,860	165,445	36,650	33,390	1,158,990	59,404	555,867	428,121	35
1.89	8.69	7.66	5.54	5.39	6.46	23.64	36.56	4.69	4.31	36
	Primary Enterprises	Sup.	Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.	
11	21	1	128	6	28	14	19	16	24	163	7	112	7	37
13,515	25,345	(4)	45,522	19,903	26,881	6,773	4,754	12,737	1,350	56,965	729	41,847	729	38
2,950	10,750	(4)	11,129	549	6,133	3,650	3,355	12,637	2,336	11,877	105	6,727	105	39
0.22	0.42	(4)	0.24	0.03	0.23	0.54	0.71	0.99	1.73	0.21	0.14	0.16	0.14	40
.....	.....	.....	2,811	411	.....	300	.....	7,226	.....	6,744	.....	6,144	.....	41
.....	.....	.....	0.32	0.02	.....	0.16	.....	0.79	.....	0.26	.....	0.26	.....	42
.....	.....	.....	13,106	19,120	.....	1,902	.....	13,098	.....	43,876	.....	41,476	.....	43
.....	.....	.....	0.21	0.02	.....	0.16	.....	0.55	.....	0.15	.....	0.15	.....	44
.....	.....	.....	2,575	2,750	.....	.....	.....	7,201	.....	3,628	.....	3,628	.....	45
.....	.....	.....	17,296	39,000	.....	.....	.....	377,370	.....	.....	.....	.....	.....	46
11	20	.....	132	5	28	13	19	16	24	166	7	119	7	47
13,515	24,480	.....	44,781	1,033	26,881	4,871	4,754	12,737	1,350	51,959	909	37,674	909	48
40,762	36,063	.....	159,769	2,447	60,294	6,965	7,494	23,711	3,168	103,799	2,110	76,342	2,110	49
3.0	1.5	.....	3.6	2.4	2.2	1.4	1.6	1.9	2.3	2.0	2.3	2.0	2.3	50
0.22	0.44	.....	0.26	0.18	0.23	0.69	0.71	0.67	1.73	0.26	0.14	0.23	0.14	51
0.07	0.30	.....	0.07	0.08	0.10	0.48	0.45	0.36	0.74	0.13	0.06	0.11	0.06	52
.....	.....	.....	8	.....	.....	.....	.....	1	.....	3	.....	3	.....	53
.....	.....	.....	7,976	.....	.....	.....	.....	(4)	.....	47,000	.....	47,000	.....	54
.....	.....	.....	5,299	.....	.....	.....	.....	(4)	.....	7,500	.....	7,500	.....	55
.....	.....	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	525	.....	.....	.....	.....	(4)	.....	425	.....	425	.....	57

[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[5] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[6] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.

DRAINAGE BASIN TABLE I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER—Continued				GREAT SALT LAKE	
			Green River—Continued					
			Blacks Fork—Continued					
			Muddy Creek (47)	Hams Fork (45)	Henrys Fork (58)	Little Snake River (Yampa) (59)	Bear River (46)	
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms	1939...number	23	49	98	109	256	
2	Area irrigated	1939...acres	5,002	10,246	16,890	14,894	62,803	
3	(a) Cropland harvested	1939...acres	3,112	8,060	10,016	13,324	49,054	
4	(b) Crop failure	1939...acres	500	.....	429	80	91	
5	(c) Pasture	1939...acres	1,390	2,186	6,445	1,490	13,658	
6	Area irrigated	1929...acres	.....	.....	15,884	11,719	47,379	
7		1919...acres	.....	.....	8,298	13,463	63,665	
8	Increase or decrease (-), 1929-1939	percent	.....	.....	6.3	27.1	32.6	
9	Irrigable area in enterprises	1940...acres	7,242	12,106	24,932	17,753	68,690	
10		1930...acres	.....	.....	26,598	12,049	59,351	
11		1920[4]...acres	.....	.....	25,940	18,038	91,842	
12	Excess of irrigable area over the area irrigated	1940...acres	2,240	1,860	8,042	2,859	5,887	
13		1930...acres	.....	.....	10,714	330	11,972	
14		1920[4]...acres	.....	.....	17,642	4,575	28,177	
15	Area works were capable of supplying with water	1940...acres	6,933	11,917	21,410	16,404	67,026	
16		1930...acres	.....	.....	18,677	12,049	56,221	
17		1920...acres	.....	.....	23,694	16,358	82,470	
18	Increase or decrease (-), 1930-1940	percent	.....	.....	14.6	36.1	19.2	
19	Excess of area works were capable of supplying with water over area irrigated	1940...acres	1,931	1,671	4,520	1,510	4,223	
20		1930...acres	.....	.....	2,793	330	8,842	
21		1920...acres	.....	.....	15,396	2,895	18,805	
22	Proportion which area irrigated is of area works were capable of supplying with water	1939...percent	72.1	86.0	78.9	90.8	93.7	
23		1929...percent	.....	.....	85.0	97.3	84.3	
24		1919...percent	.....	.....	35.0	82.3	77.2	
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises	1940...dollars	74,857	49,729	165,857	116,970	538,271	
26	(a) Cost of irrigation works and equipment	1940...dollars	73,810	47,185	162,732	113,570	530,695	
27	(b) Investment in water rights (reported)	1940...dollars	1,047	2,544	3,125	3,400	7,576	
28	Total investment in irrigation enterprises	1930...dollars	.....	.....	111,750	110,950	201,574	
29		1920...dollars	.....	.....	77,320	274,302	679,405	
30	Increase or decrease (-), 1930-1940	percent	.....	.....	48.4	5.4	167.0	
31	Average investment based on area works were capable of supplying with water, per acre	1940...dollars	10.80	4.17	7.75	7.13	8.03	
32		1930...dollars	.....	.....	5.98	9.21	3.59	
33		1920...dollars	.....	.....	3.26	16.77	8.24	
34	Average investment per acre irrigated	1939...dollars	14.97	4.85	9.82	7.85	8.57	
35	Estimated final investment in existing enterprises	1940...dollars	74,857	52,909	175,255	121,420	540,371	
36	Average investment based on estimated final investment and irrigable area, per acre	1940...dollars	10.34	4.37	7.03	6.84	7.87	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation	1939...number	9	42	55	1	45	93	1
38	Area irrigated in these enterprises	1939...acres	4,872	10,246	16,490	[5]	14,805	60,761	[5]
39	Cost of maintenance and operation	1939...dollars	1,151	3,999	4,223	[5]	6,106	11,422	[5]
40	Average cost, per acre irrigated	1939...dollars	0.24	0.39	0.26	[5]	0.41	0.19	[5]
41	Total annual charges (reported)[6] [7]	1939...dollars	600	.....	1,900	.....	3,523	16,243	.....
42	Average annual charge per acre irrigated	1939...dollars	0.33	.....	0.61	.....	0.61	0.67	.....
43	Area against which charges were assessed	1939...acres	2,400	.....	6,796	.....	6,392	24,065	.....
44	Average annual charge per acre assessed	1939...dollars	0.25	.....	0.28	.....	0.55	0.67	.....
45	Total charges collected[6]	1939...dollars	.....	.....	23,537	.....	3,535	3,942	.....
46	Indebtedness to December 31 (reported)[7]	1939...dollars	.....	.....	20,000	.....	249	42,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered	1939...number	10	37	54	1	45	98	1
48	Area irrigated by these enterprises	1939...acres	4,893	9,392	15,290	[5]	13,741	62,377	[5]
49	Water delivered	1939...acre-feet	7,385	20,072	30,389	[5]	24,352	117,206	[5]
50	Average water delivered per acre irrigated	1939...acre-feet	1.5	2.1	2.0	[5]	1.8	1.9	[5]
51	Average cost of water per acre irrigated	1939...dollars	0.24	0.38	0.19	[5]	0.55	0.37	[5]
52	Average cost of water per acre-foot delivered	1939...dollars	0.16	0.18	0.10	[5]	0.31	0.19	[5]
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage	1939...number	.....	.....	.....	.....	.....	4	.....
54	Irrigable area in these enterprises	1939...acres	.....	.....	.....	.....	.....	14,762	.....
55	Irrigated area in these enterprises	1939...acres	.....	.....	.....	.....	.....	14,558	.....
56	Area for which drains have been installed	1939...acres	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage	1939...acres	.....	.....	.....	.....	.....	5,252	.....

[1] Data for 1930 and 1920 not available because tributaries of South Fork of the Snake River were not identified.
[2] Data for 2 enterprises in Henrys Fork "Direct" Drainage Basin (69) (number refers to separate map) are included with Teton River Drainage Basin (13).
[3] Percent not shown when more than 1,000.
[4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED FARMS, MAINTENANCE IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

COLUMBIA RIVER																								
Snake River																								
Total		South Fork														Henrys Fork								
		Total[1]		Direct (14)		Gros Ventre River (26)		Grays River (28)		Salt River (27)						Teton River[2] (13)								
858		921		186		48		5		682						37								1
82,867		79,500		22,978		8,223		251		48,048						3,467								2
72,462		69,162		19,809		8,065		133		41,155						3,300								3
150		145		28		.....		.....		117						5								4
10,355		10,193		3,141		158		118		6,776						162								5
59,554		.....		1,250		6,158		.....		36,863						.....								6
62,965		.....		912		12,961		.....		34,338						.....								7
39.3		.....		(3)		33.5		.....		30.3						.....								8
104,162		100,016		32,887		10,917		293		55,919						4,146								9
87,965		.....		2,438		9,549		.....		49,016						.....								10
104,362		.....		2,202		19,023		.....		57,288						.....								11
21,195		20,516		9,909		2,694		42		7,871						679								12
28,411		.....		1,188		3,391		.....		12,153						.....								13
41,397		.....		1,290		6,062		.....		22,950						.....								14
98,892		94,920		30,404		9,782		263		54,471						3,972								15
77,386		.....		1,877		6,725		.....		46,233						.....								16
86,400		.....		1,879		14,490		.....		46,234						.....								17
27.8		.....		(3)		45.5		.....		17.8						.....								18
15,925		15,420		7,426		1,559		12		6,423						505								19
17,832		.....		627		567		.....		9,370						.....								20
23,435		.....		967		1,529		.....		11,896						.....								21
83.9		83.8		75.6		84.1		95.4		88.2						87.3								22
77.0		.....		66.6		91.6		.....		79.7						.....								23
72.9		.....		48.5		89.4		.....		74.3						.....								24
421,314		410,880		82,372		45,420		1,170		281,918						10,434								25
404,958		395,423		77,280		43,930		1,025		273,188						9,535								26
16,356		15,457		5,092		1,490		145		8,730						899								27
1,516,140		.....		1,273,820		21,275		.....		111,368						.....								28
763,890		.....		500,202		49,971		.....		149,207						.....								29
-72.2		.....		-93.5		113.5		.....		153.1						.....								30
4.26		4.33		2.71		4.64		4.45		5.18						2.63								31
19.59		.....		678.12		3.16		.....		2.41						.....								32
8.84		.....		266.21		3.45		.....		3.23						.....								33
5.08		5.17		3.58		5.52		4.66		5.87						3.01								34
432,210		421,676		87,728		46,755		2,170		285,023						10,534								35
4.15		4.22		2.67		4.28		7.41		5.10						2.54								36
Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises			Primary Enterprises	Supplemental Enterprises											
249	7	236	5	104	17	1	5	110	4			13	2											37
78,174	7,707	74,822	7,633	20,580	8,051	(5)	251	45,940	4,267			3,352	(5)											38
13,197	396	12,813	385	4,999	1,410	(5)	95	6,309	60			384	(5)											39
0.17	0.05	0.17	0.05	0.24	0.18	(5)	0.38	0.14	0.01			0.11	(5)											40
12,562	357	12,183	357	250	550	337	.....	11,383	20			379	.....											41
0.27	0.05	0.28	0.05	0.14	0.13	0.10	.....	0.31	(8)			0.13	.....											42
48,987	7,476	46,000	7,476	2,017	4,252	3,366	.....	39,731	4,110			2,987	.....											43
0.26	0.05	0.26	0.05	0.12	0.13	0.10	.....	0.29	(8)			0.13	.....											44
8,841	.....	8,745	.....	.....	.....	.....	.....	8,745	.....			96	.....											45
39,562	.....	39,562	.....	.....	.....	.....	.....	39,562	.....			.....	.....											46
285	7	271	5	123	21	1	5	122	4			14	2											47
70,214	7,757	66,747	7,633	19,947	8,223	(5)	251	38,326	4,267			3,467	(5)											48
216,956	7,200	209,737	6,850	74,710	29,050	(5)	628	105,349	850			7,219	(5)											49
3.1	0.9	3.1	0.9	3.7	3.5	(5)	2.5	2.7	0.2			2.1	(5)											50
0.23	0.05	0.24	0.05	0.26	0.18	(5)	0.38	0.24	0.01			0.12	(5)											51
0.07	0.06	0.08	0.06	0.07	0.05	(5)	0.15	0.09	0.07			0.06	(5)											52
1	.....	1	.....	1	.....	.....	.....	.....	.....			.....	.....											53
(5)	.....	(5)	.....	(5)	.....	.....	.....	.....	.....			.....	.....											54
(5)	.....	(5)	.....	(5)	.....	.....	.....	.....	.....			.....	.....											55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			.....	.....											56
(5)	.....	(5)	.....	(5)	.....	.....	.....	.....	.....			.....	.....											57

[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.
[6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.
[7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only.
[8] Less than 1 cent.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER					
			Total[1]	Yellowstone River				
				Total	Clarks Fork (12)	Big Horn River / Total	Direct[2] (10)	Popo Agie River (31)	Wind River (25)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	[3] 3,391	2,308	1,168	64	685	97	127	109
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	564	611	589	230	748	713	614	895
3	Diversion dams.....1940..total number.....	4,205	2,965	960	104	458	70	51	56
4	1930..total number.....	2,406	1,452	402	2	290	13	16	50
5	1920..total number.....	2,066	1,546	565	.....	266	12	37	7
6	(a) Concrete and masonry.....1940..number.....	257	215	83	.....	49	6	23	10
7	(b) Timber.....1940..number.....	528	329	91	36	31	6	2	13
8	(c) Earth and rock.....1940..number.....	2,673	1,916	540	20	224	28	22	17
9	(d) Other, mixed, and not reported..1940..number.....	747	505	246	48	154	30	4	16
10	Main canals and laterals.....1940..total length, miles.....	11,762.1	8,793.3	4,219.4	77.3	2,987.1	307.5	689.1	420.8
11	1930..total length, miles.....	10,775	7,563	4,020	48	3,166	149	244	949
12	1920..total length, miles.....	12,051	8,603	4,150	18	2,725	233	304	246
13	(a) Earth.....1940..length, miles.....	11,715	8,748	4,193	77	2,966	305	688	416
14	(b) Lined.....1940..length, miles.....	47.1	45.3	26.4	0.3	21.1	2.5	1.1	4.8
15	1940..capacity, c.f.s.[4].....	46,366	32,972	16,472	347	11,907	1,432	893	3,179
16	1930..capacity, c.f.s.[4].....	35,811	25,549	13,603	415	11,084	623	721	4,070
17	1920..capacity, c.f.s.[4].....	39,009	27,977	12,459	38	8,202	758	605	1,005
18	Pipe lines[5].....1940..total length, miles.....	70.3	67.6	50.2	0.5	42.1	10.2	5.5	2.0
19	1930..total length, miles.....	14.1	11.7	2.5	0.3	2.2	.....	0.8	0.4
20	1920..total length, miles.....	17.9	13.7	10.4	.....	9.9	4.9	2.0	.....
21	(a) Concrete.....1940..length, miles.....	13.8	13.6	9.1	0.3	8.6	.....	.....	0.7
22	(b) Metal.....1940..length, miles.....	38.0	36.1	27.9	0.2	20.5	8.5	4.5	1.3
23	(c) Wood-stave.....1940..length, miles.....	13.0	12.5	10.3	.....	10.2	1.5	0.8	.....
24	(d) Other.....1940..length, miles.....	5.5	5.4	2.9	.....	2.8	0.2	0.2	.....
25	Storage dams.....1940..total number.....	319	253	103	2	42	12	6	7
26	1930..total number.....	212	186	46	.....	29	2	.....	5
27	1920..total number.....	301	252	79	.....	30	1	.....	1
28	(a) Concrete and masonry.....1940..number.....	12	11	3	.....	1	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	277	224	98	2	40	12	2	7
30	(c) Other, mixed, and not reported..1940..number.....	30	18	2	.....	1	.....	1	.....
31	Reservoirs.....1940..total number.....	334	275	107	2	51	21	3	6
32	(a) 1-99 acre-feet capacity.....1940..number.....	179	152	55	1	22	15	.....	.....
33	(b) 100-999 acre-feet capacity....1940..number.....	81	66	22	.....	13	6	.....	2
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	74	57	30	1	16	.....	3	4
35	1940..total capacity, ac.-ft.[6]..	3,379,957	2,370,251	809,238	(7)	731,701	1,730	7,086	198,750
36	1930..total number.....	214	182	61	.....	40	4	.....	5
37	1930..total capacity, ac.-ft....	3,051,745	2,145,073	558,543	.....	502,075	246	.....	38,435
38	Wells, flowing.....1940..number.....	36	32	19	.....	14	10	1	.....
39	1930..number.....	6	5	4	.....	4	2	.....	.....
40	1920..number.....	7	5	3	.....	1	.....	.....	.....
41	1940..yield, g.p.m.....	3,830	3,769	2,464	.....	2,286	1,096	(7)	.....
42	1930..yield, g.p.m.....	2,205	2,085	1,965	.....	1,965	950	.....	.....
43	1920..yield, g.p.m.....	46	46	6	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	94	89	21	.....	8	6	.....	.....
45	1930..number.....	11	8	.....	.....	.....	.....	.....	.....
46	1920..number.....	16	16	4	.....	1	1	.....	.....
47	1940..yield, g.p.m.....	60,522	60,440	4,075	.....	2,565	1,565	.....	.....
48	1930..yield, g.p.m.....	8,280	7,870	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	8,020	8,020	955	.....	950	950	.....	.....
50	Pumping plants.....1940..total number.....	224	210	78	.....	38	18	.....	.....
51	1930..total number.....	61	52	9	.....	5	5	.....	.....
52	Prime movers.....1940..capacity, hp.....	4,152	4,057	1,427	.....	902	216	.....	.....
53	1930..capacity, hp.....	912	878	148	.....	93	93	.....	.....
54	1920..capacity, hp.....	1,304	1,260	792	.....	368	319	3	.....
55	(a) Electric.....1940..number.....	37	36	20	.....	14	11	.....	.....
56	1940..capacity, hp.....	401	396	158	.....	131	105	.....	.....
57	(b) Internal-combustion.....1940..number.....	160	151	51	.....	23	7	.....	.....
58	1940..capacity, hp.....	3,547	3,478	1,258	.....	769	111	.....	.....
59	(c) Other.....1940..number.....	27	23	7	.....	1	.....	.....	.....
60	1940..capacity, hp.....	204	183	11	.....	(7)	.....	.....	.....
61	Pumps.....1940..total number.....	230	218	84	.....	38	18	1	.....
62	1930..number.....	65	56	10	.....	5	5	.....	.....
63	1920..number.....	70	65	30	.....	22	17	1	.....
64	1940..capacity, g.p.m.....	209,559	206,137	66,753	.....	46,623	12,415	260	.....
65	1930..capacity, g.p.m.....	86,905	83,071	11,180	.....	4,240	4,240	.....	.....
66	1920..capacity, g.p.m.....	39,725	38,220	15,955	.....	9,950	6,990	175	.....
67	(a) Centrifugal.....1940..number.....	153	147	65	.....	33	14	1	.....
68	1940..capacity, g.p.m.....	165,556	163,256	64,448	.....	46,338	12,150	(7)	.....
69	1940..average capacity, g.p.m..	1,082	1,111	992	.....	1,404	868	(7)	.....
70	(b) Turbine.....1940..number.....	44	44	3	.....	1	1	.....	.....
71	1940..capacity, g.p.m.....	41,073	41,073	1,710	.....	(7)	(7)	.....	.....
72	1940..average capacity, g.p.m..	933	933	570	.....	(7)	(7)	.....	.....
73	(c) Plunger.....1940..number.....	25	20	14	.....	2	1	.....	.....
74	1940..capacity, g.p.m.....	692	610	545	.....	(7)	(7)	.....	.....
75	1940..average capacity, g.p.m..	28	30	39	.....	(7)	(7)	.....	.....
76	(d) Other.....1940..number.....	8	7	2	.....	2	2	.....	.....
77	1940..capacity, g.p.m.....	2,238	1,198	50	.....	(7)	(7)	.....	.....
78	Pumping lift, from all sources.....1940..average, feet.....	30	29	29	.....	29	33	10	.....
79	1930..average, feet.....	21	21	24	.....	9	9	.....	.....
80	1920..average, feet.....	31	31	42	.....	40	43	12	.....
81	from pumped wells.....1940..average, feet.....	46	46	53	.....	41	54	.....	.....
82	from surface sources...1940..average, feet.....	20	18	21	.....	26	24	10	.....

[1] Data for 1 enterprise in Niobrara River Drainage Basin (33) (number refers to separate map) are included with Missouri River Total.
[2] Data for 2 enterprises in Little Horn River Drainage Basin (9) (number refers to separate map) are included with Big Horn River "Direct" Drainage Basin (10).
[3] Includes interdrainage basin projects counted as independent enterprises in each basin into which they extend. For actual number of enterprises see State table 1.
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920

MISSOURI RIVER—Continued														
Yellowstone River—Continued														
Big Horn River—Continued							Tongue River			Powder River				
Owl Creek (44)	Cottonwood Creek (18)	Gooseberry Creek (17)	Nowood Creek (19)	Greybull River (15)	Shell Creek (74)	Shoshone River (11)	Total	Direct (6)	Goose Creek (8)	Total	Direct (5)	South Fork (24)	Middle Fork (22)	
54	23	15	97	53	39	71	210	139	71	209	19	9	31	1
357	203	322	192	1,232	351	1,992	408	342	538	361	291	357	386	2
42	22	14	69	67	42	25	161	119	42	237	13	5	33	3
20	.....	.....	68	26	4	24	56	6	30	54	1	.....	4	4
6	.....	.....	21	46	31	38	160	20	91	135	1	.....	19	5
.....	1	.....	.....	1	.....	8	28	19	9	6	.....	.....	.....	6
1	.....	1	.....	3	2	3	13	8	5	11	.....	.....	11	7
35	17	7	28	50	14	6	95	73	22	201	13	5	5	8
6	4	6	41	13	26	8	25	19	6	19	.....	.....	17	9
122.0	33.0	58.1	176.4	245.2	128.1	806.9	600.7	377.2	223.5	554.3	32.2	15.0	118.2	10
135	.....	.....	171	304	133	877	407	70	249	382	23	.....	8	11
105	.....	.....	211	398	165	775	550	108	287	778	20	.....	51	12
122	33	58	175	245	126	798	599	376	223	551	32	15	117	13
.....	.....	0.1	1.4	0.2	2.1	8.9	1.7	1.2	0.5	3.3	0.2	.....	1.2	14
663	226	137	514	2,022	268	2,573	2,065	978	1,087	2,153	109	52	206	15
342	.....	.....	357	882	199	3,529	1,053	200	723	1,007	100	.....	8	16
279	.....	.....	388	1,276	433	3,079	1,534	359	874	2,509	72	.....	60	17
0.3	.....	.....	4.1	0.6	4.1	15.3	4.1	3.1	1.0	3.5	0.2	1.1	0.5	18
.....	.....	.....	.....	.....	.....	1.0	.....	.....	.....	.....	.....	.....	.....	19
0.1	.....	.....	0.2	.....	0.2	2.5	0.2	.....	.....	0.3	.....	.....	.....	20
.....	.....	.....	0.5	0.1	.....	7.3	0.2	0.1	0.1	.....	.....	.....	.....	21
0.1	.....	.....	2.1	0.4	.....	3.6	3.9	3.0	0.9	3.3	0.2	1.1	0.5	22
0.2	.....	.....	1.2	.....	4.1	2.4	.....	.....	.....	0.1	.....	.....	.....	23
.....	.....	.....	0.3	0.1	.....	2.0	.....	.....	.....	0.1	.....	.....	.....	24
2	2	.....	4	2	3	7	34	19	15	25	6	3	.....	25
.....	.....	.....	4	.....	3	4	7	1	4	9	.....	.....	.....	26
.....	.....	.....	5	1	5	9	25	.....	21	19	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	1	1	1	.....	1	.....	.....	.....	28
2	2	.....	4	2	3	6	33	18	15	23	6	3	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	30
4	2	.....	2	2	3	8	29	16	13	25	5	4	2	31
3	.....	.....	.....	.....	2	2	17	11	6	15	4	3	2	32
1	1	.....	2	.....	.....	1	2	.....	2	7	1	1	.....	33
.....	1	.....	.....	2	1	5	10	5	5	3	.....	.....	.....	34
921	(7)	.....	(7)	(7)	3,220	463,515	43,479	30,085	13,394	32,510	510	234	(7)	35
2	.....	.....	10	.....	1	5	11	1	8	9	.....	.....	.....	36
400	.....	.....	1,120	.....	1,610	459,570	47,544	25	47,510	4,924	.....	.....	.....	37
1	.....	.....	2	.....	.....	.....	1	1	.....	4	4	.....	.....	38
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	40
(7)	.....	.....	(7)	.....	.....	.....	(7)	(7)	.....	148	148	.....	.....	41
1,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	43
1	.....	.....	1	.....	.....	.....	4	3	1	9	5	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....	.....	46
(7)	.....	.....	(7)	.....	.....	.....	300	285	(7)	1,210	85	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	49
4	3	.....	9	1	.....	3	22	13	9	18	6	.....	1	50
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3	.....	.....	.....	51
469	61	.....	128	(7)	.....	8	274	147	127	251	58	.....	(7)	52
.....	.....	.....	.....	.....	.....	.....	22	.....	.....	33	.....	.....	.....	53
.....	.....	.....	26	.....	.....	.....	75	.....	50	349	24	.....	.....	54
.....	1	.....	.....	.....	.....	2	6	1	5	.....	.....	.....	.....	55
.....	(7)	.....	.....	.....	.....	(7)	27	(7)	18	.....	.....	.....	.....	56
4	2	.....	9	1	.....	.....	15	11	4	13	1	.....	1	57
469	(7)	.....	128	(7)	.....	.....	246	137	109	243	(7)	.....	(7)	58
.....	.....	.....	.....	.....	.....	1	1	1	.....	5	5	.....	.....	59
.....	.....	.....	.....	.....	.....	(7)	(7)	(7)	.....	8	8	.....	.....	60
4	3	.....	9	1	.....	2	22	13	9	24	6	.....	1	61
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	4	.....	.....	.....	62
.....	.....	.....	1	.....	.....	.....	2	.....	1	6	2	.....	.....	63
17,208	7,720	.....	7,300	(7)	.....	520	13,140	10,470	2,670	6,990	185	.....	(7)	64
.....	.....	.....	.....	.....	.....	.....	435	.....	.....	6,505	.....	.....	.....	65
.....	.....	.....	1,200	.....	.....	.....	4,700	.....	3,000	1,305	900	.....	.....	66
4	3	.....	9	1	.....	1	18	10	8	14	1	.....	.....	67
17,208	7,720	.....	7,300	(7)	.....	(7)	12,840	10,185	2,655	5,270	(7)	.....	.....	68
4,302	2,573	.....	811	(7)	.....	(7)	713	1,018	332	376	(7)	.....	.....	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	.....	(7)	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(7)	.....	.....	(7)	72
.....	.....	.....	.....	.....	.....	1	4	3	1	8	5	.....	.....	73
.....	.....	.....	.....	.....	.....	(7)	300	285	(7)	190	85	.....	.....	74
.....	.....	.....	.....	.....	.....	(7)	75	95	(7)	24	17	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
38	24	.....	23	(7)	.....	30	19	21	16	41	94	.....	(7)	78
.....	.....	.....	.....	.....	.....	.....	8	.....	.....	54	.....	.....	.....	79
.....	.....	.....	58	.....	.....	.....	30	.....	38	51	26	.....	.....	30
(7)	.....	.....	(7)	.....	.....	.....	26	33	(7)	75	110	.....	.....	81
50	24	.....	25	(7)	.....	30	17	17	18	13	12	.....	(7)	82

[5] Includes siphons and farm pipe lines reported.
[6] Total capacity of all reservoirs regardless of size.
[7] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		Yellowstone River—Continued				Cheyenne River			
		Powder River—Continued			Little Missouri River		Belle Fourche River		
		Crazy Woman Creek (20)	Clear Creek (7)	Little Powder River (4)	(3)	Total	Total	Direct (2)	Redwater Creek (1)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	43	100	7	5	71	34	25	9
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	217	448	70	85	132	61	60	65
3	Diversion dams....1940..total number	38	135	13	9	56	34	26	8
4	1930..total number	9	12	.....	.....	23	5	5	.....
5	1920..total number	17	46	.....	.....	71	24	24	.....
6	(a) Concrete and masonry....1940..number	1	5	.....	.....	3	1	.....	1
7	(b) Timber....1940..number	.....	.....	.....	.....	1	1	.....	1
8	(c) Earth and rock....1940..number	37	128	13	1	50	30	25	5
9	(d) Other, mixed, and not reported..1940..number	.....	2	.....	8	2	2	1	1
10	Main canals and laterals....1940..total length, miles	96.4	286.5	6.0	6.0	87.2	35.2	27.2	8.0
11	1930..total length, miles	41	234	.....	.....	46	6	6	.....
12	1920..total length, miles	123	406	.....	1	264	94	94	.....
13	(a) Earth....1940..length, miles	96	285	6	6	87	35	27	8
14	(b) Lined....1940..length, miles	0.4	1.5	.....	.....	0.2	0.2	0.2	.....
15	1940..capacity, c.f.s.[2]	306	1,219	261	23	225	93	64	29
16	1930..capacity, c.f.s.[2]	50	741	.....	.....	72	5	5	.....
17	1920..capacity, c.f.s.[2]	525	1,468	.....	.....	1,203	397	397	.....
18	Pipe lines[3]....1940..total length, miles	0.5	1.1	0.1	.....	1.4	0.8	0.4	0.4
19	1930..total length, miles	.....	.....	.....	.....	.....	.....	.....	.....
20	1920..total length, miles	.....	0.3	.....	.....	0.2	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	0.5	0.9	0.1	.....	0.4	0.3	0.2	0.1
23	(c) Wood-stave....1940..length, miles	.....	0.1	.....	.....	0.5	.....	.....	.....
24	(d) Other....1940..length, miles	.....	0.1	.....	.....	0.5	0.5	0.2	0.3
25	Storage dams....1940..total number	8	5	3	4	14	4	4	.....
26	1930..total number	3	3	.....	.....	10	4	4	.....
27	1920..total number	2	9	.....	1	40	25	25	.....
28	(a) Concrete and masonry....1940..number	.....	1	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	8	3	3	4	14	4	4	.....
30	(c) Other, mixed, and not reported..1940..number	.....	1	.....	.....	.....	.....	.....	.....
31	Reservoirs....1940..total number	7	4	3	5	16	6	6	.....
32	(a) 1-99 acre-feet capacity....1940..number	5	.....	1	4	7	4	4	.....
33	(b) 100-999 acre-feet capacity....1940..number	2	1	2	1	8	2	2	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	3	.....	.....	1	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]	675	30,395	596	634	4,382	427	427	.....
36	1930..total number	3	2	.....	.....	4	1	1	.....
37	1930..total capacity, ac.-ft.	567	4,354	.....	.....	1,976	40	40	.....
38	Wells, flowing....1940..number	.....	.....	.....	.....	3	2	2	.....
39	1930..number	.....	.....	.....	.....	1	1	1	.....
40	1920..number	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	210	(5)	(5)	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	120	120	120	.....
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	2	2	.....	.....	1	1	1	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	1	1	1	.....
47	1940..yield, g.p.m.	(5)	(5)	.....	.....	(5)	(5)	(5)	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	2,000	2,000	2,000	.....
50	Pumping plants....1940..total number	7	4	.....	.....	17	4	4	.....
51	1930..total number	.....	.....	.....	.....	1	.....	.....	.....
52	Prime movers....1940..capacity, hp	142	31	.....	.....	340	42	42	.....
53	1930..capacity, hp	.....	.....	.....	.....	16	.....	.....	.....
54	1920..capacity, hp	.....	298	.....	.....	119	103	103	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp	.....	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	7	4	.....	.....	16	3	3	.....
58	1940..capacity, hp	142	31	.....	.....	339	41	41	.....
59	(c) Other....1940..number	.....	.....	.....	.....	1	1	1	.....
60	1940..capacity, hp	.....	.....	.....	.....	(5)	(5)	(5)	.....
61	Pumps....1940..total number	7	10	.....	.....	18	4	4	.....
62	1930..number	.....	.....	.....	.....	1	.....	.....	.....
63	1920..number	.....	2	.....	.....	5	4	4	.....
64	1940..capacity, g.p.m.	3,670	1,665	.....	.....	19,144	954	954	.....
64	1930..capacity, g.p.m.	.....	.....	.....	.....	1,100	.....	.....	.....
66	1920..capacity, g.p.m.	.....	200	.....	.....	4,491	3,391	3,391	.....
67	(a) Centrifugal....1940..number	5	8	.....	.....	17	3	3	.....
68	1940..capacity, g.p.m.	3,590	1,580	.....	.....	19,140	950	950	.....
69	1940..average capacity, g.p.m.	718	198	.....	.....	1,126	317	317	.....
70	(b) Turbine....1940..number	.....	1	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	(5)	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	(5)	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	2	1	.....	.....	1	1	1	.....
74	1940..capacity, g.p.m.	(5)	(5)	.....	.....	(5)	(5)	(5)	.....
75	1940..average capacity, g.p.m.	(5)	(5)	.....	.....	(5)	(5)	(5)	.....
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	12	16	.....	.....	15	18	18	.....
79	1930..average, feet	.....	.....	.....	.....	12	.....	.....	.....
80	1920..average, feet	.....	54	.....	.....	18	20	20	.....
81	from pumped wells....1940..average, feet	(5)	(5)	.....	.....	(5)	(5)	(5)	.....
82	from surface sources...1940..average, feet	11	16	.....	.....	13	13	13	.....

[1] Data for 2 enterprises in Great Divide Drainage Basin (50) (number refers to separate map) are included with North Platte River "Direct" Drainage Basin (32).
[2] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued													
Cheyenne River—Con.	North Platte River												
							Medicine Bow River						
										Little Medicine Bow River			
South Fork (21)	Total	Direct[1] (32)	Beaver Creek (62)	Encampment Creek (61)	Spring Creek (60)	Pass Creek (56)	Total	Direct (51)	Rock Creek (71)	Total	Direct (73)	Sheep Creek (72)	
37	979	311	25	47	19	21	90	40	22	28	8	14	1
198	708	627	299	405	790	681	902	700	2,060	280	261	195	2
22	1,747	380	45	88	48	50	215	111	74	30	9	13	3
18	853	14	14	16	32	37	67	66	.....	1	.....	.....	4
47	865	24	12	13	3	3	113	112	.....	1	.....	.....	5
2	125	12	.....	1	1	.....	3	1	2	.....	.....	.....	6
.....	236	26	3	13	13	17	123	79	44	.....	.....	.....	7
20	1,137	277	35	50	11	5	83	27	28	28	7	13	8
.....	249	65	7	24	23	28	6	4	.....	2	2	.....	9
52.0	4,351.8	1,353.4	91.0	167.0	92.0	102.0	456.5	199.1	181.3	76.1	19.0	37.1	10
40	3,314	578	22	58	65	42	347	344	.....	3	.....	.....	11
170	3,980	457	63	59	124	93	479	472	.....	7	.....	.....	12
52	4,334	1,349	91	167	92	102	451	194	181	76	19	37	13
.....	17.8	4.4	.....	.....	.....	.....	5.5	5.1	0.3	0.1	.....	0.1	14
132	15,983	6,416	188	402	337	384	1,387	467	788	132	41	45	15
67	11,544	2,251	47	211	202	123	663	654	.....	9	.....	.....	16
806	13,878	3,134	50	106	343	293	939	927	.....	12	.....	.....	17
0.6	13.2	7.9	.....	.....	.....	.....	1.3	0.1	1.2	.....	.....	.....	18
.....	9.2	6.7	.....	.....	.....	.....	0.5	0.5	.....	.....	.....	.....	19
0.2	3.1	0.2	.....	0.1	.....	.....	1.5	1.0	.....	0.5	.....	.....	20
.....	4.3	3.3	.....	.....	.....	.....	0.2	.....	0.2	.....	.....	.....	21
0.1	5.7	4.0	.....	.....	.....	.....	0.1	0.1	.....	.....	.....	.....	22
0.5	1.2	0.2	.....	.....	.....	.....	1.0	.....	1.0	.....	.....	.....	23
.....	2.0	0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
10	117	34	10	.....	.....	2	6	2	3	1	.....	.....	25
6	99	3	3	.....	2	1	4	4	.....	.....	.....	.....	26
15	113	4	2	1	2	.....	13	13	.....	.....	.....	.....	27
.....	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
10	93	28	10	.....	.....	2	6	2	3	1	.....	.....	29
.....	16	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
10	132	51	11	2	.....	2	6	1	4	1	.....	.....	31
3	83	39	6	2	.....	1	2	1	1	.....	.....	.....	32
6	23	5	5	.....	.....	1	1	.....	.....	1	.....	.....	33
1	26	7	.....	.....	.....	.....	3	.....	3	.....	.....	.....	34
3,955	1,550,380	1,166,759	1,348	(5)	.....	(5)	10,295	(5)	10,040	(5)	.....	.....	35
3	98	3	3	.....	2	1	2	2	.....	.....	.....	.....	36
1,936	1,575,815	1,260,570	286	.....	832	4	3,337	3,337	.....	.....	.....	.....	37
1	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	40
(5)	751	(5)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	24	17	.....	.....	.....	.....	1	1	.....	.....	.....	.....	44
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	9	2	.....	.....	2	.....	3	3	.....	.....	.....	.....	46
.....	16,041	13,968	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	47
.....	370	365	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	4,330	3,180	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
13	68	57	.....	.....	.....	.....	1	1	.....	.....	.....	.....	50
1	36	21	.....	.....	.....	.....	1	1	.....	.....	.....	.....	51
298	1,095	1,029	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	52
16	614	477	.....	.....	.....	.....	2	2	.....	.....	.....	.....	53
16	329	240	.....	.....	.....	.....	33	33	.....	.....	.....	.....	54
.....	8	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	107	96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
13	49	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
298	895	855	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
.....	11	7	.....	.....	.....	.....	1	1	.....	.....	.....	.....	59
.....	93	78	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	60
14	68	57	.....	.....	.....	.....	1	1	.....	.....	.....	.....	61
1	39	22	.....	.....	.....	.....	1	1	.....	.....	.....	.....	62
1	28	11	.....	.....	1	.....	12	12	.....	.....	.....	.....	63
18,190	76,287	71,331	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	64
1,100	62,991	51,752	.....	.....	.....	.....	450	450	.....	.....	.....	.....	65
1,100	17,039	14,602	.....	.....	.....	.....	787	787	.....	.....	.....	.....	66
14	56	48	.....	.....	.....	.....	1	1	.....	.....	.....	.....	67
18,190	70,718	66,325	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	68
1,299	1,263	1,382	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	69
.....	4	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	4,400	3,850	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71
.....	1,100	1,283	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72
.....	4	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	41	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	10	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	4	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	1,128	1,120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
13	16	16	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	78
12	20	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
10	22	25	.....	.....	.....	.....	18	18	.....	.....	.....	.....	80
.....	19	19	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	81
13	15	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82

[4] Total capacity of all reservoirs regardless of size.
[5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		North Platte River—Continued							
		Medicine Bow River—Con.					Laramie River		
		Little Medicine Bow River—Con.	Sweetwater River	Box Elder Creek	La Prele Creek	La Bonte Creek	Total	Direct	Little Laramie River
		Muddy Creek (68)	(38)	(37)	(36)	(35)		(64)	(63)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises....1940..number	6	46	25	26	35	283	107	78
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	505	386	130	632	211	1,004	1,771	776
3	Diversion dams....1940..total number	8	90	29	56	71	556	217	151
4	1930..total number	1	21	7	4	9	368	62	63
5	1920..total number	1	42	13	11	40	358	40	42
6	(a) Concrete and masonry....1940..number	.....	48	3	6	21	12	3	4
7	(b) Timber....1940..number	.....	2	.....	6	13	20	2	17
8	(c) Earth and rock....1940..number	8	38	22	36	29	456	183	105
9	(d) Other, mixed, and not reported..1940..number	.....	2	4	8	8	68	29	25
10	Main canals and laterals....1940..total length, miles	20.0	206.3	50.0	231.1	115.5	1,261.5	614.0	299.1
11	1930..total length, miles	3	100	87	192	50	1,100	494	206
12	1920..total length, miles	7	161	84	143	100	1,243	515	156
13	(a) Earth....1940..length, miles	20	206	50	231	113	1,257	613	299
14	(b) Lined....1940..length, miles	.....	0.3	.....	0.1	2.5	4.5	1.0	0.1
15	1940..capacity, c.f.s.[1]	46	300	273	242	167	5,239	3,694	885
16	1930..capacity, c.f.s.[1]	9	215	21	306	98	5,584	4,347	614
17	1920..capacity, c.f.s.[1]	12	174	44	326	54	5,933	1,718	435
18	Pipe lines[2]....1940..total length, miles	.....	0.2	.....	.....	.....	1.8	1.0	0.6
19	1930..total length, miles	.....	0.6	.....	0.1	.....	.....	.....	.....
20	1920..total length, miles	0.5	.....	.....	.....	.....	0.4	0.3	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	0.8	0.5	0.2
22	(b) Metal....1940..length, miles	.....	0.2	.....	.....	.....	1.0	0.5	0.4
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	1	4	1	1	.....	50	20	4
26	1930..total number	.....	9	3	4	.....	20	5	.....
27	1920..total number	.....	1	3	3	.....	40	7	.....
28	(a) Concrete and masonry....1940..number	.....	.....	.....	1	.....	5	2	.....
29	(b) Earth and rock....1940..number	1	4	1	.....	.....	38	17	1
30	(c) Other, mixed, and not reported..1940..number	.....	.....	.....	.....	.....	7	1	3
31	Reservoirs....1940..total number	1	8	1	1	.....	44	21	2
32	(a) 1-99 acre-feet capacity....1940..number	.....	5	1	.....	.....	25	9	2
33	(b) 100-999 acre-feet capacity....1940..number	1	3	.....	.....	.....	8	7	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	.....	.....	1	.....	11	5	.....
35	1940..total capacity, ac.-ft.[3]	(4)	1,805	(4)	(4)	.....	326,235	312,189	(4)
36	1930..total number	.....	5	3	1	.....	23	5	2
37	1930..total capacity, ac.-ft.	.....	796	600	20,000	.....	249,223	236,500	200
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	7	7	.....
39	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number	.....	.....	1	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	750	750	.....
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.	.....	.....	40	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	.....	.....	.....	6	4	.....
45	1930..number	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number	.....	.....	.....	.....	.....	2	.....	.....
47	1940..yield, g.p.m.	.....	.....	.....	.....	.....	1,998	1,593	.....
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	1,150	.....	.....
50	Pumping plants....1940..total number	.....	.....	.....	.....	.....	9	6	.....
51	1930..total number	.....	1	.....	.....	.....	.....	.....	.....
52	Prime movers....1940..capacity, hp.	.....	.....	.....	.....	.....	54	43	.....
53	1930..capacity, hp.	.....	30	.....	.....	.....	.....	.....	.....
54	1920..capacity, hp.	.....	.....	.....	.....	.....	6	.....	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	1	1	.....
56	1940..capacity, hp.	.....	.....	.....	.....	.....	(4)	(4)	.....
57	(b) Internal-combustion....1940..number	.....	.....	.....	.....	.....	5	4	.....
58	1940..capacity, hp.	.....	.....	.....	.....	.....	40	32	.....
59	(c) Other....1940..number	.....	.....	.....	.....	.....	3	1	.....
60	1940..capacity, hp.	.....	.....	.....	.....	.....	13	(4)	.....
61	Pumps....1940..total number	.....	.....	.....	.....	.....	9	6	.....
62	1930..number	.....	1	.....	.....	.....	.....	.....	.....
63	1920..number	.....	.....	.....	.....	.....	3	1	.....
64	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	2,881	2,468	.....
65	1930..capacity, g.p.m.	.....	1,200	.....	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.	.....	.....	.....	.....	.....	1,650	500	.....
67	(a) Centrifugal....1940..number	.....	.....	.....	.....	.....	6	5	.....
68	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	2,318	1,918	.....
69	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	386	384	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	1	1	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(4)	(4)	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	(4)	(4)	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	1	.....	.....
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(4)	.....	.....
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	(4)	.....	.....
76	(d) Other....1940..number	.....	.....	.....	.....	.....	1	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(4)	.....	.....
78	Pumping lift, from all sources....1940..average, feet	.....	.....	.....	.....	.....	19	19	.....
79	1930..average, feet	.....	15	.....	.....	.....	.....	.....	.....
80	1920..average, feet	.....	.....	.....	.....	.....	13	10	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	.....	.....	20	20	.....
82	from surface sources...1940..average, feet	.....	.....	.....	.....	.....	18	18	.....

[1] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[2] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued									COLORADO RIVER			
North Platte River—Continued					South Platte River				Green River			
Laramie River—Continued												
Sybille Creek (55)	North Laramie River (52)	Chugwater Creek (54)	Rawhide Creek (34)	Horse Creek (53)	Total	Cache la Poudre River (70)	Crow Creek (66)	Lodgepole Creek (65)	Total	Direct (40)	Horse Creek (29)	
29	50	19	3	48	84	24	22	38	676	105	11	1
182	156	1,101	113	671	226	277	263	251	499	537	1,412	2
77	68	43	4	115	192	109	45	38	788	72	6	3
55	56	41	2	63	171	82	72	17	714	74	11	4
98	101	37	13	46	42	25	8	9	361	23	6	5
.....	3	2	.....	18	4	.....	1	3	19	.....	.....	6
.....	.....	1	.....	.....	1	.....	.....	1	156	15	3	7
66	64	38	4	91	187	109	44	34	461	53	3	8
11	1	2	.....	6	.....	.....	.....	.....	152	4	.....	9
55.0	123.2	170.2	2.0	223.5	127.9	53.0	35.7	39.2	1,991.0	269.2	53.0	10
65	97	74	3	215	177	84	64	29	2,323	343	97	11
122	101	107	22	210	204	97	47	60	2,411	180	82	12
55	120	170	2	223	127	53	35	39	1,990	269	53	13
.....	3.2	0.2	.....	0.5	0.9	.....	0.7	0.2	1.0	0.2	.....	14
113	264	283	5	643	266	76	97	93	7,995	1,540	238	15
67	194	101	27	589	324	139	159	26	7,652	1,492	94	16
297	462	152	42	774	429	58	115	256	7,495	1,403	403	17
.....	0.1	0.1	.....	2.0	2.8	.....	1.7	1.1	1.4	.....	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	0.1	.....	.....	.....	.....	0.2	0.1	.....	20
.....	.....	0.1	.....	.....	0.2	.....	0.2	.....	.....	.....	.....	21
.....	0.1	.....	.....	0.4	2.1	.....	1.5	0.6	1.4	.....	.....	22
.....	.....	.....	.....	.....	0.5	.....	.....	0.5	.....	.....	.....	23
.....	.....	.....	.....	1.6	.....	.....	.....	.....	.....	.....	.....	24
11	12	3	.....	9	14	9	4	1	58	9	.....	25
.....	6	3	.....	16	20	10	5	5	18	1	.....	26
11	6	10	2	26	22	7	4	11	40	1	.....	27
.....	3	.....	.....	1	.....	.....	.....	.....	1	.....	.....	28
11	6	3	.....	4	14	9	4	1	46	9	.....	29
.....	3	.....	.....	4	.....	.....	.....	.....	11	.....	.....	30
11	7	3	.....	6	14	9	3	2	51	8	.....	31
11	1	2	.....	2	2	.....	.....	2	26	8	.....	32
.....	.....	1	.....	.....	12	9	3	.....	12	.....	.....	33
.....	6	.....	.....	4	.....	.....	.....	.....	13	.....	.....	34
277	13,476	193	.....	23,393	5,527	3,672	1,825	(4)	141,841	240	.....	35
1	5	4	.....	14	16	10	4	2	22	.....	.....	36
20	6,574	235	.....	29,654	8,064	6,238	1,817	9	57,354	.....	.....	37
.....	.....	.....	.....	.....	2	1	1	.....	4	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	40
.....	.....	.....	.....	.....	(4)	(4)	(4)	.....	61	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	120	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
1	1	.....	.....	.....	43	.....	3	40	5	.....	.....	44
.....	.....	.....	.....	.....	6	.....	.....	6	3	.....	.....	45
.....	1	1	.....	.....	2	.....	.....	2	.....	.....	.....	46
(4)	(4)	.....	.....	.....	40,320	.....	340	39,980	82	.....	.....	47
.....	.....	.....	.....	.....	7,500	.....	.....	7,500	410	.....	.....	48
.....	700	450	.....	.....	735	.....	.....	735	.....	.....	.....	49
1	2	.....	.....	1	47	.....	7	40	12	7	.....	50
.....	.....	.....	.....	.....	6	.....	.....	6	9	6	.....	51
(4)	(4)	.....	.....	(4)	1,195	.....	85	1,110	80	50	.....	52
.....	.....	.....	.....	.....	100	.....	.....	100	34	29	.....	53
.....	.....	6	.....	.....	20	.....	.....	20	44	22	.....	54
.....	.....	.....	.....	1	8	.....	3	5	1	1	.....	55
.....	.....	.....	.....	(4)	131	.....	26	105	(4)	(4)	.....	56
.....	1	.....	.....	.....	35	.....	3	32	7	3	.....	57
.....	(4)	.....	.....	.....	986	.....	56	930	54	39	.....	58
1	1	.....	.....	.....	4	.....	1	3	4	3	.....	59
(4)	(4)	.....	.....	.....	78	.....	(4)	75	21	6	.....	60
1	2	.....	.....	1	48	.....	7	41	10	4	.....	61
.....	.....	.....	.....	.....	6	.....	.....	6	9	6	.....	62
.....	1	1	.....	.....	2	.....	.....	2	5	4	.....	63
(4)	(4)	.....	.....	(4)	43,953	.....	3,973	39,980	3,222	2,140	.....	64
.....	.....	.....	.....	.....	7,800	.....	.....	7,800	3,834	3,424	.....	65
.....	700	450	.....	.....	735	.....	.....	735	1,505	1,505	.....	66
.....	1	.....	.....	1	9	.....	4	5	4	3	.....	67
.....	(4)	.....	.....	(4)	8,950	.....	3,850	5,100	2,100	1,100	.....	68
.....	(4)	.....	.....	(4)	994	.....	962	1,020	525	367	.....	69
.....	.....	.....	.....	.....	37	.....	1	36	.....	.....	.....	70
.....	.....	.....	.....	.....	34,963	.....	(4)	34,880	.....	.....	.....	71
.....	.....	.....	.....	.....	945	.....	(4)	969	.....	.....	.....	72
1	.....	.....	.....	.....	1	.....	1	.....	5	.....	.....	73
(4)	.....	.....	.....	.....	(4)	.....	(4)	.....	82	.....	.....	74
(4)	.....	.....	.....	.....	(4)	.....	(4)	.....	16	.....	.....	75
.....	1	.....	.....	.....	1	.....	1	.....	1	1	.....	76
.....	(4)	.....	.....	.....	(4)	.....	(4)	.....	(4)	(4)	.....	77
(4)	(4)	.....	.....	(4)	58	.....	45	61	41	16	.....	78
.....	.....	.....	.....	.....	26	.....	.....	26	18	12	.....	79
.....	16	.....	.....	.....	12	.....	.....	12	34	39	.....	80
(4)	(4)	.....	.....	.....	62	.....	69	61	.....	.....	.....	81
.....	.....	.....	.....	(4)	28	.....	28	.....	41	16	.....	82

[3] Total capacity of all reservoirs regardless of size.
[4] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued						
		Green River—Continued						
		Cottonwood Creek (75)	New Fork (30)	South Piney Creek (41)	La Barge Creek (42)	Fontenelle Creek (43)	Sandy Creek (39)	Bitter Creek (49)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises....1940..number	22	143	28	14	20	16	34
2	Average size of enterprise based on area works were capable of supplying with water....1940..acres	1,218	432	1,066	486	248	1,342	67
3	Diversion dams....1940..total number	35	105	50	19	29	12	10
4	1930..total number	28	83	10	14	5	.....	13
5	1920..total number	19	9	26	22	20	.....	3
6	(a) Concrete and masonry....1940..number	2	1	.....	.....	2	2	.....
7	(b) Timber....1940..number	28	10	40	3	1	1	.....
8	(c) Earth and rock....1940..number	1	83	6	3	6	6	5
9	(d) Other, mixed, and not reported..1940..number	4	11	4	13	20	3	5
10	Main canals and laterals....1940..total length, miles	158.0	349.5	84.0	49.0	63.0	166.0	10.0
11	1930..total length, miles	136	368	14	54	18	.....	14
12	1920..total length, miles	206	327	279	46	41	.....	32
13	(a) Earth....1940..length, miles	158	349	84	49	63	166	10
14	(b) Lined....1940..length, miles	.....	0.5	.....	.....	.....	.....	.....
15	1940..capacity, c.f.s.[4]	218	1,921	336	151	114	775	56
16	1930..capacity, c.f.s.[4]	411	1,228	145	142	24	.....	9
17	1920..capacity, c.f.s.[4]	485	1,011	221	131	73	.....	25
18	Pipe lines[5]....1940..total length, miles	.....	.....	.....	.....	.....	0.1	1.3
19	1930..total length, miles	.....	.....	.....	.....	.....	.....	.....
20	1920..total length, miles	.....	.....	.....	.....	.....	.....	.....
21	(a) Concrete....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
22	(b) Metal....1940..length, miles	.....	.....	.....	.....	.....	0.1	1.3
23	(c) Wood-stave....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
24	(d) Other....1940..length, miles	.....	.....	.....	.....	.....	.....	.....
25	Storage dams....1940..total number	.....	9	2	.....	.....	3	12
26	1930..total number	.....	4	.....	.....	.....	.....	2
27	1920..total number	.....	2	1	.....	.....	.....	1
28	(a) Concrete and masonry....1940..number	.....	1	.....	.....	.....	.....	.....
29	(b) Earth and rock....1940..number	.....	3	1	.....	.....	3	11
30	(c) Other, mixed, and not reported..1940..number	.....	5	1	.....	.....	.....	1
31	Reservoirs....1940..total number	.....	9	2	.....	.....	3	10
32	(a) 1-99 acre-feet capacity....1940..number	.....	.....	.....	.....	.....	1	9
33	(b) 100-999 acre-feet capacity....1940..number	.....	3	.....	.....	.....	1	.....
34	(c) 1,000 and over acre-feet capacity....1940..number	.....	6	2	.....	.....	1	1
35	1940..total capacity, ac.-ft.[7]	.....	67,755	(8)	.....	.....	16,764	4,326
36	1930..total number	.....	4	.....	.....	.....	.....	4
37	1930..total capacity, ac.-ft.	.....	31,670	.....	.....	.....	.....	300
38	Wells, flowing....1940..number	.....	.....	.....	.....	.....	.....	2
39	1930..number	.....	.....	.....	.....	.....	.....	1
40	1920..number	.....	.....	.....	.....	.....	.....	2
41	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	(8)
42	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	120
43	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped....1940..number	.....	.....	.....	.....	.....	.....	5
45	1930..number	.....	.....	.....	.....	.....	.....	2
46	1920..number	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.	.....	.....	.....	.....	.....	.....	82
48	1930..yield, g.p.m.	.....	.....	.....	.....	.....	.....	350
49	1920..yield, g.p.m.	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants....1940..total number	.....	.....	.....	.....	.....	1	4
51	1930..total number	.....	.....	.....	.....	.....	.....	2
52	Prime movers....1940..capacity, hp.	.....	.....	.....	.....	.....	(8)	15
53	1930..capacity, hp.	.....	.....	.....	.....	.....	.....	4
54	1920..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
55	(a) Electric....1940..number	.....	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp.	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion....1940..number	.....	.....	.....	.....	.....	.....	4
58	1940..capacity, hp.	.....	.....	.....	.....	.....	.....	15
59	(c) Other....1940..number	.....	.....	.....	.....	.....	1	.....
60	1940..capacity, hp.	.....	.....	.....	.....	.....	(8)	.....
61	Pumps....1940..total number	.....	.....	.....	.....	.....	1	5
62	1930..number	.....	.....	.....	.....	.....	.....	2
63	1920..number	.....	.....	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(8)	82
65	1930..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	350
66	1920..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
67	(a) Centrifugal....1940..number	.....	.....	.....	.....	.....	1	.....
68	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	(8)	.....
69	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	(8)	.....
70	(b) Turbine....1940..number	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger....1940..number	.....	.....	.....	.....	.....	.....	5
74	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	82
75	1940..average capacity, g.p.m.	.....	.....	.....	.....	.....	.....	16
76	(d) Other....1940..number	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources....1940..average, feet	.....	.....	.....	.....	.....	(8)	66
79	1930..average, feet	.....	.....	.....	.....	.....	.....	20
80	1920..average, feet	.....	.....	.....	.....	.....	.....	.....
81	from pumped wells....1940..average, feet	.....	.....	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet	.....	.....	.....	.....	.....	(8)	66

[1] Data for 1 enterprise in Cottonwood Creek Drainage Basin (57) (number refers to separate map) are included with Blacks Fork "Direct" Drainage Basin (48).
[2] Data for 1930 and 1920 not available because tributaries of South Fork of the Snake River were not identified.
[3] Data for 2 enterprises in Henrys Fork "Direct" Drainage Basin (69) (number refers to separate map) are included with Teton River Drainage Basin (13).
[4] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued						GREAT SALT LAKE	COLUMBIA RIVER						
Green River—Continued							Snake River						
Blacks Fork				Henrys Fork	Little Snake River (Yampa)	Bear River	Total	South Fork					Henrys Fork
Total	Direct[1] (48)	Muddy Creek (47)	Hams Fork (45)	(58)	(59)	(46)		Total[2]	Direct (11)	Gros Ventre River (26)	Grays River (28)	Salt River (27)	Teton River[3] (13)	
188	135	11	42	58	47	102	305	285	128	22	5	130	20	1
394	409	630	284	369	349	657	324	333	238	445	53	419	199	2
280	212	19	49	118	52	139	313	294	137	15	4	138	19	3
271	271	.....	.....	7	4	87	153	.....	3	5	.....	62	.....	4
156	156	.....	.....	45	8	54	105	.....	1	34	.....	50	.....	5
11	2	7	2	1	.....	3	20	19	4	.....	.....	15	1	6
38	37	.....	1	17	.....	5	38	35	3	2	.....	30	3	7
196	140	10	46	51	48	111	185	175	90	11	4	70	10	8
35	33	2	.....	49	1	20	70	65	40	2	.....	23	5	9
475.3	326.0	66.2	83.1	174.0	140.0	356.2	621.6	593.6	258.2	68.1	4.0	263.3	28.0	10
492	492	.....	.....	158	100	380	509	.....	16	73	.....	215	.....	11
646	646	.....	.....	185	128	420	617	.....	12	115	.....	351	.....	12
475	326	66	83	174	140	356	621	593	258	68	4	263	28	13
0.3	.....	0.2	0.1	.....	.....	0.2	0.6	0.6	0.2	0.1	.....	0.3	.....	14
1,947	1,619	97	231	260	439	1,566	3,833	2,921	901	355	12	1,653	912	15
1,351	1,351	.....	.....	345	377	911	1,699	.....	30	423	.....	753	.....	16
1,867	1,867	.....	.....	301	289	1,306	2,231	.....	42	221	.....	1,355	.....	17
.....	.....	.....	.....	.....	.....	1.1	0.2	0.2	.....	.....	.....	0.2	.....	18
.....	.....	.....	.....	.....	.....	0.4	2.0	.....	.....	.....	.....	2.0	.....	19
.....	.....	.....	.....	.....	0.1	4.0	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	0.2	0.2	.....	.....	.....	0.2	.....	21
.....	.....	.....	.....	.....	.....	0.5	.....	.....	.....	.....	.....	.....	.....	22
.....	.....	.....	.....	.....	.....	0.5	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	0.1	.....	.....	.....	.....	.....	.....	.....	24
19	5	4	10	3	1	2	6	5	3	.....	.....	2	1	25
4	4	.....	.....	1	.....	4	4	.....	1	.....	.....	1	.....	26
9	9	.....	.....	22	.....	7	2	.....	.....	.....	.....	2	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
15	3	4	8	3	1	2	5	4	3	.....	.....	1	1	29
4	2	.....	2	.....	.....	.....	1	1	.....	.....	.....	1	.....	30
16	5	4	7	2	1	2	6	5	3	.....	.....	2	[6] 1	31
7	1	.....	6	1	.....	.....	1	1	.....	.....	.....	1	.....	32
6	3	3	.....	1	1	2	1	1	.....	.....	.....	1	.....	33
3	1	1	1	.....	.....	.....	4	3	3	.....	.....	.....	1	34
45,728	18,672	25,966	1,090	([8])	([8])	([8])	866,965	851,761	851,380	.....	.....	([8])	15,204	35
5	5	.....	.....	1	1	6	4	.....	1	.....	.....	1	.....	36
1,307	1,307	.....	.....	80	400	931	848,387	.....	847,000	.....	.....	800	.....	37
2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
([8])	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
60	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	50
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	52
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	57
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	61
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	64
60	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	67
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	68
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	78
34	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
.....	.....	.....	.....	.....	.....	([8])	.....	.....	.....	.....	.....	.....	.....	82

[5] Includes siphons and farm pipe lines reported.
[6] Data for less than 3 enterprises shown with permission of the enterprise involved.
[7] Total capacity of all reservoirs regardless of size.
[8] Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Albany	Big Horn	Campbell
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*				
1	All farms....1940...number	15,018	458	1,051	852
2	1930...number	16,011	548	948	1,310
3	Irrigated farms....1940...number	8,637	323	1,003	13
4	1930...number	7,308	327	863	2
5	Increase or decrease (-), 1930-1940....percent	18.2	-1.2	16.2	550.0
6	Operated by—(a) Owners and managers....1940...number	6,427	261	741	13
7	1930...number	5,426	252	624	.....
8	(b) Tenants....1940...number	2,210	62	262	.....
9	1930...number	1,882	75	239	2
10	Land in all farms....1940...acres	28,025,979	1,468,810	488,120	2,968,976
11	Land in irrigated farms....1940...acres	12,915,523	1,266,524	436,871	95,936
12	Average per farm....1940...acres	1,495	3,921	436	7,380
13	(a) Operated by owners and managers....1940...acres	11,959,992	1,136,277	371,983	95,936
14	Average per farm....1940...acres	1,861	4,354	502	7,380
15	(b) Operated by tenants....1940...acres	955,531	130,247	64,888	.....
16	Average per farm....1940...acres	432	2,101	248	.....
17	Approximate land area....1940...acres	[1] 62,403,840	2,816,000	2,032,640	3,043,200
	IRRIGATED AND IRRIGABLE AREAS				
18	Area irrigated....1939...acres	1,486,498	127,506	110,198	492
19	(a) Cropland harvested....1939...acres	1,193,997	97,525	89,270	452
20	(b) Crop failure....1939...acres	16,550	1,901	1,808	.....
21	(c) Pasture....1939...acres	275,951	28,080	19,120	40
22	Area irrigated....1929...acres	1,236,155	123,570	104,889	440
23	1919...acres	1,207,982	114,248	108,754	1,066
24	Increase or decrease (-), 1929-1939....percent	20.3	3.2	5.1	11.8
25	Irrigable area in enterprises....1940...acres	2,277,046	341,673	163,062	1,257
26	1930...acres	1,958,147	218,800	170,163	440
27	1920[2]...acres	2,564,668	332,455	213,937	3,278
28	Excess of irrigable area over the area irrigated...1940...acres	790,548	214,167	52,864	765
29	1930...acres	721,992	95,230	65,274	.....
30	Area works were capable of supplying with water...1940...acres	1,913,527	234,893	139,752	1,192
31	1930...acres	1,655,008	182,829	145,783	440
32	1920...acres	1,831,039	218,270	161,341	2,220
33	Increase or decrease (-), 1930-1940....percent	15.6	28.5	-4.1	170.9
34	Excess, capability of works over area irrigated...1940...acres	427,029	107,387	29,554	700
35	1930...acres	418,853	59,259	40,894	.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	11.5	10.1	25.2	0.5
37	1929...percent	12.4	11.3	61.0	2.0
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	77.7	54.3	78.9	41.3
39	1929...percent	74.7	67.6	71.9	100.0
	CAPITAL INVESTED TO JANUARY 1				
40	Total investment in all enterprises....1940...dollars	41,522,801	4,358,118	4,228,044	14,353
41	(a) Cost of irrigation works and equipment....1940...dollars	41,057,813	4,212,518	4,211,876	13,873
42	(b) Investment in water rights (reported)....1940...dollars	464,988	145,600	16,168	480
43	Total investment in all enterprises....1930...dollars	35,153,187	3,480,280	3,734,074	5,300
44	1920...dollars	34,326,328	3,975,710	4,495,690	85,100
45	Increase or decrease (-), 1930-1940....percent	18.1	25.2	13.2	170.8
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	21.70	18.55	30.25	12.04
47	1930...dollars	21.24	19.04	25.61	12.04
48	1920...dollars	18.75	18.21	27.86	38.33
49	Average investment per acre irrigated....1939...dollars	27.93	34.18	38.37	29.17
50	Estimated final investment in existing enterprises...1940...dollars	48,539,663	5,310,818	4,238,744	16,853
51	1930...dollars	41,970,416	3,633,006	3,929,582	5,300
52	1920...dollars	51,500,288	3,998,180	6,104,440	88,100
53	Increase or decrease (-), 1930-1940....percent	15.7	46.2	7.9	218.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	21.32	15.54	25.99	13.41
55	1930...dollars	21.43	16.60	23.09	12.04
56	1920[2]...dollars	20.08	12.03	28.53	26.88
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	
57	Enterprises reporting maintenance and operation...1939...number	2,977 / 62	250 / 1	118 / 4	5
58	Area irrigated in these enterprises....1939...acres	1,421,852 / 93,014	122,631 / ([3])	110,006 / 197	107
59	Cost of maintenance and operation....1939...dollars	807,345 / 31,923	44,548 / ([3])	79,422 / 282	154
60	Average cost, per acre irrigated....1939...dollars	0.57 / 0.34	0.36 / ([3])	0.72 / 1.43	1.44
61	1929...dollars	0.84 /	0.33 /	1.07 /	0.45
62	Total annual charges (reported)[4] [5]....1939...dollars	631,343 / 31,368	25,247 /	109,181 /	.....
63	Average annual charge per acre irrigated....1939...dollars	0.87 / 0.38	0.56 /	1.09 /	.....
64	Area against which charges were assessed....1939...acres	852,728 / 82,504	56,513 /	117,017 /	.....
65	Average annual charge per acre assessed....1939...dollars	0.74 / 0.38	0.45 /	0.93 /	.....
66	Total charges collected[4]....1939...dollars	447,354 / 24,806	16,752 /	54,981 / 9,180	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars	15,770,071 / 929,414	99,490 /	1,007,041 / 718,260	.....
	WATER DELIVERED TO IRRIGATORS				
68	Enterprises reporting water delivered....1939...number	3,006 / 55	257 /	111 / 3	12
69	Area irrigated in these enterprises....1939...acres	1,360,506 / 67,746	126,150 /	101,992 / 197	492
70	Water delivered in these enterprises....1939...acre-feet	2,833,092 / 56,521	133,699 /	272,390 / 332	314
71	Average water delivered per acre irrigated....1939...acre-feet	2.1 / 0.8	1.06 /	2.7 / 1.7	0.6
72	Average cost of water per acre irrigated....1939...dollars	0.66 / 0.48	0.38 /	1.07 / 1.43	1.43
	DRAINAGE OF IRRIGATED LAND				
73	Enterprises reporting land drained or needing drainage....1939...number	150 /	34 /	23 /	.....
74	Irrigable area in these enterprises....1939...acres	843,642 /	117,342 /	111,718 /	.....
75	Irrigated area in these enterprises....1939...acres	456,760 /	23,171 /	79,618 /	.....
76	Area for which drains have been installed....1939...acres	175,394 /	17,471 /	48,480 /	.....
77	Additional area needing drainage....1939...acres	44,997 /	2,277 /	10,206 /	.....

* Census of Agriculture. [1] Includes 1,875,840 acres in Yellowstone National Park (part of) not shown in detail. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [4] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Carbon		Converse	Crook	Fremont[1]		Goshen	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS[6]								
1	All farms....1940...number	524		522	808	1,542		1,328	
2	1930...number	500		811	953	942		1,487	
3	Irrigated farms....1940...number	392		197	26	1,333		758	
4	1930...number	358		171	13	833		654	
5	Increase or decrease (-), 1930-1940....percent	9.5		15.2	100.0	60.0		15.9	
6	Operated by—(a) Owners and managers....1940...number	343		146	19	1,010		397	
7	1930...number	296		134	8	580		349	
8	(b) Tenants....1940...number	49		51	7	323		361	
9	1930...number	62		37	5	253		305	
10	Land in all farms....1940...acres	2,616,371		2,168,465	1,493,834	1,011,990		1,097,556	
11	Land in irrigated farms....1940...acres	2,000,500		764,401	92,950	698,665		323,950	
12	Average per farm....1940...acres	5,103		3,880	3,575	524		427	
13	(a) Operated by owners and managers....1940...acres	1,876,051		732,817	79,559	638,090		234,801	
14	Average per farm....1940...acres	5,470		5,019	4,187	632		591	
15	(b) Operated by tenants....1940...acres	124,449		31,584	13,391	60,575		89,149	
16	Average per farm....1940...acres	2,540		619	1,913	188		247	
17	Approximate land area....1940...acres	5,097,600		2,666,880	1,854,080	5,916,160		1,427,200	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	165,340		30,417	926	135,517		96,018	
19	(a) Cropland harvested....1939...acres	116,025		28,358	818	107,006		84,264	
20	(b) Crop failure....1939...acres	954		675	15	993		2,649	
21	(c) Pasture....1939...acres	48,361		1,384	93	27,518		9,105	
22	Area irrigated....1929...acres	121,534		37,398	457	78,985		87,842	
23	1919...acres	121,293		30,821	951	115,067		55,481	
24	Increase or decrease (-), 1929-1939....percent	36.0		-18.7	102.6	71.6		9.3	
25	Irrigable area in enterprises....1940...acres	187,889		44,437	2,593	267,359		113,512	
26	1930...acres	155,885		46,400	657	265,225		108,251	
27	1920[2]...acres	193,532		53,592	1,925	370,472		138,452	
28	Excess of irrigable area over the area irrigated....1940...acres	22,549		14,020	1,667	131,842		17,494	
29	1930...acres	34,351		9,002	200	186,240		20,409	
30	Area works were capable of supplying with water....1940...acres	179,469		41,925	1,716	192,110		112,884	
31	1930...acres	152,789		43,503	632	151,500		105,033	
32	1920...acres	150,485		43,818	1,689	197,406		85,142	
33	Increase or decrease (-), 1930-1940....percent	17.5		-3.6	171.5	26.8		7.5	
34	Excess, capability of works over area irrigated....1940...acres	14,129		11,508	790	56,593		16,866	
35	1930...acres	31,255		6,105	175	72,515		17,191	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	8.3		4.0	1.0	19.4		29.6	
37	1929...percent	8.3		9.1	1.7	11.7		32.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	92.1		72.6	54.0	70.5		85.1	
39	1929...percent	79.5		86.0	72.3	52.1		83.6	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	1,558,948		1,484,539	35,161	8,927,587		6,058,054	
41	(a) Cost of irrigation works and equipment....1940...dollars	1,511,498		1,472,250	34,484	8,900,801		6,054,820	
42	(b) Investment in water rights (reported)....1940...dollars	47,450		12,289	677	26,786		3,234	
43	Total investment in all enterprises....1930...dollars	831,209		915,028	3,100	6,269,771		5,499,544	
44	1920...dollars	1,193,535		862,217	20,912	3,784,769		3,680,421	
45	Increase or decrease (-), 1930-1940....percent	87.6		62.2	1,034.2	42.4		10.2	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	8.69		35.41	20.49	46.47		53.67	
47	1930...dollars	5.14		21.03	4.90	41.38		52.36	
48	1920...dollars	7.93		19.68	12.38	19.17		43.23	
49	Average investment per acre irrigated....1939...dollars	9.43		48.81	37.97	65.88		63.09	
50	Estimated final investment in existing enterprises....1940...dollars	1,629,473		1,488,632	43,386	13,779,697		6,059,979	
51	1930...dollars	860,309		939,428	3,200	12,365,371		5,505,344	
52	1920...dollars	1,253,535		914,867	20,912	11,646,044		6,596,902	
53	Increase or decrease (-), 1930-1940....percent	89.4		58.5	1,255.8	11.4		10.1	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	8.67		33.50	16.73	51.54		53.39	
55	1930...dollars	5.52		20.25	4.87	46.62		50.86	
56	1920[2]...dollars	6.48		17.07	10.86	31.44		47.65	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.			Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation....1939...number	298	5	120	29	249	5	50	2
58	Area irrigated in these enterprises....1939...acres	148,284	3,294	28,556	911	127,386	6,131	95,820	(3)
59	Cost of maintenance and operation....1939...dollars	35,241	702	33,802	723	151,862	515	72,879	(3)
60	Average cost, per acre irrigated....1939...dollars	0.24	0.21	1.18	0.79	1.19	0.08	0.76	(3)
61	1929...dollars	0.52	.....	1.15	1.84	1.33	.....	1.23	.....
62	Total annual charges (reported)[4 5]....1939...dollars	4,743	402	13,504	76	134,015	600	90,927	10,779
63	Average annual charge per acre irrigated....1939...dollars	0.24	0.15	1.37	0.48	1.37	0.10	1.02	0.70
64	Area against which charges were assessed....1939...acres	20,308	2,877	14,680	160	126,240	6,000	95,368	15,398
65	Average annual charge per acre assessed....1939...dollars	0.23	0.14	0.92	0.48	1.06	0.10	0.95	0.70
66	Total charges collected[4]....1939...dollars	4,454	402	13,520	.....	87,871	600	87,062	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars	249	.....	.....	.....	7,167,037	200	4,389,401	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	293	5	70	22	265	5	42	2
69	Area irrigated in these enterprises....1939...acres	134,650	3,294	22,287	926	127,380	6,131	87,779	(3)
70	Water delivered in these enterprises....1939...acre-feet	213,448	1,936	49,212	865	321,393	1,718	174,543	(3)
71	Average water delivered per acre irrigated....1939...acre-feet	1.6	0.6	2.2	0.9	2.5	0.3	2.0	(3)
72	Average cost of water per acre irrigated....1939...dollars	0.28	0.21	1.13	0.68	1.23	0.12	1.02	(3)
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	4	.....	2	.....	22	.....	6	.....
74	Irrigable area in these enterprises....1939...acres	5,208	.....	(3)	.....	201,386	.....	72,801	.....
75	Irrigated area in these enterprises....1939...acres	1,922	.....	(3)	.....	86,046	.....	63,325	.....
76	Area for which drains have been installed....1939...acres	560	.....	(3)	.....	24,185	.....	16,089	.....
77	Additional area needing drainage....1939...acres	420	.....	(3)	.....	6,508	.....	2,070	.....

[6] Census of Agriculture. [1] Part taken to form part of Sublette in 1923. [2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [3] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [4] Annual charges may include cost of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [5] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Hot Springs		Johnson		Laramie	Lincoln[1]		Natrona	Niobrara
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*									
1	All farms....1940...number	246		505		900	808		359	533
2	1930...number	229		536		996	666		389	727
3	Irrigated farms....1940...number	185		273		111	673		111	16
4	1930...number	171		237		94	534		119	3
5	Increase or decrease (-), 1930-1940....percent	8.2		15.2		18.1	26.0		-6.7	433.3
6	Operated by—(a) Owners and managers....1940...number	121		189		99	612		99	14
7	1930...number	141		173		74	484		103	3
8	(b) Tenants....1940...number	64		84		12	61		12	2
9	1930...number	30		64		20	50		16	.....
10	Land in all farms....1940...acres	308,335		1,829,388		1,565,639	501,872		1,804,559	1,378,781
11	Land in irrigated farms....1940...acres	197,168		902,790		752,785	417,579		743,200	82,394
12	Average per farm....1940...acres	1,066		3,307		6,782	620		6,695	5,150
13	(a) Operated by owners and managers....1940...acres	179,697		848,767		746,258	395,022		720,381	(2)
14	Average per farm....1940...acres	1,485		4,491		7,538	645		7,277	(2)
15	(b) Operated by tenants....1940...acres	17,471		54,023		6,527	22,557		22,819	(2)
16	Average per farm....1940...acres	273		643		544	370		1,902	(2)
17	Approximate land area....1940...acres	1,294,080		2,672,000		1,729,920	2,624,640		3,418,880	1,672,320
	IRRIGATED AND IRRIGABLE AREAS									
18	Area irrigated....1939...acres	18,171		46,732		26,454	100,135		25,481	850
19	(a) Cropland harvested....1939...acres	16,699		37,227		24,760	84,643		20,948	710
20	(b) Crop failure....1939...acres	592		1,209		969	117		639	40
21	(c) Pasture....1939...acres	880		8,296		725	15,375		3,894	100
22	Area irrigated....1929...acres	21,675		30,437		28,383	73,650		14,657	367
23	1919...acres	16,443		63,383		24,165	168,428		10,385	759
24	Increase or decrease (-), 1929-1939....percent	-16.2		53.5		-6.8	36.0		73.8	131.6
25	Irrigable area in enterprises....1940...acres	28,437		64,706		35,716	112,865		30,486	2,181
26	1930...acres	27,570		34,633		34,176	97,973		24,462	778
27	1920[3]...acres	23,333		97,830		50,590	288,057		21,918	1,427
28	Excess of irrigable area over the area irrigated...1940...acres	10,266		17,974		9,262	12,730		5,005	1,331
29	1930...acres	5,895		4,196		5,793	24,323		9,805	411
30	Area works were capable of supplying with water...1940...acres	28,000		60,191		34,833	110,004		29,145	2,181
31	1930...acres	26,023		32,361		30,441	92,954		22,702	578
32	1920...acres	21,125		82,933		29,990	245,723		14,920	1,102
33	Increase or decrease (-), 1930-1940....percent	7.6		86.0		14.4	18.3		28.4	277.3
34	Excess, capability of works over area irrigated...1940...acres	9,829		13,459		8,379	9,869		3,664	1,331
35	1930...acres	4,348		1,924		2,058	19,304		8,045	211
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	9.2		5.2		3.5	24.0		3.4	1.0
37	1929...percent	11.1		4.1		4.6	19.9		2.9	1.6
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	64.9		77.6		75.9	91.0		87.4	39.0
39	1929...percent	83.3		94.1		93.2	79.2		64.6	63.5
	CAPITAL INVESTED TO JANUARY 1									
40	Total investment in all enterprises....1940...dollars	380,544		534,651		432,811	717,171		311,007	12,230
41	(a) Cost of irrigation works and equipment....1940...dollars	374,602		522,589		416,206	702,301		294,812	11,420
42	(b) Investment in water rights (reported)....1940...dollars	5,942		12,062		16,605	14,870		16,195	810
43	Total investment in all enterprises....1930...dollars	181,315		458,210		403,226	327,399		234,967	4,829
44	1920...dollars	141,450		861,860		267,853	1,694,382		2,207,139	23,195
45	Increase or decrease (-), 1930-1940....percent	109.9		16.7		7.3	119.1		32.4	153.3
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	13.59		8.88		12.43	6.52		10.67	5.61
47	1930...dollars	6.97		14.16		13.25	3.52		10.35	8.35
48	1920...dollars	6.70		10.39		8.93	(4)		(4)	21.05
49	Average investment per acre irrigated....1939...dollars	20.94		11.44		16.36	7.16		12.21	14.39
50	Estimated final investment in existing enterprises...1940...dollars	382,044		537,751		441,061	726,556		321,767	12,295
51	1930...dollars	191,515		458,610		405,226	332,799		238,442	4,829
52	1920...dollars	146,450		878,536		268,853	1,741,382		2,208,139	27,170
53	Increase or decrease (-), 1930-1940....percent	99.5		17.3		8.8	118.3		34.9	154.6
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	13.43		8.31		12.35	6.44		10.55	5.64
55	1930...dollars	6.95		13.24		11.86	3.40		9.75	6.21
56	1920[3]...dollars	6.28		8.98		5.31	(4)		(4)	19.04
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		
57	Enterprises reporting maintenance and operation...1939...number	95	[5]2	144	8	69	230	4	98	9
58	Area irrigated in these enterprises....1939...acres	17,970	4,187	44,941	13,322	19,693	96,625	4,267	23,947	546
59	Cost of maintenance and operation....1939...dollars	11,055	13,550	17,460	1,110	20,771	23,086	60	13,185	860
60	Average cost, per acre irrigated....1939...dollars	0.62	3.24	0.39	0.08	1.05	0.24	0.01	0.55	1.58
61	1929...dollars	0.46	.....	0.94	.....	1.46	0.35	.....	0.85	3.13
62	Total annual charges (reported)[6 7]....1939...dollars	4,119	15,093	6,861	1,136	759	24,510	20	799	.....
63	Average annual charge per acre irrigated....1939...dollars	0.50	3.60	0.40	0.09	0.56	0.53	(8)	0.21	.....
64	Area against which charges were assessed....1939...acres	10,820	4,235	18,348	12,700	1,350	49,593	4,110	6,194	.....
65	Average annual charge per acre assessed....1939...dollars	0.38	3.56	0.37	0.09	0.56	0.49	(8)	0.13	.....
66	Total charges collected[6]....1939...dollars	.....	5,076	6,524	1,136	.....	11,672	.....	800	.....
67	Indebtedness to December 31 (reported)[7]....1939...dollars	.....	45,214	.....	.....	.....	81,562	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS									
68	Enterprises reporting water delivered....1939...number	95	[5]2	155	7	96	240	4	87	14
69	Area irrigated in these enterprises....1939...acres	18,146	4,187	46,732	13,361	26,349	87,587	4,267	17,466	840
70	Water delivered in these enterprises....1939...acre-feet	25,787	4,800	62,709	10,427	35,043	211,104	850	19,014	956
71	Average water delivered per acre irrigated....1939...acre-feet	1.4	1.1	1.3	0.8	1.3	2.4	0.2	1.1	1.1
72	Average cost of water per acre irrigated....1939...dollars	0.61	3.60	0.40	0.10	1.05	0.42	0.01	0.58	1.58
	DRAINAGE OF IRRIGATED LAND									
73	Enterprises reporting land drained or needing drainage....1939...number	4	.....	4	.....	2	3	.....	1	1
74	Irrigable area in these enterprises....1939...acres	4,874	.....	2,984	.....	(2)	13,974	.....	(2)	(2)
75	Irrigated area in these enterprises....1939...acres	1,696	.....	2,000	.....	(2)	13,770	.....	(2)	(2)
76	Area for which drains have been installed....1939...acres	80	.....	.....	.....	.....	.....	.....	(2)	(2)
77	Additional area needing drainage....1939...acres	251	.....	353	.....	(2)	5,202	.....	.....	.....

*Census of Agriculture. [1]Parts taken to form Teton and part of Sublette in 1923. [2]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census. [3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4]Average not shown because part of land served by storage works lies in another State. [5]Data for less than 3 enterprises shown with permission of the enterprises involved. [6]Annual charges may include cost of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [7]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only. [8]Less than 1 cent.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Park[1]		Platte		Sheridan		Sublette[2]	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number	916		778		1,019		312	
2	1930...number	688		1,148		926		292	
3	Irrigated farms....1940...number	854		445		609		282	
4	1930...number	652		485		465		262	
5	Increase or decrease (-), 1930-1940....percent	31.0		-8.2		31.0		7.6	
6	Operated by—(a) Owners and managers....1940...number	634		240		396		259	
7	1930...number	489		304		286		235	
8	(b) Tenants....1940...number	220		205		213		23	
9	1930...number	163		181		179		27	
10	Land in all farms....1940...acres	702,281		[3] 1,528,491		1,318,290		576,872	
11	Land in irrigated farms....1940...acres	667,796		1,082,033		763,747		542,393	
12	Average per farm....1940...acres	782		2,432		1,254		1,923	
13	(a) Operated by owners and managers....1940...acres	615,513		1,012,812		658,443		525,808	
14	Average per farm....1940...acres	971		4,220		1,663		2,030	
15	(b) Operated by tenants....1940...acres	52,283		69,221		105,304		16,585	
16	Average per farm....1940...acres	238		338		494		721	
17	Approximate land area....1940...acres	3,338,880		1,352,960		1,619,840		3,120,640	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	102,423		71,582		79,883		160,570	
19	(a) Cropland harvested....1939...acres	87,311		69,103		71,355		112,723	
20	(b) Crop failure....1939...acres	113		667		56		63	
21	(c) Pasture....1939...acres	14,999		1,812		8,472		47,784	
22	Area irrigated....1929...acres	81,202		67,346		70,435		125,744	
23	1919...acres	77,527		66,753		68,311		.....	
24	Increase or decrease (-), 1929-1939....percent	26.1		6.3		13.4		27.7	
25	Irrigable area in enterprises....1940...acres	132,872		91,428		100,681		229,065	
26	1930...acres	119,895		116,123		77,938		198,287	
27	1920[4]...acres	180,716		131,362		108,667		.....	
28	Excess of irrigable area over the area irrigated...1940...acres	30,449		19,846		20,798		68,495	
29	1930...acres	38,693		48,777		7,503		72,543	
30	Area works were capable of supplying with water...1940...acres	129,526		88,218		100,332		195,224	
31	1930...acres	116,684		91,032		75,096		161,138	
32	1920...acres	121,465		108,639		90,198		.....	
33	Increase or decrease (-), 1930-1940....percent	11.0		-3.1		33.6		21.2	
34	Excess, capability of works over area irrigated...1940...acres	27,103		16,636		20,449		34,654	
35	1930...acres	35,482		23,686		4,661		35,394	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	15.3		6.6		10.5		29.6	
37	1929...percent	18.6		7.2		14.2		32.0	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	79.1		81.1		79.6		82.2	
39	1929...percent	69.6		74.0		83.8		78.0	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	4,835,612		1,410,560		1,510,851		1,515,125	
41	(a) Cost of irrigation works and equipment....1940...dollars	4,811,691		1,401,825		1,492,122		1,453,305	
42	(b) Investment in water rights (reported)....1940...dollars	23,921		8,735		18,729		61,820	
43	Total investment in all enterprises....1930...dollars	6,642,442		989,310		1,099,049		949,868	
44	1920...dollars	5,640,280		1,642,905		1,096,497		.....	
45	Increase or decrease (-), 1930-1940....percent	-27.2		42.6		37.5		59.5	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	37.33		15.99		15.06		7.76	
47	1930...dollars	56.93		10.87		14.64		5.89	
48	1920...dollars	46.44		15.12		12.16		.....	
49	Average investment per acre irrigated....1939...dollars	48.15		19.71		18.91		9.44	
50	Estimated final investment in existing enterprises...1940...dollars	5,327,922		1,441,435		1,516,066		1,566,645	
51	1930...dollars	6,758,356		1,036,460		1,149,149		981,868	
52	1920...dollars	9,862,433		1,907,605		1,040,157		.....	
53	Increase or decrease (-), 1930-1940....percent	-21.2		39.1		31.9		59.6	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	40.10		15.77		15.06		6.84	
55	1930...dollars	56.37		8.92		14.74		4.95	
56	1920[4]...dollars	54.57		14.52		9.57		.....	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number	150	2	85	1	191	9	293	7
58	Area irrigated in these enterprises....1939...acres	100,374	([5])	70,681	([5])	77,555	16,362	154,744	21,270
59	Cost of maintenance and operation....1939...dollars	87,110	([5])	37,881	([5])	33,738	2,736	41,056	1,149
60	Average cost, per acre irrigated....1939...dollars	0.87	([5])	0.54	([5])	0.44	0.17	0.27	0.05
61	1929...dollars	0.88	.....	1.41	.....	1.38	.....	0.32	.....
62	Total annual charges (reported)[6] [7]....1939...dollars	88,689	.....	28,116	.....	23,265	2,590	4,426	411
63	Average annual charge per acre irrigated....1939...dollars	1.19	.....	0.54	.....	0.41	0.18	0.37	0.02
64	Area against which charges were assessed....1939...acres	80,258	.....	56,694	.....	60,508	14,698	18,293	19,120
65	Average annual charge per acre assessed....1939...dollars	1.11	.....	0.50	.....	0.38	0.18	0.24	0.02
66	Total charges collected[6]....1939...dollars	30,974	1,620	28,116	.....	19,126	4,042	2,645	2,750
67	Indebtedness to December 31 (reported)[7]....1939...dollars	2,415,961	126,750	.....	.....	700	.....	21,070	39,000
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	144	1	72	1	208	8	301	5
69	Area irrigated in these enterprises....1939...acres	98,817	([5])	69,566	([5])	71,383	14,762	156,422	1,033
70	Water delivered in these enterprises....1939...acre-feet	315,717	([5])	95,622	([5])	110,361	17,326	418,881	2,447
71	Average water delivered per acre irrigated....1939...acre-feet	3.2	([5])	1.4	([5])	1.5	1.2	2.7	2.4
72	Average cost of water per acre irrigated....1939...dollars	1.07	([5])	0.53	([5])	0.46	0.18	0.27	0.18
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	11	.....	2	.....	11	.....	8	.....
74	Irrigable area in these enterprises....1939...acres	77,311	.....	([5])	.....	20,187	.....	7,976	.....
75	Irrigated area in these enterprises....1939...acres	59,922	.....	([5])	.....	13,389	.....	5,299	.....
76	Area for which drains have been installed....1939...acres	45,865	.....	([5])	.....	442	.....	26	.....
77	Additional area needing drainage....1939...acres	7,853	.....	([5])	.....	207	.....	525	.....

*Census of Agriculture. [1]Part annexed to Yellowstone National Park, and part of Yellowstone National Park annexed in 1929. [2]Organized from parts of Fremont and Lincoln in 1923. [3]The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters are located, even though a part of the farm may be situated in an adjoining county. [4]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [5]Data are included only in State totals because less than 3 enterprises reported in the 1940 Census. [6]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [7]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE I.—IRRIGATED FARMS AND TENURE OF FARM OPERATORS, 1940 AND 1930; IRRIGATED AREA, 1939, 1929, AND 1919; IRRIGABLE AREA AND CAPITAL INVESTED, 1940, 1930, AND 1920; MAINTENANCE AND OPERATION, CHARGES, AND INDEBTEDNESS, 1939 AND 1929; LAND IN IRRIGATED FARMS, 1940; WATER DELIVERED TO IRRIGATORS AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

	ITEM (For definitions and explanations, see text)	Sweetwater		Teton[1]		Uinta		Washakie	Weston
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number	256		201		398		306	396
2	1930...number	258		280		435		326	616
3	Irrigated farms....1940...number	189		168		376		281	19
4	1930...number	173		207		376		285	24
5	Increase or decrease (-), 1930-1940....percent	9.2		-18.8		.....		-1.4	20.8
6	Operated by—(a) Owners and managers....1940...number	161		134		336		186	17
7	1930...number	151		184		337		200	19
8	(b) Tenants....1940...number	28		34		40		95	2
9	1930...number	22		23		39		85	5
10	Land in all farms....1940...acres	1,304,990		100,447		443,593		179,755	1,169,064
11	Land in irrigated farms....1940...acres	267,532		92,883		436,488		165,228	121,710
12	Average per farm....1940...acres	1,416		553		1,161		588	6,406
13	(a) Operated by owners and managers....1940...acres	256,401		81,989		418,629		142,214	[2]
14	Average per farm....1940...acres	1,593		612		1,246		765	[2]
15	(b) Operated by tenants....1940...acres	11,131		10,894		17,859		23,014	[2]
16	Average per farm....1940...acres	398		320		446		242	[2]
17	Approximate land area....1940...acres	6,714,880		1,801,600		1,324,800		1,447,680	1,541,120
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres	22,075		30,995		91,192		40,418	3,123
19	(a) Cropland harvested....1939...acres	17,779		27,973		58,664		37,888	2,496
20	(b) Crop failure....1939...acres	370		30		2,268		265	157
21	(c) Pasture....1939...acres	3,926		2,992		30,260		2,265	470
22	Area irrigated....1929...acres	19,756		18,652		86,122		39,661	2,953
23	1919...acres	14,010		.....		102,695		41,179	6,263
24	Increase or decrease (-), 1929-1939....percent	11.7		66.2		5.9		1.9	5.8
25	Irrigable area in enterprises....1940...acres	75,069		43,838		152,614		49,793	5,513
26	1930...acres	51,705		32,673		115,614		53,747	6,752
27	1920[3]...acres	57,591		.....		222,643		60,349	12,542
28	Excess of irrigable area over the area irrigated...1940...acres	52,994		12,843		61,422		9,375	2,390
29	1930...acres	31,949		14,021		29,492		14,086	3,799
30	Area works were capable of supplying with water...1940...acres	34,074		40,076		107,573		45,296	4,913
31	1930...acres	43,685		26,282		101,567		48,382	3,574
32	1920...acres	46,805		.....		148,553		50,597	8,618
33	Increase or decrease (-), 1930-1940....percent	22.0		52.5		5.9		-6.4	37.5
34	Excess, capability of works over area irrigated...1940...acres	11,999		9,081		16,381		4,878	1,790
35	1930...acres	23,929		7,630		15,445		8,721	621
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent	8.3		33.4		20.9		24.5	2.6
37	1929...percent	4.7		23.7		25.8		23.1	2.6
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent	64.8		77.3		84.8		89.2	63.6
39	1929...percent	45.2		71.0		84.8		82.0	82.6
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars	1,184,571		124,082		535,777		1,309,750	43,255
41	(a) Cost of irrigation works and equipment....1940...dollars	1,179,272		117,320		519,771		1,306,782	41,675
42	(b) Investment in water rights (reported)....1940...dollars	5,299		6,762		16,006		2,968	1,580
43	Total investment in all enterprises....1930...dollars	790,190		1,381,282		280,955		640,099	31,740
44	1920...dollars	892,577		.....		729,264		859,652	170,920
45	Increase or decrease (-), 1930-1940....percent	49.9		-91.0		90.7		104.6	36.3
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars	34.76		3.10		4.98		28.92	8.80
47	1930...dollars	18.09		[4]		2.77		13.23	8.88
48	1920...dollars	19.07		.....		4.91		16.99	19.83
49	Average investment per acre irrigated....1939...dollars	53.66		4.00		5.88		32.41	13.85
50	Estimated final investment in existing enterprises...1940...dollars	1,426,469		130,873		741,667		1,352,275	47,255
51	1930...dollars	802,946		1,384,483		288,355		655,099	40,740
52	1920...dollars	910,727		.....		744,344		921,952	219,560
53	Increase or decrease (-), 1930-1940....percent	77.7		-90.5		157.2		106.4	16.0
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars	19.00		2.99		4.86		27.16	8.57
55	1930...dollars	15.53		[4]		2.49		12.19	6.03
56	1920[3]...dollars	15.81		.....		3.34		15.28	17.51
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
57	Enterprises reporting maintenance and operation...1939...number	102	1	103	3	189	8	83	17
58	Area irrigated in these enterprises....1939...acres	22,075	[2]	28,310	3,440	88,009	1,139	40,358	2,623
59	Cost of maintenance and operation....1939...dollars	22,348	[2]	6,343	336	15,072	205	57,425	1,301
60	Average cost, per acre irrigated....1939...dollars	1.01	[2]	0.22	0.10	0.17	0.18	1.42	0.50
61	1929...dollars	1.66	.....	0.36	.....	0.18	.....	1.92	0.91
62	Total annual charges (reported)[5] [6]....1939...dollars	9,056	.....	1,179	337	10,160	.....	51,711	.....
63	Average annual charge per acre irrigated....1939...dollars	0.74	.....	0.13	0.10	0.24	.....	1.70	.....
64	Area against which charges were assessed....1939...acres	19,807	.....	9,256	3,366	59,981	.....	31,340	.....
65	Average annual charge per acre assessed....1939...dollars	0.46	.....	0.13	0.10	0.17	.....	1.65	.....
66	Total charges collected[5]....1939...dollars	30,668	.....	96	.....	4,643	.....	47,450	.....
67	Indebtedness to December 31 (reported)[6]....1939...dollars	393,596	.....	.....	.....	.....	.....	193,964	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number	100	1	127	3	199	8	78	18
69	Area irrigated in these enterprises....1939...acres	20,475	[2]	27,964	3,490	84,541	1,319	29,439	3,123
70	Water delivered in these enterprises....1939...acre-feet	39,910	[2]	102,381	6,350	149,701	2,510	77,157	2,885
71	Average water delivered per acre irrigated....1939...acre-feet	1.9	[2]	3.7	1.8	1.8	1.9	2.6	0.9
72	Average cost of water per acre irrigated....1939...dollars	0.82	[2]	0.24	0.10	0.21	0.18	1.83	0.50
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number	2	.....	1	.....	4	.....	5	.....
74	Irrigable area in these enterprises....1939...acres	[2]	.....	[2]	.....	47,788	.....	34,125	.....
75	Irrigated area in these enterprises....1939...acres	[2]	.....	[2]	.....	8,288	.....	30,125	.....
76	Area for which drains have been installed....1939...acres	[2]	.....	.....	.....	.....	.....	19,006	.....
77	Additional area needing drainage....1939...acres	[2]	.....	[2]	.....	475	.....	1,825	.....

*Census of Agriculture. [1]Organized from part of Lincoln in 1923. [2]Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census. [3]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [4]Average not shown because part of land served by storage works lies in another State. [5]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [6]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940, 1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Albany	Big Horn	Campbell	Carbon	Converse
	FARM VALUES, 1940[a]						
1	Land and buildings, all farms....dollars..	158,971,294	6,516,436	7,455,943	9,600,555	10,549,825	7,300,382
2	Land and buildings, irrigated farms....dollars..	106,524,175	5,775,017	7,208,798	292,072	9,278,081	3,625,175
	Operated by—						
3	(a) Owners and managers....dollars..	88,316,333	5,139,340	5,418,673	292,072	8,491,881	3,299,565
4	(b) Tenants....dollars..	18,207,842	635,677	1,790,125	.....	786,200	325,610
5	Average, land and buildings, per farm....dollars..	12,333.47	17,879.31	7,187.24	22,467.08	23,668.57	18,401.90
6	per acre in farms....dollars..	8.25	4.56	16.50	3.04	4.64	4.74
7	Buildings, irrigated farms reporting value....number...	8,429	322	960	13	383	196
8	Total reported....dollars..	20,788,956	1,101,829	1,600,161	49,925	1,044,430	505,240
9	Average, per irrigated farm reporting....dollars..	2,466.36	3,421.83	1,666.83	3,840.38	2,726.97	2,577.76
10	per acre on all irrigated farms....dollars..	1.61	0.87	3.66	0.52	0.52	0.66
11	Buildings, nonirrigated farms reporting value....number...	6,117	132	38	823	127	319
12	Total reported....dollars..	8,546,528	218,675	43,500	1,200,834	166,058	403,849
13	Average, per nonirrigated farm reporting....dollars..	1,397.18	1,656.63	1,144.74	1,459.09	1,307.54	1,265.98
14	per acre on all nonirrigated farms....dollars..	0.57	1.08	0.85	0.42	0.27	0.29
15	Implements and machinery, irrigated farms reporting value..number...	7,742	308	938	13	379	193
16	Total reported....dollars..	10,873,844	367,314	1,360,300	17,895	636,529	248,765
17	Average, per irrigated farm reporting....dollars..	1,404.53	1,192.58	1,450.21	1,376.54	1,679.50	1,288.94
18	per acre, on all irrigated farms....dollars..	0.84	0.29	3.11	0.19	0.32	0.33
19	Implements and machinery, nonirrigated farms reporting value....number...	5,578	105	25	787	118	306
20	Total reported....dollars..	4,436,003	43,708	16,000	636,490	135,383	216,548
21	Average, per acre, on all nonirrigated farms....dollars..	0.29	0.22	0.31	0.22	0.22	0.15
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises....1940...number....	[1] 3,404	272	125	21	337	133
23	1930...number....	[1] 2,637	232	115	3	270	83
24	1920...number....	3,564	303	198	19	380	118
25	Average size of enterprise based on irrigable area....1940...acres....	669	1,256	1,304	60	558	334
26	1930...acres....	743	943	1,480	147	577	559
27	1920[2]..acres....	720	1,097	1,080	173	509	454
28	Diversion dams....1940...number....	4,205	589	115	29	679	153
29	Main canals and laterals....1940...length, miles....	11,762.1	1,052.7	664.6	16.0	1,366.0	499.5
30	1930...length, miles....	10,775	1,017	725	.....	777	449
31	1920...length, miles....	12,051	923	800	34	1,186	481
32	1940...capacity, c.f.s.[3]....	46,366	5,150	2,173	61	4,155	950
33	1930...capacity, c.f.s.[3]....	35,811	4,893	2,715	.....	2,441	746
34	1920...capacity, c.f.s.[3]....	39,009	4,669	2,904	109	3,057	2,259
35	Pipe lines[4]....1940...length, miles....	70.3	4.0	19.3	0.1	0.1	2.6
36	Storage dams....1940...number....	319	39	6	5	30	6
37	Reservoirs....1940...number....	334	34	5	6	46	6
38	1930...number....	214	9	5	1	20	4
39	1920...number....	374	30	12	14	25	10
40	1940...capacity, acre-feet..	3,379,957	314,514	4,776	650	5,065	20,880
41	1930...capacity, acre-feet..	3,051,745	119,590	1,806	1	4,593	20,600
42	1920...capacity, acre-feet..	2,911,748	132,114	2,293	2,438	10,336	20,798
43	Wells, flowing....1940...number....	36	7	.....	.....	.....	1
44	1930...number....	6	.....	.....	.....	.....	.....
45	1920...number....	7	.....	.....	.....	1	1
46	1940...yield, g.p.m....	3,830	750	.....	.....	.....	(5)
47	1930...yield, g.p.m....	2,205	.....	.....	.....	.....	.....
48	1920...yield, g.p.m....	46	.....	.....	.....	.....	40
49	Wells, pumped....1940...number....	94	5	1	3	3	2
50	1930...number....	11	.....	.....	.....	.....	.....
51	1920...number....	16	.....	1	2	5	1
52	1940...yield, g.p.m....	60,522	1,288	(5)	74	87	(5)
53	1930...yield, g.p.m....	8,280	.....	.....	.....	.....	.....
54	1920...yield, g.p.m....	8,020	.....	900	2,005	.....	180
55	Pumping plants....1940...number....	224	7	6	3	4	21
56	1930...number....	61	.....	1	.....	3	9
57	1920...number....	57	.....	6	2	6	3
58	Prime movers....1940...capacity, hp....	4,152	38	116	5	8	495
59	1930...capacity, hp....	912	.....	45	.....	51	400
60	1920...capacity, hp....	1,304	.....	202	82	40	51
61	Pumps....1940...capacity, g.p.m....	209,559	1,379	5,600	74	3,087	33,249
62	1930...capacity, g.p.m....	86,905	.....	1,000	.....	3,850	44,620
63	1920...capacity, g.p.m....	39,725	.....	2,250	2,005	1,287	1,782
64	Pumping lift, from all sources....1940...average, feet....	30	25	21	113	6	18
65	1930...average, feet....	21	.....	12	.....	18	20
66	1920...average, feet....	31	.....	14	70	17	35
67	from pumped wells....1940...average, feet....	46	18	(5)	113	8	(5)
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]						
68	Enterprises reporting pay roll....number...	184	9	25	.....	5	3
69	Irrigated area in these enterprises....acres....	637,201	37,037	90,354	.....	10,864	9,880
70	Wages and salaries paid and payable....dollars..	392,047	7,227	32,485	.....	840	11,620
71	Persons employed during week ending April 29....number...	578	14	69	.....	6	12

[a] Census of Agriculture.
[1] Includes intercounty projects counted as independent enterprises for each county into which they extend. For actual number of enterprises see State table 1.
[2] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[3] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[4] Includes siphons and farm pipe lines reported.
[5] Data are included only in State totals because less than 3 enterprises reported in the 1940 Census.
[6] Pay roll and number of employees reported only by enterprises serving 5 or more farms.

COUNTY TABLE II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

	ITEM (For definitions and explanations, see text)	Crook	Fremont[1]	Goshen	Hot Springs	Johnson	Laramie
	FARM VALUES, 1940*						
1	Land and buildings, all farms....dollars..	6,601,609	9,831,535	11,135,121	2,144,277	7,502,608	8,929,415
2	Land and buildings, irrigated farms....dollars..	481,811	8,964,627	7,091,666	1,783,188	5,357,567	3,707,551
	Operated by—						
3	(a) Owners and managers....dollars..	422,459	7,588,232	3,931,311	1,401,895	4,516,052	3,573,951
4	(b) Tenants....dollars..	59,352	1,376,395	3,160,355	381,293	841,515	133,600
5	Average, land and buildings, per farm....dollars..	18,531.19	6,725.15	9,355.76	9,638.85	19,624.79	33,401.36
6	per acre in farms....dollars..	5.18	12.83	21.89	9.04	5.93	4.93
7	Buildings, irrigated farms reporting value....number...	26	1,312	732	184	262	109
8	Total reported....dollars..	69,155	1,934,633	1,355,917	342,558	986,780	640,385
9	Average, per irrigated farm reporting....dollars..	2,659.81	1,474.57	1,852.35	1,861.73	3,766.34	5,875.09
10	per acre on all irrigated farms....dollars..	0.74	2.77	4.19	1.74	1.09	0.85
11	Buildings, nonirrigated farms reporting value....number...	768	182	535	54	211	780
12	Total reported....dollars..	876,592	189,740	612,471	48,180	278,835	1,443,647
13	Average, per nonirrigated farm reporting....dollars..	1,141.40	1,042.53	1,144.81	892.22	1,321.49	1,850.83
14	per acre on all nonirrigated farms....dollars..	0.63	0.51	0.79	0.43	0.30	1.78
15	Implements and machinery, irrigated farms reporting value..number...	24	922	673	172	260	104
16	Total reported....dollars..	41,260	1,011,496	1,117,844	177,119	392,543	179,426
17	Average, per irrigated farm reporting....dollars..	1,719.17	1,097.07	1,660.99	1,029.76	1,509.78	1,725.25
18	per acre, on all irrigated farms....dollars..	0.44	1.45	3.45	0.90	0.43	0.24
19	Implements and machinery, nonirrigated farms reporting value....number...	735	99	498	43	203	711
20	Total reported....dollars..	548,232	78,160	448,059	21,540	134,765	670,527
21	Average, per acre, on all nonirrigated farms....dollars..	0.39	0.25	0.58	0.19	0.15	0.82
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1						
22	Enterprises....1940...number....	30	304	58	100	176	98
23	1930...number....	8	208	29	92	59	95
24	1920...number....	29	385	89	72	150	90
25	Average size of enterprise based on irrigable area....1940...acres....	86	879	1,957	284	368	364
26	1930...acres....	82	1,275	3,733	300	587	360
27	1920[7]..acres....	66	962	2,007	324	652	562
28	Diversion dams....1940...number....	33	192	46	69	202	254
29	Main canals and laterals....1940...length, miles....	25.2	1,316.0	687.2	186.1	452.7	255.4
30	1930...length, miles....	6	1,302	610	218	291	298
31	1920...length, miles....	43	1,376	431	179	626	278
32	1940...capacity, c.f.s.[8]....	68	4,396	4,775	979	1,710	544
33	1930...capacity, c.f.s.[8]....	5	4,959	2,276	529	783	566
34	1920...capacity, c.f.s.[8]....	350	4,323	1,803	431	1,724	618
35	Pipe lines[9]....1940...length, miles....	0.8	9.0	3.9	6.4	2.0	3.8
36	Storage dams....1940...number....	5	21	12	5	18	15
37	Reservoirs....1940...number....	7	29	9	7	17	15
38	1930...number....	1	11	10	7	8	24
39	1920...number....	13	31	30	9	8	28
40	1940...capacity, acre-feet..	641	207,715	26,693	2,625	34,300	5,597
41	1930...capacity, acre-feet..	40	38,668	29,600	621	7,382	8,585
42	1920...capacity, acre-feet..	56	6,314	27,728	488	3,871	3,932
43	Wells, flowing....1940...number....	2	6	.....	5	3	2
44	1930...number....	1	.....	.....	4	.....	.....
45	1920...number....	.....	1	.....	.....	.....	.....
46	1940...yield, g.p.m....	(6)	338	.....	1,808	118	(6)
47	1930...yield, g.p.m....	120	.....	.....	1,965	.....	.....
48	1920...yield, g.p.m....	.....	.....	.....	.....	.....	.....
49	Wells, pumped....1940...number....	1	1	4	6	6	43
50	1930...number....	.....	.....	.....	.....	.....	6
51	1920...number....	.....	.....	.....	.....	.....	2
52	1940...yield, g.p.m....	(6)	(6)	3,450	965	1,136	40,320
53	1930...yield, g.p.m....	.....	.....	.....	.....	.....	7,500
54	1920...yield, g.p.m....	.....	.....	.....	50	.....	735
55	Pumping plants....1940...number....	4	1	6	21	13	46
56	1930...number....	.....	.....	.....	4	2	6
57	1920...number....	3	5	.....	6	3	2
58	Prime movers....1940...capacity, hp....	42	(6)	98	683	232	1,187
59	1930...capacity, hp....	.....	.....	.....	48	30	100
60	1920...capacity, hp....	23	82	.....	58	49	20
61	Pumps....1940...capacity, g.p.m....	954	(6)	5,525	33,293	5,336	43,870
62	1930...capacity, g.p.m....	.....	.....	.....	3,240	6,500	7,800
63	1920...capacity, g.p.m....	1,391	2,480	.....	4,020	1,100	735
64	Pumping lift, from all sources....1940...average, feet....	18	(6)	17	36	28	58
65	1930...average, feet....	.....	.....	.....	8	7	26
66	1920...average, feet....	13	90	.....	26	33	12
67	from pumped wells....1940...average, feet....	(6)	(6)	19	51	52	62
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[10]						
68	Enterprises reporting pay roll....number...	.....	12	13	4	11	.....
69	Irrigated area in these enterprises....acres....	.....	84,190	89,261	5,712	17,148	.....
70	Wages and salaries paid and payable....dollars..	.....	188,228	58,890	1,815	3,784	.....
71	Persons employed during week ending April 29....number..	.....	170	77	.....	14	.....

* Census of Agriculture.
[1] Part taken to form part of Sublette in 1923.
[2] Parts taken to form Teton and part of Sublette in 1923.
[3] Part annexed to Yellowstone National Park, and part of Yellowstone National Park annexed in 1929.
[4] Organized from parts of Fremont and Lincoln in 1923.
[6] Organized from part of Lincoln in 1923.

1930, AND 1920; AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939—Continued

Lincoln[2]	Natrona	Niobrara	Park[3]	Platte	Sheridan	Sublette[4]	Sweetwater	Teton[5]	Uinta	Washakie	Weston	
6,265,657	4,833,501	4,950,260	9,330,260	7,528,015	14,439,390	5,586,036	3,231,030	2,828,677	3,890,334	4,282,432	4,238,166	1
5,688,407	2,515,997	278,959	9,010,370	5,504,867	11,455,607	5,431,076	1,954,209	2,667,445	3,831,943	4,171,702	448,040	2
5,261,857	(6)	267,599	7,049,615	4,073,797	8,869,909	5,243,676	1,708,729	2,405,100	3,593,433	2,955,650	(6)	3
426,550	(6)	11,360	1,980,755	1,431,070	2,585,698	187,400	245,480	262,345	238,510	1,215,052	(6)	4
8,452.31	22,866.64	17,434.94	10,550.78	12,370.49	18,810.52	19,259.13	10,339.73	15,877.65	10,191.34	14,845.91	23,581.05	5
13.62	3.39	3.39	13.49	5.09	15.00	10.01	7.30	28.72	8.78	25.25	3.08	6
635	111	16	842	432	602	279	183	163	368	277	19	7
1,121,938	499,350	41,400	2,299,960	898,756	2,872,471	856,455	273,595	498,525	763,498	956,195	75,800	8
1,766.83	4,498.65	2,587.50	2,731.54	2,080.45	4,771.55	3,069.73	1,195.05	3,003.16	2,074.72	3,451.97	3,989.47	9
2.69	0.67	0.50	3.44	0.83	3.76	1.58	1.02	5.37	1.75	5.79	0.62	10
126	246	503	58	311	394	29	41	30	19	24	367	11
91,525	445,963	657,331	145,645	432,645	694,950	27,475	53,895	37,590	14,675	23,930	438,523	12
726.39	1,812.86	1,306.82	2,511.12	1,391.14	1,763.83	947.41	1,314.51	1,253.00	772.37	997.08	1,194.89	13
1.09	0.42	0.51	4.22	0.97	1.25	0.81	0.05	4.97	2.07	1.65	0.42	14
601	103	16	812	417	581	255	173	161	345	273	19	15
635,636	217,243	22,424	1,257,628	452,021	983,349	335,830	179,554	231,606	302,743	677,174	28,145	16
1,057.63	2,109.16	1,401.50	1,548.80	1,083.98	1,692.51	1,316.98	1,037.88	1,438.55	877.52	2,480.49	1,481.32	17
1.52	0.29	0.27	1.88	0.42	1.29	0.62	0.67	2.49	0.69	4.10	0.23	18
88	204	491	51	294	346	12	34	28	16	22	352	19
57,806	167,473	346,057	38,290	247,768	264,911	10,425	34,130	11,835	5,670	13,965	288,261	20
0.69	0.16	0.27	1.11	0.55	0.48	0.31	0.03	1.56	0.80	0.96	0.28	21
256	110	15	160	96	230	315	108	139	218	85	18	22
201	98	6	79	143	102	287	93	140	183	94	17	23
586	61	7	202	178	203	.....	82	.....	308	70	54	24
441	277	145	830	952	438	727	695	315	700	586	306	25
487	250	130	1,518	812	764	691	556	233	632	572	397	26
492	359	204	895	738	535	.....	702	.....	723	862	232	27
288	110	5	172	123	176	291	80	138	390	59	12	28
603.6	177.6	19.0	746.9	466.2	698.5	872.6	272.1	297.3	695.2	252.7	39.0	29
523	58	9	795	316	541	1,370	255	248	719	212	36	30
1,718	156	17	849	740	712	.....	273	.....	817	224	188	31
2,784	532	32	3,699	712	2,209	4,763	532	2,109	2,792	1,164	87	32
1,374	145	9	2,974	1,091	1,306	5,277	550	757	1,928	424	63	33
5,299	238	161	2,668	1,869	2,189	.....	606	.....	2,474	559	699	34
1.2	2.5	.....	4.2	0.2	4.7	0.1	1.3	.....	0.1	3.4	0.6	35
13	15	4	10	18	33	12	28	4	11	3	6	36
10	16	3	11	23	30	12	24	4	11	2	7	37
6	34	3	6	14	13	6	11	3	6	9	3	38
14	17	4	24	24	28	.....	26	.....	9	2	16	39
1,530	1,076,167	514	518,063	91,897	40,856	74,787	37,187	866,584	45,538	(6)	3,099	40
940	1,197,533	675	463,570	203,768	45,290	32,128	23,530	847,587	2,098	1,204	1,936	41
847,718	1,081,264	457	463,641	270,895	11,252	.....	19,505	.....	2,864	60	3,724	42
2	1	.....	.....	.....	2	.....	2	.....	.....	2	1	43
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....	45
(6)	(6)	.....	.....	.....	(6)	.....	(6)	.....	.....	(6)	(6)	46
.....	.....	.....	.....	.....	.....	.....	120	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	(6)	.....	.....	.....	.....	.....	.....	48
.....	6	.....	.....	4	4	.....	5	.....	.....	.....	.....	49
.....	2	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	50
.....	.....	.....	.....	3	2	.....	.....	.....	.....	.....	.....	51
.....	6,382	.....	.....	4,710	300	.....	82	.....	.....	.....	.....	52
.....	370	.....	.....	.....	.....	.....	410	.....	.....	.....	.....	53
.....	3,000	.....	.....	1,150	.....	.....	.....	.....	.....	.....	.....	54
2	22	12	3	9	24	.....	12	.....	.....	7	1	55
.....	18	.....	.....	7	1	1	8	.....	.....	.....	1	56
.....	4	.....	.....	8	4	.....	3	.....	.....	1	1	57
(6)	287	296	8	177	288	.....	80	.....	.....	83	(6)	58
.....	132	.....	.....	34	22	2	32	.....	.....	.....	16	59
.....	166	.....	.....	72	373	.....	44	.....	.....	26	16	60
(6)	19,220	17,790	520	13,910	14,720	.....	3,222	.....	.....	5,850	(6)	61
.....	10,880	.....	.....	3,646	435	500	3,334	.....	.....	.....	1,100	62
.....	8,850	.....	.....	5,120	4,900	.....	1,505	.....	.....	1,200	1,100	63
(6)	15	14	30	18	19	.....	41	.....	.....	23	(6)	64
.....	26	.....	.....	22	8	5	21	.....	.....	.....	12	65
.....	19	.....	.....	21	42	.....	39	.....	.....	58	10	66
.....	12	.....	.....	25	26	.....	.....	.....	.....	.....	.....	67
11	1	.....	10	3	45	6	4	2	15	5	.....	68
25,029	(6)	.....	70,963	51,635	54,934	8,290	12,289	(6)	34,735	30,125	.....	69
4,235	(6)	.....	27,693	14,408	16,543	910	6,384	(6)	2,165	14,041	.....	70
20	.....	.....	50	19	82	6	14	.....	10	15	.....	71

[6] Data are included only in State totals because less than 3 farms or less than 3 enterprises reported in the 1940 Census.
[7] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.
[8] Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.
[9] Includes siphons and farm pipe lines reported.
[10] Pay roll and number of employees reported only by enterprises serving 5 or more farms.