

## TABULAR AND GRAPHIC PRESENTATION

TABLE 5.—AREA IRRIGATED, 1909 TO 1939; AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE, AND AVERAGE ANNUAL COST PER ACRE OF MAINTENANCE AND OPERATION OF

(For the 17 western States and

STATES	AREA IRRIGATED					AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER				AREA IRRIGABLE			
	1909 (Acres)	1919 (Acres)	1929 (Acres)	1939		1920 (Acres)	1930 (Acres)	1940		1920 <sup>2</sup> (Acres)	1930 (Acres)	1940 (Acres)	
				Primary (Acres)	Supplemental (Acres)			Primary (Acres)	Supplemental (Acres)				
SURFACE SOURCES (STREAMS, LAKES, AND SPRINGS, GRAVITY OR													
1	Summary (19 States)	15,755,445	16,586,422	15,344,803	16,653,782	2,762,340	22,510,141	20,844,073	22,170,892	3,566,910	50,332,521	24,796,758	24,896,591
2	Arizona	512,466	199,546	174,608	123,674	58,151	512,644	282,084	161,926	91,137	422,339	468,057	220,652
3	Arkansas	3,555	8,619	1,577	7,254	59	7,810	1,917	11,967	50	8,050	2,672	16,827
4	California	2,515,581	3,020,697	2,510,659	2,558,654	99,895	4,289,855	3,851,490	4,087,433	140,313	5,516,870	4,865,274	4,558,694
5	Colorado	2,785,750	3,082,467	3,196,102	3,085,448	519,025	3,546,394	3,864,283	3,749,967	606,357	4,579,327	4,297,355	4,112,378
6	Idaho	1,428,971	2,427,341	2,065,971	2,168,964	906,945	3,002,625	2,471,610	2,470,701	1,048,987	3,650,932	2,663,372	2,741,987
7	Kansas	55,518	52,157	56,792	49,531	237	44,094	62,269	70,488	237	44,490	75,198	71,904
8	Louisiana	226,574	261,427	265,246	290,154	150	492,528	526,178	505,937	557	551,060	552,497	527,135
9	Montana	1,678,822	1,585,784	1,513,959	1,695,787	168,806	2,579,103	2,174,494	2,827,699	254,211	4,077,527	2,508,432	2,571,400
10	Nebraska	255,611	440,782	505,648	519,043	156,085	559,140	667,953	852,515	292,990	761,302	724,951	948,212
11	Nevada	701,646	509,959	457,243	700,214	84,204	635,077	672,986	797,857	125,240	1,236,183	901,665	869,898
12	New Mexico	406,889	455,532	444,655	426,209	92	591,568	561,637	563,698	132	810,157	643,804	623,822
13	North Dakota	10,247	12,007	8,861	21,588	—	34,145	23,475	36,469	—	57,586	24,079	59,505
14	Oklahoma	4,519	2,716	734	2,934	—	9,333	6,329	5,281	—	11,583	6,329	9,325
15	Oregon	684,669	871,900	764,625	1,011,345	104,267	1,201,343	993,977	1,215,432	140,665	1,576,996	1,264,767	1,595,280
16	South Dakota	61,792	96,168	66,021	58,693	—	141,965	108,329	118,499	—	177,870	121,269	120,289
17	Texas	595,548	516,725	710,633	757,239	66,849	1,037,140	1,063,012	1,510,626	189,171	1,501,064	1,429,078	1,707,457
18	Utah	995,010	1,185,065	1,147,995	1,121,321	320,369	1,478,877	1,328,324	1,296,806	367,297	2,098,681	1,507,074	1,366,800
19	Washington	325,714	487,247	461,227	580,122	183,789	580,626	568,796	687,091	218,130	763,648	664,859	790,162
20	Wyoming	1,153,163	1,174,315	1,194,177	1,475,628	93,437	1,768,094	1,596,750	1,800,720	162,946	2,487,476	1,877,806	2,228,826
UNDERGROUND SOURCES (WELLS)													
1	Summary (19 States)	653,761	1,364,639	2,117,012	2,370,592	524,870	1,797,299	2,542,637	3,697,063	701,484	2,572,264	2,808,727	3,848,569
2	Arizona	7,585	41,810	106,002	146,496	15,655	62,484	151,209	204,332	22,194	108,178	185,583	234,456
3	Arkansas	24,598	135,260	142,978	149,815	502	168,548	199,849	288,145	1,216	235,620	215,144	289,343
4	California	350,725	868,080	1,484,960	1,513,302	355,447	1,117,383	1,661,072	2,080,023	494,237	1,580,740	1,617,884	2,136,037
5	Colorado	8,282	14,390	15,929	65,509	108,990	20,536	20,044	85,995	131,875	27,819	23,352	87,498
6	Idaho	1,877	1,545	5,569	8,395	3,057	1,754	6,660	11,343	3,895	4,395	7,709	12,872
7	Kansas	1,961	13,285	11,651	45,058	13,429	20,579	18,072	64,041	18,926	55,054	18,657	67,327
8	Louisiana	109,547	155,575	175,787	156,778	2,429	211,315	243,720	222,632	3,985	261,147	270,377	230,994
9	Montana	262	551	1,064	1,542	57	556	1,462	1,733	58	917	1,570	1,819
10	Nebraska	159	546	23,452	81,034	15,548	1,148	30,922	126,888	23,750	1,228	33,172	153,431
11	Nevada	187	1,171	3,426	3,409	518	1,604	8,751	4,915	605	7,455	10,292	6,098
12	New Mexico	54,829	52,295	58,118	98,818	5,081	63,987	84,104	150,601	5,780	102,615	65,475	136,954
13	North Dakota	1	—	—	47	—	—	—	53	—	—	—	53
14	Oklahoma	69	125	65	792	—	156	66	1,143	—	156	79	1,346
15	Oregon	1,460	2,405	5,891	8,328	703	2,904	4,500	12,014	893	3,499	4,798	12,568
16	South Dakota	1,456	130	528	701	—	130	533	760	—	250	548	910
17	Texas	57,762	44,466	62,624	266,864	60	80,648	84,680	434,413	60	122,701	100,898	443,611
18	Utah	4,400	12,394	19,655	15,858	2,625	16,908	21,993	19,667	2,987	30,086	25,278	21,492
19	Washington	8,664	20,665	20,995	19,999	875	24,271	24,755	25,789	879	50,211	27,147	27,458
20	Wyoming	189	166	320	3,467	144	188	445	4,566	144	213	586	5,122
OTHER AND MIXED													
1	Summary (19 States)	44,079	1,440,655	2,085,729	1,779,565	—	1,913,037	2,715,180	2,187,293	—	2,986,036	2,995,965	2,558,769
2	Arizona	—	226,209	294,980	385,093	—	252,175	590,859	477,954	—	282,656	432,007	649,537
3	Arkansas	—	2,067	7,232	4,432	—	2,655	8,176	7,653	—	2,810	8,176	10,259
4	California	—	530,285	971,013	991,612	—	487,248	1,302,688	1,231,120	—	707,597	1,392,757	1,566,444
5	Colorado	—	251,528	181,388	71,728	—	288,598	194,385	79,580	—	613,442	207,544	85,374
6	Idaho	—	59,920	109,710	100,498	—	88,431	158,751	111,490	—	124,721	142,767	115,164
7	Kansas	—	1,890	2,847	5,391	—	3,180	3,242	7,880	—	3,038	3,664	7,995
8	Louisiana	—	17,880	11,868	20,163	—	24,899	25,267	31,546	—	39,004	27,527	55,547
9	Montana	—	95,594	79,889	14,080	—	173,859	100,044	14,958	—	250,904	112,421	14,995
10	Nebraska	—	1,362	5,317	10,302	—	2,180	4,766	13,754	—	4,238	4,916	13,924
11	Nevada	—	50,317	25,979	56,240	—	69,827	54,512	58,552	—	158,598	71,740	59,695
12	New Mexico	—	52,550	24,260	29,012	—	40,764	30,928	37,691	—	49,127	31,988	46,880
13	North Dakota	—	65	531	—	—	90	591	—	—	90	761	—
14	Oklahoma	—	128	776	434	—	203	956	2,200	—	203	956	2,223
15	Oregon	—	111,857	150,197	29,503	—	159,799	159,933	35,635	—	345,492	208,543	35,609
16	South Dakota	—	4,384	488	804	—	8,819	488	2,588	—	10,262	693	2,762
17	Texas	—	24,929	25,660	21,121	—	32,754	29,723	28,773	—	63,682	36,900	29,548
18	Utah	—	174,222	156,473	58,873	—	202,785	192,158	41,241	—	230,477	207,517	42,241
19	Washington	—	21,987	17,061	14,892	—	32,254	19,960	18,637	—	42,856	23,375	19,496
20	Wyoming	—	53,503	41,658	7,403	—	62,757	57,833	8,241	—	76,979	79,775	43,098

<sup>1</sup>Based on the area irrigated in enterprises reporting cost of maintenance and operation in the crop year enumerated.<sup>2</sup>Total area in enterprises. Area irrigable not reported in 1920.<sup>3</sup>Contains \$100,000 for which no acreage was reported and which was not included in computing average investment per acre.<sup>4</sup>States reporting less than 100,000 acres, area works were capable of supplying with water, in 1940 not shown graphically.<sup>5</sup>Revised.<sup>6</sup>Other and mixed sources in Arizona and California are largely for enterprises reporting streams, gravity or pumped, with wells pumped.

SPECIFIED IRRIGATION CENSUS STATISTICS

CAPITAL INVESTED, AND AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1920 TO 1940; IRRIGATION ENTERPRISES, 1919 TO 1939; BY SOURCE OF WATER SUPPLY, BY STATES

Arkansas and Louisiana. See chart XI)

CAPITAL INVESTED, JANUARY 1					AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER					AVERAGE ANNUAL COST PER ACRE OF MAINTENANCE AND OPERATION <sup>1</sup>				
1920 (Dollars)	1930 (Dollars)	1940			1920 (Dollars)	1930 (Dollars)	1940			1919 (Dollars)	1929 (Dollars)	1939		
		Total (Dollars)	Primary (Dollars)	Supplemental (Dollars)			Total (Dollars)	Primary (Dollars)	Supplemental (Dollars)			Primary (Dollars)	Supplemental (Dollars)	
PUMPED, STORED STORM WATER, AND WASTE WATER) OF WATER SUPPLY														
553,723,689	589,676,749	744,435,919	672,917,002	71,518,917	23.92	28.29	33.58	30.55	20.05	1.73	1.64	1.27	0.36	1
12,596,094	21,730,456	14,418,570	12,420,810	1,997,560	39.64	77.04	89.04	76.71	21.82	2.59	3.51	1.97	1.89	2
111,324	32,575	180,252	179,902	550	14.25	16.99	15.06	15.08	7.00	7.85	6.14	5.06	7.69	3
106,147,114	111,448,117	124,316,662	118,748,821	5,567,861	24.74	28.94	30.41	29.05	39.68	2.35	2.89	2.15	1.39	4
75,509,625	85,206,854	101,824,106	89,321,241	12,002,865	20.75	22.05	27.15	23.95	19.80	0.87	0.85	0.58	0.56	5
89,148,755	82,264,498	99,740,085	86,505,491	13,454,592	29.69	33.28	40.37	34.95	12.80	1.15	1.43	0.98	0.22	6
1,257,816	947,879	768,696	767,896	800	28.55	15.22	10.91	10.89	3.38	1.74	0.97	1.26	0.58	7
8,501,068	8,925,848	6,707,445	6,706,017	1,428	16.85	16.99	13.25	13.25	4.00	7.53	3.62	3.75	0.95	8
50,554,567	48,409,882	67,006,643	61,537,816	5,468,827	19.52	22.26	28.79	26.44	23.35	1.26	0.87	0.71	0.12	9
15,845,282	20,715,880	36,654,746	34,028,969	2,595,777	24.58	31.01	42.98	39.94	8.86	1.48	1.43	1.07	0.63	10
13,588,332	14,371,337	16,272,427	12,830,961	3,441,466	21.46	21.35	20.40	18.08	27.92	0.89	0.85	0.42	0.45	11
14,523,385	16,811,289	28,009,265	28,007,132	2,131	24.56	29.93	49.69	49.68	16.14	1.65	1.87	1.80	0.59	12
1,856,618	1,254,039	1,752,569	1,752,569	---	54.37	53.42	48.05	48.05	---	5.50	1.97	1.40	---	13
95,250	132,820	129,077	129,077	---	10.21	20.95	24.44	24.44	---	1.68	8.18	2.10	---	14
23,940,423	29,547,066	49,246,537	45,052,846	4,193,691	19.95	29.73	40.52	37.07	29.81	1.18	1.27	1.12	0.68	15
5,391,253	4,466,042	5,347,447	5,347,447	---	37.98	41.33	45.13	45.13	---	1.26	1.35	1.25	---	16
50,401,891	43,300,579	58,850,985	56,691,797	2,139,188	29.51	40.73	44.89	45.26	15.37	6.68	4.49	4.12	0.64	17
28,832,527	31,265,939	40,474,786	27,862,277	12,602,509	19.50	23.54	31.23	21.51	34.31	1.09	0.93	0.73	0.25	18
26,423,472	35,325,731	52,166,332	45,665,158	6,503,174	45.51	60.20	75.92	66.46	29.81	2.98	3.25	2.46	0.35	19
33,603,663	33,500,118	40,589,675	39,022,975	1,566,698	19.01	20.98	21.35	20.53	9.61	1.04	0.84	0.56	0.34	20

FLOWING AND/OR PUMPED) OF WATER SUPPLY \*

82,180,666	144,975,284	139,878,812	143,256,791	16,642,021	45.72	57.02	43.24	38.74	23.72	9.84	9.92	6.88	3.83	1
5,587,975	8,939,032	10,328,634	9,814,964	513,670	57.42	59.12	50.55	48.03	23.14	12.82	10.70	7.91	3.51	2
7,028,773	6,640,773	5,429,033	5,414,533	14,500	41.70	33.23	20.25	20.19	11.92	14.06	7.04	5.33	4.69	3
58,640,694	111,174,365	119,346,637	106,189,336	15,157,321	50.69	66.93	57.38	51.05	27.17	10.50	11.25	8.46	4.35	4
435,828	585,303	3,373,470	1,338,114	1,975,358	21.20	29.20	40.16	16.65	14.88	3.38	4.48	3.74	2.96	5
58,587	203,990	342,745	226,505	116,240	33.40	30.65	30.22	19.97	29.84	3.01	2.69	2.59	2.53	6
745,585	648,238	1,275,015	1,018,920	258,095	36.23	35.87	19.91	15.91	13.53	6.96	3.92	5.55	2.21	7
5,394,448	6,282,365	4,324,076	4,308,803	15,273	23.53	23.78	19.42	19.35	3.83	5.93	4.44	3.48	1.55	8
26,292	23,284	48,731	48,031	700	47.29	15.93	28.12	27.72	12.07	6.80	3.06	4.48	15.00	9
23,250	616,939	2,260,097	1,991,453	268,644	20.25	19.95	17.81	15.69	11.31	5.16	4.03	3.48	1.44	10
75,975	301,133	285,229	213,344	71,885	42.11	34.41	58.03	43.41	118.82	17.25	4.63	1.85	1.96	11
2,533,687	2,441,540	3,238,644	3,134,071	104,375	39.60	38.09	24.80	24.00	18.08	5.27	5.39	3.91	2.01	12
52,075	12,225	87,265	3,120	3,120	382.90	185.23	76.35	76.35	---	46.10	14.30	6.48	---	13
127,806	256,265	545,944	504,697	41,247	44.01	59.60	45.44	42.01	46.19	8.24	10.54	6.34	6.73	14
5,000	6,000	21,250	21,250	---	38.46	11.26	27.96	27.96	---	---	0.33	2.19	---	15
3,286,855	4,086,533	6,657,288	6,655,588	1,700	40.76	48.26	15.32	15.32	28.33	10.98	8.37	5.09	1.67	17
338,814	754,403	616,996	74,119	74,119	17.92	34.30	51.37	27.60	24.81	2.08	2.97	2.04	2.00	18
1,803,934	1,993,028	1,379,630	1,549,232	30,398	74.32	80.51	61.23	60.05	34.58	11.23	15.36	9.32	4.50	19
15,090	9,250	114,988	114,688	300	80.27	20.79	25.18	25.12	2.06	7.95	23.56	4.43	0.69	20

SOURCES OF WATER SUPPLY \*

61,752,975	158,103,757	147,734,470	147,734,470	---	42.73	58.23	67.54	67.54	---	3.39	4.03	3.57	---	1
17,517,025	42,658,709	58,779,604	58,779,604	---	69.46	109.14	122.98	122.98	---	2.77	3.08	4.69	---	2
45,225	163,300	157,610	157,610	---	16.28	19.97	20.59	20.59	---	6.39	6.99	3.54	---	3
32,098,580	88,345,499	75,225,879	75,225,879	---	65.88	67.82	61.10	61.10	---	8.38	6.13	5.87	---	4
14,556,989	1,811,103	1,631,767	1,631,767	---	49.78	9.32	20.76	20.76	---	0.92	0.58	1.09	---	5
2,295,667	2,031,866	2,502,970	2,502,970	---	25.94	14.64	22.45	---	---	1.85	1.60	1.66	---	6
65,982	89,535	110,175	110,175	---	20.12	27.62	13.98	13.98	---	1.63	9.50	5.01	---	7
367,645	535,950	533,992	533,992	---	14.77	21.21	17.04	17.04	---	7.79	9.55	3.00	---	8
1,762,704	1,886,038	297,131	297,131	---	10.14	18.85	19.86	19.86	---	1.04	0.81	0.95	---	9
42,633	53,500	161,364	161,364	---	19.57	11.23	11.73	11.73	---	2.65	1.25	1.29	---	10
1,089,973	785,461	349,134	349,134	---	15.61	14.41	9.06	9.06	---	1.54	1.41	0.37	---	11
1,133,340	581,551	1,488,090	1,488,090	---	28.29	18.80	39.48	39.48	---	6.29	-1.93	0.84	---	12
800	13,275	---	---	---	5.56	25.00	---	---	---	---	---	---	---	13
4,000	15,254	55,844	55,844	---	19.70	16.50	25.38	25.38	---	10.00	4.91	9.90	---	14
4,860,822	8,951,197	1,168,770	1,168,770	---	34.77	55.97	34.75	34.75	---	1.21	1.93	1.54	---	15
68,985	10,075	26,913	26,913	---	7.82	20.65	10.40	10.40	---	1.14	0.09	2.63	---	16
1,585,993	1,635,032	933,103	933,103	---	42.25	55.01	33.12	33.12	---	6.15	4.54	2.78	---	17
2,885,600	3,649,477	784,750	784,750	---	14.13	18.99	19.03	19.03	---	0.94	1.36	1.21	---	18
1,071,605	3,245,136	2,669,234	2,669,234	---	33.22	162.48	143.22	143.22	---	9.19	15.60	6.46	---	19
707,575	1,643,819	816,140	816,140	---	11.27	28.42	99.28	99.28	---	1.25	0.88	0.99	---	20