

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		TOTAL (19 States) ¹	Red River (of the North) and tributaries in North Dakota (I)	MISSOURI RIVER (II)	
				Total ²	Direct (II)
IRRIGATED UNITS AND AREAS					
1	Irrigated units ³.....1939...number.....	430,022	61	47,386	835
2	Area irrigated.....1939...acres.....	21,003,739	4,493	4,410,385	76,298
3	(a) Cropland harvested.....1939...acres.....	18,300,138	4,468	3,922,984	71,226
4	(b) Crop failure.....1939...acres.....	259,188	.....	67,790	550
5	(c) Pasture.....1939...acres.....	2,444,413	35	419,611	4,522
6	Area irrigated.....1929...acres.....	19,547,544	2,099	4,185,180	24,367
7	1919...acres.....	19,191,716	.....	4,147,278	27,707
8	Increase or decrease (-), 1929-1939.....percent.....	7.4	114.1	5.4	213.1
9	Irrigable area in enterprises.....1940...acres.....	31,305,949	8,100	6,542,576	166,802
10	1930...acres.....	30,599,470	2,409	6,231,873	42,388
11	1920 ⁵ ...acres.....	35,890,821	.....	8,483,171	92,270
12	Excess of irrigable area over the area irrigated.....1940...acres.....	10,302,210	3,607	2,132,191	90,504
13	1930...acres.....	11,051,926	310	2,046,693	18,021
14	1920 ⁵ ...acres.....	16,699,105	.....	4,335,893	64,563
15	Area works were capable of supplying with water...1940...acres.....	28,055,248	7,980	5,942,958	120,485
16	1930...acres.....	26,101,890	2,099	5,472,012	40,149
17	1920...acres.....	26,020,477	.....	5,805,630	62,559
18	Increase or decrease (-), 1930-1940.....percent.....	7.5	280.2	8.6	200.1
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	7,051,608	3,487	1,532,573	44,187
20	1930...acres.....	6,554,346	.....	1,266,832	15,782
21	1920...acres.....	6,828,761	.....	1,658,352	34,852
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	74.9	56.3	74.2	63.3
23	1929...percent....	74.9	100.0	76.5	60.7
24	1919...percent....	73.8	.....	71.4	44.3
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940...dollars....	1,052,049,201	130,566	179,750,238	3,069,111
26	(a) Cost of irrigation works and equipment.....1940...dollars....	1,025,672,714	130,225	176,408,046	3,053,632
27	(b) Investment in water rights (reported).....1940...dollars....	26,376,487	341	3,342,192	15,479
28	Total investment in irrigation enterprises.....1930...dollars....	792,755,790	20,925	136,506,721	1,535,899
29	1920...dollars....	697,657,328	.....	131,553,106	2,300,975
30	Increase or decrease (-), 1930-1940.....percent.....	17.8	524.0	31.7	99.8
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	37.50	16.36	30.25	25.47
32	1930...dollars....	34.20	9.97	24.95	38.25
33	1920...dollars....	26.81	.....	22.66	36.78
34	Average investment per acre irrigated.....1939...dollars....	50.09	29.06	40.76	40.23
35	Estimated final investment in existing enterprises...1940...dollars....	1,126,545,687	142,566	196,094,323	3,927,530
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	35.99	17.60	29.97	23.55
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					
		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	72,172	10,102	13	1,369
38	Area irrigated in these enterprises.....1939...acres.....	20,193,761	2,983,963	4,493	4,293,280
39	Cost of maintenance and operation.....1939...dollars....	43,172,526	2,828,094	5,912	3,466,125
40	Average cost, per acre irrigated.....1939...dollars....	2.14	0.95	1.32	0.81
41	Total annual charges (reported) ⁶ 10.....1939...dollars....	32,876,404	1,408,263	3,235	3,186,350
42	Average annual charge per acre irrigated.....1939...dollars....	2.40	0.59	0.83	1.10
43	Area against which charges were assessed.....1939...acres.....	16,570,704	2,592,476	7,249	3,224,334
44	Average annual charge per acre assessed.....1939...dollars....	1.98	0.54	0.45	0.99
45	Total charges collected ⁹.....1939...dollars....	27,552,300	1,148,062	3,479	2,594,720
46	Indebtedness to December 31 (reported) ¹⁰.....1939...dollars....	360,304,925	26,335,349	29,500	76,335,251
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939...number....	72,638	10,092	12	1,329
48	Area irrigated by these enterprises.....1939...acres.....	19,377,064	2,986,061	4,480	4,031,049
49	Water delivered.....1939...acre-feet.....	52,982,775	4,208,532	6,528	7,547,370
50	Average water delivered per acre irrigated.....1939...acre-feet....	2.7	1.4	1.5	1.9
51	Average cost of water per acre irrigated.....1939...dollars....	2.60	1.10	1.23	1.03
52	Average cost of water per acre-foot delivered.....1939...dollars....	0.95	0.78	0.85	0.55
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939...number....	3,535	.....	466	23
54	Irrigable area in these enterprises.....1939...acres.....	9,553,069	.....	1,989,332	15,865
55	Irrigated area in these enterprises.....1939...acres.....	6,224,568	.....	1,266,478	6,449
56	Area for which drains have been installed.....1939...acres.....	3,861,305	.....	431,045	7,331
57	Additional area needing drainage.....1939...acres.....	997,912	.....	108,165	1,449

⁶Schedules called for "Number of farms," see explanation in text.¹For the 17 western States and Arkansas and Louisiana.²Data for 2 enterprises in Osage River Drainage Basin, Kans., are included with Missouri River total.³Data for the intrastate tributaries of the Clarks Fork are not shown separately but are included in the Clarks Fork total.⁴Data for the intrastate tributaries of the Big Horn River are not shown separately but are included in the Big Horn River total.⁵For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939
and Arkansas and Louisiana]

MISSOURI RIVER (II)—Continued									
Yellowstone River (II-A)									
Total	Direct (II-A)	Clarks Fork		Big Horn River					
		Total ³	Direct (6)	Total ⁴	Direct ⁵ (8)	Shoshone River (17)	Little Horn River (18)		
11,794	3,198	933	458	5,785	1,243	1,714	160	1	
884,530	240,996	88,469	43,589	448,698	104,560	113,849	16,016	2	
884,184	225,079	80,206	39,878	383,161	95,409	96,116	14,475	3	
7,447	1,657	502	68	3,822	366	80	20	4	
112,899	14,280	7,761	3,623	61,915	8,785	17,653	1,521	5	
861,145	132,312	92,968	90,650	381,326	88,698	95,636	1,637	6	
889,025	189,453	77,736	72,525	358,949	93,902	95,091	1,408	7	
14.3	48.5	-4.8	-51.9	24.0	17.9	19.0	878.4	8	
1,515,241	347,513	113,256	52,940	777,811	194,951	161,701	36,765	9	
1,401,212	242,693	113,320	110,625	710,522	143,464	163,768	2,705	10	
1,826,870	279,211	141,007	130,736	842,297	162,331	217,998	11,353	11	
530,711	106,517	24,787	9,351	328,913	90,391	47,852	20,749	12	
540,067	80,381	20,352	19,975	348,596	54,766	68,132	1,068	13	
937,845	89,758	63,271	58,211	483,348	66,429	122,907	9,945	14	
1,360,217	330,391	110,785	50,793	661,210	183,835	142,671	32,793	15	
1,210,890	236,401	111,583	106,888	552,748	129,765	142,902	2,705	16	
1,322,304	262,801	130,627	121,818	534,404	123,151	134,431	4,340	17	
12.4	39.8	-0.7	-53.4	19.6	41.7	-0.2	(⁶)	18	
375,687	89,395	22,316	7,204	212,312	79,275	28,822	16,777	19	
349,545	74,089	18,615	18,238	190,822	41,067	47,266	1,068	20	
433,279	73,348	52,891	49,293	175,455	29,249	39,340	2,932	21	
72.4	72.9	79.9	85.8	67.9	56.9	79.8	48.8	22	
71.1	68.7	83.3	83.2	65.5	68.4	66.9	60.5	23	
67.2	72.1	59.5	59.5	67.2	76.2	70.7	32.4	24	
40,787,196	11,765,745	1,927,897	705,142	22,303,032	3,524,149	6,745,092	934,665	25	
40,435,096	11,677,433	1,910,346	699,011	22,226,639	3,519,632	6,738,082	928,896	26	
272,100	88,312	17,551	6,131	76,393	4,517	7,010	5,769	27	
31,917,310	7,070,112	928,437	920,562	19,775,462	3,042,063	9,285,642	39,590	28	
30,181,550	7,506,390	1,225,483	1,163,593	16,670,257	3,635,033	8,702,480	35,000	29	
27.7	66.4	107.6	-23.4	12.8	15.8	-27.4	(⁶)	30	
29.97	35.61	17.40	13.88	33.73	19.17	47.28	28.50	31	
26.36	29.91	8.32	8.45	35.78	23.44	64.98	14.64	32	
22.82	28.57	9.38	9.55	31.19	29.52	64.74	8.06	33	
41.41	48.82	21.79	16.18	49.68	33.70	59.25	58.36	34	
47,583,418	13,080,931	1,935,907	713,152	28,729,135	4,286,040	7,236,892	1,252,617	35	
31.40	34.76	17.09	13.47	36.94	21.99	44.75	34.07	36	
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
1,957	40	395	5	250	6	100	2	674	12
960,060	71,719	235,388	2,919	86,694	15,377	43,437	(⁶)	443,950	10,530
813,436	24,314	222,643	1,571	45,016	2,339	27,486	(⁶)	466,923	14,368
0.85	0.34	0.95	0.54	0.52	0.15	0.63	(⁶)	1.05	1.36
803,787	56,569	264,198	2,860	36,070	31,000	26,241	.....	456,839	15,693
1.12	0.83	1.41	1.10	0.57	2.07	0.74	.....	1.27	1.54
818,552	84,233	205,023	2,600	64,892	31,000	35,948	.....	434,944	10,235
0.98	0.67	1.29	1.10	0.56	1.00	0.73	.....	1.05	1.53
598,360	40,993	275,453	2,850	35,004	14,973	20,002	.....	247,751	15,476
19,398,986	2,281,998	5,703,572	41,584	26,347	700,000	17,510	.....	13,085,367	890,414
1,920	36	366	4	234	6	89	2	662	11
869,275	54,349	224,060	319	69,367	15,377	32,725	(⁶)	387,928	10,530
1,954,675	51,167	503,340	244	147,217	16,310	85,294	(⁶)	1,019,069	6,860
2.3	0.9	2.2	0.8	2.1	1.1	2.6	(⁶)	2.6	3.7
1.00	0.85	1.25	0.85	0.63	2.03	0.80	(⁶)	1.15	1.53
0.44	1.01	0.56	1.11	0.30	1.91	0.31	(⁶)	0.44	2.35
144	.....	35	.....	9	.....	4	.....	62	.....
820,839	.....	190,532	.....	16,971	.....	11,971	.....	568,259	.....
496,781	.....	148,157	.....	12,841	.....	8,441	.....	301,928	.....
230,894	.....	69,821	.....	240	.....	80	.....	159,288	.....
53,452	.....	15,681	.....	1,040	.....	550	.....	33,008	.....
178,337	.....	130,861	.....	18,774	.....	178,337	.....	130,861	.....
91,627	.....	89,953	.....	8,222	.....	91,627	.....	89,953	.....
49,074	.....	71,235	.....	384	.....	49,074	.....	71,235	.....
8,074	.....	14,403	.....	1,481	.....	8,074	.....	14,403	.....

⁶ Percent not shown when more than 1,000.

⁷ Revised.

⁸ Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

⁹ 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.

¹⁰ Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

¹¹ Data for less than 3 enterprises shown with permission of the enterprise involved.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER (II)—Continued			
	Yellowstone River (II-A)—Continued			
	Tongue River		Powder River	
	Total ⁴	Direct (20)	Total ⁵	Direct (22)
IRRIGATED UNITS AND AREAS				
1 Irrigated units ¹.....1939..number.....	922	533	372	66
2 Area irrigated.....1939..acres.....	82,491	45,036	56,711	7,280
3 (a) Cropland harvested.....1939..acres.....	73,536	39,800	46,376	6,791
4 (b) Crop failure.....1939..acres.....	67	67	1,361	50
5 (c) Pasture.....1939..acres.....	8,888	5,169	9,074	439
6 Area irrigated.....1929..acres.....	65,498	22,217	50,279	5,847
7 .....1919..acres.....	54,195	20,975	89,631	3,193
8 Increase or decrease (-), 1929-1939.....percent.....	25.9	102.7	12.8	24.5
9 Irrigable area in enterprises.....1940..acres.....	97,291	59,023	84,071	9,699
10 .....1930..acres.....	76,521	29,138	59,516	6,375
11 .....1920 ⁷ ..acres.....	100,563	43,075	138,856	10,846
12 Excess of irrigable area over the area irrigated.....1940..acres.....	14,800	13,987	27,360	2,419
13 .....1930..acres.....	11,023	6,921	9,237	528
14 .....1920 ⁷ ..acres.....	46,368	22,100	49,225	7,653
15 Area works were capable of supplying with water...1940..acres.....	92,849	54,632	79,168	9,349
16 .....1930..acres.....	73,950	29,031	56,411	5,920
17 .....1920..acres.....	80,693	32,174	117,181	9,803
18 Increase or decrease (-), 1930-1940.....percent.....	25.6	88.2	40.3	57.9
19 Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	10,358	9,596	22,457	2,069
20 .....1930..acres.....	8,452	6,814	6,132	73
21 .....1920..acres.....	26,496	11,199	27,550	6,610
22 Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	88.8	82.4	71.6	77.9
23 .....1929..percent.....	88.6	76.5	89.1	98.8
24 .....1919..percent.....	67.2	65.2	76.5	32.6
CAPITAL INVESTED TO JANUARY 1				
25 Total investment in irrigation enterprises.....1940..dollars....	2,883,111	2,231,511	963,947	89,557
26 (a) Cost of irrigation works and equipment.....1940..dollars....	2,818,053	2,171,757	950,055	88,220
27 (b) Investment in water rights (reported).....1940..dollars....	65,058	59,754	13,892	1,337
28 Total investment in irrigation enterprises.....1930..dollars....	1,207,250	569,793	823,698	167,200
29 .....1920..dollars....	1,419,622	734,059	1,195,398	187,502
30 Increase or decrease (-), 1930-1940.....percent.....	138.8	291.6	17.0	-46.4
31 Average investment based on area works were capable of supplying with water, per acre.....1940..dollars....	31.05	40.85	12.18	9.58
32 .....1930..dollars....	16.33	19.63	14.60	28.24
33 .....1920..dollars....	17.59	22.82	10.20	19.13
34 Average investment per acre irrigated.....1939..dollars....	34.95	49.55	17.00	12.30
35 Estimated final investment in existing enterprises.....1940..dollars....	2,919,756	2,268,141	970,082	93,142
36 Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars....	30.01	38.43	11.54	9.60
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				
37 Enterprises reporting maintenance and operation.....1939..number.....	Primary	Sup.	Primary	Sup.
	Enterprises	Enterprises	Enterprises	Enterprises
38 Area irrigated in these enterprises.....1939..acres.....	198	9	137	2
39 Cost of maintenance and operation.....1939..dollars....	79,649	27,562	42,907	(⁸)
40 Average cost, per acre irrigated.....1939..dollars....	39,963	4,107	15,617	(⁸)
41 Total annual charges (reported) ⁹ 10.....1939..dollars....	0.43	0.15	0.36	(⁸)
42 Average annual charge per acre irrigated.....1939..dollars....	31,050	5,160	15,192	3,890
43 Area against which charges were assessed.....1939..acres.....	0.49	0.20	0.52	0.23
44 Average annual charge per acre assessed.....1939..dollars....	67,230	25,898	33,264	17,000
45 Total charges collected ⁹.....1939..dollars....	0.46	0.20	0.46	0.23
46 Indebtedness to December 31 (reported) ¹⁰.....1939..dollars....	29,420	4,674	14,865	2,444
	119,412	660,000	119,112	660,000
WATER DELIVERED TO IRRIGATORS, 1939				
47 Enterprises reporting water delivered.....1939..number.....	219	7	158	1
48 Area irrigated by these enterprises.....1939..acres.....	73,881	12,962	42,051	(⁸)
49 Water delivered.....1939..acre-feet.....	116,737	15,796	71,177	(⁸)
50 Average water delivered per acre irrigated.....1939..acre-feet.....	1.6	1.2	1.7	(⁸)
51 Average cost of water per acre irrigated.....1939..dollars....	0.55	0.15	0.56	(⁸)
52 Average cost of water per acre-foot delivered.....1939..dollars....	0.35	0.12	0.33	(⁸)
DRAINAGE OF IRRIGATED LAND				
53 Enterprises reporting land drained or needing drainage.....1939..number.....	10	4	9	2
54 Irrigable area in these enterprises.....1939..acres.....	19,915	13,343	13,859	(⁸)
55 Irrigated area in these enterprises.....1939..acres.....	18,638	12,093	5,985	(⁸)
56 Area for which drains have been installed.....1939..acres.....	442	45	580	(⁸)
57 Additional area needing drainage.....1939..acres.....	412	312	598	(⁸)

¹ Schedules called for "Number of farms," see explanation in text.

² Data for the intrastate tributaries of the Little Missouri River are not shown separately but are included in the Little Missouri River total.

³ Data for Belle Fourche (North Fork) in South Dakota for 1920 are included with Cheyenne River direct.

⁴ Data for the intrastate tributaries of the White River are not shown separately but are included in the White River total.

⁵ Data for the intrastate tributaries of the Tongue River are not shown separately but are included in the Tongue River total.

⁶ Data for the intrastate tributaries of the Powder River are not shown separately but are included in the Powder River total.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

MISSOURI RIVER (II)—Continued												
Yellowstone River (II-A)—Continued	Little Missouri River		Cheyenne River								White River	
Intrastate tributaries in Montana	Total ¹	Direct	Total	Direct ²	Belle Fourche River			S. Fork Cheyenne River		Intrastate tributary in South Dakota (Cherry Creek) (47)	Total ³	Direct
		(31)		(40)	Total ²	Direct	Redwater Creek (42)	Total ⁴	Direct			(49)
584	24	18	1,162	5	883	761	122	269	96	5	117	94
66,965	789	721	62,842	350	43,953	39,762	4,191	18,514	8,930	25	13,480	12,551
55,926	749	691	51,999	127	38,487	34,756	3,731	13,360	6,959	25	12,451	11,526
38	.....	.....	2,524	205	401	193	208	1,918	443	.....	795	791
11,001	40	40	8,319	18	5,065	4,813	252	3,236	1,528	.....	234	234
128,162	1,462	.....	71,550	.....	51,799	.....	.....	19,740	17,724	.....	8,682	.....
119,061	1,080	.....	110,143	99,333	1,966	.....	.....	8,844	5,906	.....	8,008	.....
-47.7	-46.0	.....	-12.2	.....	-15.1	.....	.....	-6.2	-49.6	.....	55.3	.....
95,299	3,251	2,327	130,837	1,072	87,511	81,116	6,395	42,107	19,003	147	21,586	20,410
198,640	2,127	.....	132,003	.....	97,816	.....	.....	33,986	30,645	.....	13,795	.....
324,936	7,398	.....	197,288	176,715	5,054	.....	.....	15,519	11,764	.....	21,922	.....
28,334	2,462	1,606	67,995	722	43,558	41,354	2,204	23,593	10,073	122	8,106	7,859
70,478	665	.....	80,453	.....	46,017	.....	.....	14,246	12,921	.....	5,113	.....
205,875	6,318	.....	87,145	77,382	3,088	.....	.....	6,675	5,858	.....	13,914	.....
85,814	2,711	1,842	128,036	806	86,525	80,378	6,147	40,564	17,557	141	16,973	15,880
179,597	1,962	.....	115,980	.....	90,991	.....	.....	24,888	21,707	.....	13,110	.....
196,598	4,863	.....	159,083	143,847	3,621	.....	.....	11,615	7,910	.....	16,939	.....
-52.2	38.2	.....	10.4	.....	-4.9	.....	.....	63.0	-19.1	.....	29.5	.....
18,849	1,922	1,121	65,194	456	42,572	40,616	1,956	22,050	8,627	116	3,493	3,329
51,435	500	.....	44,430	.....	39,192	.....	.....	5,148	3,983	.....	4,428	.....
77,537	3,783	.....	48,940	44,514	1,655	.....	.....	2,771	2,004	.....	8,931	.....
78.0	29.1	39.1	49.1	43.4	50.8	49.5	68.2	45.6	50.9	17.7	79.4	79.0
71.4	74.5	.....	61.7	.....	56.9	.....	.....	79.3	81.7	.....	66.2	.....
60.6	22.2	.....	69.2	69.1	54.3	.....	.....	76.1	74.7	.....	47.3	.....
923,464	36,806	18,708	5,227,045	1,550	4,858,998	4,757,613	101,185	364,382	179,899	2,115	555,414	527,901
912,570	36,677	18,579	5,211,534	1,550	4,852,744	4,757,094	95,650	355,125	174,882	2,115	545,939	518,426
10,894	129	129	15,511	.....	6,254	712	5,535	9,257	5,017	.....	9,475	9,475
2,112,351	28,656	.....	4,539,915	.....	4,276,534	.....	.....	257,131	230,356	.....	478,392	.....
2,162,393	71,608	.....	5,605,911	5,277,782	76,066	.....	.....	252,063	166,820	.....	183,349	.....
-56.3	28.4	.....	15.1	.....	13.6	.....	.....	41.7	-21.9	.....	16.1	.....
10.76	13.58	10.16	40.82	1.92	56.16	59.19	16.46	8.98	10.25	15.00	32.72	33.24
11.76	14.61	.....	39.14	.....	47.00	.....	.....	10.33	10.61	.....	36.49	.....
11.00	14.73	.....	35.24	36.69	21.01	.....	.....	21.70	21.09	.....	10.82	.....
13.79	46.65	25.95	83.18	4.43	110.55	119.66	24.14	19.68	20.15	84.60	41.20	42.06
947,607	45,806	24,683	5,261,910	3,200	4,867,163	4,765,428	101,735	389,017	203,164	2,530	664,614	636,551
9.94	14.05	10.61	40.22	2.99	55.62	58.75	15.91	9.24	10.69	17.21	30.79	31.19
Primary	Sup.											
Enterprises												
264	(⁸) 1	17	14	190	5	62	31	113	66	10	45	41
60,903	(⁸)	546	529	59,174	350	43,266	39,548	3,718	15,533	6,752	12,887	12,471
19,982	(⁸)	638	513	68,364	755	54,977	53,200	1,777	12,473	8,384	20,477	19,982
0.33	(⁸)	1.17	0.97	1.16	2.16	1.27	1.35	0.48	0.80	1.24	1.59	1.60
5,694	.....	.....	131,242	.....	124,125	122,908	1,217	7,117	550	.....	16,824	16,784
0.25	.....	.....	2.69	.....	3.05	3.16	0.71	0.68	1.49	.....	1.58	1.59
23,864	.....	.....	72,756	.....	59,643	57,924	1,719	13,113	370	.....	10,660	10,575
0.24	.....	.....	1.80	.....	2.08	2.12	0.71	0.54	1.49	.....	1.58	1.59
2,174	.....	.....	83,883	.....	77,002	76,285	717	6,881	450	.....	15,613	15,613
462,286	.....	.....	4,577,395	.....	4,577,395	4,577,395	.....	.....	.....	.....	173,628	151,000
240	.....	17	13	186	5	51	31	125	57	5	42	37
47,652	.....	689	651	55,955	350	42,105	39,388	2,717	13,475	6,132	12,679	12,439
90,323	.....	648	590	61,447	384	41,643	36,442	5,201	19,384	8,054	8,117	7,891
1.9	.....	0.9	1.1	1.1	1.0	1.0	0.9	1.4	1.3	1.4	0.6	0.6
0.38	.....	1.07	0.96	2.52	2.16	2.99	3.16	0.58	0.89	1.08	5.20	1.65
0.20	.....	1.14	1.06	2.29	1.97	3.02	3.41	0.30	0.62	0.83	3.61	2.58
19	.....	4	2	6	.....	(⁸) 2	(⁸) 2	.....	3	(⁸) 1	3	(⁸) 1
11,243	.....	215	(⁸)	74,747	.....	(⁸)	(⁸)	.....	2,190	(⁸)	12,020	(⁸)
9,232	.....	66	(⁸)	36,247	.....	(⁸)	(⁸)	.....	1,980	(⁸)	9,586	(⁸)
523	.....	59	(⁸)	25,850	.....	(⁸)	(⁸)	.....	300	(⁸)	43	(⁸)
2,713	.....	36	.....	5,983	.....	(⁸)	(⁸)	.....	730	(⁸)	5	.....

*Data for the intrastate tributaries of the South Fork Cheyenne River are not shown separately but are included in the South Fork Cheyenne River total.

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

Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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.

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

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index number is shown in parentheses for each drainage basin)		MISSOURI RIVER (II) — Continued			
		Niobrara River ¹	James River	Platte River (II-B)	
				Total	Direct
	(51)	(54)		(II-B)	
IRRIGATED UNITS AND AREAS					
1	Irrigated units ².....1939...number.....	89	10	26,579	2,784
2	Area irrigated.....1939...acres.....	10,359	336	2,360,615	128,586
3	(a) Cropland harvested.....1939...acres.....	9,318	336	2,119,398	125,403
4	(b) Crop failure.....1939...acres.....	310	.....	51,895	2,217
5	(c) Pasture.....1939...acres.....	731	.....	189,322	966
6	Area irrigated.....1929...acres.....	3,831	.....	2,315,297	71,290
7	1919...acres.....	6,138	.....	2,136,402	37,532
8	Increase or decrease (-), 1929-1939.....percent.....	170.4	.....	2.0	80.4
9	Irrigable area in enterprises.....1940...acres.....	14,551	370	3,339,995	458,091
10	1930...acres.....	4,766	.....	3,081,680	179,011
11	1920 ³ ...acres.....	28,956	.....	3,431,037	151,377
12	Excess of irrigable area over the area irrigated.....1940...acres.....	4,192	34	979,380	329,505
13	1930...acres.....	935	.....	766,383	107,721
14	1920 ³ ...acres.....	22,818	.....	1,294,635	113,845
15	Area works were capable of supplying with water.....1940...acres.....	13,222	352	3,061,356	376,465
16	1930...acres.....	4,563	.....	2,813,195	140,456
17	1920...acres.....	10,265	.....	2,579,720	68,732
18	Increase or decrease (-), 1930-1940.....percent.....	189.8	.....	8.8	168.0
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	2,863	16	700,741	247,879
20	1930...acres.....	732	.....	497,898	69,166
21	1920...acres.....	4,127	.....	443,318	31,200
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent.....	78.3	95.5	77.1	34.2
23	1929...percent.....	84.0	.....	82.3	50.8
24	1919...percent.....	59.8	.....	82.8	54.6
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940...dollars.....	139,055	10,190	95,210,869	14,001,510
26	(a) Cost of irrigation works and equipment.....1940...dollars.....	137,735	10,190	92,445,664	13,795,794
27	(b) Investment in water rights (reported).....1940...dollars.....	1,320	.....	2,765,205	205,716
28	Total investment in irrigation enterprises.....1930...dollars.....	26,879	.....	69,493,120	989,656
29	1920...dollars.....	360,439	.....	62,893,983	488,642
30	Increase or decrease (-), 1930-1940.....percent.....	417.3	.....	37.0	(⁴)
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars.....	10.52	28.95	31.10	37.19
32	1930...dollars.....	5.89	.....	24.70	7.05
33	1920...dollars.....	35.11	.....	24.38	7.11
34	Average investment per acre irrigated.....1939...dollars.....	13.42	30.33	40.33	108.89
35	Estimated final investment in existing enterprises.....1940...dollars.....	144,330	10,770	99,285,391	16,662,253
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars.....	9.92	29.11	29.73	36.37
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					
				Primary	Supplemental
				Enterprises	
37	Enterprises reporting maintenance and operation.....1939...number.....	77	8	4,381	1,302
38	Area irrigated in these enterprises.....1939...acres.....	10,218	274	2,304,103	586,429
39	Cost of maintenance and operation.....1939...dollars.....	8,540	1,162	1,863,717	475,109
40	Average cost, per acre irrigated.....1939...dollars.....	0.84	4.24	0.81	0.81
41	Total annual charges (reported) ⁵.....1939...dollars.....	.....	.....	1,769,060	245,105
42	Average annual charge per acre irrigated.....1939...dollars.....	.....	.....	1.05	0.51
43	Area against which charges were assessed.....1939...acres.....	.....	.....	1,798,015	480,844
44	Average annual charge per acre assessed.....1939...dollars.....	.....	.....	0.98	0.51
45	Total charges collected ⁶.....1939...dollars.....	.....	.....	1,649,339	128,489
46	Indebtedness to December 31 (reported) ⁷.....1939...dollars.....	.....	.....	28,505,928	1,760,178
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939...number.....	79	9	4,179	1,270
48	Area irrigated by these enterprises.....1939...acres.....	8,799	286	2,208,815	582,240
49	Water delivered.....1939...acre-feet.....	16,607	352	3,823,863	428,522
50	Average water delivered per acre irrigated.....1939...acre-feet.....	1.9	1.2	1.7	0.7
51	Average cost of water per acre irrigated.....1939...dollars.....	0.92	4.27	1.08	0.81
52	Average cost of water per acre-foot delivered.....1939...dollars.....	0.49	3.47	0.63	1.23
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939...number.....	4	3	175	19
54	Irrigable area in these enterprises.....1939...acres.....	806	108	746,729	7,742
55	Irrigated area in these enterprises.....1939...acres.....	704	74	550,335	3,043
56	Area for which drains have been installed.....1939...acres.....	181	90	110,018	3,192
57	Additional area needing drainage.....1939...acres.....	83	18	25,050	49

¹Schedules called for "Number of farms," see explanation in text.²Data for 1 enterprise in Keya Paha River Basin are included with Niobrara River.³Data for the intrastate tributaries of the Laramie River are not shown separately but are included in the Laramie River total.⁴For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

MISSOURI RIVER (II)—Continued									
Platte River (II-B)—Continued									
North Platte River (II-Ba)					South Platte River (II-Bb)				
Total	Direct (II-Ba)	Laramie River		Intrastate tributaries in Wyoming	Intrastate tributary in Nebraska (Blue Creek) (22)	Total	Direct (II-Bb)		
		Total ²	Direct (15)						
7,693	6,044	854	615	884	111	15,309	6,108		1
1,041,146	878,431	168,374	95,493	186,101	8,240	1,162,685	557,441		2
872,920	584,228	138,681	84,584	142,191	7,810	1,093,547	524,363		3
13,037	7,931	2,674	1,902	2,252	180	36,381	18,485		4
156,189	86,272	27,009	8,947	41,658	250	32,757	14,593		5
951,359	441,263	180,064	108,585	182,420	.....	1,267,604	470,892		6
872,140	351,050	156,159	78,560	196,200	.....	1,224,974	362,191		7
9.4	53.7	-11.4	-12.8	-3.3	.....	-8.3	18.4		8
1,447,453	808,946	330,105	231,362	295,281	13,121	1,354,911	659,542		9
1,312,827	549,764	328,057	228,757	251,557	.....	1,555,134	540,615		10
1,603,305	579,728	373,353	177,879	401,296	.....	1,671,199	519,535		11
406,307	130,515	161,731	135,869	109,180	4,881	192,226	102,101		12
361,468	108,501	137,963	119,172	59,137	.....	287,530	69,723		13
731,165	228,678	217,194	99,419	205,096	.....	446,225	157,344		14
1,300,503	785,749	288,153	193,648	214,854	11,747	1,314,272	649,009		15
1,188,645	529,278	268,426	179,372	238,487	.....	1,441,367	504,642		16
1,172,858	429,252	298,153	129,116	259,274	.....	1,335,109	398,310		17
8.5	48.5	7.3	8.0	-9.9	.....	-8.8	28.6		18
259,357	107,318	119,779	98,155	28,753	3,507	151,587	91,568		19
247,286	89,015	78,332	69,787	46,067	.....	173,763	33,750		20
300,718	78,202	141,994	50,556	63,074	.....	110,135	36,119		21
80.1	86.3	58.4	49.3	86.6	70.1	88.5	85.9		22
79.4	83.4	70.8	61.1	80.7	.....	87.9	93.3		23
74.4	81.8	52.4	60.8	75.7	.....	91.8	90.9		24
36,063,805	26,903,346	4,515,097	3,146,107	4,539,230	106,132	42,244,548	24,481,175		25
35,727,769	26,769,827	4,488,283	3,127,095	4,364,077	105,582	40,023,052	22,664,285		26
336,036	133,519	26,814	9,012	175,153	550	2,221,496	1,816,890		27
31,010,953	23,310,257	4,268,150	3,454,911	2,567,690	.....	36,899,152	17,685,220		28
25,702,212	17,624,060	4,386,686	974,841	2,676,082	.....	36,676,829	9,199,612		29
16.3	15.4	5.8	-8.9	76.8	.....	14.5	38.4		30
27.73	34.24	15.67	16.25	21.13	9.03	32.14	37.72		31
25.87	44.04	15.90	19.26	10.77	.....	25.60	35.05		32
21.91	41.06	14.71	7.55	10.32	.....	27.47	23.10		33
34.64	39.66	26.82	32.95	24.39	12.88	36.33	43.92		34
37,198,273	27,021,799	5,296,822	3,886,682	4,765,385	114,267	42,460,189	24,525,796		35
25.70	33.40	16.05	16.84	16.14	8.71	31.34	37.19		36
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises		Enterprises		Enterprises		Enterprises		Enterprises	
1,261	180	626	174	267	2	105	4	26	
1,002,601	132,790	659,017	127,787	162,509	(⁶)	94,055	(⁶)	173,405	1,263
649,303	99,934	509,511	98,958	69,962	(⁶)	52,594	(⁶)	63,872	652
0.65	0.75	0.77	0.77	0.43	(⁶)	0.56	(⁶)	0.37	0.52
669,296	81,188	582,586	80,836	45,333	.....	43,655	.....	36,996	352
1.16	0.70	1.31	0.70	0.59	.....	0.64	.....	0.73	0.36
647,129	116,123	497,871	115,023	92,812	.....	84,432	.....	58,591	1,100
1.03	0.70	1.19	0.70	0.49	.....	0.52	.....	0.63	0.32
552,041	1,235	477,746	883	40,057	.....	38,435	.....	22,979	352
14,804,347	1,270,559	14,588,980	1,270,559	99,490	.....	99,490	.....	112,877	.....
1,179	166	601	161	271	(⁶)	113	(⁶)	291	4
942,654	129,016	625,487	127,713	167,094	(⁶)	95,449	(⁶)	145,685	1,263
1,941,335	68,888	1,400,396	68,327	223,319	(⁶)	140,223	(⁶)	207,862	543
2.0	0.5	2.2	0.5	1.3	(⁶)	1.5	(⁶)	1.4	0.4
0.87	0.78	1.07	0.79	0.42	(⁶)	0.55	(⁶)	0.49	0.52
0.44	1.47	0.48	1.47	0.32	(⁶)	0.38	(⁶)	0.35	1.20
64	.....	27	.....	29	.....	6	.....	7	.....
573,585	.....	362,722	.....	170,077	.....	153,959	.....	38,700	(⁶)
416,524	.....	323,828	.....	71,347	.....	56,225	.....	19,495	(⁶)
80,441	.....	60,000	.....	18,341	.....	2,455	.....	2,100	(⁶)
19,853	.....	12,559	.....	7,242	.....	7,240	.....	40	(⁶)
86	.....	.....	.....	.....	.....	.....	.....	.....	1
138,058	.....	.....	.....	.....	.....	.....	.....	.....	(⁶)
80,931	.....	.....	.....	.....	.....	.....	.....	.....	(⁶)
25,986	.....	.....	.....	.....	.....	.....	.....	.....	(⁶)
5,060	.....	.....	.....	.....	.....	.....	.....	.....	(⁶)
20	.....	.....	.....	.....	.....	.....	.....	.....	.....
94,816	.....	.....	.....	.....	.....	.....	.....	.....	.....
80,931	.....	.....	.....	.....	.....	.....	.....	.....	.....
9,396	.....	.....	.....	.....	.....	.....	.....	.....	.....
3,391	.....	.....	.....	.....	.....	.....	.....	.....	.....

⁴Percent not shown when more than 1,000.

⁵Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

⁶Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

⁷Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		MISSOURI RIVER (II)—Continued					
		Platte River (II-B)—Continued					
		South Platte River (II-Bb)—Continued					
		Cache la Poudre River		Crow Creek		Lodgepole Creek	
		(8)		(9)		(13)	
IRRIGATED UNITS AND AREAS							
1	Irrigated units ^a.....1939...number.....	2,371		42		216	
2	Area irrigated.....1939...acres.....	225,531		7,571		19,017	
3	(a) Cropland harvested.....1939...acres.....	214,943		6,743		17,062	
4	(b) Crop failure.....1939...acres.....	8,617		593		1,306	
5	(c) Pasture.....1939...acres.....	1,961		235		649	
6	Area irrigated.....1929...acres.....	297,401		5,947		13,425	
7	1919...acres.....	272,125		4,525		20,004	
8	Increase or decrease (-), 1929-1939.....percent.....	-24.2		27.3		41.7	
9	Irrigable area in enterprises.....1940...acres.....	255,647		8,437		26,953	
10	1930...acres.....	389,975		8,366		18,018	
11	1920 ^b ...acres.....	416,208		13,040		33,823	
12	Excess of irrigable area over the area irrigated..1940...acres.....	30,126		866		7,938	
13	1930...acres.....	92,574		2,419		4,593	
14	1920 ^b ...acres.....	144,083		8,515		13,819	
15	Area works were capable of supplying with water...1940...acres.....	239,910		8,073		29,023	
16	1930...acres.....	336,971		7,903		17,211	
17	1920...acres.....	289,634		7,117		25,646	
18	Increase or decrease (-), 1930-1940.....percent.....	-28.8		2.2		51.2	
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	14,369		502		7,006	
20	1930...acres.....	39,570		1,956		3,786	
21	1920...acres.....	17,509		2,592		5,642	
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent.....	94.0		93.8		73.1	
23	1929...percent.....	88.3		75.2		78.0	
24	1919...percent.....	94.0		63.6		78.0	
CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises.....1940...dollars.....	10,151,853		262,174		469,482	
26	(a) Cost of irrigation works and equipment.....1940...dollars.....	10,123,026		248,827		466,522	
27	(b) Investment in water rights (reported).....1940...dollars.....	28,827		13,347		2,860	
28	Total investment in irrigation enterprises.....1930...dollars.....	9,642,017		166,821		337,680	
29	1920...dollars.....	10,713,682		100,519		445,738	
30	Increase or decrease (-), 1930-1940.....percent.....	5.3		57.2		39.0	
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars.....	42.32		32.48		18.04	
32	1930...dollars.....	28.61		21.11		19.62	
33	1920...dollars.....	36.99		14.14		17.38	
34	Average investment per acre irrigated.....1939...dollars.....	45.02		34.53		24.69	
35	Estimated final investment in existing enterprises..1940...dollars.....	10,203,283		294,474		497,452	
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars.....	39.91		31.35		18.46	
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
		Primary		Supplemental		Primary	
		Enterprises		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number.....	287		258		151	
38	Area irrigated in these enterprises.....1939...acres.....	222,719		159,095		18,445	
39	Cost of maintenance and operation.....1939...dollars.....	144,015		126,719		32,814	
40	Average cost, per acre irrigated.....1939...dollars.....	0.65		0.80		1.78	
41	Total annual charges (reported) ^c.....1939...dollars.....	250,802		90,649		8,998	
42	Average annual charge per acre irrigated.....1939...dollars.....	1.22		0.68		2.00	
43	Area against which charges were assessed.....1939...acres.....	206,674		134,180		4,499	
44	Average annual charge per acre assessed.....1939...dollars.....	1.21		0.68		2.00	
45	Total charges collected ^d.....1939...dollars.....	185,695		80,129		9,000	
46	Indebtedness to December 31 (reported) ^e.....1939...dollars.....	1,048,227		408,369		82,000	
WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered.....1939...number.....	292		251		143	
48	Area irrigated by these enterprises.....1939...acres.....	221,138		159,294		18,442	
49	Water delivered.....1939...acre-feet.....	279,916		112,327		22,270	
50	Average water delivered per acre irrigated.....1939...acre-feet.....	1.3		0.7		1.2	
51	Average cost of water per acre irrigated.....1939...dollars.....	1.35		1.03		2.08	
52	Average cost of water per acre-foot delivered..1939...dollars.....	1.07		1.47		1.72	
DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage.....1939...number.....	41		1			
54	Irrigable area in these enterprises.....1939...acres.....	17,009		(⁴)			
55	Irrigated area in these enterprises.....1939...acres.....	15,883		(⁴)			
56	Area for which drains have been installed.....1939...acres.....	14,557		(⁴)			
57	Additional area needing drainage.....1939...acres.....	174		(⁴)			

^a Schedules called for "Number of farms," see explanation in text.^b Data for the intrastate tributaries of the Smoky Hill River are not shown separately but are included in the Smoky Hill River total.^c Percent not shown when more than 1,000.^d For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

19

1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued

and Arkansas and Louisiana]

MISSOURI RIVER (II)—Continued													
Platte River (II-B)—Continued				Kansas River (II-C)									
South Platte River (II-Bb)—Con.		Intrastate tributaries in Nebraska	Total	Direct	Republican River				Smoky Hill River			Big Blue River	
Intrastate tributaries in Colorado	Total				Direct	Arikaree River	Frenchman Creek	Total ¹	Direct	White Woman Creek			
											(II-C)		(1)	(2)	(3)	(4)	(7)	(8)
6,572	793	792	43	517	233	92	192	108	40	44	124	1	
353,135	28,198	46,204	703	31,592	9,905	6,891	14,895	9,423	1,211	7,273	4,386	2	
330,436	27,528	43,692	603	30,067	9,497	5,787	14,783	8,727	1,056	6,968	4,295	3	
7,380	260	1,005	14	576	275	259	42	407	150	237	8	4	
15,319	410	1,507	86	1,049	134	845	70	289	5	68	83	5	
478,903	25,044	26,139	.....	23,387	.....	.....	.....	141	.....	.....	.....	6	
565,129	1,756	34,672	.....	34,360	.....	.....	.....	278	.....	.....	19	7	
-26.3	12.6	76.8	.....	35.5	.....	.....	.....	(²)	.....	.....	.....	8	
404,332	79,540	95,137	1,372	42,183	15,692	10,235	15,256	14,542	2,458	10,581	7,040	9	
596,488	34,708	35,913	.....	32,872	.....	.....	.....	391	.....	.....	.....	10	
688,593	5,155	53,644	.....	52,080	.....	.....	.....	1,450	.....	.....	44	11	
51,197	51,342	18,933	669	10,491	5,786	3,344	1,361	5,119	1,247	3,308	2,554	12	
117,585	9,694	10,774	.....	9,485	.....	.....	.....	250	.....	.....	.....	13	
122,464	3,400	18,972	.....	17,720	.....	.....	.....	1,172	.....	.....	25	14	
391,257	70,115	61,942	1,252	40,345	14,532	9,765	16,048	13,902	2,123	10,421	6,433	15	
573,056	32,727	32,823	.....	29,086	.....	.....	.....	325	.....	.....	.....	16	
614,402	3,021	44,402	.....	43,022	.....	.....	.....	1,265	.....	.....	44	17	
-31.7	114.2	88.7	.....	38.7	.....	.....	.....	(²)	.....	.....	.....	18	
38,122	41,918	15,738	559	8,553	4,626	2,874	1,153	4,479	912	3,148	2,047	19	
94,155	7,683	6,684	.....	5,699	.....	.....	.....	185	.....	.....	.....	20	
48,273	1,285	9,730	.....	8,662	.....	.....	.....	988	.....	.....	25	21	
90.3	40.2	74.6	55.7	78.6	68.2	70.6	92.8	57.8	57.0	69.8	68.2	22	
83.6	76.5	79.6	.....	80.4	.....	.....	.....	43.3	.....	.....	.....	23	
92.1	58.1	78.1	.....	79.9	.....	.....	.....	22.0	.....	.....	43.2	24	
6,879,864	2,901,006	1,083,626	33,556	715,564	308,932	103,925	303,707	161,088	39,266	100,893	172,318	25	
5,520,292	2,899,049	1,061,595	32,746	696,439	304,032	90,020	302,387	151,003	39,224	100,885	171,397	26	
359,572	1,957	22,041	910	20,125	4,900	13,905	1,320	85	44	8	921	27	
9,035,919	593,359	595,747	.....	490,429	.....	.....	.....	12,490	.....	.....	.....	28	
16,217,178	25,300	537,605	.....	500,285	.....	.....	.....	34,953	.....	.....	1,525	29	
-23.9	388.9	81.6	.....	45.1	.....	.....	.....	(²)	.....	.....	.....	30	
17.58	41.37	17.49	26.67	17.76	21.26	10.64	18.92	11.59	18.50	9.68	25.79	31	
15.77	18.13	18.18	.....	16.86	.....	.....	.....	38.22	.....	.....	.....	32	
26.40	8.71	12.11	.....	11.63	.....	.....	.....	27.51	.....	.....	36.93	33	
19.48	102.88	23.45	47.87	22.61	31.19	15.08	20.39	17.10	32.43	13.87	39.29	34	
6,969,184	2,964,676	1,122,220	41,906	733,864	323,427	106,230	304,207	171,173	43,458	104,803	175,277	35	
17.24	37.27	17.23	30.54	17.40	20.51	10.38	18.71	11.77	17.58	9.90	24.90	36	
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises	
485	167	225	2	500	3	39	257	194	3	30	33	95	35
348,222	52,898	28,077	(⁴)	44,858	12	637	30,963	9,411	12	6,561	14,891	9,059	1,027
236,000	50,538	72,550	(⁴)	101,079	71	2,934	50,712	26,662	71	4,451	19,599	24,924	3,224
0.68	0.96	2.58	(⁴)	2.25	5.92	4.61	1.64	2.83	5.92	0.67	1.32	2.75	3.14
209,719	22,306	46,773		18,275			18,275	4,700		1,989	11,586		
0.66	0.45	2.33		1.01			1.01	1.53		0.50	1.05		
326,398	49,023	20,099		18,060			18,060	3,057		3,969	11,024		
0.64	0.46	2.33		1.01			1.01	1.53		0.50	1.05		
236,997	24,114	47,091		20,023			20,023	5,100		3,570	11,353		
765,323	80,000	2,125,041		13,700			13,700			13,700			
475	174	198	2	489	1	40	249	188	1	31	30	96	37
342,083	52,000	27,438	(⁴)	43,772	(⁴)	624	29,601	9,848	(⁴)	5,906	13,848	9,293	1,111
434,683	46,567	55,940	(⁴)	86,473	(⁴)	672	66,317	19,615	(⁴)	10,613	36,089	14,183	1,555
1.3	0.9	2.0	(⁴)	2.0	(⁴)	1.1	2.2	2.0	(⁴)	1.8	2.6	1.5	1.4
0.83	1.18	2.65	(⁴)	2.31	(⁴)	4.70	1.69	2.80	(⁴)	0.74	1.33	2.75	3.18
0.66	1.32	1.31	(⁴)	1.17	(⁴)	4.36	0.75	1.41	(⁴)	0.41	0.51	1.80	2.28
24		6		32		4	14	12		1	1	4	2
25,633		27,344		1,242		140	648	328		(⁴)	(⁴)	230	(⁴)
21,533		12,021		860		70	404	164		(⁴)	(⁴)	188	(⁴)
2,033		399		588		62	235	192		(⁴)	(⁴)	65	(⁴)
1,455		88		270		78	182	102		(⁴)	(⁴)	10	(⁴)
24		6		32		4	14	12		1	1	4	2
25,633		27,344		1,242		140	648	328		(⁴)	(⁴)	230	(⁴)
21,533		12,021		860		70	404	164		(⁴)	(⁴)	188	(⁴)
2,033		399		588		62	235	192		(⁴)	(⁴)	65	(⁴)
1,455		88		270		78	182	102		(⁴)	(⁴)	10	(⁴)

⁴Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

⁵Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons.

⁶Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE

[For the 17 western States]

ITEM ^a (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		MISSOURI RIVER (II)—Continued			MISSISSIPPI RIVER (III) (Exclusive of the Missouri River)	
		Intrastate tributaries in Montana	Intrastate tributaries in North Dakota	Intrastate tributaries in South Dakota	Total	Direct
						(III)
IRRIGATED UNITS AND AREAS						
1	Irrigated units ^b.....1939...number.....	5,796	38	148	14,206	156
2	Area irrigated.....1939...acres.....	853,261	344	1,290	927,594	9,548
3	(a) Cropland harvested.....1939...acres.....	748,059	276	1,259	848,045	9,227
4	(b) Crop failure.....1939...acres.....	3,221	12	31	31,022	254
5	(c) Pasture.....1939...acres.....	101,981	56	.....	48,527	67
6	Area irrigated.....1929...acres.....	871,405	.....	1,067	902,590	8,972
7	1919...acres.....	933,394	.....	709	958,493	17,416
8	Increase or decrease (-), 1929-1939.....percent.....	-2.1	.....	20.9	2.8	6.4
9	Irrigable area in enterprises.....1940...acres.....	1,281,056	1,206	2,442	1,458,502	15,528
10	1930...acres.....	1,515,131	.....	1,509	1,280,730	17,342
11	1920 ² ...acres.....	2,816,852	.....	6,934	1,543,064	24,070
12	Excess of irrigable area over the area irrigated.....1940...acres.....	427,795	862	1,152	530,908	5,980
13	1930...acres.....	643,726	.....	442	378,170	8,370
14	1920 ² ...acres.....	1,883,458	.....	6,225	584,571	6,654
15	Area works were capable of supplying with water.....1940...acres.....	1,174,965	810	1,837	1,350,911	14,202
16	1930...acres.....	1,238,055	.....	1,214	1,170,583	11,668
17	1920...acres.....	1,601,901	.....	3,594	1,152,261	23,755
18	Increase or decrease (-), 1930-1940.....percent.....	-5.1	.....	51.3	15.4	21.7
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	321,704	466	547	423,317	4,654
20	1930...acres.....	366,650	.....	147	268,023	2,696
21	1920...acres.....	668,507	.....	2,885	193,768	6,339
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	72.6	42.5	70.2	68.7	67.2
23	1929...percent....	70.4	.....	87.9	77.1	76.9
24	1919...percent....	58.3	.....	19.7	83.2	73.3
CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940...dollars....	33,418,918	18,551	212,707	37,101,932	156,931
26	(a) Cost of irrigation works and equipment.....1940...dollars....	33,178,141	18,445	212,658	36,159,140	156,931
27	(b) Investment in water rights (reported).....1940...dollars....	240,777	106	49	942,792	.....
28	Total investment in irrigation enterprises.....1930...dollars....	27,858,818	.....	25,135	31,831,573	284,998
29	1920...dollars....	29,289,550	.....	128,136	35,183,789	302,385
30	Increase or decrease (-), 1930-1940.....percent.....	20.0	.....	746.3	16.6	-44.9
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	28.44	22.90	115.79	27.46	11.05
32	1930...dollars....	22.50	.....	20.70	27.19	24.43
33	1920...dollars....	18.28	.....	35.55	30.54	12.73
34	Average investment per acre irrigated.....1939...dollars....	39.17	53.93	164.89	40.00	16.44
35	Estimated final investment in existing enterprises.....1940...dollars....	37,807,167	22,336	218,081	37,496,140	156,981
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	29.51	18.52	89.30	25.71	10.11
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary	Supplemental			
		Enterprises		Enterprises		
37	Enterprises reporting maintenance and operation.....1939...number....	1,839	22	33	4,227	215
38	Area irrigated in these enterprises.....1939...acres.....	826,518	117,725	324	897,343	33,415
39	Cost of maintenance and operation.....1939...dollars....	485,537	11,079	1,641	1,763,296	52,748
40	Average cost, per acre irrigated.....1939...dollars....	0.59	0.09	5.06	1.97	1.58
41	Total annual charges (reported) ^{3 4}.....1939...dollars....	427,889	29,745	284	738,670	10,980
42	Average annual charge per acre irrigated.....1939...dollars....	1.10	0.32	0.79	1.48	1.79
43	Area against which charges were assessed.....1939...acres.....	477,513	93,654	359	568,001	6,142
44	Average annual charge per acre assessed.....1939...dollars....	0.90	0.32	0.79	1.30	1.79
45	Total charges collected ⁵.....1939...dollars....	222,147	32,853	.....	898,535	1,275
46	Indebtedness to December 31 (reported) ⁴.....1939...dollars....	22,075,841	673,268	.....	7,667,224	.....
WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939...number....	1,849	20	34	4,206	204
48	Area irrigated by these enterprises.....1939...acres.....	766,534	90,308	344	886,841	35,062
49	Water delivered.....1939...acre-feet.....	1,432,711	119,947	930	1,716,209	45,572
50	Average water delivered per acre irrigated.....1939...acre-feet....	1.9	1.3	2.7	1.9	1.3
51	Average cost of water per acre irrigated.....1939...dollars....	0.74	0.32	5.06	2.31	2.08
52	Average cost of water per acre-foot delivered.....1939...dollars....	0.39	0.24	1.87	1.19	1.57
DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939...number....	65	4	3	221	13
54	Irrigable area in these enterprises.....1939...acres.....	316,598	60	103	164,985	2,733
55	Irrigated area in these enterprises.....1939...acres.....	185,291	16	69	116,659	2,230
56	Area for which drains have been installed.....1939...acres.....	55,950	16	25	50,820	2,194
57	Additional area needing drainage.....1939...acres.....	21,764	44	11	6,772	505

^a Schedules called for "Number of farms," see explanation in text.¹ Data for the intrastate tributaries of the Canadian River are not shown separately but are included in the Canadian River total.² For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		MISSISSIPPI RIVER (III)—Continued (Exclusive of the Missouri River)				
		Red River (III-B)				Intrastate tributaries in Arkansas
		Total	Direct	Washita River	Black River (Ouachita River and Bartholomew Bayou)	
		(III-B)	(1)	(5)+(10)		
IRRIGATED UNITS AND AREAS						
1	Irrigated units ^a.....1939..number.....	1,504	1,484	17	3	977
2	Area irrigated.....1939..acres.....	129,714	129,132	268	314	108,413
3	(a) Cropland harvested.....1939..acres.....	124,028	123,499	215	314	105,998
4	(b) Crop failure.....1939..acres.....	1,099	1,099	.....	.....	123
5	(c) Pasture.....1939..acres.....	4,587	4,534	53	.....	2,292
6	Area irrigated.....1929..acres.....	39,398	.....	.....	.....	.....
7	1919..acres.....	7,191	.....	.....	.....	.....
8	Increase or decrease (-), 1929-1939.....percent.....	229.2	.....	.....	.....	.....
9	Irrigable area in enterprises.....1940..acres.....	216,190	215,107	766	317	196,187
10	1930..acres.....	55,734	.....	.....	.....	.....
11	1920 ^a ..acres.....	23,446	.....	.....	.....	.....
12	Excess of irrigable area over the area irrigated.....1940..acres.....	86,476	85,975	498	3	87,774
13	1930..acres.....	16,336	.....	.....	.....	.....
14	1920 ^a ..acres.....	16,255	.....	.....	.....	.....
15	Area works were capable of supplying with water...1940..acres.....	213,683	212,862	504	317	189,714
16	1930..acres.....	55,586	.....	.....	.....	.....
17	1920..acres.....	13,483	.....	.....	.....	.....
18	Increase or decrease (-), 1930-1940.....percent.....	284.4	.....	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	83,969	83,730	236	3	81,301
20	1930..acres.....	16,188	.....	.....	.....	.....
21	1920..acres.....	6,292	.....	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	60.7	60.7	53.2	99.1	57.1
23	1929..percent.....	70.9	.....	.....	.....	.....
24	1919..percent.....	53.3	.....	.....	.....	.....
CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940..dollars....	6,646,969	6,612,924	30,932	3,113	3,606,705
26	(a) Cost of irrigation works and equipment.....1940..dollars....	6,642,033	6,608,888	30,032	3,113	3,606,705
27	(b) Investment in water rights (reported).....1940..dollars....	4,936	4,036	900	.....	.....
28	Total investment in irrigation enterprises.....1930..dollars....	5,208,934	.....	.....	.....	.....
29	1920..dollars....	399,634	.....	.....	.....	.....
30	Increase or decrease (-), 1930-1940.....percent.....	27.6	.....	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars....	31.11	31.07	61.37	9.82	* 19.01
32	1930..dollars....	93.71	.....	.....	.....	.....
33	1920..dollars....	29.64	.....	.....	.....	.....
34	Average investment per acre irrigated.....1939..dollars....	51.24	51.21	115.42	9.91	33.27
35	Estimated final investment in existing enterprises..1940..dollars....	6,671,191	6,635,571	32,507	3,113	3,629,690
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars....	30.86	30.85	42.44	9.82	18.50
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
						Primary Supplemental
						Enterprises
37	Enterprises reporting maintenance and operation...1939..number.....	682	665	14	3	834
38	Area irrigated in these enterprises.....1939..acres.....	119,672	119,091	267	314	102,049
39	Cost of maintenance and operation.....1939..dollars....	307,429	305,335	1,344	750	549,227
40	Average cost, per acre irrigated.....1939..dollars....	2.57	2.56	5.03	2.39	5.35
41	Total annual charges (reported) ^a %.....1939..dollars....	59,882	59,882	.....	.....	13,535
42	Average annual charge per acre irrigated.....1939..dollars....	2.08	2.08	.....	.....	5.24
43	Area against which charges were assessed.....1939..acres.....	28,833	28,833	.....	.....	2,582
44	Average annual charge per acre assessed.....1939..dollars....	2.06	2.08	.....	.....	5.24
45	Total charges collected ^a.....1939..dollars....	250,490	250,490	.....	.....	2,175
46	Indebtedness to December 31 (reported) ^a %.....1939..dollars....	3,547,717	3,547,717	.....	.....	.....
WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939..number.....	737	720	15	2	845
48	Area irrigated by these enterprises.....1939..acres.....	127,464	127,092	268	(5)	107,790
49	Water delivered.....1939..acre-feet.....	145,707	145,161	419	(5)	296,777
50	Average water delivered per acre irrigated.....1939..acre-feet.....	1.1	1.1	1.6	(5)	2.8
51	Average cost of water per acre irrigated.....1939..dollars....	2.57	2.56	5.03	(5)	5.38
52	Average cost of water per acre-foot delivered..1939..dollars....	2.25	2.24	3.22	(5)	1.95
DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939..number.....	15	9	5	1	54
54	Irrigable area in these enterprises.....1939..acres.....	1,587	1,172	205	(5)	13,004
55	Irrigated area in these enterprises.....1939..acres.....	587	338	39	(5)	7,497
56	Area for which drains have been installed.....1939..acres.....	1,274	972	92	(5)	8,228
57	Additional area needing drainage.....1939..acres.....	270	200	70	.....	1,264

* Schedules called for "Number of farms," see explanation in text.

¹ Data for the intrastate tributaries of the Colorado River are not shown separately but are included in the Colorado River total.² Data for the intrastate tributaries of the Brazos River are not shown separately but are included in the Brazos River total.³ Data for the intrastate tributaries of the Sabine River are not shown separately but are included in the Sabine River total.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		RIO GRANDE (V)			
		Total (V)	Direct (V-A) + (V-B)	Upper Rio Grande (V-A)	
				Total	
IRRIGATED UNITS AND AREAS					
1	Irrigated units.....1939...number....	54,887	38,669	27,570	
2	Area irrigated.....1939...acres.....	1,521,578	930,310	903,631	
3	(a) Cropland harvested.....1939...acres.....	1,322,174	827,945	759,121	
4	(b) Crop failure.....1939...acres.....	38,950	12,473	27,586	
5	(c) Pasture.....1939...acres.....	160,454	89,892	116,924	
6	Area irrigated.....1929...acres.....	1,564,725	951,740	898,277	
7	1919...acres.....	1,312,855	684,718	878,122	
8	Increase or decrease (-), 1929-1939.....percent....	-2.8	-2.3	0.6	
9	Irrigable area in enterprises.....1940...acres.....	2,378,063	1,490,687	1,286,675	
10	1930...acres.....	2,177,664	1,198,512	1,216,526	
11	1920 ² ...acres.....	2,628,153	1,386,144	1,519,045	
12	Excess of irrigable area over the area irrigated..1940...acres.....	856,485	560,377	383,047	
13	1930...acres.....	612,939	246,772	318,249	
14	1920 ² ...acres.....	1,315,296	701,426	640,923	
15	Area works were capable of supplying with water...1940...acres.....	2,177,705	1,393,695	1,180,567	
16	1930...acres.....	1,914,781	1,113,177	1,080,646	
17	1920...acres.....	1,914,285	1,099,365	1,072,125	
18	Increase or decrease (-), 1930-1940.....percent....	13.7	25.2	9.2	
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	656,127	463,385	276,936	
20	1930...acres.....	350,056	161,437	182,369	
21	1920...acres.....	601,430	414,647	194,003	
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	69.9	66.8	76.5	
23	1929...percent....	81.7	85.5	83.1	
24	1919...percent....	68.6	62.3	81.9	
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940...dollars....	80,563,998	59,477,527	30,123,362	
26	(a) Cost of irrigation works and equipment.....1940...dollars....	78,900,146	58,541,031	28,912,436	
27	(b) Investment in water rights (reported).....1940...dollars....	1,663,852	936,496	1,210,926	
28	Total investment in irrigation enterprises.....1930...dollars....	53,748,608	37,325,421	18,081,167	
29	1920...dollars....	34,824,111	21,340,536	10,634,888	
30	Increase or decrease (-), 1930-1940.....percent....	49.9	59.3	66.6	
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	36.99	42.68	25.52	
32	1930...dollars....	28.07	33.53	16.73	
33	1920...dollars....	18.19	19.41	9.92	
34	Average investment per acre irrigated.....1939...dollars....	52.95	63.93	33.34	
35	Estimated final investment in existing enterprises..1940...dollars....	83,966,088	61,343,041	32,449,137	
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	35.31	41.15	25.22	
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					
		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	2,508	247	895	192
38	Area irrigated in these enterprises.....1939...acres.....	1,441,916	199,098	915,829	132,290
39	Cost of maintenance and operation.....1939...dollars....	2,676,138	115,190	2,063,240	92,679
40	Average cost, per acre irrigated.....1939...dollars....	1.86	0.58	2.26	0.70
41	Total annual charges (reported) ⁴.....1939...dollars....	2,971,774	238,315	2,542,033	29,087
42	Average annual charge per acre irrigated.....1939...dollars....	2.50	1.53	3.01	0.25
43	Area against which charges were assessed.....1939...acres.....	1,780,422	266,865	1,243,994	117,781
44	Average annual charge per acre assessed.....1939...dollars....	1.67	0.89	2.04	0.25
45	Total charges collected ⁴.....1939...dollars....	2,968,852	62,440	2,753,493	32,621
46	Indebtedness to December 31 (reported) ⁵.....1939...dollars....	45,245,240	1,449,874	39,378,779	268,150
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939...number....	2,524	272	914	215
48	Area irrigated by these enterprises.....1939...acres.....	1,412,046	150,959	895,810	131,584
49	Water delivered.....1939...acre-feet....	3,034,957	79,624	1,929,971	64,550
50	Average water delivered per acre irrigated.....1939...acre-feet....	2.1	0.5	2.2	0.5
51	Average cost of water per acre irrigated.....1939...dollars....	2.48	0.65	3.00	0.65
52	Average cost of water per acre-foot delivered..1939...dollars....	1.16	1.24	1.39	1.32
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939...number....	183		41	45
54	Irrigable area in these enterprises.....1939...acres.....	1,121,694		871,515	398,819
55	Irrigated area in these enterprises.....1939...acres.....	639,928		629,668	248,931
56	Area for which drains have been installed.....1939...acres.....	721,017		682,118	248,218
57	Additional area needing drainage.....1939...acres.....	86,260		48,702	18,444

^a Schedules called for "Number of farms," see explanation in text.¹ Includes San Antonio River Drainage Basin in New Mexico.² For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919: CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		RIO GRANDE (V)—Continued					
		Lower Rio Grande (V-B)					
		Total		Direct (V-B)		Pecos River	
						Total	
IRRIGATED UNITS AND AREAS							
1	Irrigated units.....1939..number.....	27,317		23,312		4,005	
2	Area irrigated.....1939..acres.....	617,947		400,405		217,542	
3	(a) Cropland harvested.....1939..acres.....	563,053		365,730		197,323	
4	(b) Crop failure.....1939..acres.....	11,364		4,333		7,031	
5	(c) Pasture.....1939..acres.....	43,530		30,342		13,188	
6	Area irrigated.....1929..acres.....	666,448		459,557		175,798	
7	1919..acres.....	434,733		254,186		176,458	
8	Increase or decrease (-), 1929-1939.....percent.....	-7.3		-12.9		23.7	
9	Irrigable area in enterprises.....1940..acres.....	1,091,388		741,491		349,897	
10	1930..acres.....	961,138		620,665		287,164	
11	1920 ² ..acres.....	1,109,108		705,270		397,443	
12	Excess of irrigable area over the area irrigated..1940..acres.....	473,441		341,086		132,355	
13	1930..acres.....	294,690		161,108		111,366	
14	1920 ² ..acres.....	674,375		451,084		220,985	
15	Area works were capable of supplying with water...1940..acres.....	997,138		682,704		314,434	
16	1930..acres.....	834,135		574,817		223,642	
17	1920.....acres.....	842,160		555,761		281,150	
18	Increase or decrease (-), 1930-1940.....percent.....	19.5		18.8		40.6	
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	379,191		282,299		96,892	
20	1930..acres.....	167,687		115,260		47,844	
21	1920.....acres.....	407,427		301,575		104,692	
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	62.0		58.6		69.2	
23	1929.....percent.....	79.9		79.9		78.6	
24	1919.....percent.....	51.6		45.7		62.8	
CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises.....1940..dollars....	50,440,636		37,584,986		12,855,650	
26	(a) Cost of irrigation works and equipment.....1940..dollars....	49,987,710		37,192,994		12,794,716	
27	(b) Investment in water rights (reported).....1940..dollars....	452,926		391,992		60,934	
28	Total investment in irrigation enterprises.....1930..dollars....	35,667,441		27,068,049		7,220,317	
29	1920.....dollars....	24,189,223		16,208,058		7,483,049	
30	Increase or decrease (-), 1930-1940.....percent.....	41.4		38.9		78.0	
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars....	50.59		55.05		40.89	
32	1930.....dollars....	42.76		47.09		32.29	
33	1920.....dollars....	28.72		29.16		26.62	
34	Average investment per acre irrigated.....1939..dollars....	81.63		93.87		59.10	
35	Estimated final investment in existing enterprises..1940..dollars....	51,516,951		38,299,562		13,217,389	
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars....	47.20		51.65		37.78	
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
		Primary	Supplemental	Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939..number.....	1,277	43	417	9	860	34
38	Area irrigated in these enterprises.....1939..acres.....	599,918	46,410	394,878	13,527	205,040	32,883
39	Cost of maintenance and operation.....1939..dollars....	1,927,594	36,545	1,509,929	15,737	417,665	20,808
40	Average cost, per acre irrigated.....1939.....dollars....	3.21	0.79	3.82	1.16	2.04	0.63
41	Total annual charges (reported) ⁴.....1939..dollars....	2,006,402	218,010	1,791,813	13,927	214,589	204,083
42	Average annual charge per acre irrigated.....1939..dollars....	4.22	5.29	4.85	1.10	2.02	7.16
43	Area against which charges were assessed.....1939..acres.....	871,756	151,150	646,862	12,681	224,894	138,469
44	Average annual charge per acre assessed.....1939..dollars....	2.30	1.44	2.77	1.10	0.95	1.47
45	Total charges collected ⁴.....1939..dollars....	1,902,224	45,215	1,806,742	20,746	95,482	24,469
46	Indebtedness to December 31 (reported) ⁵.....1939..dollars....	30,213,629	1,131,624	26,047,451	.....	4,166,178	1,131,624
WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered.....1939..number.....	1,251	46	401	12	850	34
48	Area irrigated by these enterprises.....1939..acres.....	591,491	18,048	383,866	13,659	207,625	4,389
49	Water delivered.....1939..acre-feet..	1,364,424	19,689	714,024	12,641	650,400	7,048
50	Average water delivered per acre irrigated.....1939..acre-feet..	2.3	1.1	1.9	0.9	3.1	1.6
51	Average cost of water per acre irrigated.....1939.....dollars....	4.05	1.32	4.90	1.16	2.41	1.80
52	Average cost of water per acre-foot delivered.....1939.....dollars....	1.75	1.21	2.63	1.26	0.77	1.12
DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage.....1939..number.....	138	.....	23	.....	115	.....
54	Irrigable area in these enterprises.....1939..acres.....	722,875	.....	548,108	.....	174,767	.....
55	Irrigated area in these enterprises.....1939..acres.....	390,897	.....	307,145	.....	83,852	.....
56	Area for which drains have been installed.....1939..acres.....	472,799	.....	438,577	.....	34,222	.....
57	Additional area needing drainage.....1939..acres.....	67,816	.....	31,357	.....	36,459	.....

⁴ Schedules called for "Number of farms," see explanation in text.⁵ Data for the intrastate tributaries of the Dolores River are not shown separately but are included in the Dolores River total.⁶ For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER (VI)—Continued			
		Upper Colorado River (VI-A)—Continued			
		Green River (VI-Aa)			
		Total	Direct (VI-Aa)	Henry's Fork (12)	Yampa River Total ²
IRRIGATED UNITS AND AREAS					
1	Irrigated units ¹.....1939..number.....	8,348	335	119	782
2	Area irrigated.....1939..acres.....	636,977	59,737	20,877	77,908
3	(a) Cropland harvested.....1939..acres.....	463,490	43,675	13,343	67,743
4	(b) Crop failure.....1939..acres.....	14,302	1,303	429	733
5	(c) Pasture.....1939..acres.....	159,185	14,759	7,105	9,432
6	Area irrigated.....1929..acres.....	610,659	27,699	15,894	86,472
7	1919..acres.....	586,387	22,826	8,296	81,661
8	Increase or decrease (-), 1929-1939.....percent.....	4.3	115.7	31.4	-9.9
9	Irrigable area in enterprises.....1940..acres.....	930,100	102,850	31,754	111,572
10	1930..acres.....	926,619	43,288	26,598	130,000
11	1920 ³ ..acres.....	1,148,821	36,121	25,940	142,636
12	Excess of irrigable area over the area irrigated.....1940..acres.....	293,123	43,113	10,877	33,664
13	1930..acres.....	315,960	15,589	10,714	43,528
14	1920 ³ ..acres.....	562,434	13,295	17,642	60,975
15	Area works were capable of supplying with water.....1940..acres.....	782,571	73,311	27,802	96,344
16	1930..acres.....	792,677	31,943	18,677	115,989
17	1920..acres.....	855,264	31,072	23,694	102,861
18	Increase or decrease (-), 1930-1940.....percent.....	-1.3	129.5	48.9	-16.9
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	145,594	13,574	6,925	18,436
20	1930..acres.....	182,018	4,244	2,793	29,517
21	1920..acres.....	268,877	8,246	15,396	21,200
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	81.4	81.5	75.1	80.9
23	1929..percent.....	77.0	86.7	85.0	74.6
24	1919..percent.....	68.6	73.5	35.0	79.4
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940..dollars.....	12,160,991	1,294,994	207,686	947,853
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	11,905,889	1,247,200	203,730	906,123
27	(b) Investment in water rights (reported).....1940..dollars.....	255,102	47,794	3,956	41,730
28	Total investment in irrigation enterprises.....1930..dollars.....	8,820,435	630,488	111,750	973,607
29	1920..dollars.....	8,592,346	547,166	77,320	1,197,975
30	Increase or decrease (-), 1930-1940.....percent.....	37.9	105.4	85.8	-2.6
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	15.54	17.66	7.47	9.84
32	1930..dollars.....	11.13	19.74	5.98	8.39
33	1920..dollars.....	10.05	17.61	3.26	11.65
34	Average investment per acre irrigated.....1939..dollars.....	19.09	21.68	9.95	12.17
35	Estimated final investment in existing enterprises.....1940..dollars.....	13,511,087	1,369,854	217,809	1,212,458
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	14.53	13.32	6.86	10.87
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939..number.....	1,407	35	173	63
38	Area irrigated in these enterprises.....1939..acres.....	616,600	75,265	54,162	13,982
39	Cost of maintenance and operation.....1939..dollars.....	324,586	8,977	27,724	6,518
40	Average cost, per acre irrigated.....1939..dollars.....	0.53	0.12	0.51	0.28
41	Total annual charges (reported) ⁴.....1939..dollars.....	209,180	30,628	6,917	2,747
42	Average annual charge per acre irrigated.....1939..dollars.....	0.64	0.43	0.65	0.58
43	Area against which charges were assessed.....1939..acres.....	389,618	103,885	12,550	8,793
44	Average annual charge per acre assessed.....1939..dollars.....	0.54	0.29	0.55	0.31
45	Total charges collected ⁵.....1939..dollars.....	212,823	30,233	5,044	25,603
46	Indebtedness to December 31 (reported) ⁶.....1939..dollars.....	938,003	1,652,321	.....	20,000
WATER DELIVERED TO IRRIGATORS, 1939		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
47	Enterprises reporting water delivered.....1939..number.....	1,480	35	178	64
48	Area irrigated by these enterprises.....1939..acres.....	608,656	55,296	56,429	17,777
49	Water delivered.....1939..acre-feet.....	1,544,353	68,067	143,002	43,427
50	Average water delivered per acre irrigated.....1939..acre-feet.....	2.5	1.2	2.5	2.4
51	Average cost of water per acre irrigated.....1939..dollars.....	0.55	0.47	0.49	0.19
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.22	0.38	0.19	0.08
DRAINAGE OF IRRIGATED LAND		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
53	Enterprises reporting land drained or needing drainage.....1939..number.....	28	.....	1	.....
54	Irrigable area in these enterprises.....1939..acres.....	158,409	.....	.....	.....
55	Irrigated area in these enterprises.....1939..acres.....	65,229	.....	.....	.....
56	Area for which drains have been installed.....1939..acres.....	3,090	.....	.....	.....
57	Additional area needing drainage.....1939..acres.....	9,443	.....	.....	.....

¹ Schedules called for "Number of farms," see explanation in text.² Data for other intrastate tributaries of the San Juan River are not shown separately but are included in the San Juan River total.³ Data for the intrastate tributaries of the Yampa River are not shown separately but are included in the Yampa River total.⁴ For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

COLORADO RIVER (VI)—Continued													
Upper Colorado River (VI-A)—Continued													
Green River (VI-Aa)—Continued						San Juan River (VI-Ab)							
Yampa River—Continued		White River (20)	Intrastate tributaries in Wyoming	Intrastate tributaries in Utah	Total ¹	Direct (VI-Ab)	Los Pinos River (2)						
Direct (13)	Little Snake River (16)												
487	169	255	785	6,062	4,631	1,333	589	1					
42,926	21,637	36,046	197,187	245,222	180,850	32,709	40,971	2					
37,513	18,818	31,803	137,475	189,451	154,332	29,424	33,033	3					
518	111	382	2,051	9,404	5,642	633	93	4					
4,895	2,708	3,861	57,861	66,387	20,876	2,652	7,945	5					
22,138	19,603	27,773	175,305	276,184	178,932	21,922	43,041	6					
18,029	23,080	25,625	169,461	278,336	140,607	23,031	30,022	7					
53.9	10.4	29.8	12.5	-11.2	0.5	49.2	-4.8	8					
65,802	27,600	43,497	324,484	315,943	260,692	52,189	56,234	9					
34,996	23,472	36,263	283,447	405,283	247,845	33,478	63,337	10					
28,221	34,280	40,441	396,846	506,797	251,188	51,021	55,586	11					
22,976	5,963	7,451	127,297	70,721	98,842	19,480	15,263	12					
12,858	3,889	8,490	108,142	129,129	67,813	11,556	20,296	13					
10,192	11,200	14,816	227,185	228,461	110,581	27,990	25,564	14					
53,848	26,033	41,287	242,812	301,035	221,566	40,677	45,663	15					
28,187	23,052	31,648	244,346	348,542	225,370	32,431	57,992	16					
18,832	28,807	29,238	285,545	382,574	167,488	28,443	42,033	17					
91.0	12.9	30.4	-0.6	-13.6	-1.7	25.4	-21.3	18					
10,922	4,396	5,221	45,625	55,813	40,716	7,968	4,692	19					
6,049	3,449	3,875	69,041	72,378	45,438	10,509	14,951	20					
803	5,727	3,613	116,184	104,238	26,881	5,412	12,011	21					
79.7	83.1	87.3	81.2	81.5	81.6	80.4	89.7	22					
78.5	85.0	87.8	71.7	79.2	79.8	67.6	74.2	23					
95.7	80.1	87.6	59.3	72.8	84.0	81.0	71.4	24					
656,773	179,540	523,625	2,366,391	6,820,442	10,112,286	2,469,494	1,142,704	25					
633,913	173,100	505,820	2,325,674	6,717,342	9,930,927	2,454,488	1,098,659	26					
22,860	6,440	17,805	40,717	103,100	181,359	15,006	44,045	27					
298,435	219,827	460,500	1,708,767	4,920,773	2,587,588	717,995	561,050	28					
162,768	511,556	447,141	2,542,334	3,778,335	3,088,495	1,039,358	524,590	29					
120.1	-18.3	13.7	38.5	38.6	290.8	243.9	103.7	30					
12.20	6.90	12.69	9.75	22.66	45.64	60.71	25.02	31					
10.59	9.54	14.55	6.99	14.12	11.48	22.14	9.67	32					
8.64	17.76	15.29	8.90	9.88	18.44	36.54	12.48	33					
15.30	8.30	14.53	12.00	27.81	55.92	75.50	27.89	34					
903,093	185,250	530,170	2,816,831	7,363,965	13,858,427	3,673,978	1,864,811	35					
13.70	6.71	12.19	8.68	23.31	49.37	70.40	33.16	36					
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises	
207	4	32	134	3	424	14	226	13	507	19	155	64	5
35,016	2,371	21,423	35,084	576	193,842	21,999	244,081	50,157	177,764	2,083	32,555	40,940	61
27,321	236	10,490	19,365	110	64,817	1,254	164,669	7,372	198,237	1,455	79,636	29,758	24
0.78	0.10	0.49	0.55	0.19	0.33	0.06	0.67	0.15	1.12	0.70	2.45	0.73	0.39
7,981	150	5,049	4,500		17,081	411	164,730	30,067	180,771	1,203	61,465	16,451	41
0.57	0.08	0.70	0.32		0.37	0.02	0.71	0.60	1.17	1.07	2.69	0.42	42
14,379	2,000	8,987	16,389		71,982	19,120	254,805	82,765	173,326	1,470	23,588	41,718	43
0.56	0.08	0.56	0.27		0.24	0.02	0.65	0.36	1.04	0.82	2.61	0.39	44
1,674	150	5,063	778		13,404	2,750	161,257	27,333	110,769	10,484	26,109	15,817	45
87,950		450	750		394,666	39,000	434,187	1,613,321	726,495	166,000	495,359	6,598	46
280	8	93	137	3	429	12	230	11	319	10	58	42	3
38,564	2,481	20,484	35,887	576	185,328	1,942	242,047	50,137	150,235	1,071	22,452	35,027	45
137,008	2,486	38,678	136,782	992	442,025	4,557	568,127	59,896	402,553	2,066	66,203	99,344	35
3.6	1.0	1.9	3.8	1.7	2.4	2.3	2.3	1.2	2.7	1.9	2.9	2.8	0.8
0.78	0.10	0.64	0.54	0.19	0.34	0.16	0.73	0.50	1.11	0.85	2.43	0.44	0.31
0.22	0.10	0.34	0.14	0.11	0.14	0.07	0.31	0.42	0.42	0.44	0.82	0.15	0.40
3			4		12		7		21		12		53
3,635			2,475		97,946		51,313		88,486		16,051		54
2,840			1,960		21,988		36,761		51,187		9,638		55
.....			2		26		3,062		606		265		56
705			465		2,450		5,738		5,333		2,523		57

*Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

*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.

*Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER (VI)—Continued				
		Upper Colorado River (VI-A)—Continued				
		San Juan River (VI-Ab)—Continued				
		Animas River	La Plata River	Chinle Creek	Intrastate tributaries in Colorado	Intrastate tributaries in Utah
		(3)	(4)	(10)		
IRRIGATED UNITS AND AREAS						
1	Irrigated units ^a.....1939..number.....	1,021	280	419	752	117
2	Area irrigated.....1939..acres.....	38,440	13,915	3,171	46,402	4,542
3	(a) Cropland harvested.....1939..acres.....	34,536	10,013	2,911	40,467	3,248
4	(b) Crop failure.....1939..acres.....	220	2,482	260	947	1,007
5	(c) Pasture.....1939..acres.....	3,684	1,420	.....	4,988	287
6	Area irrigated.....1929..acres.....	51,708	28,530	.....	23,035	.....
7	1919..acres.....	41,174	23,004	.....	18,594	.....
8	Increase or decrease (-), 1929-1939.....percent.....	-25.7	-51.2	.....	101.4	.....
9	Irrigable area in enterprises.....1940..acres.....	50,118	31,598	10,308	70,711	7,784
10	1930..acres.....	62,639	38,883	.....	32,625	.....
11	1920 ^b ..acres.....	73,413	29,818	.....	44,795	.....
12	Excess of irrigable area over the area irrigated.....1940..acres.....	11,678	17,683	7,137	24,309	3,242
13	1930..acres.....	10,931	10,353	.....	9,590	.....
14	1920 ^b ..acres.....	32,239	6,914	.....	26,201	.....
15	Area works were capable of supplying with water.....1940..acres.....	44,478	23,020	5,336	53,888	7,654
16	1930..acres.....	56,699	35,388	.....	50,680	.....
17	1920..acres.....	47,974	23,765	.....	23,652	.....
18	Increase or decrease (-), 1930-1940.....percent.....	-21.6	-34.9	.....	75.6	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	6,038	9,105	2,165	7,486	3,112
20	1930..acres.....	4,991	6,858	.....	7,645	.....
21	1920..acres.....	6,800	761	.....	5,068	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	86.4	60.4	59.4	86.1	59.3
23	1929..percent.....	91.2	80.6	.....	75.1	.....
24	1919..percent.....	85.8	96.8	.....	76.6	.....
CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940..dollars.....	976,984	211,761	579,495	4,490,927	157,867
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	893,927	202,402	579,495	4,461,732	157,170
27	(b) Investment in water rights (reported).....1940..dollars.....	83,057	9,359	.....	29,195	697
28	Total investment in irrigation enterprises.....1930..dollars.....	811,597	172,714	.....	387,987	.....
29	1920..dollars.....	1,148,088	142,588	.....	241,935	.....
30	Increase or decrease (-), 1930-1940.....percent.....	20.4	22.6	.....	(^c)	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	21.97	9.20	108.60	83.34	20.63
32	1930..dollars.....	14.31	4.88	.....	12.65	.....
33	1920..dollars.....	23.93	6.00	.....	10.23	.....
34	Average investment per acre irrigated.....1939..dollars.....	25.42	15.22	182.75	96.78	34.76
35	Estimated final investment in existing enterprises.....1940..dollars.....	980,244	315,571	1,938,695	4,707,377	158,147
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	19.56	9.99	188.08	66.57	20.32
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary	Sup.	Primary	Sup.	Primary
		Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
37	Enterprises reporting maintenance and operation.....1939..number.....	89	5	57	4	3
38	Area irrigated in these enterprises.....1939..acres.....	35,945	312	13,875	1,002	3,171
39	Cost of maintenance and operation.....1939..dollars.....	25,788	112	7,155	559	6,625
40	Average cost, per acre irrigated.....1939..dollars.....	0.72	0.36	0.52	0.56	2.09
41	Total annual charges (reported) ^d.....1939..dollars.....	29,545	.....	7,963	503	6,625
42	Average annual charge per acre irrigated.....1939..dollars.....	0.86	.....	0.66	0.69	2.09
43	Area against which charges were assessed.....1939..acres.....	36,523	.....	18,806	1,070	3,171
44	Average annual charge per acre assessed.....1939..dollars.....	0.81	.....	0.42	0.47	2.09
45	Total charges collected ^e.....1939..dollars.....	24,156	.....	5,133	.....	39,004
46	Indebtedness to December 31 (reported) ^f.....1939..dollars.....	38,600	.....	57	.....	148,905
WATER DELIVERED TO IRRIGATORS, 1939		Primary	Sup.	Primary	Sup.	Primary
		Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
47	Enterprises reporting water delivered.....1939..number.....	63	3	44	2	3
48	Area irrigated by these enterprises.....1939..acres.....	29,968	312	12,108	(^g)	3,171
49	Water delivered.....1939..acre-foot.....	102,540	1,300	16,437	(^g)	4,470
50	Average water delivered per acre irrigated.....1939..acre-foot.....	3.4	4.2	1.4	(^g)	1.4
51	Average cost of water per acre irrigated.....1939..dollars.....	0.77	0.35	0.55	(^g)	2.09
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.23	0.08	0.40	(^g)	1.48
DRAINAGE OF IRRIGATED LAND		Primary	Sup.	Primary	Sup.	Primary
		Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
53	Enterprises reporting land drained or needing drainage.....1939..number.....	3	.....	3	.....	2
54	Irrigable area in these enterprises.....1939..acres.....	3,017	.....	472	.....	(^g)
55	Irrigated area in these enterprises.....1939..acres.....	3,017	.....	257	.....	(^g)
56	Area for which drains have been installed.....1939..acres.....	251	.....	90	.....	(^g)
57	Additional area needing drainage.....1939..acres.....	700	.....	10	.....	(^g)

^a Schedules called for "Number of farms," see explanation in text.

^b Data for the intrastate tributaries of the Little Colorado River and Independent basin (6), Salt Lake and Rito Creek (N. Mex.), are not shown separately but are included in the Little Colorado River total.

^c Data for the intrastate tributaries of the Virgin River are not shown separately but are included in the Virgin River total.

^d For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

COLORADO RIVER (VI)—Continued											
Upper Colorado River (VI-A)—Continued				Lower Colorado River (VI-B) (Exclusive of Imperial Valley)							
Paria River (25)	Intrastate tributaries in Colorado	Intra- state tributaries in Utah	Total	Direct (VI-B)	Little Colorado River (VI-Ba)		Kanab Creek (1)	Virgin River		Gila River (VI-Bb)	
					Total ¹	Direct (VI-Ba)		Total ²	Direct (2)	Total (VI-Bb)	Direct (1)+(14)
44	7,336	610	18,991	2,243	1,751	767	135	1,871	1,068	11,838	3,562
891	426,387	29,486	756,910	94,002	18,460	8,736	2,296	29,353	14,604	577,468	211,914
767	342,210	22,547	687,021	93,376	15,579	6,908	2,170	25,006	12,239	523,368	189,574
57	4,915	2,157	3,693	44	156	141	.....	671	523	2,258	1,017
67	7,262	4,782	66,186	582	2,725	1,687	128	3,676	1,842	51,842	21,323
.....	477,423	.....	.....	519,625	19,336	7,249	322	22,387	.....	509,542	112,133
.....	436,427	.....	.....	496,710	17,036	10,260	450	35,350	.....	401,400	83,406
.....	10.7	.....	.....	-81.9	-4.5	20.5	613.7	31.1	.....	13.3	89.0
1,738	566,202	35,205	1,333,188	284,257	42,410	20,905	2,710	51,894	29,686	868,067	355,687
.....	640,783	.....	.....	1,323,119	38,966	14,683	822	36,192	.....	848,290	280,014
.....	735,604	.....	.....	728,326	35,358	20,821	710	100,242	.....	658,416	210,531
847	141,815	5,719	576,278	190,255	23,950	12,169	412	22,541	15,082	310,599	143,773
.....	163,360	.....	.....	803,494	19,630	7,434	500	13,805	.....	338,748	167,881
.....	297,177	.....	.....	232,616	18,322	10,561	260	64,892	.....	257,016	127,125
1,706	521,243	30,616	1,033,057	159,562	33,055	17,011	2,710	47,148	27,925	744,404	267,840
.....	582,956	.....	.....	672,117	31,146	11,937	667	32,059	.....	734,725	226,814
.....	547,583	.....	.....	551,506	21,880	14,131	610	45,558	.....	544,014	174,229
.....	-10.6	.....	.....	-76.3	6.1	42.5	306.3	47.1	.....	1.3	18.1
815	94,856	1,130	276,147	65,560	14,585	8,275	412	17,795	13,321	166,936	55,926
.....	105,533	.....	.....	152,492	11,810	4,688	345	9,672	.....	225,183	114,681
.....	109,156	.....	.....	55,796	4,844	3,871	160	10,208	.....	142,614	90,823
52.2	81.8	96.3	73.3	58.9	55.8	51.4	84.8	62.3	52.3	77.6	79.1
.....	81.9	.....	.....	77.3	62.1	60.7	48.3	69.8	.....	69.4	49.4
.....	80.1	.....	.....	89.9	77.9	72.6	79.8	77.6	.....	73.8	47.9
9,208	15,471,329	401,905	92,610,020	16,239,067	2,365,201	1,135,412	71,181	1,360,114	747,982	69,360,203	21,799,071
8,985	15,200,625	388,365	91,279,870	15,648,951	2,378,926	1,130,237	70,361	1,183,390	681,515	68,821,655	21,725,808
223	270,704	13,540	1,330,150	590,136	6,275	5,175	800	176,724	66,467	538,548	73,263
.....	13,177,689	.....	.....	29,994,383	1,452,187	465,060	13,540	708,326	.....	62,542,801	14,262,358
.....	13,510,691	.....	.....	22,214,932	460,206	146,913	20,500	1,622,997	.....	25,236,237	2,888,708
.....	17.4	.....	.....	-45.9	64.2	144.1	425.7	91.9	.....	10.9	52.8
5.40	29.68	13.13	89.65	101.77	72.16	66.75	26.27	28.85	26.79	93.18	81.39
.....	22.60	.....	.....	44.63	46.63	38.96	20.30	22.11	.....	85.12	62.88
.....	24.67	.....	.....	40.28	21.03	10.40	33.61	35.62	.....	46.39	16.58
10.33	36.28	13.63	122.35	172.75	129.21	129.97	30.98	46.34	51.22	120.11	102.87
9,368	16,290,490	411,505	117,230,591	26,586,544	3,259,002	1,528,525	71,181	1,488,729	792,447	82,321,121	33,741,026
5.39	28.67	11.69	87.93	93.53	76.85	73.12	26.27	28.69	26.69	92.70	94.86
Primary		Sup.	Primary		Sup.	Primary		Sup.	Primary		Sup.
Enterprises		.....	Enterprises		.....	Enterprises		.....	Enterprises		.....
11	1,547	91	37	2,068	135	51	20	201	77	1,182	134
767	413,783	28,273	29,471	731,795	15,098	93,990	17,242	8,395	2,105	558,158	15,068
1,105	293,986	12,643	11,916	3,530,651	52,747	341,980	24,341	15,249	2,360	2,888,257	62,737
1.44	0.71	0.45	0.40	4.82	3.49	1.41	1.41	1.82	1.13	5.17	3.50
420	251,860	12,892	15,884	3,039,562	450	309,040	32,712	17,750	3,701	2,606,648	450
0.06	1.05	0.83	0.67	5.12	3.00	3.32	2.18	2.65	2.34	5.76	3.00
577	262,677	15,995	23,684	739,339	250	102,332	22,168	12,617	1,690	577,680	250
0.73	0.96	0.81	0.67	4.11	1.80	3.02	1.48	1.41	2.20	4.51	1.50
475	205,364	6,633	14,662	2,106,289	400	299,522	22,128	12,940	3,626	21,949	400
.....	7,699,799	167,212	36,900	43,374,155	2,500	4,177,718	236,527	109,404	.....	38,654,270	2,500
9	1,516	88	27	2,008	126	45	80	51	16	1,145	125
558	401,338	27,180	25,454	718,234	72,536	93,765	14,705	8,536	1,893	552,873	72,506
2,241	2,049,883	47,593	59,863	2,630,180	80,680	585,613	32,640	18,578	6,184	1,778,084	80,530
4.0	5.1	1.8	2.4	3.7	1.1	6.2	2.2	2.2	3.3	3.2	1.1
1.54	0.84	0.68	0.35	5.61	2.90	3.29	2.38	2.27	2.17	6.12	2.90
0.38	0.16	0.39	0.15	1.53	2.61	0.53	1.07	1.05	0.66	1.90	2.62
.....	52	.....	1	29	.....	6	5	5	.....	7	.....
.....	138,494	.....	(?)	456,400	.....	182,358	6,253	4,905	(?)	245,003	.....
.....	88,517	.....	(?)	285,781	.....	57,465	1,012	3,852	(?)	219,972	.....
.....	19,565	.....	(?)	105,317	.....	56,010	62	2,520	(?)	45,706	.....
.....	7,915	.....	(?)	119,201	.....	106,040	291	900	(?)	1,320	.....

* Percent not shown when more than 1,000.

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.

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

Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		COLORADO RIVER (VI)—Continued				
		Lower Colorado River (VI-B)—Continued (Exclusive of Imperial Valley)				
		Gila River (VI-Bb)—Continued				
		San Francisco and Blue Rivers (2) + (3)	Intrastate tributaries in Arizona	Independent basins in Gila River		
Total	Intrastate basin in New Mexico (Animas Valley) (18)			Intrastate basin in Arizona (Sulphur Springs) (19)		
IRRIGATED UNITS AND AREAS						
1	Irrigated units.....1939..number.....	149	8,026	101	11	90
2	Area irrigated.....1939..acres.....	2,437	358,159	4,958	343	4,615
3	(a) Cropland harvested.....1939..acres.....	2,195	328,977	2,622	295	2,327
4	(b) Crop failure.....1939..acres.....	34	1,129	78	2	76
5	(c) Pasture.....1939..acres.....	208	28,053	2,258	46	2,212
6	Area irrigated.....1929..acres.....	2,223	395,079	.....	.....	.....
7	1919..acres.....	3,591	314,006	.....	.....	.....
8	Increase or decrease (-), 1929-1939.....percent.....	9.6	-9.3	.....	.....	.....
9	Irrigable area in enterprises.....1940..acres.....	9,729	477,843	44,808	647	44,161
10	1930..acres.....	2,907	564,777	.....	.....	.....
11	1920 ² ..acres.....	11,134	435,828	.....	.....	.....
12	Excess of irrigable area over the area irrigated.....1940..acres.....	7,292	119,684	39,850	304	39,546
13	1930..acres.....	684	169,698	.....	.....	.....
14	1920 ² ..acres.....	7,543	121,822	.....	.....	.....
15	Area works were capable of supplying with water.....1940..acres.....	9,687	460,205	6,672	642	6,030
16	1930..acres.....	2,462	505,157	.....	.....	.....
17	1920.....acres.....	3,859	395,403	.....	.....	.....
18	Increase or decrease (-), 1930-1940.....percent.....	293.5	-8.9	.....	.....	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	7,250	102,046	1,714	299	1,415
20	1930..acres.....	239	110,078	.....	.....	.....
21	1920.....acres.....	268	51,397	.....	.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	25.2	77.8	74.3	53.4	76.5
23	1929.....percent.....	90.3	78.2	.....	.....	.....
24	1919.....percent.....	93.1	85.9	.....	.....	.....
CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940..dollars.....	46,433	47,376,295	138,404	22,282	116,122
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	43,620	46,915,662	136,565	21,130	115,435
27	(b) Investment in water rights (reported).....1940..dollars.....	2,813	460,633	1,839	1,152	687
28	Total investment in irrigation enterprises.....1930..dollars.....	41,964	48,237,304	.....	.....	.....
29	1920.....dollars.....	25,224	22,308,873	.....	.....	.....
30	Increase or decrease (-), 1930-1940.....percent.....	10.6	-1.8	.....	.....	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	4.79	102.95	20.74	34.71	19.26
32	1930.....dollars.....	17.04	95.49	.....	.....	.....
33	1920.....dollars.....	6.54	61.05	.....	.....	.....
34	Average investment per acre irrigated.....1939..dollars.....	19.05	132.28	27.92	64.96	25.16
35	Estimated final investment in existing enterprises.....1940..dollars.....	47,183	48,387,933	144,979	24,582	120,397
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	4.85	101.26	3.24	37.99	2.73
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
			Primary	Sup.	Primary	Sup.
			Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939..number.....	72	644	9	89	7
38	Area irrigated in these enterprises.....1939..acres.....	2,328	344,380	535	4,576	605
39	Cost of maintenance and operation.....1939..dollars.....	3,641	2,018,206	3,390	18,109	2,022
40	Average cost, per acre irrigated.....1939..dollars.....	1.56	5.86	6.34	3.96	3.34
41	Total annual charges (reported) ⁴.....1939..dollars.....	981	1,837,204	450	.....	.....
42	Average annual charge per acre irrigated.....1939..dollars.....	1.07	6.47	3.00	.....	.....
43	Area against which charges were assessed.....1939..acres.....	931	356,106	250	.....	.....
44	Average annual charge per acre assessed.....1939..dollars.....	1.05	5.16	1.80	.....	.....
45	Total charges collected ⁴.....1939..dollars.....	.....	1,052,829	400	.....	.....
46	Indebtedness to December 31 (reported) ⁵.....1939..dollars.....	.....	24,315,867	2,500	.....	.....
WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939..number.....	78	604	9	92	7
48	Area irrigated by these enterprises.....1939..acres.....	2,294	341,222	58,578	3,057	605
49	Water delivered.....1939..acre-feet.....	6,364	1,022,581	59,570	5,112	486
50	Average water delivered per acre irrigated.....1939..acre-feet.....	2.8	3.0	1.0	1.7	0.8
51	Average cost of water per acre irrigated.....1939..dollars.....	1.51	6.91	5.04	6.39	3.34
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.55	2.31	4.96	3.82	4.16
DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939..number.....	.....	6	.....	.....	.....
54	Irrigable area in these enterprises.....1939..acres.....	.....	244,968	.....	.....	.....
55	Irrigated area in these enterprises.....1939..acres.....	.....	219,957	.....	.....	.....
56	Area for which drains have been installed.....1939..acres.....	.....	45,691	.....	.....	.....
57	Additional area needing drainage.....1939..acres.....	.....	1,320	.....	.....	.....

^aSchedules called for "Number of farms," see explanation in text.¹1930 and 1920 data are designated as "Whitewater Draw and tributaries" and do not include Vamori Wash.²For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.³Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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and Arkansas and Louisiana.

⁴Annual 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 units, and items 41 to 46, inclusive, relate to those enterprises only.

⁶Data for less than 3 enterprises shown with permission of the enterprise involved.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		GREAT BASIN (VIII)—Continued					
		Bonneville Lake (VIII-A)—Continued					
		Great Salt Lake					
		Total ¹	Direct	Bear River			
Total ²							
		(1)					
IRRIGATED UNITS AND AREAS							
1	Irrigated units ^a.....1939...number.....	31,023	1,340	9,526			
2	Area irrigated.....1939...acres.....	773,745	25,282	403,605			
3	(a) Cropland harvested.....1939...acres.....	677,876	21,969	347,659			
4	(b) Crop failure.....1939...acres.....	11,338	1,229	3,447			
5	(c) Pasture.....1939...acres.....	84,531	2,064	52,499			
6	Area irrigated.....1929...acres.....	801,712		419,409			
7	1919...acres.....	848,639		480,452			
8	Increase or decrease (-), 1929-1939.....percent.....	-3.5		-3.8			
9	Irrigable area in enterprises.....1940...acres.....	892,289	28,227	470,251			
10	1930...acres.....	953,001		490,780			
11	1920 ³ ...acres.....	1,249,721		685,746			
12	Excess of irrigable area over the area irrigated.....1940...acres.....	118,544	2,945	66,646			
13	1930...acres.....	151,289		71,371			
14	1920 ³ ...acres.....	401,082		205,294			
15	Area works were capable of supplying with water.....1940...acres.....	844,413	27,153	444,479			
16	1930...acres.....	879,599		459,724			
17	1920...acres.....	989,919		547,673			
18	Increase or decrease (-), 1930-1940.....percent.....	-4.0		-3.3			
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	70,668	1,871	40,874			
20	1930...acres.....	77,887		40,315			
21	1920...acres.....	141,280		67,221			
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent.....	91.6	93.1	90.8			
23	1929...percent.....	91.1		91.2			
24	1919...percent.....	85.7		87.7			
CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises.....1940...dollars.....	28,927,034	2,409,673	10,068,475			
26	(a) Cost of irrigation works and equipment.....1940...dollars.....	27,363,991	2,405,343	8,924,489			
27	(b) Investment in water rights (reported).....1940...dollars.....	1,563,043	4,330	1,143,986			
28	Total investment in irrigation enterprises.....1930...dollars.....	21,884,330		7,493,444			
29	1920...dollars.....	18,109,805		7,438,075			
30	Increase or decrease (-), 1930-1940.....percent.....	32.2		34.4			
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars.....	34.26	88.74	22.65			
32	1930...dollars.....	24.88		16.30			
33	1920...dollars.....	18.29		13.58			
34	Average investment per acre irrigated.....1939...dollars.....	37.39	95.31	24.95			
35	Estimated final investment in existing enterprises.....1940...dollars.....	29,670,639	2,672,882	10,356,410			
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars.....	33.25	91.15	22.02			
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS							
		Primary	Supplemental	Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939...number.....	1,155	86	110	13	483	34
38	Area irrigated in these enterprises.....1939...acres.....	746,661	156,953	23,036	6,235	389,144	11,406
39	Cost of maintenance and operation.....1939...dollars.....	564,917	59,735	17,087	8,420	235,441	6,492
40	Average cost, per acre irrigated.....1939...dollars.....	0.76	0.38	0.74	1.35	0.61	0.57
41	Total annual charges (reported) ⁴.....1939...dollars.....	734,692	95,404	22,480	2,190	285,537	5,537
42	Average annual charge per acre irrigated.....1939...dollars.....	1.10	0.62	1.17	0.37	0.86	0.56
43	Area against which charges were assessed.....1939...acres.....	696,567	161,932	19,816	9,349	347,108	9,864
44	Average annual charge per acre assessed.....1939...dollars.....	1.05	0.59	1.13	0.23	0.82	0.56
45	Total charges collected ⁴.....1939...dollars.....	777,827	165,995	21,239	7,296	263,628	6,387
46	Indebtedness to December 31 (reported) ⁵.....1939...dollars.....	3,600,626	7,437,410	21,217	1,802,475	217,415	923,000
WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered.....1939...number.....	1,215	103	99	16	494	36
48	Area irrigated by these enterprises.....1939...acres.....	684,526	157,328	17,557	6,345	357,183	11,479
49	Water delivered.....1939...acre-feet.....	1,689,115	195,031	48,301	11,835	814,950	17,951
50	Average water delivered per acre irrigated.....1939...acre-feet.....	2.5	1.2	2.8	1.9	2.3	1.6
51	Average cost of water per acre irrigated.....1939...dollars.....	1.04	0.62	1.20	0.41	0.81	0.57
52	Average cost of water per acre-foot delivered.....1939...dollars.....	0.42	0.50	0.44	0.22	0.35	0.37
DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage.....1939...number.....	152		10		39	
54	Irrigable area in these enterprises.....1939...acres.....	240,658		352		136,206	
55	Irrigated area in these enterprises.....1939...acres.....	223,924		324		126,584	
56	Area for which drains have been installed.....1939...acres.....	47,334		99		18,048	
57	Additional area needing drainage.....1939...acres.....	31,758		67		26,188	

^aSchedules called for "Number of farms," see explanation in text.¹Data for the intrastate tributaries of the Great Salt Lake Basin are not shown separately but are included in the Great Salt Lake Basin total.²Data for the intrastate tributaries of the Bear River are not shown separately but are included in the Bear River total.³For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

GREAT BASIN (VIII)—Continued									
Bonneville Lake (VIII-A)—Continued									
Great Salt Lake—Continued		Intrastate tributary in Utah (Sevier River)	Total	Independent basins					Intrastate basin in Nevada (Thousand Spring Creek) (21)
Bear River—Continued				Deep Creek (Box Elder County, Utah) (19)	Deep Creek (Tooele County, Utah) (22)	SNAKE Valley (23)	Intrastate basins in Utah		
Direct (2)	Malad River (5)	(14)+(18)							
6,099	512	7,415	1,985	90	82	86	1,713	14	1
336,336	15,504	237,569	71,924	4,137	2,700	13,999	48,313	2,775	2
291,807	14,561	206,575	57,948	4,133	2,468	6,222	42,410	2,715	3
3,946	7	8,983	3,854	.....	44	2,010	1,800	.....	4
41,193	946	20,011	10,122	4	188	5,767	4,103	.....	5
206,221	9,620	258,929	.....	.....	2,147	.....	.....	.....	6
252,079	17,898	325,718	.....	.....	1,983	.....	.....	.....	7
63.1	62.9	-6.2	.....	.....	25.8	.....	.....	.....	8
395,049	20,377	277,779	101,968	6,098	2,824	17,340	66,467	9,259	9
250,806	11,215	336,671	.....	.....	2,362	.....	.....	.....	10
370,284	45,339	630,484	.....	.....	4,326	.....	.....	.....	11
56,713	4,873	40,210	30,064	1,961	124	3,341	18,154	6,484	12
44,587	1,695	77,742	.....	.....	215	.....	.....	.....	13
118,211	27,471	304,766	.....	.....	2,343	.....	.....	.....	14
374,231	17,155	270,066	91,232	4,696	2,824	16,193	62,624	4,893	15
226,437	11,170	303,757	.....	.....	2,172	.....	.....	.....	16
295,615	18,317	402,387	.....	.....	3,448	.....	.....	.....	17
65.3	53.6	-11.1	.....	.....	30.0	.....	.....	.....	18
37,895	1,651	32,497	19,306	561	124	2,194	14,311	2,118	19
20,236	1,650	44,628	.....	.....	25	.....	.....	.....	20
43,742	449	76,669	.....	.....	1,463	.....	.....	.....	21
89.9	90.4	88.0	78.8	88.1	95.6	86.5	77.1	56.7	22
91.1	85.2	85.2	.....	.....	98.8	.....	.....	.....	23
85.2	97.5	80.9	.....	.....	57.5	.....	.....	.....	24
7,936,443	223,037	6,092,351	2,382,365	25,907	25,322	128,982	1,905,959	296,215	25
6,948,909	193,559	5,603,973	2,131,981	22,757	22,322	111,197	1,679,525	296,180	26
1,087,534	29,478	488,378	250,404	3,150	3,000	17,785	226,434	35	27
4,267,038	113,336	6,793,638	.....	.....	12,277	.....	.....	.....	28
4,533,194	350,272	9,509,836	.....	.....	8,644	.....	.....	.....	29
86.0	96.8	-10.3	.....	.....	106.3	.....	.....	.....	30
21.21	13.00	22.56	26.11	5.51	8.97	7.97	30.43	60.54	31
18.84	10.15	22.37	.....	.....	5.65	.....	.....	.....	32
15.32	19.12	23.63	.....	.....	2.57	.....	.....	.....	33
23.60	14.39	25.64	33.12	6.26	9.38	9.21	39.45	106.74	34
8,209,359	226,612	6,138,536	2,448,581	26,157	38,322	140,778	1,947,109	296,215	35
20.78	11.13	22.10	24.01	4.29	13.57	8.12	29.29	31.99	36
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises		Enterprises		Enterprises		Enterprises		Enterprises	
359	28	61	4	253	24	300	17	212	17
328,497	5,371	12,838	171	226,749	111,432	67,756	6,825	47,031	6,825
197,038	1,804	10,296	36	142,044	15,885	63,288	3,063	48,652	3,063
0.60	0.34	0.80	0.21	0.62	0.14	0.93	0.45	1.03	0.45
238,571	863	9,071	.....	205,863	16,012	32,504	1,439	27,897	1,439
0.87	0.21	0.83	.....	0.94	0.14	0.72	0.24	0.76	0.24
289,048	4,021	10,975	.....	232,363	111,859	56,162	5,909	46,048	5,909
0.83	0.21	0.83	.....	0.89	0.14	0.58	0.24	0.61	0.24
218,666	855	11,363	.....	192,941	12,546	29,075	2,476	24,896	2,476
214,713	.....	1,636	.....	396,197	394,367	16,021	2,065	13,755	2,065
347	29	94	5	267	23	279	15	204	15
306,826	5,409	14,485	206	209,463	47,108	62,323	6,778	43,917	6,778
675,663	7,622	32,755	226	490,394	23,602	150,125	3,141	95,600	3,141
2.2	1.4	2.3	1.1	2.3	0.5	2.4	0.5	2.2	0.5
0.81	0.33	0.89	0.21	0.91	0.07	1.13	0.61	1.27	0.61
0.37	0.23	0.39	0.19	0.39	0.14	0.47	1.32	0.38	1.32
24	.....	2	.....	57	.....	.....	.....	.....	.....
113,501	.....	(9)	.....	60,062	.....	.....	.....	.....	.....
104,040	.....	(9)	.....	51,211	.....	.....	.....	.....	.....
14,963	.....	(9)	.....	38,086	.....	.....	.....	.....	.....
23,681	.....	(9)	.....	948	.....	.....	.....	.....	.....

*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.

†Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

‡Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE

[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		GREAT BASIN (VIII)—Continued						
		Lahontan Lake (VIII-B)						
		Northern Great Basin (VIII-Ba) (Independent basins)						
		Total (VIII-B)	Total (VIII-Ba)	Cowhead and Warner Lakes (9)	Quinn River		Surprise Valley (16)	Snake Creek (18)
					Total ²	Direct (13)		
IRRIGATED UNITS AND AREAS								
1	Irrigated units ¹.....1939..number.....	5,152	772	62	115	97	186	15
2	Area irrigated.....1939..acres.....	990,489	235,918	34,668	25,896	16,777	34,454	1,099
3	(a) Cropland harvested.....1939..acres.....	604,389	158,128	20,272	16,870	12,896	27,482	819
4	(b) Crop failure.....1939..acres.....	5,200	897	10	228	93	50	20
5	(c) Pasture.....1939..acres.....	380,900	76,893	14,386	8,798	5,788	6,922	260
6	Area irrigated.....1929..acres.....				8,518			
7	1919..acres.....				9,935			
8	Increase or decrease (-), 1929-1939.....percent.....				204.0			
9	Irrigable area in enterprises.....1940..acres.....	1,232,555	308,106	40,775	28,841	21,636	47,723	1,232
10	1930..acres.....				11,060			
11	1920 ⁴ ..acres.....				19,635			
12	Excess of irrigable area over the area irrigated.....1940..acres.....	242,066	72,188	6,107	2,945	2,861	13,269	133
13	1930..acres.....				2,542			
14	1920 ⁴ ..acres.....				9,700			
15	Area works were capable of supplying with water.....1940..acres.....	1,175,460	304,075	40,115	28,013	20,814	47,311	1,232
16	1930..acres.....				10,927			
17	1920..acres.....				13,452			
18	Increase or decrease (-), 1930-1940.....percent.....				156.4			
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	184,971	68,157	5,447	2,117	2,037	12,857	133
20	1930..acres.....				2,409			
21	1920..acres.....				3,517			
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	84.3	77.6	86.4	92.4	90.2	72.8	89.2
23	1929..percent.....				78.0			
24	1919..percent.....				73.9			
CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises.....1940..dollars.....	22,297,095	1,733,612	119,928	63,421	41,150	155,008	20,974
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	21,086,832	1,590,738	114,525	62,056	39,800	92,711	19,872
27	(b) Investment in water rights (reported).....1940..dollars.....	1,210,263	142,874	5,403	1,365	1,350	62,297	1,102
28	Total investment in irrigation enterprises.....1930..dollars.....				68,858			
29	1920..dollars.....				50,548			
30	Increase or decrease (-), 1930-1940.....percent.....				-7.9			
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	18.97	5.70	2.99	2.26	1.98	3.28	17.02
32	1930..dollars.....				6.30			
33	1920..dollars.....				3.76			
34	Average investment per acre irrigated.....1939..dollars.....	22.51	7.35	3.45	2.45	2.19	4.50	19.08
35	Estimated final investment in existing enterprises.....1940..dollars.....	23,452,200	1,782,077	126,468	82,121	59,850	155,028	20,974
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	19.03	5.78	3.10	2.85	2.77	3.25	17.02
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
		Primary	Sup.					
		Enterprises						
37	Enterprises reporting maintenance and operation.....1939..number.....	2,233	15	530	45	29	174	9
38	Area irrigated in these enterprises.....1939..acres.....	914,807	85,247	217,269	32,033	23,041	15,922	32,193
39	Cost of maintenance and operation.....1939..dollars.....	830,617	39,693	59,014	6,310	4,968	3,533	10,030
40	Average cost, per acre irrigated.....1939..dollars.....	0.91	0.47	0.27	0.20	0.22	0.22	0.31
41	Total annual charges (reported) ⁵.....1939..dollars.....	335,935	88,384	3,655				1,348
42	Average annual charge per acre irrigated.....1939..dollars.....	1.51	1.05	0.41				0.51
43	Area against which charges were assessed.....1939..acres.....	243,250	102,371	8,989				2,620
44	Average annual charge per acre assessed.....1939..dollars.....	1.38	0.86	0.41				0.51
45	Total charges collected ⁶.....1939..dollars.....	154,748	79,069	1,662				
46	Indebtedness to December 31 (reported) ⁶.....1939..dollars.....	1,922,138	2,740,606	359,500				
WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered.....1939..number.....	2,172	14	513	40	30	159	14
48	Area irrigated by these enterprises.....1939..acres.....	865,652	84,925	190,079	6,783	25,840	18,721	32,083
49	Water delivered.....1939..acre-feet.....	2,314,593	292,197	421,395	17,375	45,667	32,282	40,679
50	Average water delivered per acre irrigated.....1939..acre-feet.....	2.7	3.4	2.2	2.0	1.8	1.7	1.3
51	Average cost of water per acre irrigated.....1939..dollars.....	1.26	1.05	0.29	0.47	0.21	0.22	0.31
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.47	0.30	0.13	0.24	0.12	0.13	0.25
DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage.....1939..number.....	42		1	1			
54	Irrigable area in these enterprises.....1939..acres.....	262,141		(?)	(?)			
55	Irrigated area in these enterprises.....1939..acres.....	196,299		(?)	(?)			
56	Area for which drains have been installed.....1939..acres.....	103,030		(?)	(?)			
57	Additional area needing drainage.....1939..acres.....	20,808						

¹Schedules called for "Number of farms," see explanation in text.²Data for 1930 and 1920 include a portion of the Newland Project, U. S. Bureau of Reclamation, therefore, percent of increase or decrease is not shown.³Data for the intrastate tributaries of the Quinn River are not shown separately but are included in the Quinn River total.⁴Data for the intrastate tributaries of the Truckee River (upper) are not shown separately but are included in the Truckee River (upper) total.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued

and Arkansas and Louisiana]

GREAT BASIN (VIII)—Continued											
Lahontan Lake (VIII-B)—Continued											
Northern Great Basin (VIII-Ba)—Con. (Independent basins)			Sierra Nevada Slope (VIII-Bb)								
Intrastate basins in Oregon	Intrastate basin in Nevada (Black Rock Desert) (12)	Intrastate basin in California (Madeline Plains) (17)	Total (VIII-Bb)	Pyramid Lake				Carson River (upper) ¹ (5)			
				Total	Direct (1)	Truckee River (upper)					
						Total ²	Direct (2)				
332	53	9	2,715	717	82	635	531	300	1		
129,234	6,885	3,672	314,994	49,426	2,924	46,502	32,242	43,099	2		
84,885	5,413	2,407	174,994	30,801	1,188	29,613	21,014	23,180	3		
294	285	.....	2,787	473	.....	473	131	168	4		
44,075	1,187	1,265	137,243	18,352	1,736	16,616	11,097	19,751	5		
314,689	.....	.....	.....	.....	.....	39,028	30,417	74,797	6		
302,864	.....	.....	.....	.....	.....	20,002	14,606	75,439	7		
-58.9	.....	.....	.....	.....	.....	19.2	6.0	.....	8		
175,187	10,318	4,030	401,136	57,406	5,488	51,918	32,903	44,659	9		
483,802	.....	.....	.....	.....	.....	47,770	38,971	170,446	10		
600,738	.....	.....	.....	.....	.....	34,659	28,040	233,668	11		
45,953	3,423	358	86,142	7,980	2,564	5,416	661	1,560	12		
169,116	.....	.....	.....	.....	.....	8,742	8,554	95,649	13		
297,874	.....	.....	.....	.....	.....	14,657	13,434	158,229	14		
174,702	8,672	4,030	363,251	54,094	4,250	49,844	32,903	44,153	15		
370,208	.....	.....	.....	.....	.....	43,424	34,625	124,239	16		
446,777	.....	.....	.....	.....	.....	20,920	15,436	104,464	17		
-52.8	.....	.....	.....	.....	.....	14.8	-5.0	.....	18		
45,468	1,777	358	48,257	4,668	1,326	3,342	661	1,054	19		
55,522	.....	.....	.....	.....	.....	4,396	4,208	49,442	20		
143,913	.....	.....	.....	.....	.....	918	830	29,025	21		
74.0	79.5	91.1	86.7	91.4	68.8	93.3	98.0	97.6	22		
85.0	.....	.....	.....	.....	.....	89.9	87.8	60.2	23		
67.8	.....	.....	.....	.....	.....	95.6	94.6	72.2	24		
1,282,417	59,064	32,800	11,821,575	2,817,958	95,926	2,722,032	2,016,239	440,872	25		
1,212,105	56,669	32,800	11,743,254	2,791,025	95,926	2,695,099	1,999,362	436,685	26		
70,312	2,395	.....	78,321	26,933	.....	26,933	16,877	3,987	27		
6,231,723	.....	.....	.....	1,814,690	.....	1,814,690	1,572,525	7,210,361	28		
5,799,574	.....	.....	.....	594,187	.....	594,187	465,900	8,064,685	29		
-79.4	.....	.....	.....	50.0	.....	50.0	28.2	.....	30		
7.34	6.81	8.14	32.54	52.09	22.57	54.61	61.28	9.99	31		
16.83	.....	.....	.....	.....	.....	41.79	45.42	58.04	32		
12.98	.....	.....	.....	.....	.....	28.40	31.48	77.20	33		
9.92	8.57	8.93	37.53	57.01	32.81	58.54	62.53	10.23	34		
1,301,577	63,109	32,800	12,391,841	3,178,029	321,176	2,856,853	2,150,660	510,302	35		
7.43	6.12	8.14	30.89	55.36	58.52	55.03	65.36	11.43	36		
Primary Sup.											
Enterprises											
217	34	4	459	71	10	61	41	111	3		
120,331	5,446	3,362	295,903	67,507	1,563	43,701	30,335	39,796	2,313		
31,576	5,325	300	163,563	21,562	3,126	41,356	34,396	10,719	1,457		
0.25	0.98	0.09	0.55	0.32	2.00	0.95	1.13	0.27	0.63		
2,055	.....	.....	293,927	59,085	2,956	53,590	31,449	2,352	2,000		
0.35	.....	.....	1.56	0.88	4.51	1.60	1.25	0.13	1.00		
5,879	.....	.....	204,664	82,175	655	34,620	25,666	17,614	2,000		
0.35	.....	.....	1.44	0.72	4.51	1.50	1.23	0.13	1.00		
1,682	.....	.....	124,271	56,492	.....	31,508	23,906	1,494	1,940		
359,500	.....	.....	1,226,620	1,536,679	129,240	1,066,179	14,798	1,066,179	.....		
212	31	9	493	80	13	67	44	99	3		
112,337	6,265	3,672	301,688	67,507	2,924	45,560	31,630	38,509	2,313		
293,432	18,414	3,475	899,567	213,175	8,715	193,858	162,710	168,602	2,378		
2.6	2.9	0.9	3.0	3.2	3.0	4.3	5.1	4.4	1.0		
0.26	1.06	0.09	1.15	0.89	2.00	1.35	1.17	0.27	1.13		
0.10	0.36	0.09	0.35	0.28	0.67	0.32	0.23	0.06	1.10		
.....	.....	.....	25	8	.....	8	6	2	53		
.....	.....	.....	204,962	33,666	.....	33,666	24,904	(?)	54		
.....	.....	.....	160,624	30,562	.....	30,562	24,808	(?)	55		
.....	.....	.....	62,968	12,512	.....	12,512	8,113	(?)	56		
.....	.....	.....	19,636	6,206	.....	6,206	6,006	(?)	57		

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

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.

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

Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		GREAT BASIN (VIII)—Continued			
		Lahontan Lake (VIII-B)—Continued			
		Sierra Nevada Slope (VIII-Bb)—Continued			
		Walker Lake			
		Total	Direct (7)	Walker River	
				Total	Direct (8)
IRRIGATED UNITS AND AREAS					
1	Irrigated units ^a.....1939..number.....	482	77	405	222
2	Area irrigated.....1939..acres.....	112,052	3,646	108,406	44,133
3	(a) Cropland harvested.....1939..acres.....	42,188	814	41,374	23,160
4	(b) Crop failure.....1939..acres.....	66	.....	66	60
5	(c) Pasture.....1939..acres.....	69,798	2,832	66,966	20,913
6	Area irrigated.....1929..acres.....	.....	.....	91,881	.....
7	1919..acres.....	.....	.....	152,625	.....
8	Increase or decrease (-), 1929-1939.....percent.....	.....	.....	18.0	.....
9	Irrigable area in enterprises.....1940..acres.....	125,085	7,371	117,714	49,881
10	1930..acres.....	.....	.....	191,800	.....
11	1920 ¹ ..acres.....	.....	.....	400,232	.....
12	Excess of irrigable area over the area irrigated.....1940..acres.....	13,033	3,725	9,308	5,748
13	1930..acres.....	.....	.....	99,919	.....
14	1920 ¹ ..acres.....	.....	.....	247,607	.....
15	Area works were capable of supplying with water.....1940..acres.....	122,583	5,154	117,429	49,596
16	1930..acres.....	.....	.....	94,317	.....
17	1920..acres.....	.....	.....	179,562	.....
18	Increase or decrease (-), 1930-1940.....percent.....	.....	.....	24.5	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	10,531	1,508	9,023	5,463
20	1930..acres.....	.....	.....	2,436	.....
21	1920..acres.....	.....	.....	26,937	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	91.4	70.7	92.3	89.0
23	1929..percent.....	.....	.....	97.4	.....
24	1919..percent.....	.....	.....	85.0	.....
CAPITAL INVESTED TO JANUARY 1 ¹					
25	Total investment in irrigation enterprises.....1940..dollars.....	1,780,062	218,179	1,561,883	879,400
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	1,757,490	215,679	1,541,811	865,051
27	(b) Investment in water rights (reported).....1940..dollars.....	22,572	2,500	20,072	14,349
28	Total investment in irrigation enterprises.....1930..dollars.....	.....	.....	2,213,164	.....
29	1920..dollars.....	.....	.....	1,699,059	.....
30	Increase or decrease (-), 1930-1940.....percent.....	.....	.....	-29.4	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	14.52	42.33	13.30	17.73
32	1930..dollars.....	.....	.....	23.47	.....
33	1920..dollars.....	.....	.....	9.46	.....
34	Average investment per acre irrigated.....1939..dollars.....	15.89	59.84	14.41	19.93
35	Estimated final investment in existing enterprises.....1940..dollars.....	1,843,062	272,179	1,570,883	888,000
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	14.73	36.93	13.34	17.80
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS					
		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939..number.....	85	3	83	3
38	Area irrigated in these enterprises.....1939..acres.....	109,392	65,000	105,880	65,000
39	Cost of maintenance and operation.....1939..dollars.....	28,950	19,972	24,949	19,972
40	Average cost, per acre irrigated.....1939..dollars.....	0.26	0.31	0.24	0.31
41	Total annual charges (reported) ³.....1939..dollars.....	17,217	57,085	17,128	57,085
42	Average annual charge per acre irrigated.....1939..dollars.....	0.25	0.88	0.26	0.88
43	Area against which charges were assessed.....1939..acres.....	75,542	80,175	72,044	80,175
44	Average annual charge per acre assessed.....1939..dollars.....	0.23	0.71	0.24	0.71
45	Total charges collected ³.....1939..dollars.....	15,721	54,552	15,036	54,552
46	Indebtedness to December 31 (reported) ⁴.....1939..dollars.....	23,753	470,500	23,753	470,500
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939..number.....	91	3	88	3
48	Area irrigated by these enterprises.....1939..acres.....	107,776	65,000	104,130	65,000
49	Water delivered.....1939..acre-feet.....	221,951	210,450	215,197	210,450
50	Average water delivered per acre irrigated.....1939..acre-feet.....	2.1	3.2	2.1	3.2
51	Average cost of water per acre irrigated.....1939..dollars.....	0.25	0.88	0.25	0.88
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.12	0.27	0.12	0.27
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939..number.....	8	.....	8	6
54	Irrigable area in these enterprises.....1939..acres.....	76,166	.....	76,166	68,226
55	Irrigated area in these enterprises.....1939..acres.....	66,563	.....	66,563	60,363
56	Area for which drains have been installed.....1939..acres.....	27,860	.....	27,860	25,620
57	Additional area needing drainage.....1939..acres.....	8,975	.....	8,975	7,775

^a Schedules called for "Number of farms," see explanation in text.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.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,³ MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued

and Arkansas and Louisiana]

GREAT BASIN (VIII)—Continued											
Lahontan Lake (VIII-B)—Continued											
Sierra Nevada Slope (VIII-Bb)—Continued						Central Great Basin and Eastern Nevada (VIII-Bc)					
Walker Lake—Continued		Intrastate streams in Nevada (Truckee and Carson Rivers, lower) (6)	Independent basins			Total (VIII-Bc)	Intrastate stream and tributaries in Nevada (Humboldt River) (1)+(7)+(10)				
Walker River—Continued			Total	Honey Lake	Intrastate basins in California						
West Walker River (9)	East Walker River (10)			(12)							
150	33	720	496	245	251	1,695	507				1
36,816	27,457	54,254	56,163	40,477	15,686	439,577	286,099				2
16,086	2,128	44,797	34,228	26,613	7,615	271,267	178,231				3
.....	6	1,545	505	505	.....	1,546	843				4
20,730	25,323	7,912	21,430	13,359	8,071	166,764	107,025				5
.....	.....	.....	.....	24,664	.....	.....	.....				6
.....	.....	.....	.....	44,327	.....	.....	.....				7
.....	.....	.....	.....	64.1	.....	.....	.....				8
39,891	27,942	86,066	87,920	64,348	23,572	523,313	335,015				9
.....	.....	.....	.....	49,319	.....	.....	.....				10
3,075	485	31,812	31,757	55,065	.....	83,736	48,916				11
.....	.....	.....	.....	23,871	7,886	.....	.....				12
.....	.....	.....	.....	24,655	.....	.....	.....				13
.....	.....	.....	.....	10,738	.....	.....	.....				14
39,891	27,942	66,768	75,653	56,608	19,045	508,134	329,372				15
.....	.....	.....	.....	49,069	.....	.....	.....				16
.....	.....	.....	.....	49,264	.....	.....	.....				17
.....	.....	.....	.....	15.4	.....	.....	.....				18
3,075	485	12,514	19,490	16,131	3,359	68,557	43,273				19
.....	.....	.....	.....	24,405	.....	.....	.....				20
.....	.....	.....	.....	4,937	.....	.....	.....				21
92.3	98.3	81.3	74.2	71.5	82.4	86.5	86.9				22
.....	.....	.....	.....	50.3	.....	.....	.....				23
.....	.....	.....	.....	90.0	.....	.....	.....				24
552,297	130,166	6,168,615	613,868	320,296	293,572	8,741,908	2,974,199				25
546,979	129,781	6,168,615	589,039	295,677	293,362	7,752,840	2,232,727				26
5,318	405	.....	24,829	24,619	210	989,068	741,472				27
.....	.....	.....	.....	1,511,574	.....	.....	.....				28
.....	.....	.....	.....	414,068	.....	.....	.....				29
.....	.....	.....	.....	-78.8	.....	.....	.....				30
13.85	4.66	92.39	8.11	5.66	15.41	17.20	9.03				31
.....	.....	.....	.....	30.81	.....	.....	.....				32
.....	.....	.....	.....	8.41	.....	.....	.....				33
15.00	4.74	113.70	10.93	7.91	18.72	19.89	10.40				34
552,697	130,186	6,207,165	653,283	325,611	327,472	9,278,282	3,077,817				35
13.86	4.66	72.12	7.43	5.06	13.89	17.73	9.19				36
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises		Enterprises		Enterprises		Enterprises		Enterprises		Enterprises	
30	1	23	1	8	3	143	3	41	6	346	3
36,806	(2)	25,287	(2)	54,251	194	36,011	194	11,189	17,740	253,977	17,079
12,878	(2)	4,704	(2)	55,956	133	12,035	133	11,421	18,131	57,041	16,966
0.35	(2)	0.19	(2)	1.03	0.69	0.33	0.69	1.02	1.02	0.22	0.99
11,790	14,352	.....	4,187	199,540	18,272	13,872	.....	4,400	38,353	6,497	28,534
0.40	0.90	.....	0.79	3.76	1.35	1.81	.....	0.75	1.50	0.40	1.67
32,280	20,158	.....	5,880	61,687	14,346	8,443	.....	5,903	29,597	16,834	19,874
0.37	0.71	.....	0.71	3.23	1.27	1.64	.....	0.75	1.30	0.39	1.44
10,385	13,715	.....	4,001	66,703	8,845	8,845	.....	.....	28,815	4,502	22,577
23,753	118,293	.....	34,511	1,026,627	47,000	47,000	.....	.....	336,018	1,203,927	1,203,570
30	1	25	1	4	3	157	3	62	5	302	3
34,375	(2)	25,622	(2)	53,274	194	39,644	194	14,001	373,885	244,885	17,079
82,809	(2)	34,394	(2)	181,455	347	69,923	347	55,063	98,631	601,313	78,502
2.4	(2)	1.3	(2)	3.4	1.9	1.8	.....	3.9	2.7	2.5	4.6
0.40	(2)	0.18	(2)	3.75	0.71	0.62	0.69	1.02	1.88	0.27	1.68
0.16	(2)	0.13	(2)	1.10	0.31	0.35	0.38	0.26	0.71	0.11	0.37
(2)	2	.....	.....	52	5	3	.....	52	16	5	.....
(2)	.....	.....	.....	83,615	1,807	695	.....	1,112	38,228	32,603	.....
(2)	.....	.....	.....	53,013	865	465	.....	400	16,744	13,336	.....
(2)	.....	.....	.....	41,301	1,060	660	.....	400	15,222	15,000	.....
(2)	.....	.....	.....	3,800	555	.....	.....	555	1,172	390	.....

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 units, and items 41 to 46, inclusive, relates to those enterprises only.

⁵ Data for less than 3 enterprises shown with permission of the enterprises involved.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)	GREAT BASIN (VIII)—Continued			
	Lahontan Lake (VIII-B)—Continued			
	Central Great Basin and Eastern Nevada (VIII-Bc)—Continued			
	Independent basins			
	Total	Amargosa River and Dry Lakes (22)	Intrastate basins in Nevada	Intrastate basins in California
IRRIGATED UNITS AND AREAS				
1 Irrigated units ^a.....1939..number.....	1,188	34	345	809
2 Area irrigated.....1939..acres.....	153,478	2,156	113,884	37,438
3 (a) Cropland harvested.....1939..acres.....	93,036	672	57,031	35,333
4 (b) Crop failure.....1939..acres.....	703	145	317	241
5 (c) Pasture.....1939..acres.....	59,739	1,339	56,536	1,864
6 Area irrigated.....1929..acres.....	.....	.....	.....	.....
7 .....1919..acres.....	.....	.....	.....	.....
8 Increase or decrease (-), 1929-1939.....percent.....	.....	.....	.....	.....
9 Irrigable area in enterprises.....1940..acres.....	188,298	3,151	127,388	57,761
10 .....1930..acres.....	.....	.....	.....	.....
11 .....1920 ^b ..acres.....	.....	.....	.....	.....
12 Excess of irrigable area over the area irrigated.....1940..acres.....	34,820	995	13,502	20,323
13 .....1930..acres.....	.....	.....	.....	.....
14 .....1920 ^b ..acres.....	.....	.....	.....	.....
15 Area works were capable of supplying with water.....1940..acres.....	178,762	3,065	124,263	51,434
16 .....1930..acres.....	.....	.....	.....	.....
17 .....1920 ^b ..acres.....	.....	.....	.....	.....
18 Increase or decrease (-), 1930-1940.....percent.....	.....	.....	.....	.....
19 Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	25,284	909	10,379	13,986
20 .....1930..acres.....	.....	.....	.....	.....
21 .....1920 ^b ..acres.....	.....	.....	.....	.....
22 Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	85.9	70.3	91.6	72.8
23 .....1929..percent.....	.....	.....	.....	.....
24 .....1919..percent.....	.....	.....	.....	.....
CAPITAL INVESTED TO JANUARY 1				
25 Total investment in irrigation enterprises.....1940..dollars.....	5,767,709	80,720	606,030	5,080,959
26 (a) Cost of irrigation works and equipment.....1940..dollars.....	5,520,113	76,950	502,139	4,941,024
27 (b) Investment in water rights (reported).....1940..dollars.....	247,596	3,770	103,891	139,935
28 Total investment in irrigation enterprises.....1930..dollars.....	.....	.....	.....	.....
29 .....1920 ^b ..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.....	32.26	26.34	4.88	98.79
32 .....1930..dollars.....	.....	.....	.....	.....
33 .....1920 ^b ..dollars.....	.....	.....	.....	.....
34 Average investment per acre irrigated.....1939..dollars.....	37.58	37.44	5.32	135.72
35 Estimated final investment in existing enterprises.....1940..dollars.....	6,200,465	81,720	675,935	5,442,810
36 Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	32.93	25.93	5.31	94.23
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				
	Primary	Supplemental	Primary	Supplemental
	Enterprises		Enterprises	
37 Enterprises reporting maintenance and operation.....1939..number.....	898	3	30	283
38 Area irrigated in these enterprises.....1939..acres.....	147,698	661	1,782	110,053
39 Cost of maintenance and operation.....1939..dollars.....	550,999	1,165	4,493	35,472
40 Average cost, per acre irrigated.....1939..dollars.....	3.73	1.76	2.52	0.32
41 Total annual charges (reported) ^c.....1939..dollars.....	31,856	765	.....	1,500
42 Average annual charge per acre irrigated.....1939..dollars.....	3.38	2.38	.....	0.21
43 Area against which charges were assessed.....1939..acres.....	12,763	322	.....	6,980
44 Average annual charge per acre assessed.....1939..dollars.....	2.50	2.38	.....	0.21
45 Total charges collected ^d.....1939..dollars.....	24,313	.....	.....	.....
46 Indebtedness to December 31 (reported) ^e.....1939..dollars.....	336,018	357	.....	.....
WATER DELIVERED TO IRRIGATORS, 1939				
47 Enterprises reporting water delivered.....1939..number.....	864	2	29	229
48 Area irrigated by these enterprises.....1939..acres.....	128,990	(⁴)	1,777	90,498
49 Water delivered.....1939..acre-feet.....	392,318	(⁴)	13,402	180,510
50 Average water delivered per acre irrigated.....1939..acre-feet.....	3.0	(⁴)	7.5	2.0
51 Average cost of water per acre irrigated.....1939..dollars.....	4.51	(⁴)	2.98	0.35
52 Average cost of water per acre-foot delivered.....1939..dollars.....	1.48	(⁴)	0.40	0.17
DRAINAGE OF IRRIGATED LAND				
53 Enterprises reporting land drained or needing drainage.....1939..number.....	11	.....	7	4
54 Irrigable area in these enterprises.....1939..acres.....	5,625	.....	5,125	500
55 Irrigated area in these enterprises.....1939..acres.....	3,408	.....	3,353	55
56 Area for which drains have been installed.....1939..acres.....	222	.....	14	208
57 Additional area needing drainage.....1939..acres.....	842	.....	732	110

^a Schedules called for "Number of farms," see explanation in text.^b Data for the intrastate tributaries of the Clark Fork are not shown separately but are included in the Clark Fork total.^c Data for the intrastate tributaries of the Spokane River are not shown separately but are included in the Spokane River total.^d For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

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and Arkansas and Louisiana]

⁴Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)	COLUMBIA RIVER (IX)—Continued							
	Snake River (IX-B)							
	Upper Snake River							
	Total	Direct	Total	Direct	Total	Direct	Total	Direct
	(IX-B)	(1)						
IRRIGATED UNITS AND AREAS								
1 Irrigated units*.....1939...number.....	45,392	14,507	11,192	2,458				
2 Area irrigated.....1939...acres.....	2,625,355	861,060	717,006	187,444				
3 (a) Cropland harvested.....1939...acres.....	2,296,208	817,723	654,845	174,870				
4 (b) Crop failure.....1939...acres.....	20,056	1,866	1,508	10				
5 (c) Pasture.....1939...acres.....	309,091	41,471	60,653	12,564				
6 Area irrigated.....1929...acres.....	2,339,264	720,770						
7 .....1919...acres.....	2,712,618	743,154						
8 Increase or decrease (-), 1929-1939.....percent.....	12.2	19.5						
9 Irrigable area in enterprises.....1940...acres.....	3,343,028	1,061,020	854,956	209,903				
10 .....1930...acres.....	3,130,120	866,077						
11 .....1920 ² ...acres.....	4,057,747	946,050						
12 Excess of irrigable area over the area irrigated.....1940...acres.....	717,673	199,960	137,950	22,459				
13 .....1930...acres.....	790,856	145,307						
14 .....1920 ² ...acres.....	1,345,129	202,896						
15 Area works were capable of supplying with water.....1940...acres.....	3,018,889	953,255	821,914	209,032				
16 .....1930...acres.....	2,773,621	841,587						
17 .....1920...acres.....	3,376,146	895,209						
18 Increase or decrease (-), 1930-1940.....percent.....	8.8	13.3						
19 Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	393,534	92,195	104,908	21,588				
20 .....1930...acres.....	434,357	120,817						
21 .....1920...acres.....	663,528	152,055						
22 Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent.....	87.0	90.3	87.2	89.7				
23 .....1929...percent.....	84.3	85.6						
24 .....1919...percent.....	80.3	83.0						
CAPITAL INVESTED TO JANUARY 1								
25 Total investment in irrigation enterprises.....1940...dollars.....	125,320,432	48,642,397	20,498,750	6,297,840				
26 (a) Cost of irrigation works and equipment.....1940...dollars.....	123,727,685	48,520,126	20,269,283	6,218,557				
27 (b) Investment in water rights (reported).....1940...dollars.....	1,592,747	122,271	229,467	79,283				
28 Total investment in irrigation enterprises.....1930...dollars.....	93,265,245	33,983,494						
29 .....1920...dollars.....	93,625,117	37,228,741						
30 Increase or decrease (-), 1930-1940.....percent.....	34.4	43.1						
31 Average investment based on area works were capable of supplying with water, per acre.....1940...dollars.....	41.51	51.03	24.94	30.13				
32 .....1930...dollars.....	33.63	40.38						
33 .....1920...dollars.....	27.73	41.59						
34 Average investment per acre irrigated.....1939...dollars.....	47.73	56.49	28.59	33.60				
35 Estimated final investment in existing enterprises.....1940...dollars.....	133,232,687	49,710,432	20,981,506	6,312,840				
36 Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars.....	39.85	46.85	24.54	30.08				
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS								
	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
	Enterprises		Enterprises		Enterprises		Enterprises	
37 Enterprises reporting maintenance and operation.....1939...number.....	4,552	168	748	20	773	30	61	5
38 Area irrigated in these enterprises.....1939...acres.....	2,538,451	939,686	853,210	479,085	694,605	400,628	184,704	132,768
39 Cost of maintenance and operation.....1939...dollars.....	2,570,462	214,344	1,234,793	17,576	424,407	19,553	197,162	5,188
40 Average cost, per acre irrigated.....1939...dollars.....	1.01	0.23	1.45	0.04	0.61	0.05	1.07	0.04
41 Total annual charges (reported) ⁴.....1939...dollars.....	2,558,179	203,496	1,320,276	14,644	507,276	17,897	232,475	4,614
42 Average annual charge per acre irrigated.....1939...dollars.....	1.22	0.22	1.63	0.03	0.82	0.04	1.27	0.03
43 Area against which charges were assessed.....1939...acres.....	2,304,964	938,696	881,278	477,778	658,681	399,242	201,769	132,369
44 Average annual charge per acre assessed.....1939...dollars.....	1.11	0.22	1.50	0.03	0.77	0.04	1.15	0.03
45 Total charges collected ⁴.....1939...dollars.....	2,700,414	75,145	1,257,375	14,547	459,295	18,072	204,648	4,490
46 Indebtedness to December 31 (reported) ⁵.....1939...dollars.....	28,943,619	3,689,525	6,921,574		2,868,559	2,760,661	393,118	
WATER DELIVERED TO IRRIGATORS, 1939								
47 Enterprises reporting water delivered.....1939...number.....	4,419	142	736	18	802	30	56	4
48 Area irrigated by these enterprises.....1939...acres.....	2,308,204	931,780	799,379	475,598	667,167	415,622	184,202	129,408
49 Water delivered.....1939...acre-feet.....	9,576,457	1,082,843	3,333,084	572,110	3,285,386	469,592	893,681	155,787
50 Average water delivered per acre irrigated.....1939...acre-feet.....	4.1	1.2	4.2	1.2	4.9	1.1	4.9	1.2
51 Average cost of water per acre irrigated.....1939...dollars.....	1.10	0.22	1.58	0.03	0.80	0.05	1.29	0.03
52 Average cost of water per acre-foot delivered.....1939...dollars.....	0.26	0.19	0.38	0.03	0.16	0.04	0.27	0.03
DRAINAGE OF IRRIGATED LAND								
53 Enterprises reporting land drained or needing drainage.....1939...number.....	231		63		36		8	
54 Irrigable area in these enterprises.....1939...acres.....	1,066,065		520,556		84,215		63,772	
55 Irrigated area in these enterprises.....1939...acres.....	820,570		396,542		64,127		46,540	
56 Area for which drains have been installed.....1939...acres.....	282,130		72,505		9,673		8,573	
57 Additional area needing drainage.....1939...acres.....	28,351		5,255		5,927		1,395	

* Schedules called for "Number of farms," see explanation in text.

¹ Data for the intrastate tributaries of the South Fork Snake River are not shown separately but are included in the South Fork Snake River 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.

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and Arkansas and Louisiana]

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.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		COLUMBIA RIVER (IX)—Continued				
		Snake River (IX-B)—Continued				
		Lower Snake River				
		Total	Direct	Raft River	Goose Creek	Salmon Falls Creek
			(12)	(13)	(14)	(15)
IRRIGATED UNITS AND AREAS						
1	Irrigated units*.....1939..number.....	33,442	12,049	196	313	294
2	Area irrigated.....1939..acres.....	1,839,410	673,616	14,007	19,144	30,940
3	(a) Cropland harvested.....1939..acres.....	1,577,436	642,853	12,626	18,126	29,152
4	(b) Crop failure.....1939..acres.....	15,145	1,856	60	86	160
5	(c) Pasture.....1939..acres.....	240,830	28,907	1,321	932	1,628
6	Area irrigated.....1929..acres.....	.....	.....	13,406	19,359	38,566
7	1919..acres.....	.....	.....	23,620	25,000	41,330
8	Increase or decrease (-), 1929-1939.....percent.....	.....	.....	4.5	-1.1	-19.8
9	Irrigable area in enterprises.....1940..acres.....	2,380,854	851,117	21,360	21,603	50,056
10	1930..acres.....	.....	.....	37,941	25,424	49,434
11	1920 ² ..acres.....	.....	.....	42,906	50,000	87,260
12	Excess of irrigable area over the area irrigated.....1940..acres.....	547,444	177,501	7,353	2,459	19,116
13	1930..acres.....	.....	.....	24,535	6,065	10,868
14	1920 ² ..acres.....	.....	.....	19,286	25,000	45,930
15	Area works were capable of supplying with water.....1940..acres.....	2,093,618	744,223	16,405	20,221	48,104
16	1930..acres.....	.....	.....	23,366	25,424	49,284
17	1920.....acres.....	.....	.....	26,436	50,000	49,920
18	Increase or decrease (-), 1930-1940.....percent.....	.....	.....	-29.8	-20.5	-2.4
19	Excess of area works were capable of supplying with water over area irrigated.....1940..acres.....	260,208	70,607	2,398	1,077	17,164
20	1930..acres.....	.....	.....	9,960	6,065	10,718
21	1920.....acres.....	.....	.....	2,816	25,000	8,590
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939..percent.....	87.6	90.5	85.4	94.7	64.3
23	1929.....percent.....	.....	.....	57.4	76.1	78.3
24	1919.....percent.....	.....	.....	89.3	50.0	82.8
CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940..dollars.....	103,579,633	42,344,557	159,027	1,850,803	2,895,097
26	(a) Cost of irrigation works and equipment.....1940..dollars.....	102,242,682	42,301,569	154,339	1,600,477	2,667,901
27	(b) Investment in water rights (reported).....1940..dollars.....	1,336,951	42,988	4,688	250,326	237,196
28	Total investment in irrigation enterprises.....1930..dollars.....	.....	.....	50,786	1,508,520	2,598,895
29	1920.....dollars.....	.....	.....	100,928	393,755	4,152,745
30	Increase or decrease (-), 1930-1940.....percent.....	.....	.....	213.1	22.7	11.4
31	Average investment based on area works were capable of supplying with water, per acre.....1940..dollars.....	49.47	56.90	9.69	91.53	60.18
32	1930.....dollars.....	.....	.....	2.17	59.33	52.73
33	1920.....dollars.....	.....	.....	3.82	7.88	83.19
34	Average investment per acre irrigated.....1939..dollars.....	56.50	62.86	11.35	96.68	93.57
35	Estimated final investment in existing enterprises.....1940..dollars.....	110,970,021	43,397,592	306,212	1,851,303	2,898,397
36	Average investment based on estimated final investment and irrigable area, per acre.....1940..dollars.....	46.61	50.99	14.34	85.70	57.90
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						
		Primary	Supplemental	Primary	Supplemental	
		Enterprises		Enterprises		
37	Enterprises reporting maintenance and operation.....1939..number.....	3,628	136	685	15	43
38	Area irrigated in these enterprises.....1939..acres.....	1,769,930	539,058	668,506	346,317	11,365
39	Cost of maintenance and operation.....1939..dollars.....	2,080,899	194,791	1,037,631	12,368	5,410
40	Average cost, per acre irrigated.....1939..dollars.....	1.18	0.36	1.55	0.04	0.48
41	Total annual charges (reported) ⁴.....1939..dollars.....	1,979,501	185,599	1,087,801	10,030	3,389
42	Average annual charge per acre irrigated.....1939..dollars.....	1.39	0.35	1.73	0.03	0.42
43	Area against which charges were assessed.....1939..acres.....	1,575,556	539,454	679,519	345,409	9,891
44	Average annual charge per acre assessed.....1939..dollars.....	1.26	0.34	1.60	0.03	0.34
45	Total charges collected ⁴.....1939..dollars.....	2,182,650	57,073	1,052,727	10,057	3,284
46	Indebtedness to December 31 (reported) ⁵.....1939..dollars.....	25,787,060	938,894	6,528,456	.....	25
WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939..number.....	3,466	112	680	14	39
48	Area irrigated by these enterprises.....1939..acres.....	1,568,124	516,158	615,177	346,190	8,019
49	Water delivered.....1939..acre-feet.....	6,021,530	633,251	2,439,403	416,323	17,276
50	Average water delivered per acre irrigated.....1939..acre-feet.....	3.8	1.2	4.0	1.2	2.2
51	Average cost of water per acre irrigated.....1939..dollars.....	1.22	0.36	1.67	0.03	0.62
52	Average cost of water per acre-foot delivered.....1939..dollars.....	0.32	0.30	0.42	0.03	0.30
DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939..number.....	190	.....	55	.....	1
54	Irrigable area in these enterprises.....1939..acres.....	979,500	.....	456,784	.....	(3)
55	Irrigated area in these enterprises.....1939..acres.....	754,686	.....	350,002	.....	(3)
56	Area for which drains have been installed.....1939..acres.....	272,457	.....	63,932	.....	(3)
57	Additional area needing drainage.....1939..acres.....	22,969	.....	3,860	.....	.....

* Schedules called for "Number of farms," see explanation in text.

¹ Data for intrastate tributaries of the Grande Ronde River are not shown separately but are included in the Grande Ronde River total.² For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

COLUMBIA RIVER (IX)—Continued									
Snake River (IX-B)—Continued									
Lower Snake River—Continued									
Owyhee River									
Bruneau River (18)	Total	Direct (23)	South Fork Owyhee River			Jordan Creek (26)	Total ¹	Direct (46)	
			Total	Direct (24)	East Fork Owyhee River (25)				
162	1,345	976	232	40	192	137	1,298	569	1
20,952	126,991	58,004	53,688	26,972	26,716	15,289	64,822	17,604	2
14,984	101,348	50,215	39,502	23,263	16,239	11,631	49,591	15,543	3
140	4,803	1,542	1,398	971	427	1,863	7	7	4
5,828	20,840	6,247	12,788	2,738	10,050	1,805	15,224	2,054	5
21,161	80,054	.....	.....	.....	.....	.....	57,655	.....	6
22,598	104,830	.....	.....	.....	.....	.....	79,257	.....	7
-1.0	111.5	.....	.....	.....	.....	.....	12.4	.....	8
22,034	180,657	76,895	85,669	32,705	52,964	18,093	76,701	23,299	9
27,702	180,067	.....	.....	.....	.....	.....	65,227	.....	10
37,751	239,242	.....	.....	.....	.....	.....	98,912	.....	11
1,082	53,666	18,891	31,981	5,733	26,248	2,794	11,879	7,695	12
6,541	120,013	.....	.....	.....	.....	.....	7,572	.....	13
15,153	134,412	.....	.....	.....	.....	.....	19,655	.....	14
21,738	153,127	76,725	58,722	31,185	27,537	17,680	74,937	23,720	15
24,930	71,016	.....	.....	.....	.....	.....	63,174	.....	16
25,636	116,238	.....	.....	.....	.....	.....	87,317	.....	17
-12.8	115.6	.....	.....	.....	.....	.....	18.6	.....	18
766	26,136	18,721	5,734	4,213	821	2,381	10,115	6,116	19
3,769	10,962	.....	.....	.....	.....	.....	5,519	.....	20
3,038	11,408	.....	.....	.....	.....	.....	8,060	.....	21
96.4	82.9	75.6	91.4	86.5	97.0	86.5	86.5	74.2	22
84.9	84.6	.....	.....	.....	.....	.....	91.3	.....	23
88.1	90.2	.....	.....	.....	.....	.....	90.8	.....	24
188,119	11,774,350	10,400,232	862,538	94,939	767,599	511,530	625,226	151,627	25
186,048	11,770,090	10,399,363	860,217	94,739	765,478	510,510	621,682	150,361	26
2,071	4,260	919	2,321	200	2,121	1,020	3,544	1,246	27
571,321	3,280,445	.....	.....	.....	.....	.....	386,759	.....	28
574,955	1,411,424	.....	.....	.....	.....	.....	476,998	.....	29
-67.1	261.1	.....	.....	.....	.....	.....	61.7	.....	30
8.65	76.89	135.55	14.69	3.04	27.88	28.93	8.34	6.39	31
22.92	45.91	.....	.....	.....	.....	.....	6.12	.....	32
22.43	12.14	.....	.....	.....	.....	.....	5.46	.....	33
8.98	92.72	179.30	16.07	3.52	28.73	33.44	9.65	8.61	34
191,149	12,421,405	10,643,837	1,266,038	97,439	1,168,599	511,530	626,390	152,174	35
8.68	68.76	138.42	14.78	2.98	22.06	28.27	8.17	6.02	36
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
86	2	176	6	51	5	71	1	34	37
19,948	(3)	122,532	11,869	57,262	11,769	52,528	(3)	25,972	(3)
19,607	(3)	177,616	8,175	139,361	8,125	19,332	(3)	6,072	(3)
0.68	(3)	1.45	0.69	2.43	0.69	0.37	(3)	0.23	(3)
6,093	.....	51,800	7,715	32,067	7,715	5,116	.....	50	.....
1.35	.....	0.81	0.66	0.63	0.66	0.78	.....	0.25	.....
4,900	.....	78,954	11,690	65,659	11,690	6,518	.....	200	.....
1.24	.....	0.66	0.66	0.49	0.66	0.78	.....	0.25	.....
3,534	.....	44,933	.....	31,966	.....	.....	.....	.....	.....
.....	.....	739,000	.....	309,000	.....	.....	.....	.....	.....
63	5	151	3	58	3	37	.....	9	.....
14,675	148	91,576	11,743	58,004	11,743	24,497	.....	1,425	.....
30,961	198	487,252	21,210	287,581	21,210	162,118	.....	3,502	.....
2.1	1.3	5.3	1.8	5.0	1.8	7.4	.....	2.5	.....
0.49	1.52	0.62	0.68	0.64	0.68	0.52	.....	0.42	.....
0.23	1.13	0.12	0.38	0.13	0.38	0.07	.....	0.17	.....
4	.....	3	.....	3	.....	.....	.....	.....	.....
1,197	.....	66,073	.....	66,073	.....	.....	.....	2,195	.....
1,118	.....	50,632	.....	50,632	.....	.....	.....	2,084	.....
.....	.....	14,787	.....	14,787	.....	.....	.....	57	.....
635	.....	2,470	.....	2,470	.....	.....	.....	233	.....

* Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

¹ 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.

² Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		COLUMBIA RIVER (IX)—Continued			
		Snake River (IX-B)—Continued			
		Lower Snake River—Continued			Independent intrastate basins in Idaho
		Intrastate tributaries in Idaho	Intrastate tributaries in Oregon	Intrastate tributaries in Washington	
IRRIGATED UNITS AND AREAS					
1	Irrigated units ^a.....1939...number....	15,092	2,355	338	758
2	Area irrigated.....1939...acres.....	686,001	192,367	4,570	74,939
3	(a) Cropland harvested.....1939...acres.....	547,952	156,500	4,303	63,928
4	(b) Crop failure.....1939...acres.....	5,105	2,906	22	3,403
5	(c) Pasture.....1939...acres.....	132,944	32,961	245	7,608
6	Area irrigated.....1929...acres.....				69,920
7	1919...acres.....				108,351
8	Increase or decrease (-), 1929-1939.....percent....				7.2
9	Irrigable area in enterprises.....1940...acres.....	898,830	253,428	5,068	107,218
10	1930...acres.....				155,980
11	1920 ² ...acres.....				346,531
12	Excess of irrigable area over the area irrigated.....1940...acres.....	212,829	61,061	498	32,279
13	1930...acres.....				86,070
14	1920 ² ...acres.....				238,180
15	Area works were capable of supplying with water.....1940...acres.....	782,597	227,198	5,068	103,357
16	1930...acres.....				150,578
17	1920...acres.....				181,009
18	Increase or decrease (-), 1930-1940.....percent....				-31.4
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	96,596	34,831	498	28,418
20	1930...acres.....				80,658
21	1920...acres.....				72,658
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	87.7	84.7	90.2	72.5
23	1929...percent....				46.4
24	1919...percent....				59.9
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940...dollars....	31,808,183	11,166,810	767,461	1,242,049
26	(a) Cost of irrigation works and equipment.....1940...dollars....	31,130,144	11,061,521	758,911	1,215,720
27	(b) Investment in water rights (reported).....1940...dollars....	678,039	105,289	8,550	26,329
28	Total investment in irrigation enterprises.....1930...dollars....				2,413,285
29	1920...dollars....				3,801,739
30	Increase or decrease (-), 1930-1940.....percent....				-48.5
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	40.64	49.15	151.43	12.02
32	1930...dollars....				16.03
33	1920...dollars....				21.00
34	Average investment per acre irrigated.....1939...dollars....	46.37	58.05	167.93	16.57
35	Estimated final investment in existing enterprises.....1940...dollars....	36,995,675	11,514,027	767,871	1,281,160
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	41.16	45.43	151.51	11.95
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939...number....	1,472	97	672	9
38	Area irrigated in these enterprises.....1939...acres.....	664,368	148,737	171,955	17,813
39	Cost of maintenance and operation.....1939...dollars....	639,514	170,219	110,479	2,936
40	Average cost, per acre irrigated.....1939...dollars....	0.96	1.14	0.64	0.16
41	Total annual charges (reported) ⁴.....1939...dollars....	660,487	156,643	69,925	10,231
42	Average annual charge per acre irrigated.....1939...dollars....	1.24	1.08	0.67	0.59
43	Area against which charges were assessed.....1939...acres.....	583,062	147,720	115,740	17,480
44	Average annual charge per acre assessed.....1939...dollars....	1.13	1.06	0.60	0.59
45	Total charges collected ⁴.....1939...dollars....	939,674	38,506	51,387	8,510
46	Indebtedness to December 31 (reported) ⁵.....1939...dollars....	13,465,956	169,198	4,997,701	769,666
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939...number....	1,338	77	690	8
48	Area irrigated by these enterprises.....1939...acres.....	563,885	140,572	164,389	17,381
49	Water delivered.....1939...acre-feet....	2,289,515	172,296	445,209	22,931
50	Average water delivered per acre irrigated.....1939...acre-feet....	4.1	1.2	2.7	1.3
51	Average cost of water per acre irrigated.....1939...dollars....	1.06	1.12	0.55	0.59
52	Average cost of water per acre-foot delivered.....1939...dollars....	0.26	0.91	0.20	0.45
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939...number....	109	8		1
54	Irrigable area in these enterprises.....1939...acres.....	394,413	56,658		(³)
55	Irrigated area in these enterprises.....1939...acres.....	306,577	44,093		(³)
56	Area for which drains have been installed.....1939...acres.....	172,894	20,607		(³)
57	Additional area needing drainage.....1939...acres.....	13,686	2,085		

*Schedules called for "Number of farms," see explanation in text.

¹Data for the intrastate tributaries of the Klamath River are not shown separately but are included in the Klamath River total.²For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued
and Arkansas and Louisiana]

COLUMBIA RIVER (IX)—Continued					KLAMATH RIVER (X)		
Lower Columbia River (IX-C)					Total ¹	Direct (X)	Lost River (3)
Total	Direct (IX-C)	Walla Walla River (1)	Intrastate tributaries in Oregon	Intrastate tributaries in Washington			
8,480	370	1,673	6,184	253	2,790	763	1,125
299,703	7,034	37,586	242,617	12,456	271,038	95,090	81,296
256,107	5,270	30,693	210,497	9,647	167,622	53,308	65,766
5,707	56	570	4,831	250	1,624	947	575
37,889	1,708	6,333	27,289	2,559	101,792	40,835	14,855
.....	.....	29,631	204,905	.....	187,991	63,727	60,450
.....	.....	39,784	226,412	.....	153,105	65,720	59,598
.....	.....	26.9	18.4	.....	44.2	49.2	34.5
459,806	11,933	46,443	366,969	14,461	384,003	120,374	109,517
.....	.....	36,068	350,736	.....	316,239	122,584	77,170
.....	.....	54,614	498,183	.....	362,793	128,763	194,748
160,103	4,899	8,847	144,352	2,005	112,965	25,284	28,221
.....	.....	6,457	145,831	.....	128,248	58,857	16,720
.....	.....	14,830	271,771	.....	209,688	63,043	136,180
357,284	9,001	45,001	289,439	13,843	310,560	106,598	98,847
.....	.....	31,526	276,897	.....	264,949	98,922	75,857
.....	.....	47,745	339,296	.....	205,374	76,075	95,304
.....	.....	42.7	4.5	.....	17.2	7.8	30.3
57,581	1,967	7,405	46,822	1,387	39,522	11,508	17,551
.....	.....	1,895	71,992	.....	76,958	35,195	15,407
.....	.....	7,961	112,884	.....	52,269	10,355	36,736
83.9	78.1	83.5	83.8	90.0	87.3	89.2	82.2
.....	.....	94.0	74.0	.....	71.0	64.4	79.7
.....	.....	83.3	66.7	.....	74.5	86.4	61.5
13,723,603	399,852	960,133	12,125,078	238,540	10,430,941	2,128,699	5,506,452
13,510,363	398,131	892,701	11,985,386	234,145	10,206,193	2,098,726	5,361,854
213,240	1,721	67,432	139,692	4,395	224,748	29,973	144,598
.....	.....	747,053	11,747,283	.....	9,430,566	4,253,840	4,295,740
.....	.....	1,171,914	11,094,332	.....	5,502,890	1,734,099	3,451,383
.....	.....	28.5	3.2	.....	10.6	-50.0	28.2
38.41	44.42	21.34	41.89	17.23	33.59	19.97	55.71
.....	.....	23.70	42.42	.....	35.59	43.00	56.63
.....	.....	24.55	32.70	.....	26.79	22.79	36.21
45.79	56.85	25.54	49.98	19.15	38.49	22.39	67.73
14,202,632	414,025	967,295	12,563,805	257,507	12,446,774	2,249,554	5,794,980
30.89	34.70	20.83	32.47	17.81	32.41	18.69	52.91
Primary Sup.	Primary Sup.	Primary Sup.	Primary Sup.	Primary Sup.	Primary Sup.	Primary Sup.	Primary Sup.
Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
2,976 63	319	530 57	2,052 4	75 2	763 13	303 4	71 5
288,058 17,437	6,449	35,270 801	234,026 9,936	12,313 (3)	250,978 43,692	84,859 6,184	75,336 37,199
449,094 17,065	39,545	47,063 4,913	357,516 11,942	4,950 (3)	273,943 43,759	76,910 4,679	120,528 38,621
1.56 1.01	6.13	1.33 6.13	1.53 1.20	0.40 (3)	1.09 1.00	0.91 0.76	1.60 1.04
374,917 11,806	4,759	31,084 333,556 11,806	5,518 275,586 42,662	 275,586 42,662	64,430 4,554	139,134 38,108	 41
2.23 1.20	10.48	1.52 2.45 1.20	0.49 11,825 9,839	 150,831 42,942	1.55 0.77	2.08 1.03	 42
193,003 9,839	619	21,085 159,474 9,839	11,825 150,831 42,942	 150,831 42,942	5,931 71,889	37,005 43	 43
1.94 1.20	7.69	1.47 2.09 1.20	0.47 2,693 2,648	 222,792 457	1.50 0.77	1.94 1.03	 44
341,260 2,648	4,168	31,251 303,148 7,000 10,550	2,693 2,648	222,792 457	56,384 457	112,948 37,425	 45
4,205,259 10,550	.....	83,306 4,114,953 7,000 10,550	7,000 10,550	7,415,421 37,425	1,550,013 3,174,098	 37,425	 46
3,093 59	328	549 52	2,138 4	76 3	537 9	195 2	75 4
284,063 17,593	6,916	32,184 777	233,962 9,936	11,921 6,880	234,352 41,417	80,559 (3)	80,781 37,199
1,053,170 57,128	22,761	158,115 3,985	850,977 47,783	21,317 5,360	648,131 82,739	259,570 (3)	211,473 68,165
3.7 3.2	2.3	4.9 5.1	3.6 4.8	1.8 0.8	2.8 2.0	3.2 (3)	2.6 1.4
2.11 1.52	6.30	1.51 5.85	2.16 1.20	0.60 0.13	1.45 1.03	1.11 (3)	1.94 1.04
0.57 0.47	1.91	0.31 1.14	0.59 0.25	0.34 0.10	0.53 0.52	0.35 (3)	0.74 0.57
167 18	3 3	145 145	 145	(3) 1 59	 59	21 20	 20
49,357 677	457 457	 47,743	 47,743	(3) 159,493	 159,493	58,592 58,592	 91,235
37,459 477	289 289	 36,203	 36,203	(3) 119,465	 119,465	45,893 45,893	 66,165
6,125 358	3 3	 5,759	 5,759	(3) 111,485	 111,485	42,155 42,155	 67,230
4,404 208	145 145	 4,048	 4,048	(3) 8,292	 8,292	2,014 2,014	 5,288
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³Data 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.

⁶ Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, DELIVERED TO IRRIGATORS, AND DRAINAGE
[For the 17 western States]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)	PACIFIC OCEAN STREAMS (XI) (Exclusive of Gulf of California streams and Columbia and Klamath Rivers)			
	Streams north of the Columbia River	Streams between the Columbia and Klamath Rivers ¹	Streams between the Klamath River and San Francisco Bay	San Francisco Bay and tributaries other than Sacramento and San Joaquin Delta
	(XI-A)	(XI-B)	(XI-C)	(XI-D)
IRRIGATED UNITS AND AREAS				
1 Irrigated units ².....1939...number.....	1,782	4,810	267	4,400
2 Area irrigated.....1939...acres.....	22,486	71,895	8,229	116,502
3 (a) Cropland harvested.....1939...acres.....	13,335	52,638	7,462	108,693
4 (b) Crop failure.....1939...acres.....	4	97	57	1,856
5 (c) Pasture.....1939...acres.....	9,147	19,160	710	5,953
6 Area irrigated.....1929...acres.....	8,960	60,693	6,384	99,079
7 .....1919...acres.....	6,160	40,703	3,466	76,947
8 Increase or decrease (-), 1929-1939.....percent.....	151.0	18.5	28.9	17.6
9 Irrigable area in enterprises.....1940...acres.....	44,930	88,277	11,184	165,735
10 .....1930...acres.....	20,142	85,324	12,001	111,354
11 .....1920 ³ ...acres.....	12,660	139,826	23,217	100,730
12 Excess of irrigable area over the area irrigated..1940...acres.....	22,444	16,362	2,955	49,233
13 .....1930...acres.....	11,182	24,631	5,617	12,275
14 .....1920 ³ ...acres.....	6,500	99,123	19,751	23,783
15 Area works were capable of supplying with water..1940...acres.....	40,932	84,754	10,950	163,185
16 .....1930...acres.....	17,607	77,877	9,515	107,432
17 .....1920...acres.....	9,860	56,469	14,823	86,779
18 Increase or decrease (-), 1930-1940.....percent.....	132.5	8.8	15.1	51.9
19 Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	16,446	12,859	2,721	46,683
20 .....1930...acres.....	8,647	17,184	3,131	8,353
21 .....1920...acres.....	3,700	15,766	11,357	9,832
22 Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent.....	54.9	84.8	75.2	71.4
23 .....1929...percent.....	50.9	77.9	67.1	92.2
24 .....1919...percent.....	62.5	72.1	23.4	86.7
CAPITAL INVESTED TO JANUARY 1				
25 Total investment in irrigation enterprises.....1940...dollars....	1,043,463	5,305,670	418,622	9,346,396 ⁴
26 (a) Cost of irrigation works and equipment.....1940...dollars....	1,038,050	5,275,968	417,931	9,331,250
27 (b) Investment in water rights (reported).....1940...dollars....	5,413	29,682	691	15,148
28 Total investment in irrigation enterprises.....1930...dollars....	296,126	5,230,947	600,089	9,405,139
29 .....1920...dollars....	94,010	1,975,189	687,555	4,940,061
30 Increase or decrease (-), 1930-1940.....percent.....	252.4	1.4	-30.2	-0.6
31 Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	25.49	62.60	38.23	57.27
32 .....1930...dollars....	16.82	67.17	63.07	87.55
33 .....1920...dollars....	9.53	34.98	46.38	56.93
34 Average investment per acre irrigated.....1939...dollars....	46.41	73.80	50.87	80.23
35 Estimated final investment in existing enterprises..1940...dollars....	1,249,477	5,424,354	446,961	9,412,904
36 Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	27.81	61.45	39.96	56.79
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS				
37 Enterprises reporting maintenance and operation...1939...number....	727	877	234	2,568
	22,331	69,730	7,713	114,041
38 Area irrigated by these enterprises.....1939...acres.....	76,373	210,832	46,582	887,812
39 Cost of maintenance and operation.....1939...dollars....	3.42	3.02	6.04	7.79
40 Average cost, per acre irrigated.....1939...dollars....	67,775	213,245	1,250	167,534
41 Total annual charges (reported) ⁶ 7.....1939...dollars....	4.63	4.44	3.63	9.45
42 Average annual charge per acre irrigated.....1939...dollars....	25,028	52,436	344	18,074
43 Area against which charges were assessed.....1939...acres.....	2.71	4.07	3.63	9.27
44 Average annual charge per acre assessed.....1939...dollars....	51,757	271,460	4,752	4,752
45 Total charges collected ⁶.....1939...dollars....	235,340	1,236,206	19,795	19,795
46 Indebtedness to December 31 (reported) ⁷.....1939...dollars....				
WATER DELIVERED TO IRRIGATORS, 1939				
47 Enterprises reporting water delivered.....1939...number....	696	908	245	2,643
48 Area irrigated by these enterprises.....1939...acres.....	19,366	66,826	7,767	115,522
49 Water delivered.....1939...acre-feet.....	47,962	211,659	13,667	192,418
50 Average water delivered per acre irrigated.....1939...acre-feet.....	2.5	3.2	1.8	1.7
51 Average cost of water per acre irrigated.....1939...dollars....	5.38	370	6.02	8.22
52 Average cost of water per acre-foot delivered..1939...dollars....	2.17	1.17	3.43	4.93
DRAINAGE OF IRRIGATED LAND				
53 Enterprises reporting land drained or needing drainage.....1939...number....	147	26	9	38
54 Irrigable area in these enterprises.....1939...acres.....	6,008	13,325	526	15,973
55 Irrigated area in these enterprises.....1939...acres.....	4,341	12,379	310	11,096
56 Area for which drains have been installed.....1939...acres.....	1,018	651	52	7,724
57 Additional area needing drainage.....1939...acres.....	278	333	24	5,212

² Schedules called for "Number of farms," see explanation in text.³ Data for 1 enterprise on the Illinois River in California are included.⁴ Data for the intrastate tributaries of the Sacramento River are not shown separately but are included in the Sacramento River total.⁵ For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER OF IRRIGATED LAND, 1939—Continued

and Arkansas and Louisiana]

PACIFIC OCEAN STREAMS (XI)—Continued (Exclusive of Gulf of California streams and Columbia and Klamath Rivers)						SACRAMENTO-SAN JOAQUIN DELTA AND TRIBUTARY STREAMS (XII)					
Pacific Ocean streams south of San Francisco Bay (XI-E)						Sacramento River					
Total	Streams between San Francisco Bay and Santa Maria River (XI-Ea)	Santa Maria River and streams south (XI-Eb)	Total (XII)	Delta direct (I)	Total ²	Direct (2)+(15)+(24)					
45,135	3,453	41,682	66,539	1,904	15,758	3,291	1				
813,182	176,954	636,228	3,393,882	245,691	779,368	298,879	2				
801,179	174,182	626,997	3,082,169	238,636	676,523	287,516	3				
3,319	827	2,392	11,521	1,012	5,468	837	4				
8,694	1,846	6,839	300,192	6,043	97,377	10,496	5				
773,623			3,157,132		696,924	277,407	6				
564,254			2,744,644		640,950	194,397	7				
5.1			7.5		11.8	7.7	8				
1,151,476	226,582	924,894	5,660,337	337,304	1,708,003	652,877	9				
1,033,942			5,393,666		1,554,698	578,410	10				
866,464			5,489,735		1,204,769	439,169	11				
338,294	49,628	288,666	2,286,455	91,613	928,635	353,998	12				
260,319			2,236,534		857,774	301,003	13				
302,210			2,755,091		563,819	244,772	14				
1,123,176	218,409	904,767	5,132,597	333,376	1,392,185	632,646	15				
962,076			4,796,836		1,176,770	530,983	16				
685,110			4,113,524		864,605	296,744	17				
16.7			7.0		18.3	19.1	18				
308,994	41,455	268,539	1,738,715	87,685	612,817	333,767	19				
188,453			1,638,704		479,846	253,576	20				
120,856			1,368,880		223,655	102,351	21				
72.4	81.0	70.3	66.1	73.7	56.0	47.2	22				
80.4			65.8		59.2	52.2	23				
82.4			66.7		74.1	65.5	24				
104,204,397	10,755,279	93,449,118	171,004,939	5,809,300	46,058,587	16,395,878	25				
96,516,782	10,743,132	85,773,650	167,408,547	5,807,746	44,633,577	16,311,224	26				
7,687,615	12,147	7,675,468	3,595,392	1,554	1,425,010	84,654	27				
98,090,593			164,628,063		48,750,541	17,502,425	28				
55,595,858			100,527,759		28,833,106	11,830,374	29				
6.2			3.9		-5.5	-5.3	30				
92.78	49.24	103.29	33.32	17.43	33.08	25.92	31				
101.96			34.33		41.43	32.96	32				
81.15			24.44		33.35	39.87	33				
128.14	60.78	146.88	50.39	23.64	59.10	54.86	34				
105,379,863	11,167,183	94,212,680	177,372,167	5,873,307	49,010,703	16,556,184	35				
91.52	49.29	101.86	31.34	17.41	28.69	25.36	36				
Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises	Enterprises
8,407	178	2,562	28	5,845	150	16,122	7,261	684	11	4,704	59
753,397	51,302	173,537	2,320	579,860	48,982	3,246,911	384,497	170,538	22,950	743,682	16,164
6,342,202	256,025	1,158,765	16,445	5,183,437	239,580	11,642,315	1,357,520	504,342	6,701	2,624,323	12,144
8.42	4.99	6.68	7.09	8.94	4.89	3.59	3.53	2.96	0.29	3.93	0.75
4,644,323	215,902	56,102		4,588,221	215,902	5,990,229	34,892	315,488	5,329	1,361,910	15,360
11.85	5.48	5.12		12.05	5.48	2.89	0.59	5.07	0.23	3.14	1.24
462,339	39,718	28,980		433,359	39,718	3,034,228	55,230	87,196	22,743	843,583	12,387
10.05	5.44	1.94		10.59	5.44	1.97	0.63	3.62	0.23	1.61	1.24
3,467,817	381,108	40,354		3,427,463	381,108	5,163,621	22,140	282,500	5,323	1,211,911	15,400
15,534,986	1,347,129	10,334		15,524,652	1,347,129	56,289,636	139,000	2,191,863		13,277,819	139,000
4,628	180	2,614	30	6,014	150	16,169	7,313	772	8	4,751	55
802,032	34,607	176,210	2,327	625,822	32,280	3,202,911	377,491	210,047	22,943	713,535	16,264
1,508,811	63,751	370,444	5,454	1,138,367	58,297	8,756,250	693,453	493,991	21,184	2,522,009	20,679
1.9	1.6	2.1	2.3	1.6	1.6	2.7	1.6	2.4	0.9	3.5	1.3
9.60	7.12	5.66	7.09	10.43	7.12	4.02	3.73	3.28	0.28	3.61	1.63
5.10	3.86	3.17	3.02	5.73	3.94	1.47	2.03	1.40	0.31	1.02	1.28
385		148		217		452		196		155	
80,789		13,318		67,471		1,897,916		218,350		675,459	
60,687		11,786		48,901		1,181,659		158,807		273,956	
39,322		8,125		31,197		1,213,586		171,953		536,104	
3,595		1,350		2,245		60,237		9,522		22,804	

Revised.

Data are included only in totals because less than 3 enterprises reported in the 1940 Census.

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.

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

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 18.—DRAINAGE BASIN—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND IRRIGABLE AREA, 1940, 1930, 1920; AND IRRIGATED UNITS,* MAINTENANCE AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO IRRIGATORS, AND DRAINAGE OF IRRIGATED LAND, 1939—Continued

[For the 17 western States and Arkansas and Louisiana]

ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A composite map index-number is shown in parentheses for each drainage basin)		SACRAMENTO-SAN JOAQUIN DELTA AND TRIBUTARY STREAMS (XII)—Continued			
		Sacramento River—Continued			Intrastate tributaries in California
		Pit River			
		Total	Direct (3)	Goose Lake (4)	
IRRIGATED UNITS AND AREAS					
1	Irrigated units ^a.....1939...number.....	746	487	259	48,877
2	Area irrigated.....1939...acres.....	104,361	76,226	28,155	2,368,823
3	(a) Crops and harvested.....1939...acres.....	78,537	54,252	24,285	2,167,010
4	(b) Crop failure.....1939...acres.....	2	1	1	5,041
5	(c) Pasture.....1939...acres.....	25,842	21,973	3,869	196,772
6	Area irrigated.....1929...acres.....	69,768			2,460,208
7	1919...acres.....	89,984			2,103,694
8	Increase or decrease (-), 1929-1939.....percent.....	49.6			-3.7
9	Irrigable area in enterprises.....1940...acres.....	146,114	98,305	47,809	3,615,030
10	1930...acres.....	94,151			3,838,968
11	1920 ^b ...acres.....	129,984			4,294,966
12	Excess of irrigable area over the area irrigated.....1940...acres.....	41,733	22,079	19,654	1,246,207
13	1930...acres.....	24,383			1,378,760
14	1920 ^b ...acres.....	40,000			2,191,272
15	Area works were capable of supplying with water...1940...acres.....	137,970	91,070	46,900	3,407,036
16	1930...acres.....	83,068			3,419,196
17	1920...acres.....	107,478			3,248,919
18	Increase or decrease (-), 1930-1940.....percent.....	66.1			-5.9
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	33,589	14,844	18,745	1,038,213
20	1930...acres.....	13,290			1,188,858
21	1920...acres.....	17,494			1,145,225
22	Proportion which area irrigated is of area works ^c were capable of supplying with water.....1939...percent....	75.7	83.7	60.0	69.5
23	1929...percent....	84.0			68.0
24	1919...percent....	83.7			64.8
CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises.....1940...dollars....	2,933,799	1,313,605	1,620,194	119,137,052
26	(a) Cost of irrigation works and equipment.....1940...dollars....	2,868,688	1,257,865	1,610,823	116,908,224
27	(b) Investment in water rights (reported).....1940...dollars....	65,111	55,740	9,371	2,168,828
28	Total investment in irrigation enterprises.....1930...dollars....	982,284			115,877,552
29	1920...dollars....	799,913			71,691,653
30	Increase or decrease (-), 1930-1940.....percent.....	198.7			2.8
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	21.26	14.42	34.55	34.97
32	1930...dollars....	11.83			32.02
33	1920...dollars....	7.44			22.07
34	Average investment per acre irrigated.....1939...dollars....	28.11	17.23	57.55	50.20
35	Estimated final investment in existing enterprises.....1940...dollars....	2,997,469	1,374,030	1,623,439	122,488,157
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	20.51	13.98	33.96	33.88
MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation.....1939...number.....	406	2	277	2
38	Area irrigated in these enterprises.....1939...acres.....	93,201	(2)	67,743	(2)
39	Cost of maintenance and operation.....1939...dollars....	52,970	(2)	36,100	(2)
40	Average cost, per acre irrigated.....1939...dollars....	0.57	(2)	0.53	(2)
41	Total annual charges (reported) ^d.....1939...dollars....	24,577	15,360	12,535	15,360
42	Average annual charge per acre irrigated.....1939...dollars....	0.98	1.24	0.73	1.24
43	Area against which charges were assessed.....1939...acres.....	31,598	12,387	23,223	12,387
44	Average annual charge per acre assessed.....1939...dollars....	0.78	1.24	0.54	1.24
45	Total charges collected ^e.....1939...dollars....	21,001	15,400	6,970	15,400
46	Indebtedness to December 31 (reported) ^f.....1939...dollars....	61,360	139,000	45,000	139,000
WATER DELIVERED TO IRRIGATORS, 1939					
47	Enterprises reporting water delivered.....1939...number.....	343	2	222	2
48	Area irrigated by these enterprises.....1939...acres.....	88,774	(2)	65,299	(2)
49	Water delivered.....1939...acre-feet....	210,804	(2)	146,868	(2)
50	Average water delivered per acre irrigated.....1939...acre-feet....	2.4	(2)	2.2	(2)
51	Average cost of water per acre irrigated.....1939...dollars....	0.61	(2)	0.57	(2)
52	Average cost of water per acre-foot delivered.....1939...dollars....	0.26	(2)	0.25	(2)
DRAINAGE OF IRRIGATED LAND					
53	Enterprises reporting land drained or needing drainage.....1939...number.....	38		35	
54	Irrigable area in these enterprises.....1939...acres.....	13,474		13,244	
55	Irrigated area in these enterprises.....1939...acres.....	10,550		10,411	
56	Area for which drains have been installed.....1939...acres.....	8,400		8,400	
57	Additional area needing drainage.....1939...acres.....	398		340	

^a Schedules called for "Number of farms," see explanation in text.^b For 1920 relates to total area in enterprises. Irrigable area for that year was not reported.^c Data are included only in totals because less than 3 enterprises reported in the 1940 Census.^d 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.^e Annual charges and indebtedness were reported only by enterprises serving 5 or more units, and items 41 to 46, inclusive, relate to those enterprises only.