

TABULAR AND GRAPHIC PRESENTATION

TABLE 7.—LENGTH OF CANALS, 1900 TO 1940; CAPACITY OF CANALS AT MAIN HEADINGS, AND NUMBER AND
(For the 17 western States and Arkansas and

STATE	CANALS ¹									
	Length (miles)					Capacity at main headings (second-feet)				
	1900	1910	1920	1930	1940	1910	1920	1930	1940	
1 Summary (19 States)	44,555	127,950	159,864	126,802	127,535.7	618,097	651,079	547,514	612,021	
2 Arizona	1,492	2,597	5,568	5,974	4,178.2	17,200	11,707	13,697	13,258	
3 Arkansas		151	86	51	77.9	(²)	1,205	1,845	270	
4 California	5,106	21,129	27,594	18,602	19,799.1	89,597	115,237	84,944	91,776	
5 Colorado	7,374	22,570	27,595	21,581	19,864.0	148,485	119,558	125,652	159,780	
6 Idaho	4,977	12,759	17,298	14,544	15,602.1	80,458	86,275	76,765	71,510	
7 Kansas	324	316	418	285	292.5	2,600	1,667	2,079	5,547	
8 Louisiana	586	1,168	5,245	2,226	2,421.0	(²)	11,889	11,535	10,535	
9 Montana	6,812	16,954	22,496	15,957	15,702.5	85,849	94,429	53,253	66,745	
10 Nebraska	1,701	2,728	5,525	5,465	5,531.3	9,378	11,665	13,106	14,256	
11 Nevada	2,859	5,151	4,568	4,155	2,897.2	17,579	10,554	16,986	22,950	
12 New Mexico	2,562	5,854	5,952	4,466	4,847.9	29,645	25,452	17,479	16,821	
13 North Dakota	(²)	128	151	87	159.2	2,161	686	1,072	616	
14 Oklahoma	68	85	57	24	42.2	155	544	77	277	
15 Oregon	2,285	7,591	9,071	6,177	8,516.0	59,686	26,897	25,906	57,290	
16 South Dakota	225	1,256	1,258	1,062	1,049.5	5,598	5,427	1,995	1,948	
17 Texas	450	2,705	4,475	4,678	5,956.1	12,818	25,261	21,626	24,813	
18 Utah	2,868	7,709	11,677	9,257	9,004.5	25,061	29,447	80,648	54,579	
19 Washington	806	5,892	5,615	5,655	4,248.6	13,178	16,242	14,987	15,104	
20 Wyoming	4,454	15,251	12,051	10,775	11,762.1	42,650	59,009	55,811	46,566	

¹Reported as main canals and ditches, Census of 1900; and as canals (main and laterals, not including farm ditches), Censuses of 1920, 1930, and 1940.
²Not available.

TABLE 8.—AREAS, CAPITAL INVESTED, AVERAGE INVESTMENT PER ACRE, AND PROPORTIONS OF TOTALS, BY TYPE OF ENTERPRISE: 1890 TO 1940
(Statistics for chart XII covering the 17 western States and Arkansas and Louisiana)

TYPE OF ENTERPRISE (For definitions and explanations, see text)	CENSUS OF—												
	1890 ¹	1900 ¹	1910		1920		1930		1940				
	All enter- prises	All enter- prises	All enter- prises	Proportion of total	All enter- prises	Proportion of total	All enter- prises	Proportion of total	All enter- prises	Proportion of total	Increase or decrease (-) 1930- 1940	Primary enter- prises	Supple- mental enter- prises ²
Total	5,715,945	7,744,492	14,455,285	100.0	19,191,716	100.0	19,547,544	100.0	21,005,759	100.0	7.4	21,005,759	3,287,210
Individual and partnership	(³)	(³)	6,594,614	45.7	8,848,807	55.7	6,410,581	32.8	7,514,152	34.8	14.1	7,514,152	596,171
Cooperatives	(³)	(³)	4,645,539	32.2	6,581,400	34.5	6,271,554	32.1	6,652,488	31.7	6.1	6,652,488	858,588
Irrigation district	(³)	(³)	528,642	3.7	1,822,887	9.5	5,452,275	27.7	5,514,702	26.7	1.8	5,514,702	211,470
Commercial	(³)	(³)	1,809,579	12.5	1,822,001	9.5	1,250,765	6.5	1,017,781	4.8	-17.5	1,017,781	128,288
U. S. Bureau of Reclamation	(³)	(³)	595,646	2.7	1,254,569	6.5	1,465,028	7.6	1,824,004	8.7	22.8	1,824,004	1,460,470
All other ⁴	(³)	(³)	461,465	5.2	862,052	4.5	697,563	3.5	680,612	3.5	-2.4	680,612	32,475
AREA IRRIGATED													
Total	Acres (³)	Acres (³)	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Percent	Acres	Acres
Individual and partnership	(³)	(³)	8,066,766	39.9	9,255,756	35.6	7,982,142	30.6	9,655,198	34.3	20.7	9,655,198	798,506
Cooperatives	(³)	(³)	6,191,577	50.5	8,408,298	52.5	7,861,081	30.1	7,996,256	28.5	1.7	7,996,256	990,411
Irrigation district	(³)	(³)	800,451	5.9	2,531,425	9.7	4,846,095	18.6	4,869,595	17.7	2.5	4,869,595	451,677
Commercial	(³)	(³)	2,954,166	14.6	2,799,565	10.8	2,180,950	8.5	1,961,202	7.0	-9.2	1,961,202	232,804
U. S. Bureau of Reclamation	(³)	(³)	786,190	5.9	1,680,645	6.5	1,944,825	7.4	2,549,967	8.4	20.8	2,549,967	1,762,721
All other ⁴	(³)	(³)	1,466,253	7.2	1,349,792	5.1	1,506,797	5.0	1,145,250	4.1	-12.4	1,145,250	32,475
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER													
Total	Acres (³)	Acres (³)	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Percent	Acres	Acres
Individual and partnership	(³)	(³)	8,066,766	39.9	9,255,756	35.6	7,982,142	30.6	9,655,198	34.3	20.7	9,655,198	798,506
Cooperatives	(³)	(³)	6,191,577	50.5	8,408,298	52.5	7,861,081	30.1	7,996,256	28.5	1.7	7,996,256	990,411
Irrigation district	(³)	(³)	800,451	5.9	2,531,425	9.7	4,846,095	18.6	4,869,595	17.7	2.5	4,869,595	451,677
Commercial	(³)	(³)	2,954,166	14.6	2,799,565	10.8	2,180,950	8.5	1,961,202	7.0	-9.2	1,961,202	232,804
U. S. Bureau of Reclamation	(³)	(³)	786,190	5.9	1,680,645	6.5	1,944,825	7.4	2,549,967	8.4	20.8	2,549,967	1,762,721
All other ⁴	(³)	(³)	1,466,253	7.2	1,349,792	5.1	1,506,797	5.0	1,145,250	4.1	-12.4	1,145,250	32,475
CAPITAL INVESTED													
Total	Dollars	Dollars	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Percent	Dollars	Dollars
Individual and partnership	(³)	(³)	(³)	(³)	154,654,169	22.2	187,867,180	21.0	187,562,750	17.8	-0.5	170,568,781	17,015,999
Cooperatives	(³)	(³)	(³)	(³)	185,041,500	26.2	179,529,962	20.1	224,140,676	21.5	25.0	205,062,550	19,056,526
Irrigation district	(³)	(³)	(³)	(³)	88,573,514	12.7	210,755,476	25.6	265,787,810	25.8	26.1	260,701,900	5,055,910
Commercial	(³)	(³)	(³)	(³)	85,755,470	12.3	62,851,714	7.0	66,243,825	6.3	6.2	59,250,005	6,989,820
U. S. Bureau of Reclamation	(³)	(³)	(³)	(³)	129,509,819	18.6	198,989,576	21.7	250,245,359	23.8	29.0	211,046,185	39,199,228
All other ⁴	(³)	(³)	(³)	(³)	56,162,856	8.0	58,488,982	6.6	58,298,603	5.5	-0.3	57,458,946	869,657
AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER													
Total	Dollars	Dollars	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Percent	Dollars	Dollars
Individual and partnership	(³)	(³)	(³)	xxx	16.71	xxx	25.54	xxx	xxx	xxx	xxx	17.69	21.51
Cooperatives	(³)	(³)	(³)	xxx	21.78	xxx	22.81	xxx	xxx	xxx	xxx	25.65	19.24
Irrigation district	(³)	(³)	(³)	xxx	54.89	xxx	45.49	xxx	xxx	xxx	xxx	52.46	11.15
Commercial	(³)	(³)	(³)	xxx	50.62	xxx	28.85	xxx	xxx	xxx	xxx	50.21	50.04
U. S. Bureau of Reclamation	(³)	(³)	(³)	xxx	77.06	xxx	99.75	xxx	xxx	xxx	xxx	69.61	22.24
All other ⁴	(³)	(³)	(³)	xxx	41.61	xxx	44.75	xxx	xxx	xxx	xxx	50.15	26.47

¹Census of Agriculture. ²Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not added again into the totals (see text). ³Data not separated by type of enterprise. ⁴Includes Reclamation district office of Indian Affairs, State, City and/or sewage, and other. ⁵Revised. ⁶Based on area irrigated.

SPECIFIED IRRIGATION CENSUS STATISTICS

YIELD OF PUMPED WELLS, 1910 TO 1940; AND AVERAGE PUMPING LIFT FROM PUMPED WELLS, 1940; BY STATES

Louisiana. See chart XIII for pumped wells)

PUMPED WELLS													
Total (number)				Yield (gallons per minute)								Average pumping lift (feet) 1940	
1910	1920	1930	1940	Total				Average per well					
				1910	1920	1930	1940	1910	1920	1930	1940		
15,971	52,094	56,729	68,279	7,246,699	16,596,549	32,467,120	43,555,271	454	511	572	655	55	1
470	999	1,598	1,858	765,921	1,042,590	1,852,552	2,508,557	1,650	1,044	1,511	1,550	82	2
507	1,069	1,160	1,534	268,829	1,470,147	1,641,448	1,812,647	876	1,350	1,379	1,182	64	3
10,724	25,401	46,737	48,568	4,119,575	10,608,476	24,266,187	28,297,969	384	418	519	585	57	4
121	527	654	2,878	55,564	210,094	257,905	1,929,798	445	599	564	671	53	5
24	55	121	509	2,826	17,749	34,601	225,164	118	335	266	729	29	6
959	710	772	1,658	75,562	266,797	523,500	865,663	78	376	419	527	58	7
606	812	1,589	1,504	1,108,256	1,607,637	1,958,811	1,526,615	1,829	1,980	1,410	1,015	45	8
10	22	49	102	5,265	11,085	18,653	35,883	526	504	581	552	24	9
86	54	537	2,412	3,565	24,701	428,058	2,053,184	51	726	797	851	34	10
6	129	147	167	1,549	6,798	54,162	50,938	225	53	368	505	31	11
466	461	680	1,487	190,690	265,618	481,898	1,145,276	409	576	709	769	46	12
1			11	15			578	15			54	25	13
65	19	18	77	1,791	5,643	2,715	15,488	28	192	151	201	48	14
92	208	558	901	20,885	47,026	136,669	209,289	227	226	245	232	35	15
4	1	1	16	24	800	375	1,059	6	800	375	65	55	16
1,912	901	1,102	3,396	567,126	558,565	614,595	2,215,230	297	598	558	652	82	17
27	182	546	286	4,827	59,059	120,535	122,528	179	203	348	428	58	18
128	520	1,019	1,041	60,220	227,744	506,800	287,527	470	438	501	276	43	19
3	16	11	94	855	8,020	8,280	60,522	278	501	753	644	46	20

TABLE 9.—LENGTH OF CANALS, 1902, 1920, 1930, AND 1940; CAPACITY OF CANALS AT MAIN HEADINGS, AND NUMBER AND YIELD OF PUMPED WELLS, 1920 TO 1940; AND AVERAGE PUMPING LIFT FROM WELLS, 1940; BY SPECIFIED DRAINAGE BASINS

(For the 17 western States and Arkansas and Louisiana)

DRAINAGE BASIN	CANALS							PUMPED WELLS									
	Length (miles)				Capacity at main headings (sec.-ft.)			Total (number)			Yield (gallons per minute)						Average pumping lift (feet) 1940
	1902	1920	1930	1940	1920	1930	1940	1920	1930	1940	Total			Average per well			
											1920	1930	1940	1920	1930	1940	
Summary (19 States)	58,880	159,864	126,802	127,533.7	651,079	547,514	612,021	52,094	56,729	68,279	16,596,549	32,467,120	43,555,271	511	572	655	55
Red River (of the North) ¹	6		1	23.9		2	565										
Missouri River, summary	17,302	59,599	50,612	51,151.1	167,891	130,175	148,255	585	1,071	4,760	171,464	615,550	5,655,499	445	575	763	35
Yellowstone River	3,980	8,853	8,015	8,162.6	32,064	29,539	52,035	6	4	28	1,005	555	6,613	168	159	236	44
Platte River	6,769	14,961	12,618	13,422.2	67,544	66,838	72,454	515	956	4,277	143,904	560,450	5,553,350	460	588	784	35
All other tributaries	6,555	15,805	9,979	9,546.5	68,485	33,796	43,766	66	111	455	26,555	52,345	275,536	402	472	601	46
Mississippi River, exclusive of Missouri River, summary	3,050	8,286	5,518	4,858.6	41,974	49,701	49,858	2,085	2,216	4,428	1,876,940	2,104,516	3,495,820	900	950	789	62
Arkansas River	3,050	7,691	5,275	4,423.7	39,166	46,577	48,217	1,554	1,343	2,529	954,452	999,536	1,497,906	690	744	592	45
All other tributaries		575	243	414.9	2,808	5,124	1,641	731	875	1,899	942,588	1,104,780	1,995,914	1,289	1,265	1,051	77
Gulf of Mexico streams other than Mississippi River and Rio Grande	1,557	4,886	3,792	4,569.8	20,951	18,608	18,860	1,615	2,563	4,158	2,072,580	2,495,111	3,210,785	1,283	1,055	772	62
Rio Grande, summary	3,255	9,732	9,581	8,702.9	40,424	38,609	43,851	503	751	1,712	286,143	498,651	1,291,071	569	682	754	48
Pecos River	853	2,062	1,175	998.1	5,619	5,920	7,164	287	342	858	174,958	262,546	756,153	610	768	858	49
All other tributaries	2,382	7,650	8,206	7,704.8	34,805	34,689	36,687	216	589	854	111,205	236,085	554,918	515	607	650	46
Colorado River, summary	8,376	22,586	20,185	20,894.1	66,306	68,322	81,035	1,128	1,196	2,395	1,095,724	1,772,812	2,758,985	971	1,482	1,152	58
Upper Colorado River ²	6,191	18,752	15,874	13,964.3	54,457	55,169	57,900	6	22	15	3,000	15,643	500	711	141	20	20
Green River	2,127	6,703	5,794	5,743.9	16,875	17,145	21,496	1	5	11	1,350	410	920	1,350	137	84	58
Lower Colorado River ^{2,3}	2,185	3,854	4,511	6,929.8	11,869	13,153	23,133	1,122	1,174	2,362	1,092,724	1,757,169	2,757,153	974	1,497	1,157	58
Great Basin, summary	8,445	17,665	12,753	10,757.6	57,409	50,745	57,949	870	2,707	1,506	273,094	1,321,596	653,078	514	498	500	76
Bonneville Lake	3,354	10,504	6,806	7,559.2	29,281	25,104	28,428	124	213	505	50,820	75,907	129,711	247	347	425	39
Lahontan Lake ⁴	5,091	7,561	5,947	3,418.4	28,128	25,639	29,521	746	2,494	1,001	242,474	1,247,489	525,367	525	500	525	88
Columbia River, summary	10,575	32,799	26,919	27,535.0	154,536	115,085	121,457	752	1,668	1,972	277,555	464,026	687,659	369	279	349	59
Snake River	6,865	20,071	16,904	16,397.2	95,846	85,164	86,012	130	229	418	40,937	70,236	256,972	515	507	615	24
All other tributaries	3,710	12,728	10,015	11,137.8	58,690	29,921	35,445	622	1,434	1,554	256,598	595,790	450,667	580	275	277	45
Klamath River	951	1,726	1,698	1,804.5	8,878	5,900	9,179	16	14	56	5,975	21,442	29,509	373	1,582	527	57
Sacramento-San Joaquin Delta and tributary streams	4,221	19,428	15,514	15,202.8	79,142	64,374	72,735	14,657	31,744	52,418	6,584,882	16,750,369	20,042,295	436	527	618	43
Pacific Ocean streams, exclusive of Gulf of California streams and Columbia and Klamath Rivers and Sacramento-San Joaquin Delta and tributary streams	1,582	5,049	2,622	1,947.6	15,035	5,789	7,995	9,874	12,814	14,932	3,879,505	6,385,210	7,509,059	595	498	503	82
Whitewater Draw and Vamori Wash (Gulf of California) ¹		128	7	26.0	555	10	484	209	210	142	72,787	62,457	45,537	348	297	321	57

¹ Not shown graphically.

² Data for Census of 1950 shown in published Census reports under "Other tributaries of Colorado River" are allocated, 85 percent to the Upper Colorado River Drainage Basin and 15 percent to the Lower Colorado River Drainage Basin.

³ Includes Imperial Valley.

⁴ Includes unidentified independent streams.