STATE REPORTS WITH STATISTICS FOR COUNTIES (Section D)

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

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State.....acres....	[*] 72,691,200	72,838,400	72,838,400	72,838,400	[1] 72,838,400	72,857,600	72,857,600
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated).....number...	18,468	18,824	14,173	9,975	9,227	5,809	1,126
Land in all farms.....acres....	25,651,092	14,018,540	10,526,627	5,802,126	1,246,613	1,935,327	1,297,038
Farms irrigated: [2]							
Farms.....number...	10,339	10,050	8,523	6,605	4,841	2,981	1,075
Increase or decrease (-) over preceding census....percent..	[3] 21.3	.....	29.0	36.4	62.4	177.3	.....
Proportion of all farms.....percent..	56.0	53.4	60.1	66.2	52.5	51.3	75.1
Land in farms.....acres....	5,274,470	(4)	2,963,784	(4)	(4)	(4)	(4)
Proportion of all farm land.....percent..	20.6	(4)	28.3	(4)	(4)	(4)	(4)
Area irrigated.....acres....	[5] 575,464	[6] 430,056	[7] 448,806	(8)	(8)	185,396	65,821
Increase or decrease (-) over preceding census....percent..	[3] 28.2	.....	.....	.....	.....	181.7	.....
Proportion of total land area of State.....percent..	0.8	0.6	0.6	.....	.....	0.3	0.1
Proportion of all farm land.....percent..	2.2	3.1	4.3	.....	.....	9.1	5.1
Value of irrigated farms (land and buildings).....dollars..	115,309,610	(4)	149,154,077	(4)	(4)	(4)	(4)
Average per farm.....dollars..	11,152.88	(4)	17,500.19	(4)	(4)	(4)	(4)
Average per acre.....dollars..	21.86	(4)	49.99	(4)	(4)	(4)	(4)
Value of farm implements and machinery[9].....dollars..	7,461,726	(4)	8,138,633	(4)	(4)	(4)	(4)
Average per farm[9].....dollars..	721.71	(4)	954.67	(4)	(4)	(4)	(4)
Average per acre[9].....dollars..	1.41	(4)	2.73	(4)	(4)	(4)	(4)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises.....number...	1,911	(4)	1,270	1,388	1,269	(4)	(4)
Farms irrigated.....number...	15,375	(4)	(4)	(4)	(4)	(4)	(4)
Area irrigated.....acres....	653,263	(4)	575,590	467,565	320,051	(4)	(4)
Area existing works were capable of supplying with water.....acres....	844,212	(4)	824,152	627,303	387,655	(4)	(4)
Area irrigable.....acres....	1,104,645	(4)	1,065,627	[10] 813,153	[10] 944,090	(4)	(4)
Additional area existing works were capable of supplying with water.....acres....	190,949	(4)	248,562	159,738	67,604	(4)	(4)
Additional irrigable area in enterprises not supplied with water.....acres....	451,382	(4)	510,037	[10] 345,588	[10] 624,039	(4)	(4)
Investment in irrigation enterprises.....dollars..	83,526,608	(4)	73,328,197	33,498,094	17,677,966	4,438,352	465,000
Increase or decrease (-) over preceding census.....percent..	[3] 13.9	(4)	118.9	89.5	298.3	854.5	.....
Average per acre based on area works were capable of supplying with water.....dollars..	98.94	(4)	88.97	53.40	45.60	(4)	(4)
Increase or decrease (-) over preceding census....percent..	[3] 11.2	(4)	66.6	17.1	.....	.....	.....
Estimated completed cost of existing enterprises.....dollars..	108,980,519	(4)	91,913,550	34,615,064	24,828,868	(4)	(4)
Average per acre based on irrigable area in enterprises.....dollars..	98.66	(4)	84.66	[10] 42.57	[10] 26.30	(4)	(4)
Average annual cost per acre irrigated for maintenance and operation of irrigation works.....dollars..	5.00	(4)	4.57	3.27	0.93	(4)	(4)

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

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

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms.....	18,468	25,651,092	525,974	471,372	104,092	153,678,675	5.99	23,091,437	0.90	9,961,098	0.39
Owners and managers.....	16,328	24,496,794	431,695	384,543	90,208	134,460,964	5.49	20,705,102	0.85	8,520,061	0.35
Tenants.....	2,140	1,154,298	94,279	86,829	13,884	19,215,711	16.65	2,386,335	2.07	1,441,037	1.25
Irrigated farms, total.....	10,339	5,274,470	478,521	471,372	104,092	115,309,610	21.86	16,497,968	3.13	7,461,726	1.41
Owners and managers.....	8,787	5,051,817	390,677	384,543	90,208	99,320,601	19.66	14,664,418	2.90	6,296,260	1.25
Tenants.....	1,552	222,653	87,844	86,829	13,884	15,989,009	71.81	1,833,550	8.24	1,165,466	5.23
Wholly irrigated farms.....	8,662	4,661,868	450,045	450,045	73,867	102,833,437	22.06	13,863,525	2.97	6,786,836	1.46
Owners and managers.....	7,418	4,461,543	365,105	365,105	65,124	88,340,200	19.80	12,388,925	2.78	5,695,258	1.28
Tenants.....	1,244	200,325	84,940	84,940	8,743	14,493,237	72.35	1,474,600	7.36	1,091,578	5.45
Partly irrigated farms.....	1,677	612,602	28,476	21,327	30,225	12,476,173	20.37	2,634,443	4.30	674,890	1.10
Owners and managers.....	1,369	590,274	25,572	19,438	25,084	10,980,401	18.60	2,275,493	3.85	601,002	1.02
Tenants.....	308	22,328	2,904	1,889	5,141	1,495,772	66.99	358,950	16.08	73,888	3.31
Nonirrigated farms, total.....	8,129	20,376,622	47,453	.....	.....	38,367,065	1.88	6,593,469	0.32	2,499,372	0.12

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	1,911	1,104,645	844,212	653,263	575,590	467,565	13.5	622,460	633,565	615,199	3.4	6.15	1.79
Primary sources:													
Streams, gravity	550	153,986	97,538	71,075	162,621	189,782	-56.3	50,848	58,945	45,224	2.9	2.38	0.83
Streams, pumped	44	2,189	1,951	1,055	8,123	6,671	-87.0	993	1,055	993	3.1	2.99	0.98
Streams, gravity and pumped	11	57,981	56,592	47,614	53	.....	(5)	47,604	47,614	47,604	4.4	3.39	0.78
Wells, pumped	867	231,187	201,201	144,175	104,637	39,694	37.8	136,124	138,419	135,376	3.7	9.10	2.43
Wells, flowing	90	2,737	2,674	1,947	1,107	1,558	75.9	1,704	1,418	1,214	2.6	1.05	3.09
Wells, pumped and flowing	11	532	457	374	258	558	45.0	325	324	275	2.9	5.79	1.98
Lakes, gravity	1	(3)	(3)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	4	488	481	100	.....	5	.....	100	100	100	1.1	6.45	5.92
Springs	83	5,079	4,437	3,061	3,056	2,578	0.2	2,347	2,596	2,307	2.4	5.74	2.35
Springs and streams	16	647	647	551	.....	.....	.....	25	502	22	1.1	7.27	6.40
Stored storm water	4	70	70	40	755	510	-94.7	20	40	20	1.2	1.50	1.20
City water	2	(3)	(3)	(3)	.....	.....	.....	.....	(3)	.....	.....	.....	.....
Sewage	3	455	455	395	342	195	15.5	340	395	340	5.3	3.53	0.67
Streams, gravity; wells, pumped	46	526,879	459,100	368,375	292,681	217,799	25.9	367,901	367,846	367,586	3.1	5.47	1.77
Streams, gravity; wells, flowing	6	3,730	3,530	3,447	40	525	(5)	3,447	3,447	3,447	2.2	2.68	1.21
Streams, pumped; wells, pumped	4	110,088	7,664	4,605	.....	.....	.....	4,605	4,605	4,605	4.0	3.05	0.77
Waste water, seepage or drainage	3	182	180	178	.....	.....	.....	1	3	1	3.0	6.00	2.00
Other mixed	23	8,280	7,100	6,166	1,887	7,690	226.8	6,085	6,156	6,085	2.5	4.15	1.65
Other and not reported	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]													
Streams, gravity and/or storage	5	91,125	91,125	58,139	.....	.....	.....	58,097	53	53	1.0	1.89	1.02
Streams, pumped	1	(5)	(5)	(5)	80	.....	(5)	(5)	.....	.....	.....	.....	.....
Wells, pumped	120	35,957	21,452	15,210	1,592	.....	855.4	13,350	13,965	12,114	1.5	2.06	1.02
Wells, flowing	17	742	742	445	53	.....	739.6	442	445	442	3.0	0.00	0.31

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	83,526,608	100.0	98.94	73,328,197	100.0	88.97	9.97	630,942	5.00	561,605	4.57	0.43	362,828	3.27
Primary sources:														
Streams, gravity	3,932,570	4.7	40.32	20,016,538	27.3	75.80	-35.48	58,585	1.40	156,393	3.20	-1.80	111,223	2.27
Streams, pumped	38,096	(3)	19.53	1,459,527	2.0	117.89	-98.36	1,055	2.93	8,074	9.83	-6.90	6,082	8.12
Streams, gravity and pumped	8,195,261	9.8	144.81	2,550	(3)	36.43	108.38	47,614	2.48	43	3.49	-1.01	.....	.....
Wells, pumped	9,594,076	11.5	47.68	8,747,182	11.9	58.70	-11.02	136,156	7.98	99,740	10.76	-2.78	18,733	13.15
Wells, flowing	186,401	0.2	69.71	111,500	0.2	63.07	6.64	1,418	1.36	968	0.27	1.09	734	3.64
Wells, pumped and flowing	34,487	(3)	75.46	28,750	(3)	65.64	9.82	324	5.15	165	10.64	-5.49	558	13.64
Lakes, gravity	(4)	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lakes, pumped	2,530	(3)	5.26	.....	.....	.....	.....	100	6.45	.....	.....	.....	5	10.00
Springs	220,820	0.3	49.77	177,191	0.2	47.58	2.19	2,596	3.82	1,991	1.98	1.84	1,525	3.88
Springs and streams	11,725	(3)	18.12	.....	.....	.....	.....	502	1.19	.....	.....	.....	.....	.....
Stored storm water	14,480	(3)	206.86	64,450	0.1	35.35	171.51	40	13.27	731	1.98	11.29	.....	.....
City water	(4)	(4)	(4)	.....	.....	.....	.....	(4)	(4)	.....	.....	.....	.....	.....
Sewage	13,950	(3)	30.66	50,116	0.1	146.54	-115.88	395	3.65	1	.....	.....	90	1.89
Streams, gravity; wells, pumped	54,903,401	65.7	119.59	37,553,267	51.2	104.64	14.95	367,846	4.69	291,769	3.06	1.63	216,397	2.70
Streams, gravity; wells, flowing	109,978	0.1	31.16	5,500	(3)	137.50	-106.34	3,447	0.61	40	3.75	-3.14	495	2.40
Streams, pumped; wells, pumped	3,457,092	4.1	451.08	.....	.....	.....	.....	4,605	9.96	.....	.....	.....	.....	.....
Waste water, seepage or drainage	328	(3)	1.82	.....	.....	.....	.....	3	5.33	.....	.....	.....	.....	.....
Other mixed	294,173	0.4	41.43	5,049,225	6.9	160.04	-118.61	6,156	3.33	1,660	5.59	-2.36	6,986	4.99
Other and not reported	.....	.....	.....	601	(3)	16.69	.....	.....	.....	30	9.17	.....	.....	.....
Supplemental sources:[5]														
Streams, gravity and/or storage	1,996,810	2.4	21.91	.....	.....	.....	.....	53	1.89	.....	.....	.....	.....	.....
Streams, pumped	(5)	(5)	(5)	10,200	(3)	104.08	(5)	.....	.....	80	14.63	.....	.....	.....
Wells, pumped	472,510	0.6	22.03	48,600	0.1	30.47	-8.44	13,965	3.59	1,592	2.44	1.15	.....	.....
Wells, flowing	41,160	(3)	55.47	3,000	(3)	53.57	1.90	445	1.02	53	.....	.....	.....	.....

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

State Table 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

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

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

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

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

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

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

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

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[3]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[4]	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	47	816,070	611,533	42,592,133	70.03	60.67	4	990,222	923,519	43.87	656,600	2,826,685	1,943,983
Partnership	2	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	10,800	10,618	7,709
Cooperative, incorporated	[6] 13	49,583	45,383	227,866	5.02	5.02	1	(7)	.....	(7)	[6] 91,542	[6] 264,074	180,621
Cooperative, unincorporated	1	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	8,651	8,266	4,586
Irrigation district	11	151,433	136,234	8,639,026	57.00	63.41	3	[7] 990,222	923,519	[7] 43.87	154,980	869,814	831,690
Commercial	(6)	(5)	(5)	(5)	(5)	(5)	.....	.....	.....	.....	(6)	(6)	.....
Bureau of Reclamation[8]	[9] 2	299,058	297,669	[10] 20,045,158	68.59	67.34	.....	.....	.....	.....	292,229	1,451,918	809,198
Office of Indian Affairs[8]	18	250,627	114,878	[11] 12,926,217	129.50	112.52	.....	.....	.....	.....	98,398	221,995	110,236
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises: Irrigated area reporting 1939	Primary enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	630,942	3,101,467	14,463	50,715	4.92	3.51	67	1,444,641	1,546
Individual and partnership	120,047	788,588	14,383	50,679	6.57	3.52	2	[2] 64,320	[2] 71
Cooperative, incorporated	71,766	140,150	80	36	1.95	0.45	25	75,072	142
Cooperative, unincorporated	6,530	11,642	.....	.....	1.78	.....	10	4,930	22
Irrigation district	77,164	504,923	.....	.....	6.54	.....	12	194,536	204
Commercial	[3] 12,385	[3] 24,499	.....	.....	[3] 1.98	.....	1	(2)	(2)
U. S. Bureau of Reclamation*	265,042	1,293,376	.....	.....	4.88	.....	[4] 2	855,966	653
U. S. Office of Indian Affairs	78,008	338,289	.....	.....	4.34	.....	15	249,808	451
State	(3)	(3)	.....	.....	(3)	.....	.....	.....	.....
City and/or sewage	(3)	(3)	.....	.....	(3)	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

State Table 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
	Diversion	Storage	Capacity at main heading	Length[1]: Earth	Length[1]: Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Prime movers: Number	Prime movers: Rated capacity	Pumps: Number	Pumps: Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	602	199	13,258	3,986	192.2	333	4,860,898	344.3	268	22,878	[3] 1,858	2,508,337	1,970	102,733	1,969	2,992,986
Individual and partnership	471	150	2,246	401	7.7	283	6,614	127.1	259	19,853	1,314	1,349,115	1,415	56,066	1,414	1,509,940
Cooperative, incorporated	24	8	1,212	308	3.2	8	41,517	16.0	9	3,025	66	106,780	67	4,053	67	114,600
Cooperative, unincorporated	20	2	247	91	0.5	3	1,986	0.7	....	.....	13	21,150	14	657	14	21,700
Irrigation district	6	5	1,165	514	115.0	5	203,500	28.4	....	.....	163	463,942	189	18,380	189	607,937
Commercial	1	[4] 5	[4] 618	152	.....	[4] 5	[4] 2,312	[4] 5.0	....	.....	[4] 15	[4] 35,700	[4] 15	[4] 2,425	[4] 15	[4] 35,700
Bureau of Reclamation[5]	5	6	5,709	1,537	53.1	6	3,392,000	104.4	....	.....	166	347,400	173	14,735	173	470,700
Office of Indian Affairs[5]	75	23	2,061	983	12.7	23	1,212,969	62.7	....	.....	[3] 101	184,250	97	6,117	97	232,409
State	.....	(4)	(4)	.....	.....	(4)	(4)	(4)	....	.....	(4)	(4)	(4)	(4)	(4)	(4)
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....
Other	.....	.....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....

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

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State Table 11.—DAMS, BY MATERIAL: 1940 AND 1930

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

[1] Principally temporary dams, replaced annually.

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

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	1,969	100.0	2,992,986	100.0	60
Electric motor	**962**	**48.8**	**1,930,064**	**64.5**	**85**
Centrifugal	111	5.6	264,530	8.8	44
Turbine	838	42.5	1,661,668	55.5	96
Plunger	7	0.4	191	(1)	111
Other	6	0.3	3,675	0.2	75
Internal-combustion engine	**746**	**37.9**	**650,764**	**21.7**	**47**
Centrifugal	362	18.4	212,612	7.1	30
Turbine	317	16.1	424,350	14.2	64
Plunger	48	2.4	3,702	0.1	79
Other	19	1.0	10,100	0.3	47
Other kinds of motive power	**65**	**3.3**	**13,124**	**0.5**	**48**
Centrifugal	10	0.5	5,880	0.2	29
Turbine	5	0.3	6,500	0.3	61
Plunger	47	2.3	677	(1)	52
Other	3	0.2	67	(1)	30
Mixed kinds of motive power	**196**	**10.0**	**399,034**	**13.3**	**61**
Centrifugal	55	2.8	165,120	5.5	38
Turbine	100	5.1	231,950	7.7	75
Plunger	37	1.9	1,774	0.1	66
Other	4	0.2	190	(1)	88
Total, 1930	1,364	.....	2,125,283	.....	46
Increase or decrease (-) 1930-1940	605	.....	867,693	.....	14

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	1,970	100.0	102,733	100.0
Centrifugal pump	**490**	**24.9**	**10,786**	**10.5**
Electric	124	6.3	4,581	4.4
Internal-combustion	355	18.0	6,028	5.9
Other	11	0.6	177	0.2
Turbine pump	**1,172**	**59.5**	**80,428**	**78.3**
Electric	845	42.9	63,561	61.9
Internal-combustion	322	16.3	16,701	16.3
Other	5	0.3	166	0.2
Plunger pump	**128**	**6.5**	**460**	**0.4**
Electric	8	0.4	29	(1)
Internal-combustion	59	3.0	335	0.3
Other	61	3.1	96	0.1
Other and mixed types of pumps	**180**	**9.1**	**11,059**	**10.8**
Electric	101	5.1	9,957	9.7
Internal-combustion	60	3.0	1,081	1.1
Other	[2] 19	1.0	21	(1)
Total, 1930	[3] 1,378	.....	57,633	.....
Increase or decrease (-) 1930-1940	592	.....	45,100	.....

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

State Table 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	LENGTH 1940[1]	LENGTH 1930[2]	Increase or decrease (-) 1930-1940
	Miles	*Miles*	*Percent*
Total	344.3	[3] 189.3	81.9
Concrete:			
1 to 12 inches	95.4	14.0	581.4
13 to 24 inches	125.0	57.0	198.9
Over 24 inches	45.4		
Metal:			
1 to 12 inches	48.1	52.5	-8.4
13 to 24 inches	4.0	5.6	214.3
Over 24 inches	13.6		
Wood-stave:			
1 to 12 inches	1.3	21.5	94.0
13 to 24 inches	0.3	20.3	-91.6
Over 24 inches	1.4		
Clay and other:			
1 to 12 inches	2.3	0.4	-475.0
13 to 24 inches	.....	.....	.....
Over 24 inches	7.5		

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

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

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

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

State Table 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

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

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

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

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

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

BUREAU OF RECLAMATION AREAS AND INVESTMENT

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

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

State Table 17.—ENTERPRISES, AREA IRRIGATED, CAPITAL INVESTED, MAINTENANCE AND OPERATION, AND SOURCE OF WATER SUPPLY, BY SPECIFIED GROUPS OF IRRIGATED

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940 ... number	1,768	94	1,447	111	58	40	15	3
2	Irrigated farms, 1939 ... number	15,375	.....	1,447	268	552	1,761	3,297	8,050
3	Area irrigated, 1939 ... acres	653,263	.....	110,544	13,355	48,709	46,968	104,997	328,690
4	(a) From which crops were harvested ... acres	592,305	.....	89,692	10,581	43,645	41,596	100,697	307,094
5	(b) On which crops failed ... acres	3,321	.....	1,201	287	436	1,310	24	63
6	(c) Irrigated pasture ... acres	57,637	.....	20,651	2,487	4,628	4,062	4,276	21,533
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises ... dollars	81,015,378	208,113	4,443,792	526,732	11,375,213	3,365,417	12,567,437	48,528,674
8	(a) Cost of irrigation works and equipment ... dollars	80,481,984	207,655	4,434,682	525,617	10,924,173	3,352,833	12,550,396	48,486,628
9	(b) Investment in water rights ... dollars	533,394	458	9,110	1,115	451,040	12,584	17,041	42,046
10	Area works were capable of supplying with water ... acres	844,212	10,825	145,689	17,550	82,254	56,978	147,616	383,300
11	Average investment per acre irrigated ... dollars	124.02	.....	40.20	39.44	233.53	71.65	119.69	147.64
12	Average investment per acre which the works could supply with water ... dollars	95.97	19.23	30.50	30.01	138.29	59.07	85.14	126.61
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation ... number	1,380	27	1,171	82	48	36	13	3
14	(a) Area irrigated in these enterprises ... acres	630,942	.....	99,976	12,233	45,280	45,317	99,446	328,690
15	(b) Cost of maintenance and operation ... dollars	3,101,467	432	730,844	56,855	206,578	119,680	432,312	1,554,766
16	(c) Average cost per irrigated acre reporting ... dollars	4.92	.....	7.31	4.65	4.56	2.64	4.35	4.73
17	Total annual charges[3] ... dollars	2,826,235	.....	.....	425	344,939	215,745	633,383	1,631,743
18	Average charge per irrigated acre reporting ... dollars	5.42	.....	.....	2.18	7.20	4.76	6.37	4.98
19	Area against which charges were assessed ... acres	656,350	.....	.....	195	77,584	67,309	133,402	377,860
20	Average annual charge per acre assessed ... dollars	4.31	.....	.....	2.18	4.45	3.21	4.75	4.32
21	Total charges collected[3] ... dollars	1,943,583	.....	.....	348	242,270	167,306	614,855	918,804
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[4] ... number	46	[2] 2	.....	1	5	21	14	3
23	(a) Area irrigated in these enterprises ... acres	478,077	.....	.....	22,980		26,310	100,097	328,690
24	(b) Indebtedness ... dollars	42,589,633	10,084	.....	2,490,781		1,578,674	7,669,966	30,840,128
25	(c) Average indebtedness per acre irrigated ... dollars	89.09	.....	.....	108.39		60.00	76.63	93.83
26	(d) Cost of irrigation works and equipment ... dollars	73,247,085	10,084	.....	9,955,861		2,344,116	12,450,396	48,486,628
27	(e) Investment in water rights ... dollars	509,070	.....	.....	450,499		1,984	14,541	42,046
28	(f) Total investment ... dollars	73,756,155	10,084	.....	10,406,360		2,346,100	12,464,937	48,528,674
29	(g) Maintenance and operation ... dollars	2,219,836	.....	.....	135,544		97,614	431,912	1,554,766
30	(h) Total annual charges[3] ... dollars	2,681,606	.....	.....	268,262		156,793	624,808	1,631,743
31	(i) Total charges collected[3] ... dollars	1,879,500	.....	.....	229,993		123,188	607,515	918,804
32	(j) Area against which annual charges were assessed ... acres	603,671	.....	.....	51,780		45,529	128,502	377,860
33	(k) Average indebtedness per acre assessed ... dollars	70.03	.....	.....	48.10		34.34	57.43	81.62
34	(l) Average charges per acre assessed ... dollars	4.44	.....	.....	5.18		3.44	4.86	4.32
35	(m) Average charges per acre irrigated ... dollars	5.68	.....	.....	11.67		6.10	6.61	4.96
36	Enterprises reporting arrearage[4] ... number	4	.....	.....	.....	1	2	1	.....
37	(a) Area assessed in these enterprises ... acres	22,571	.....	.....	.....	22,571			.....
38	(b) Total arrearage ... dollars	990,222	.....	.....	.....	990,222			.....
39	(c) Average arrearage per acre assessed ... dollars	43.87	.....	.....	.....	43.87			.....
40	(d) Indebtedness ... dollars	1,213,075	.....	.....	.....	1,213,075			.....
	TYPE, 1940								
41	Individual and partnership ... number	1,669	91	1,438	107	30	3	.....	.....
42	Cooperative (incorporated and unincorporated) ... number	58	.....	6	4	23	18	7	.....
43	Irrigation district ... number	14	1	.....	.....	1	9	3	.....
44	Commercial ... number	2	.....	.....	.....	2	.....	.....	.....
45	U. S. Bureau of Reclamation ... number	2	.....	.....	.....	.....	.....	.....	2
46	U. S. Office of Indian Affairs ... number	20	2	.....	.....	2	10	5	1
47	All other ... number	3	.....	3	.....	.....	.....	.....	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll ... number	67	[2] 2	.....	.....	16	32	14	3
49	Wages and salaries paid and payable for 1939 ... dollars	1,444,641	4,885	.....	.....	126,773	91,373	331,091	890,519
50	Persons employed during week ending April 29, 1939 ... number	1,546	9	.....	.....	128	202	423	784
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity ... number	550	18	395	61	45	25	6	.....
52	Streams, pumped ... number	44	7	37	.....	.....	.....	.....	.....
53	Wells, pumped ... number	867	58	767	31	3	7	1	.....
54	Wells, pumped and flowing; or wells flowing ... number	101	1	94	6	.....	.....	.....	.....
55	Lakes, gravity or pumped ... number	5	1	4	.....	.....	.....	.....	.....
56	Streams and springs; or springs ... number	99	3	82	6	7	1	.....	.....
57	Mixed, streams and wells ... number	67	3	40	6	3	6	6	3
58	Other mixed or stored storm water ... number	35	3	28	1	.....	1	2	.....

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

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

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

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT						
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	$10,000,000 and more	
94	1,302	204	137	22	8	[2] 1	1,435	187	114	24	6	[2] 2	1
.....	1,536	676	1,809	2,569	3,459	5,326	1,808	564	1,479	2,883	1,862	6,779	2
.....	28,489	35,250	86,702	74,844	208,819	219,159	53,136	43,223	86,315	66,044	121,738	282,807	3
.....	22,373	28,987	69,916	66,984	197,333	206,712	33,974	35,966	78,082	61,695	121,377	261,211	4
.....	1,274	698	1,262	24	63	.....	1,739	303	795	397	24	63	5
.....	4,842	5,565	15,524	7,836	11,423	12,447	17,423	6,954	7,438	3,952	337	21,533	6
208,113	1,605,120	1,513,129	5,004,216	6,039,036	37,098,219	29,547,545	1,466,682	1,467,197	3,439,271	5,750,410	28,527,389	40,364,429	7
207,655	1,597,193	1,511,033	4,992,940	6,023,586	36,602,032	29,547,545	1,456,912	1,465,261	3,426,520	5,737,660	28,073,248	40,322,983	8
458	7,927	2,096	11,276	15,450	496,187	.....	9,770	1,936	12,751	12,750	454,141	42,046	9
10,325	45,507	49,503	113,023	84,131	298,353	242,870	79,861	56,335	105,367	82,401	191,747	328,501	10
.....	56.34	42.93	57.72	80.69	177.66	134.82	27.60	33.94	39.85	87.07	234.33	142.73	11
19.23	35.27	30.57	44.28	71.78	124.34	121.66	18.37	26.04	32.64	69.79	148.78	122.87	12
27	1,014	181	131	18	8	[2] 1	1,078	166	106	22	6	[2] 2	13
.....	23,362	31,405	83,733	64,464	208,819	219,159	40,771	40,345	84,788	60,493	121,738	282,807	14
432	146,605	202,820	500,897	147,895	923,194	1,179,624	168,500	216,560	472,989	193,769	608,635	1,441,014	15
.....	6.28	6.46	5.98	2.29	4.42	5.38	4.13	5.37	5.58	3.20	5.00	5.10	16
.....	1,230	12,316	105,363	212,066	1,200,285	1,294,975	7,058	29,130	102,027	284,838	928,382	1,474,800	17
.....	1.38	2.65	3.72	3.53	5.75	5.91	0.82	2.46	2.89	4.71	7.63	5.21	18
.....	1,020	5,082	39,013	75,740	292,625	242,870	9,314	13,036	37,548	85,838	182,113	328,501	19
.....	1.21	2.42	2.70	2.80	4.10	5.33	0.76	2.23	2.72	3.32	5.10	4.49	20
.....	499	5,788	73,688	171,881	1,080,378	611,349	3,730	22,931	90,659	198,746	906,512	721,015	21
[2] 2	.....	6	17	13	7	[2] 1	2	7	11	18	6	[2] 2	22
.....	.....	908	12,180	49,169	196,661	219,159	6,989		24,257	42,286	121,738	282,807	23
10,084	.....	96,531	443,806	2,986,593	20,931,324	18,118,292	28,860		237,939	2,120,464	11,289,108	28,913,262	24
.....	.....	106.31	36.44	60.74	106.45	82.67	4.13		9.81	50.15	92.73	102.24	25
10,084	.....	279,148	2,025,878	5,553,686	35,830,744	29,547,545	55,253		529,829	4,266,372	28,073,248	40,322,383	26
.....	.....	199	3,434	9,250	496,187	.....	583		8,050	4,250	454,141	42,046	27
10,084	.....	279,347	2,029,312	5,562,936	36,326,931	29,547,545	55,836		537,879	1,270,622	28,527,389	40,364,429	28
.....	.....	4,253	56,078	113,808	866,073	1,179,624	12,589		31,669	125,929	608,635	1,441,014	29
.....	.....	4,251	61,471	177,742	1,143,164	1,294,975	18,312		69,520	190,583	928,382	1,474,800	30
.....	.....	99	49,013	138,661	1,080,378	611,349	16,858		62,555	172,560	906,512	721,015	31
.....	.....	768	20,370	59,196	280,467	212,870	7,402		24,972	60,683	182,113	328,501	32
.....	.....	113.00	21.52	45.55	74.64	74.60	1.80		9.14	30.16	61.99	88.02	33
.....	.....	5.54	3.02	3.00	4.08	5.33	2.47		2.78	3.14	5.10	4.49	34
.....	.....	5.54	5.26	4.07	5.81	5.91	2.82		2.88	5.19	7.63	5.21	35
.....	.....	.....	2	2	.....	.....	.....	1	1	2	.....	.....	36
.....	.....	.....	22,571		.....	.....	.....	22,571			.....	.....	37
.....	.....	.....	990,222		.....	.....	.....	990,222			.....	.....	38
.....	.....	.....	43.87		.....	.....	.....	43.87			.....	.....	39
.....	.....	.....	1,213,075		.....	.....	.....	1,213,075			.....	.....	40
91	1,291	186	97	4	.....	.....	1,416	165	88	.....	.....	.....	41
.....	9	12	26	9	2	.....	17	14	18	9	.....	.....	42
1	.....	.....	5	5	3	.....	.....	1	3	7	3	.....	43
.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	1	.....	44
.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	1	45
2	.....	5	8	4	1	.....	1	4	5	8	1	1	46
.....	2	.....	1	.....	.....	.....	1	2	.....	.....	.....	.....	47
[2] 2	2	6	30	18	8	[2] 1	5	13	19	22	6	[2] 2	48
4,885	28,351		45,278	218,916	405,516	741,695	3,110	17,275	44,405	163,971	139,632	776,248	49
9	35		208	275	432	587	5	27	102	349	345	718	50
18	442	44	39	7	.....	.....	487	36	13	14	.....	.....	51
7	35	1	1	.....	.....	.....	42	2	.....	.....	.....	.....	52
58	579	134	87	7	2	.....	646	128	87	5	1	.....	53
1	95	5	.....	.....	.....	.....	95	4	2	.....	.....	.....	54
1	4	.....	.....	.....	.....	.....	4	1	.....	.....	.....	.....	55
3	87	8	1	.....	.....	.....	91	5	2	1	.....	.....	56
3	37	9	4	7	6	1	44	6	7	3	5	2	57
3	23	3	5	1	.....	.....	26	5	3	1	.....	.....	58

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

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

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

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

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

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

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

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Colorado River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Grand Canyon.....	Coconino.....	6,866	18.91	+1.92	2.67	-1.60	4.16	-0.37	1.40	-0.82	10.68	+4.71	49.8	+1.7
Kingman.....	Mohave.....	3,326	20.34	+9.53	3.19	+0.67	3.66	-0.05	0.99	-0.23	12.50	+9.14	61.2	-0.3
Mount Trumbull.....	Mohave.....	(2)	19.95	+7.29	2.85	0.00	4.20	+0.93	1.34	-0.49	11.56	+6.85	(2)	(2)
Yuma.....	Yuma.....	138	7.35	+3.88	0.88	-0.20	1.11	-0.09	0.00	-0.16	5.36	+4.33	73.4	+1.5
Chinle Creek														
Chin Lee.....	Apache.....	5,538	5.12	-3.22	1.00	-0.75	1.08	-0.29	1.04	-0.10	2.00	-2.08	53.4	+3.2
Little Colorado River														
Flagstaff.....	Coconino.....	6,907	14.72	-8.08	3.63	-1.31	3.62	-4.08	0.65	-2.15	6.82	-0.54	46.6	+2.1
Jeddito.....	Navajo.....	6,700	6.21	-5.93	1.64	-1.42	1.59	-1.32	0.64	-0.92	2.34	-2.27	53.0	+2.6
St. Johns.....	Apache.....	5,650	6.98	-5.19	0.50	-1.89	2.35	+0.11	1.13	-0.37	3.00	-3.04	53.8	+1.6
Winslow.....	Navajo.....	4,848	5.32	-3.47	0.53	-1.28	1.54	-0.12	0.83	-0.26	2.42	-1.81	55.3	+0.4
Upper Gila River														
Florence.....	Pinal.....	1,500	8.08	-1.80	1.99	-0.59	2.05	-0.96	0.38	-0.30	3.66	+0.14	70.1	+1.0
Safford.....	Graham.....	2,900	(2)	(2)	(2)	(2)	2.22	+0.14	[3] 0.74	-0.03	4.30	-0.23	64.3	+1.7
San Francisco River														
Clifton.....	Greenlee.....	3,465	8.10	-5.33	1.52	-1.29	1.82	-1.18	0.23	-1.07	4.53	-1.79	69.2	+3.0
San Pedro River														
Benson.....	Cochise.....	3,585	8.31	-2.76	1.00	-0.81	1.19	-0.86	0.60	-0.14	5.52	-0.95	62.3	-1.9
Santa Cruz River														
Tucson.....	Pima.....	2,423	7.08	-4.20	1.02	-1.50	2.64	+0.20	0.04	-0.96	3.38	-1.94	68.0	+0.7
Salt River														
Phoenix.....	Maricopa.....	1,108	9.49	+1.71	1.14	-1.03	1.22	-1.03	0.17	-0.42	6.96	+4.19	71.4	+1.7
Verde River														
Prescott.....	Yavapai.....	5,372	18.04	-2.48	3.65	-0.74	4.12	-2.05	0.43	-1.67	9.84	+1.98	54.2	+1.3
Seligman.....	Yavapai.....	5,219	[4] 20.04	+9.00	[4] 2.41	0.00	1.67	-0.88	0.55	-0.46	15.41	+10.34	52.8	-0.2
Lower Gila River														
Ajo.....	Pima.....	1,763	8.34	-0.82	1.38	-0.93	1.46	-0.85	0.00	-0.56	5.50	+1.52	71.2	+0.3
Gila Bend.....	Maricopa.....	737	5.27	-0.64	0.90	-0.79	0.69	-1.09	0.00	-0.40	3.68	+1.64	73.0	+0.8
Whitewater Draw														
Douglas.....	Cochise.....	3,973	[3] 10.48	-2.53	2.16	-0.34	1.63	-0.31	[3] 0.12	-0.80	6.57	-1.08	62.9	+0.5

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

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

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

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

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

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

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

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

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

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

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

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

Drainage Basin Table I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL		COLORADO RIVER			
				Total		Direct[1] (1)	San Juan River: Chinle Creek[2] (3)
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms.....1939...number.....	15,375		14,876		1,550	546
2	Area irrigated.....1939...acres.....	653,263		640,110		56,181	3,940
3	(a) Cropland harvested.....1939...acres.....	592,305		585,378		55,519	3,680
4	(b) Crop failure.....1939...acres.....	3,221		2,717		44	260
5	(c) Pasture.....1939...acres.....	57,637		52,015		618	.....
6	Area irrigated.....1929...acres.....	575,590		572,289		54,732	.....
7	1919...acres.....	467,565		461,694		48,326	.....
8	Increase or decrease (-), 1929-1939.....percent....	13.5		11.9		2.6	.....
9	Irrigable area in enterprises.....1940...acres.....	1,104,645		1,046,181		174,048	12,928
10	1930...acres.....	1,085,627		1,080,057		203,105	.....
11	1920[5]..acres.....	813,153		796,530		107,911	.....
12	Excess of irrigable area over the area irrigated..1940...acres.....	451,382		406,071		117,867	8,988
13	1930...acres.....	510,037		507,768		148,373	.....
14	1920[5]..acres.....	345,588		334,836		58,985	.....
15	Area works were capable of supplying with water...1940...acres.....	844,212		824,678		70,211	6,699
16	1930...acres.....	824,152		819,399		37,102	.....
17	1920...acres.....	627,303		617,353		56,531	.....
18	Increase or decrease (-), 1930-1940.....percent....	2.4		0.6		4.6	.....
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	190,949		184,568		14,030	2,759
20	1930...acres.....	248,562		247,110		12,370	.....
21	1920...acres.....	159,738		155,659		8,205	.....
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	77.4		77.6		80.0	58.8
23	1929...percent....	69.8		69.8		81.6	.....
24	1919...percent....	74.5		74.8		85.5	.....
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises.....1940...dollars....	83,526,608		83,181,559		11,724,383	794,834
26	(a) Cost of irrigation works and equipment.....1940...dollars....	82,990,947		82,646,590		11,723,685	794,834
27	(b) Investment in water rights (reported).....1940...dollars....	535,661		534,969		698	.....
28	Total investment in irrigation enterprises.....1930...dollars....	73,328,197		73,097,591		9,546,192	.....
29	1920...dollars....	33,498,094		33,198,726		7,381,891	.....
30	Increase or decrease (-), 1930-1940.....percent....	13.9		13.8		22.8	.....
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	98.94		100.87		166.99	118.65
32	1930...dollars....	88.97		89.21		142.26	.....
33	1920...dollars....	53.40		53.78		130.58	.....
34	Average investment per acre irrigated.....1939...dollars....	127.86		129.95		208.69	201.73
35	Estimated final investment in existing enterprises..1940...dollars....	108,980,519		108,598,969		22,055,225	2,348,508
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	98.66		103.81		126.72	181.66
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises		
37	Enterprises reporting maintenance and operation...1939...number.....	1,385	127	1,142	127	33	5
38	Area irrigated in these enterprises.....1939...acres.....	630,942	14,463	620,459	14,463	56,121	3,940
39	Cost of maintenance and operation.....1939...dollars....	3,101,467	50,715	3,065,628	50,715	173,661	7,699
40	Average cost, per acre irrigated.....1939...dollars....	4.92	3.51	4.94	3.51	3.09	1.95
41	Total annual charges (reported)[7] [8].....1939...dollars....	2,826,235	450	2,825,625	450	186,749	7,699
42	Average annual charge per acre irrigated.....1939...dollars....	5.42	3.00	5.45	3.00	3.38	1.95
43	Area against which charges were assessed.....1939...acres.....	656,350	250	653,631	250	58,018	3,940
44	Average annual charge per acre assessed.....1939...dollars....	4.31	1.80	4.32	1.80	3.22	1.95
45	Total charges collected[7].....1939...dollars....	1,943,583	400	1,943,583	400	209,934	.....
46	Indebtedness to December 31 (reported)[8].....1939...dollars....	42,589,633	2,500	42,589,633	2,500	3,298,572	200,750
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered.....1939...number.....	1,308	118	1,089	118	31	5
48	Area irrigated by these enterprises.....1939...acres.....	622,469	71,901	617,144	71,901	55,951	3,940
49	Water delivered.....1939...acre-feet..	2,056,290	80,044	2,046,272	80,044	258,096	5,314
50	Average water delivered per acre irrigated.....1939...acre-feet..	3.3	1.1	3.3	1.1	4.6	1.3
51	Average cost of water per acre irrigated.....1939...dollars....	5.82	2.88	5.81	2.88	3.33	1.95
52	Average cost of water per acre-foot delivered..1939...dollars....	1.76	2.59	1.75	2.59	0.72	1.45
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage.....1939...number.....	18	.....	18	.....	5	.....
54	Irrigable area in these enterprises.....1939...acres.....	418,539	.....	418,539	.....	167,258	.....
55	Irrigated area in these enterprises.....1939...acres.....	271,680	.....	271,680	.....	50,676	.....
56	Area for which drains have been installed.....1939...acres.....	93,803	.....	93,803	.....	48,010	.....
57	Additional area needing drainage.....1939...acres.....	107,651	.....	107,651	.....	106,040	.....

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

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

COLORADO RIVER—Continued														
Little Colorado River								Gila River						
										Upper Gila River				
Total	Direct[3]	Nutrioso Creek	Concho Creek	Silver Creek	Kanab Creek	Virgin River	Williams River	Total		Total		Direct[4]		
	(5)	(6)	(7)	(9)	(11)	(12)	(13)					(14)		
1,246	859	3	45	339	35	36	82	11,381		10,716		2,781		1
15,006	9,360	154	921	4,571	500	617	1,714	562,152		471,091		130,065		2
12,219	7,532	154	321	4,212	462	521	1,213	511,784		427,103		114,598		3
155	141	.....	.....	14	.....	30	66	2,162		1,981		855		4
2,632	1,687	.....	600	345	38	66	435	48,226		42,007		14,612		5
13,652	7,249	222	823	.....	322	444	1,111	500,169		.....		.....		6
17,036	10,260	636	244	.....	450	379	1,653	391,417		.....		.....		7
9.9	29.1	-30.6	11.9	.....	55.3	39.0	54.3	12.4		.....		.....		8
30,918	23,191	154	1,539	6,034	600	728	2,425	824,534		610,785		180,720		9
29,116	14,683	260	1,197	.....	822	702	2,020	837,443		.....		.....		10
35,358	20,821	1,224	500	.....	710	533	3,232	643,480		.....		.....		11
15,912	13,831	.....	618	1,463	100	111	711	262,382		139,694		50,655		12
15,464	7,434	38	374	.....	500	258	909	337,274		.....		.....		13
18,322	10,561	588	256	.....	260	154	1,579	252,063		.....		.....		14
24,981	18,154	154	1,539	5,134	600	646	2,346	719,195		575,922		163,298		15
21,796	11,937	260	823	.....	667	690	1,475	724,283		.....		.....		16
21,880	14,131	952	250	.....	610	512	1,809	533,521		.....		.....		17
14.6	52.1	-40.8	87.0	.....	-10.0	-6.4	59.1	-0.7		.....		.....		18
9,975	8,794	.....	618	563	100	29	632	157,043		104,831		33,233		19
8,144	4,688	38	.....	.....	345	246	364	224,114		.....		.....		20
4,844	3,871	316	6	.....	160	133	156	142,104		.....		.....		21
60.1	51.6	100.0	59.8	89.0	83.3	95.5	73.1	78.2		81.8		79.6		22
62.6	60.7	85.4	100.0	.....	48.3	64.3	75.3	69.1		.....		.....		23
77.9	72.6	66.8	97.6	.....	73.8	74.0	91.4	73.4		.....		.....		24
1,552,636	1,232,916	8,330	101,480	209,910	6,086	16,918	52,948	69,033,754		53,438,448		13,259,650		25
1,546,361	1,227,741	8,330	101,480	208,810	6,086	16,577	52,900	68,506,147		53,361,476		13,193,336		26
6,275	5,175	.....	.....	1,100	.....	341	48	527,607		76,972		66,314		27
821,056	465,060	12,250	52,725	.....	13,540	17,750	62,321	62,420,861		.....		.....		28
460,206	146,913	16,500	49,228	.....	20,500	7,474	55,504	25,165,814		.....		.....		29
89.1	165.1	-32.0	92.5	.....	-55.1	-4.7	-15.0	10.6		.....		.....		30
62.15	67.91	54.09	65.94	40.89	10.14	26.19	22.57	95.99		92.79		81.20		31
37.67	38.96	47.12	64.06	.....	20.30	25.72	42.25	86.18		.....		.....		32
21.03	10.40	17.33	196.91	.....	33.61	14.60	30.68	47.17		.....		.....		33
103.47	131.72	54.09	110.18	45.92	12.17	27.42	30.89	122.80		113.44		101.95		34
2,121,912	1,788,692	12,830	101,480	218,910	6,086	26,313	59,608	81,981,317		64,555,131		23,375,480		35
68.63	77.13	83.31	65.94	36.28	10.14	36.14	24.58	99.43		105.69		129.35		36
								Primary	Sup.	Primary	Sup.	Primary	Sup.	
								Enterprises		Enterprises		Enterprises		
65	52	1	3	9	6	16	66	951	127	782	123	208	114	37
14,611	9,019	(6)	921	4,571	350	617	1,504	543,316	14,463	457,176	13,807	128,706	13,272	38
21,182	16,275	(6)	879	3,878	353	1,673	5,046	2,856,014	50,715	2,313,872	45,445	444,950	42,055	39
1.45	1.80	(6)	0.95	0.85	1.01	2.71	3.36	5.26	3.51	5.06	3.29	3.46	3.17	40
32,500	18,776	.....	4,500	9,224	200	615	.....	2,597,862	450	1,885,211	450	276,927	.....	41
2.60	2.56	.....	5.00	2.15	0.67	1.48	.....	5.82	3.00	5.01	3.00	2.71	.....	42
19,683	13,241	.....	1,500	4,942	400	415	.....	571,175	250	441,982	250	124,676	.....	43
1.65	1.42	.....	3.00	1.87	0.50	1.48	.....	4.55	1.80	4.27	1.80	2.22	.....	44
22,128	12,940	.....	600	8,588	168	348	.....	1,711,005	400	1,028,997	400	203,651	.....	45
236,527	124,527	.....	.....	112,000	.....	37	.....	38,853,738	2,500	33,408,250	2,500	10,827,383	.....	46
66	52	3	3	8	6	14	60	907	118	749	114	201	105	47
14,536	9,160	154	921	4,301	350	488	1,434	540,445	71,901	454,327	71,245	128,931	12,667	48
32,250	19,221	154	1,812	11,063	331	2,042	3,975	1,744,324	80,044	1,374,216	77,977	382,789	18,407	49
2.2	2.1	1.0	2.0	2.6	0.9	4.2	2.8	3.2	1.1	3.0	1.1	3.0	1.5	50
2.38	2.23	1.50	4.97	2.16	1.04	3.26	3.49	6.20	2.88	5.53	2.60	3.33	2.49	51
1.07	1.06	1.50	2.53	0.84	1.10	0.78	1.26	1.92	2.59	1.83	2.38	1.12	1.71	52
5	5	.....	.....	.....	.....	.....	1	7	.....	7	.....	1	.....	53
6,253	6,253	.....	.....	.....	.....	.....	(6)	245,003	.....	245,003	.....	(6)	.....	54
1,012	1,012	.....	.....	.....	.....	.....	(6)	219,972	.....	219,972	.....	(6)	.....	55
62	62	.....	.....	.....	.....	.....	(6)	45,706	.....	45,706	.....	(6)	.....	56
291	291	.....	.....	.....	.....	.....	.....	1,320	.....	1,320	.....	.....	.....	57

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

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

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

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

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

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

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued				INDEPENDENT BASINS			
		Gila River—Continued							
		Lower Gila River—Continued							
		Direct (27)	Aqua Fria River (28)	Hassayampa River (29)	Centennial Wash (30)	Red Lake (31)	Vamori (Valshni) Wash (32)	Sulphur Springs (33)	White-water Draw (34)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms.....1939...number.....	556	71	32	6	4	268	90	137
2	Area irrigated.....1939...acres.....	73,685	16,462	530	384	40	5,243	4,615	3,255
3	(a) Cropland harvested.....1939...acres.....	67,967	15,998	509	187	27	2,084	2,327	2,489
4	(b) Crop failure.....1939...acres.....	162	19	.....	.....	.....	434	76	94
5	(c) Pasture.....1939...acres.....	5,556	445	21	197	13	2,725	2,212	672
6	Area irrigated.....1929...acres.....	.....	25,104	432	.....	.....	.....	.....	3,301
7	1919...acres.....	.....	18,824	956	.....	.....	.....	.....	5,871
8	Increase or decrease (-), 1929-1939.....percent....	.....	-34.4	22.7	.....	.....	.....	.....	-1.4
9	Irrigable area in enterprises.....1940...acres.....	165,625	46,892	751	481	42	8,637	44,161	5,624
10	1930...acres.....	.....	83,801	865	.....	.....	.....	.....	5,570
11	1920[1]..acres.....	.....	38,699	3,657	.....	.....	.....	.....	16,623
12	Excess of irrigable area over the area irrigated..1940...acres.....	91,940	30,430	221	97	2	3,394	39,546	2,369
13	1930...acres.....	.....	58,697	433	.....	.....	.....	.....	2,269
14	1920[1]..acres.....	.....	19,875	2,701	.....	.....	.....	.....	10,752
15	Area works were capable of supplying with water...1940...acres.....	95,346	46,771	750	406	42	8,571	6,030	4,891
16	1930...acres.....	.....	62,753	650	.....	.....	.....	.....	4,753
17	1920...acres.....	.....	30,000	1,773	.....	.....	.....	.....	9,950
18	Increase or decrease (-), 1930-1940.....percent....	.....	-25.5	15.4	.....	.....	.....	.....	2.9
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	21,661	30,309	220	22	2	3,328	1,415	1,636
20	1930...acres.....	.....	37,649	218	.....	.....	.....	.....	1,452
21	1920...acres.....	.....	11,176	817	.....	.....	.....	.....	4,079
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	77.3	35.2	70.7	94.6	95.2	61.2	76.5	66.6
23	1929...percent....	.....	40.0	66.5	.....	.....	.....	.....	69.5
24	1919...percent....	.....	62.7	53.9	.....	.....	.....	.....	59.0
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises.....1940...dollars....	8,390,724	7,164,487	20,545	19,550	2,300	37,676	116,122	188,951
26	(a) Cost of irrigation works and equipment.....1940...dollars....	8,390,089	6,714,487	20,545	19,550	2,300	37,676	115,435	188,946
27	(b) Investment in water rights (reported).....1940...dollars....	635	450,000	.....	.....	.....	.....	687	5
28	Total investment in irrigation enterprises.....1930...dollars....	.....	7,451,130	26,450	.....	.....	.....	.....	230,606
29	1920...dollars....	.....	1,428,077	51,299	.....	.....	.....	.....	299,368
30	Increase or decrease (-), 1930-1940.....percent....	.....	-3.8	-22.3	.....	.....	.....	.....	-18.1
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	88.00	153.18	27.39	48.15	54.76	4.40	19.26	38.63
32	1930...dollars....	.....	118.74	40.69	.....	.....	.....	.....	48.52
33	1920...dollars....	.....	47.60	28.93	.....	.....	.....	.....	30.09
34	Average investment per acre irrigated.....1939...dollars....	113.87	435.21	38.76	50.91	57.50	7.19	25.16	58.05
35	Estimated final investment in existing enterprises..1940...dollars....	10,210,719	7,175,172	20,745	19,550	3,650	42,344	120,397	215,159
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	61.65	153.01	27.62	40.64	86.90	4.90	2.73	38.26
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary / Sup. Enterprises							
37	Enterprises reporting maintenance and operation...1939...number.....	87 / 4	47	30	5	4	26	80	133
38	Area irrigated in these enterprises.....1939...acres.....	70,019 / 656	15,478	500	143	40	2,980	4,236	3,227
39	Cost of maintenance and operation.....1939...dollars....	392,045 / 5,270	145,772	2,300	2,025	500	1,039	15,257	19,043
40	Average cost, per acre irrigated.....1939...dollars....	5.60 / 8.03	9.42	4.60	14.16	12.50	0.35	3.60	5.90
41	Total annual charges (reported)[2] [3].....1939...dollars....	483,731 /	228,920	.....	.....	.....	510	.....	.....
42	Average annual charge per acre irrigated.....1939...dollars....	8.04 /	22.89	.....	.....	.....	0.22	.....	.....
43	Area against which charges were assessed.....1939...acres.....	90,393 /	38,800	.....	.....	.....	2,719	.....	.....
44	Average annual charge per acre assessed.....1939...dollars....	5.35 /	5.90	.....	.....	.....	0.22	.....	.....
45	Total charges collected[2].....1939...dollars....	454,525 /	227,483	.....	.....	.....	.....	.....	.....
46	Indebtedness to December 31 (reported)[3].....1939...dollars....	3,710,488 /	1,735,000	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered.....1939...number.....	86 / 4	35	31	6	3	1	83	132
48	Area irrigated by these enterprises.....1939...acres.....	70,059 / 656	15,145	530	384	25	(4)	2,745	2,538
49	Water delivered.....1939...acre-feet..	338,232 / 2,067	29,565	1,378	933	51	(4)	4,281	5,656
50	Average water delivered per acre irrigated.....1939...acre-feet..	4.8 / 3.2	2.0	2.6	2.4	2.0	(4)	1.6	2.2
51	Average cost of water per acre irrigated.....1939...dollars....	8.04 / 8.03	17.49	4.60	14.16	8.00	(4)	6.04	7.63
52	Average cost of water per acre-foot delivered..1939...dollars....	1.67 / 2.55	8.96	1.77	5.84	3.92	(4)	3.87	3.38
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage.....1939...number.....	.....	.....	.....	.....	.....	.....	.....	.....
54	Irrigable area in these enterprises.....1939...acres.....	.....	.....	.....	.....	.....	.....	.....	.....
55	Irrigated area in these enterprises.....1939...acres.....	.....	.....	.....	.....	.....	.....	.....	.....
56	Area for which drains have been installed.....1939...acres.....	.....	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage.....1939...acres.....	.....	.....	.....	.....	.....	.....	.....	.....

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

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

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

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Little Colorado River—Continued					Gila River		
								Upper Gila River	
		Concho Creek (7)	Silver Creek (9)	Kanab Creek (11)	Virgin River (12)	Williams River (13)	Total	Total	Direct[1] (14)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	4	9	7	16	79	1,321	1,104	354
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	385	570	86	40	30	544	522	461
3	Diversion dams.....1940..total number.....	.....	10	1	5	13	313	274	36
4	1930..total number.....	.....	.....	2	2	9	200	.....	.....
5	1920..total number.....	.....	.....	1	.....	5	199	.....	.....
6	(a) Concrete and masonry.....1940..number.....	.....	4	1	.....	1	25	20	8
7	(b) Timber.....1940..number.....	.....	.....	.....	.....	.....	5	5	.....
8	(c) Earth and rock.....1940..number.....	.....	5	.....	4	10	201	181	13
9	(d) Other, mixed, and not reported..1940..number.....	.....	1	.....	1	2	82	68	15
10	Main canals and laterals.....1940..total length, miles.....	10.0	63.1	5.0	20.0	45.0	3,278.2	2,571.9	704.8
11	1930..total length, miles.....	2	.....	6	11	28	3,331	.....	.....
12	1920..total length, miles.....	3	.....	4	11	35	2,701	.....	.....
13	(a) Earth.....1940..length, miles.....	10	63	5	20	45	3,103	2,481	701
14	(b) Lined.....1940..length, miles.....	.....	0.1	.....	.....	.....	175.2	90.9	3.8
15	1940..capacity, c.f.s.[3].....	5	45	8	46	141	9,469	7,600	2,158
16	1930..capacity, c.f.s.[3].....	16	.....	66	17	36	10,716	.....	.....
17	1920..capacity, c.f.s.[3].....	3	.....	1	9	40	10,032	.....	.....
18	Pipe lines[4].....1940..total length, miles.....	.....	0.2	.....	0.1	4.0	316.2	288.8	53.6
19	1930..total length, miles.....	.....	.....	.....	3.0	3.7	150.0	.....	.....
20	1920..total length, miles.....	.....	.....	1.3	.....	10.1	87.9	.....	.....
21	(a) Concrete.....1940..length, miles.....	.....	.....	.....	.....	0.1	254.9	237.3	52.1
22	(b) Metal.....1940..length, miles.....	.....	0.2	.....	0.1	3.1	49.3	47.1	1.5
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	.....	0.8	2.2	2.1	.....
24	(d) Other.....1940..length, miles.....	.....	.....	.....	.....	.....	9.8	2.3	.....
25	Storage dams.....1940..total number.....	2	4	.....	1	4	126	119	7
26	1930..total number.....	2	.....	1	.....	2	40	.....	.....
27	1920..total number.....	.....	.....	.....	1	.....	33	.....	.....
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	.....	16	15	.....
29	(b) Earth and rock.....1940..number.....	2	4	.....	1	4	105	99	7
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	.....	5	5	.....
31	Reservoirs.....1940..total number.....	2	4	.....	2	3	238	226	64
32	(a) 1-99 acre-feet capacity.....1940..number.....	1	1	.....	2	3	221	210	59
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	.....	.....	.....	.....	5	5	3
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	3	.....	.....	.....	12	11	2
35	1940..total capacity, ac.-ft.[5]..	(6)	9,286	.....	(6)	43	4,793,778	4,609,218	1,202,553
36	1930..total number.....	2	.....	6	3	14	214	.....	.....
37	1930..total capacity, ac.-ft....	1,197	.....	508	2	34	3,315,572	.....	.....
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	248	248	95
39	1930..number.....	.....	.....	.....	.....	1	202	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	298	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	18,038	18,038	5,665
42	1930..yield, g.p.m.....	.....	.....	.....	.....	10	13,314	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	14,044	.....	.....
44	Wells, pumped.....1940..number.....	2	.....	.....	5	32	1,570	1,234	431
45	1930..number.....	.....	.....	3	4	44	1,119	.....	.....
46	1920..number.....	.....	.....	.....	.....	5	774	.....	.....
47	1940..yield, g.p.m.....	(6)	.....	.....	1,753	12,935	2,399,481	1,691,526	645,812
48	1930..yield, g.p.m.....	.....	.....	17	49	8,004	1,745,297	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	2,015	965,338	.....	.....
50	Pumping plants.....1940..total number.....	2	1	1	5	38	1,638	1,292	442
51	1930..total number.....	.....	.....	3	4	41	1,080	.....	.....
52	Prime movers.....1940..capacity, hp.....	(6)	(6)	(6)	23	419	96,161	73,901	22,715
53	1930..capacity, hp.....	.....	.....	2	4	326	52,391	.....	.....
54	1920..capacity, hp.....	.....	.....	.....	.....	39	19,087	.....	.....
55	(a) Electric.....1940..number.....	.....	.....	1	.....	2	1,056	831	241
56	1940..capacity, hp.....	.....	.....	(6)	.....	(6)	76,626	59,323	15,177
57	(b) Internal-combustion.....1940..number.....	2	.....	.....	3	33	528	417	193
58	1940..capacity, hp.....	(6)	.....	.....	21	377	19,191	14,306	7,422
59	(c) Other.....1940..number.....	.....	1	.....	2	3	54	44	8
60	1940..capacity, hp.....	.....	(6)	.....	(6)	37	344	272	116
61	Pumps.....1940..total number.....	2	1	1	5	38	1,646	1,298	444
62	1930..number.....	.....	.....	3	4	44	1,055	.....	.....
63	1920..number.....	.....	.....	.....	.....	8	765	.....	.....
64	1940..capacity, g.p.m.....	(6)	(6)	(6)	1,105	13,665	2,666,316	1,946,281	695,647
65	1930..capacity, g.p.m.....	.....	.....	17	49	10,209	1,806,044	.....	.....
66	1920..capacity, g.p.m.....	.....	.....	.....	.....	2,590	889,573	.....	.....
67	(a) Centrifugal.....1940..number.....	1	.....	1	1	28	357	264	64
68	1940..capacity, g.p.m.....	(6)	.....	(6)	(6)	10,895	455,698	323,796	62,646
69	1940..average capacity, g.p.m..	(6)	.....	(6)	(6)	389	1,276	1,226	979
70	(b) Turbine.....1940..number.....	.....	1	.....	.....	4	1,185	948	367
71	1940..capacity, g.p.m.....	.....	(6)	.....	.....	2,400	2,197,078	1,609,788	627,393
72	1940..average capacity, g.p.m..	.....	(6)	.....	.....	600	1,854	1,698	1,710
73	(c) Plunger.....1940..number.....	1	.....	.....	2	6	80	67	10
74	1940..capacity, g.p.m.....	(6)	.....	.....	(6)	370	2,763	2,277	508
75	1940..average capacity, g.p.m..	(6)	.....	.....	(6)	62	35	34	51
76	(d) Other.....1940..number.....	.....	.....	.....	2	.....	24	19	3
77	1940..capacity, g.p.m.....	.....	.....	.....	(6)	.....	10,777	10,420	5,100
78	Pumping lift, from all sources.....1940..average, feet.....	(6)	(6)	(6)	19	25	65	67	63
79	1930..average, feet.....	.....	.....	58	24	24	46	.....	.....
80	1920..average, feet.....	.....	.....	.....	.....	20	44	.....	.....
81	from pumped wells.....1940..average, feet.....	(6)	.....	.....	19	27	67	69	65
82	from surface sources...1940..average, feet.....	.....	(6)	(6)	.....	14	38	40	15

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

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued													
Gila River—Continued													
Upper Gila River—Continued													
San Francisco River			San Simon Creek	San Pedro River	Queen Creek	Santa Cruz River			Salt River				
Total	Direct (15)	Blue River (16)	(17)	(19)	(20)	Total	Direct (21)	Rillito Creek (22)	Total	Direct[2] (23)	Tonto Creek (25)	Verde River (26)	
17	3	14	75	111	17	284	217	67	246	64	28	154	1
20	12	22	11	73	598	289	356	72	1,265	4,666	19	78	2
15	1	14	2	23	.....	69	61	8	129	35	22	72	3
31	.....	.....	.....	12	.....	11	.....	.....	56	2	.....	46	4
28	.....	.....	.....	30	.....	31	.....	.....	44	8	9	22	5
.....	.....	.....	.....	2	.....	1	.....	1	9	4	.....	5	6
.....	.....	.....	.....	.....	.....	5	5	.....	.....	.....	.....	.....	7
14	.....	14	2	17	.....	41	34	7	94	14	22	58	8
1	1	.....	.....	4	.....	22	22	.....	26	17	.....	9	9
1.0	1.0	.....	5.0	47.0	3.0	152.3	106.0	46.3	1,658.8	1,510.1	8.0	140.7	10
3	.....	.....	.....	145	.....	189	.....	.....	1,471	1,176	1	144	11
12	.....	.....	.....	177	.....	335	.....	.....	1,201	1,009	26	114	12
1	1	.....	5	47	3	138	97	41	1,586	1,443	8	135	13
.....	.....	.....	.....	.....	.....	14.3	9.0	5.3	72.8	67.1	.....	5.7	14
21	5	16	30	246	.....	399	365	33	4,747	4,268	39	440	15
14	.....	.....	.....	112	.....	420	.....	.....	5,359	4,475	1	460	16
22	.....	.....	.....	270	.....	1,196	.....	.....	5,084	4,447	58	359	17
.....	.....	.....	5.7	11.5	26.5	65.0	50.9	14.1	126.5	115.7	.....	10.8	18
4.4	.....	.....	.....	3.0	.....	47.9	.....	.....	31.3	0.1	.....	5.7	19
1.4	.....	.....	.....	5.1	.....	35.0	.....	.....	4.3	1.5	.....	1.8	20
.....	.....	.....	0.8	1.2	26.5	54.3	46.9	7.4	102.4	101.8	.....	0.6	21
.....	.....	.....	4.9	9.9	.....	8.9	3.1	5.8	21.9	11.9	.....	10.0	22
.....	.....	.....	.....	0.4	.....	1.7	0.9	0.8	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	0.1	.....	0.1	2.2	2.0	.....	0.2	24
.....	.....	.....	39	9	.....	44	37	7	20	6	.....	14	25
.....	.....	.....	.....	6	.....	2	.....	.....	12	4	.....	8	26
1	.....	.....	.....	9	.....	5	.....	.....	3	1	1	.....	27
.....	.....	.....	1	1	.....	3	2	1	10	6	.....	4	28
.....	.....	.....	38	7	.....	37	31	6	10	.....	.....	10	29
.....	.....	.....	.....	1	.....	4	4	.....	.....	.....	.....	.....	30
.....	.....	.....	45	45	.....	49	39	10	23	7	.....	16	31
.....	.....	.....	45	44	.....	48	38	10	14	2	.....	12	32
.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	1	33
.....	.....	.....	.....	1	.....	.....	.....	.....	8	5	.....	3	34
.....	.....	.....	113	3,091	.....	289	261	28	3,403,172	3,192,004	.....	211,168	35
.....	.....	.....	.....	61	.....	4	.....	.....	23	4	.....	19	36
.....	.....	.....	.....	98	.....	12	.....	.....	2,020,233	2,015,500	.....	4,721	37
.....	.....	.....	50	91	.....	.....	.....	.....	12	.....	.....	12	38
.....	.....	.....	.....	105	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	133	.....	.....	.....	.....	1	.....	.....	1	40
.....	.....	.....	2,899	2,888	.....	.....	.....	.....	6,566	.....	.....	6,566	41
.....	.....	.....	.....	3,106	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	5,195	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	36	43	33	390	310	80	301	263	1	37	44
.....	.....	.....	.....	24	.....	154	.....	.....	343	227	5	22	45
4	.....	.....	.....	25	.....	365	.....	.....	132	72	1	3	46
.....	.....	.....	6,871	21,166	53,470	459,245	435,164	24,081	504,962	484,090	(6)	20,172	47
.....	.....	.....	.....	9,310	.....	146,530	.....	.....	778,540	597,500	165	6,591	48
225	.....	.....	.....	11,474	.....	576,234	.....	.....	150,874	75,319	500	.....	49
3	3	.....	37	47	36	405	321	84	322	270	1	51	50
4	.....	.....	.....	27	.....	121	.....	.....	283	153	6	32	51
24	24	.....	296	713	3,484	22,080	21,299	781	24,599	23,717	(6)	866	52
30	.....	.....	.....	283	.....	6,904	.....	.....	20,257	13,835	47	637	53
70	.....	.....	.....	285	.....	8,073	.....	.....	2,653	629	25	96	54
.....	.....	.....	.....	3	31	294	229	65	212	244	.....	18	55
.....	.....	.....	.....	125	3,000	17,346	16,716	630	23,675	23,427	.....	248	56
3	3	.....	25	34	4	107	88	19	51	22	1	28	57
24	24	.....	279	498	480	4,708	4,557	151	895	287	(6)	602	58
.....	.....	.....	12	10	1	4	4	.....	9	4	.....	5	59
.....	.....	.....	17	90	(6)	26	26	.....	19	3	.....	16	60
3	3	.....	36	48	36	406	322	84	325	270	1	54	61
5	.....	.....	.....	28	.....	155	.....	.....	291	160	6	33	62
12	.....	.....	.....	29	.....	366	.....	.....	124	60	2	11	63
1,000	1,000	.....	6,889	22,840	59,470	505,185	477,846	27,339	655,250	627,300	(6)	27,250	64
4,190	.....	.....	.....	12,210	.....	101,890	.....	.....	835,630	587,750	185	13,096	65
5,835	.....	.....	.....	12,949	.....	528,649	.....	.....	153,184	75,719	1,500	1,070	66
3	3	.....	20	27	1	99	54	45	50	18	1	31	67
1,000	1,000	.....	5,585	14,240	(6)	65,875	52,080	13,795	173,450	154,850	(6)	17,900	68
333	333	.....	279	527	(6)	665	964	307	3,469	8,603	(6)	577	69
.....	.....	.....	3	9	34	287	253	34	248	240	.....	8	70
.....	.....	.....	1,165	8,500	58,450	438,077	424,651	13,426	476,203	472,227	.....	3,976	71
.....	.....	.....	388	944	1,719	1,526	1,678	395	1,920	1,968	.....	497	72
.....	.....	.....	13	8	1	17	14	3	18	11	.....	7	73
.....	.....	.....	139	60	(6)	1,153	1,085	68	397	183	.....	214	74
.....	.....	.....	11	8	(6)	68	78	23	22	17	.....	31	75
.....	.....	.....	.....	4	.....	3	1	2	9	1	.....	8	76
.....	.....	.....	.....	40	.....	80	(6)	(6)	5,200	(6)	.....	5,160	77
8	8	.....	34	31	146	83	88	69	63	86	(6)	43	78
25	.....	.....	.....	24	.....	58	.....	.....	54	33	38	47	79
19	.....	.....	.....	30	.....	44	.....	.....	68	54	16	63	80
.....	.....	.....	29	31	146	85	90	71	64	80	(6)	35	81
8	8	.....	85	20	.....	39	46	25	57	.....	.....	57	82

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued					INDEPENDENT BASINS			
		Gila River—Continued								
		Lower Gila River								
		Total	Direct (27)	Aqua Fria River (28)	Hassayampa River (29)	Centennial Wash (30)	Red Lake (31)	Vamori (Valshni) Wash (32)	Sulphur Springs (33)	Whitewater Draw (34)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1									
1	Enterprises.....1940..number.....	217	117	60	34	6	4	136	92	147
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	660	815	780	22	68	10	63	66	33
3	Diversion dams.....1940..total number.....	39	20	19	.....	.....	.....	146	18	12
4	1930..total number.....	.....	.....	11	6	.....	.....	.....	.....	7
5	1920..total number.....	.....	.....	12	1	.....	.....	.....	.....	6
6	(a) Concrete and masonry.....1940..number.....	5	2	3	.....	.....	.....	1	3	.....
7	(b) Timber.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock.....1940..number.....	20	7	13	.....	.....	.....	58	15	9
9	(d) Other, mixed, and not reported..1940..number.....	14	11	3	.....	.....	.....	87	.....	3
10	Main canals and laterals.....1940..total length, miles.....	706.3	530.0	167.1	9.2	.....	.....	24.0	14.0	2.0
11	1930..total length, miles.....	.....	.....	292	15	.....	.....	.....	.....	7
12	1920..total length, miles.....	.....	.....	208	18	.....	.....	.....	.....	128
13	(a) Earth.....1940..length, miles.....	622	465	148	9	.....	.....	24	14	2
14	(b) Lined.....1940..length, miles.....	84.3	65.0	19.1	0.2	.....	.....	.....	.....	.....
15	1940..capacity, c.f.s.[1].....	1,869	1,100	750	19	.....	2	396	274	88
16	1930..capacity, c.f.s.[1].....	.....	.....	935	45	.....	.....	.....	.....	10
17	1920..capacity, c.f.s.[1].....	.....	.....	525	46	.....	.....	.....	.....	553
18	Pipe lines[2].....1940..total length, miles.....	27.4	7.9	19.3	0.2	.....	.....	.....	5.4	4.9
19	1930..total length, miles.....	.....	.....	26.1	3.6	.....	.....	.....	.....	4.1
20	1920..total length, miles.....	.....	.....	34.3	4.1	.....	.....	.....	.....	5.1
21	(a) Concrete.....1940..length, miles.....	17.6	7.9	9.7	.....	.....	.....	.....	.....	.....
22	(b) Metal.....1940..length, miles.....	2.2	.....	2.0	0.2	.....	.....	.....	5.4	4.9
23	(c) Wood-stave.....1940..length, miles.....	0.1	.....	0.1	.....	.....	.....	.....	.....	.....
24	(d) Other.....1940..length, miles.....	7.5	.....	7.5	.....	.....	.....	.....	.....	.....
25	Storage dams.....1940..total number.....	7	.....	7	.....	.....	.....	1	5	5
26	1930..total number.....	.....	.....	10	.....	.....	.....	.....	.....	4
27	1920..total number.....	.....	.....	5	1	.....	.....	.....	.....	51
28	(a) Concrete and masonry.....1940..number.....	1	.....	1	.....	.....	.....	.....	1	.....
29	(b) Earth and rock.....1940..number.....	6	.....	6	.....	.....	.....	1	4	5
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	Reservoirs.....1940..total number.....	12	1	10	.....	1	.....	1	13	17
32	(a) 1-99 acre-feet capacity.....1940..number.....	11	1	9	.....	1	.....	1	12	17
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	.....	.....	.....	.....	.....	.....	1	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	.....	1	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[3]..	184,560	(4)	184,552	.....	(4)	.....	(4)	238	73
36	1930..total number.....	.....	.....	22	2	.....	.....	.....	.....	90
37	1930..total capacity, ac.-ft.....	.....	.....	92,086	2	.....	.....	.....	.....	140
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	1	6
39	1930..number.....	.....	.....	.....	1	.....	.....	.....	.....	11
40	1920..number.....	.....	.....	1	.....	.....	.....	.....	.....	10
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	(4)	765
42	1930..yield, g.p.m.....	.....	.....	.....	150	.....	.....	.....	.....	430
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....	503
44	Wells, pumped.....1940..number.....	336	247	52	27	10	2	.....	73	142
45	1930..number.....	.....	.....	186	10	.....	.....	.....	.....	210
46	1920..number.....	.....	.....	114	15	.....	.....	.....	.....	209
47	1940..yield, g.p.m.....	707,955	631,906	61,499	7,785	6,765	(4)	.....	34,673	45,537
48	1930..yield, g.p.m.....	.....	.....	278,876	3,144	.....	.....	.....	.....	62,457
49	1920..yield, g.p.m.....	.....	.....	120,885	6,420	.....	.....	.....	.....	72,787
50	Pumping plants.....1940..total number.....	346	250	56	30	10	2	.....	77	150
51	1930..total number.....	.....	.....	214	14	.....	.....	.....	.....	214
52	Prime movers.....1940..capacity, hp.....	22,260	18,469	3,333	202	256	(4)	.....	1,480	2,070
53	1930..capacity, hp.....	.....	.....	8,681	121	.....	.....	.....	.....	2,025
54	1920..capacity, hp.....	.....	.....	4,749	204	.....	.....	.....	.....	2,403
55	(a) Electric.....1940..number.....	225	185	37	3	.....	.....	.....	.....	2
56	1940..capacity, hp.....	17,303	14,436	2,855	12	.....	.....	.....	.....	(4)
57	(b) Internal-combustion.....1940..number.....	111	63	18	23	7	1	.....	61	133
58	1940..capacity, hp.....	4,885	3,973	477	183	252	(4)	.....	1,451	2,045
59	(c) Other.....1940..number.....	10	2	1	4	3	1	.....	16	15
60	1940..capacity, hp.....	72	(4)	(4)	7	4	(4)	.....	29	15
61	Pumps.....1940..total number.....	348	250	56	31	11	2	.....	75	144
62	1930..number.....	.....	.....	214	14	.....	.....	.....	.....	215
63	1920..number.....	.....	.....	100	13	.....	.....	.....	.....	209
64	1940..capacity, g.p.m.....	720,035	639,756	64,994	8,560	6,725	(4)	.....	35,103	63,344
65	1930..capacity, g.p.m.....	.....	.....	322,942	4,708	.....	.....	.....	.....	59,507
66	1920..capacity, g.p.m.....	.....	.....	68,575	5,810	.....	.....	.....	.....	73,967
67	(a) Centrifugal.....1940..number.....	93	57	11	22	3	2	.....	44	65
68	1940..capacity, g.p.m.....	131,902	116,746	7,351	6,855	950	(4)	.....	21,080	27,696
69	1940..average capacity, g.p.m..	1,418	2,048	668	312	317	(4)	.....	479	426
70	(b) Turbine.....1940..number.....	237	190	40	3	4	.....	.....	16	48
71	1940..capacity, g.p.m.....	587,290	522,810	57,140	1,640	5,700	.....	.....	13,460	31,230
72	1940..average capacity, g.p.m..	2,478	2,752	1,428	547	1,425	.....	.....	841	651
73	(c) Plunger.....1940..number.....	13	2	3	4	4	.....	.....	14	28
74	1940..capacity, g.p.m.....	486	(4)	198	38	75	.....	.....	163	2,468
75	1940..average capacity, g.p.m..	37	(4)	66	10	19	.....	.....	12	88
76	(d) Other.....1940..number.....	5	1	2	2	.....	.....	.....	1	3
77	1940..capacity, g.p.m.....	357	(4)	(4)	(4)	.....	.....	.....	(4)	1,950
78	Pumping lift, from all sources.....1940..average, feet.....	56	49	89	31	80	(4)	.....	46	57
79	1930..average, feet.....	.....	.....	52	29	.....	.....	.....	.....	46
80	1920..average, feet.....	.....	.....	47	35	.....	.....	.....	.....	44
81	from pumped wells.....1940..average, feet.....	57	50	94	32	80	(4)	.....	46	57
82	from surface sources...1940..average, feet.....	16	14	20	14	.....	.....	.....	79	56

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

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Apache	Cochise		Coconino	Gila
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms.....1940...number.....	18,468		3,120	1,076		1,509	595
2	1930...number.....	14,173		1,444	927		789	306
3	Irrigated farms.....1940...number.....	10,339		935	516		237	255
4	1930...number.....	8,523		495	361		119	105
5	Increase or decrease (-), 1930-1940.....percent....	21.3		88.9	42.9		99.2	142.9
	Operated by—							
6	(a) Owners and managers.....1940...number.....	8,787		911	424		224	238
7	1930...number.....	6,750		460	277		117	93
8	(b) Tenants.....1940...number.....	1,552		24	92		13	17
9	1930...number.....	1,773		35	84		2	12
10	Land in all farms.....1940...acres.....	25,651,092		4,879,135	2,926,869		4,747,593	135,578
11	Land in irrigated farms.....1940...acres.....	5,274,470		1,047,869	907,700		405,394	17,602
12	Average per farm.....1940...acres.....	510		1,121	1,759		1,711	69
13	(a) Operated by owners and managers.....1940...acres.....	5,051,817		1,045,056	890,879		404,900	16,631
14	Average per farm.....1940...acres.....	575		1,147	2,101		1,808	70
15	(b) Operated by tenants.....1940...acres.....	222,653		2,813	16,821		494	971
16	Average per farm.....1940...acres.....	143		117	183		38	57
17	Approximate land area.....1940...acres.....	72,691,200		7,151,360	4,003,840		11,886,720	3,040,000
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	653,263		11,401	11,458		2,065	1,424
19	(a) Cropland harvested.....1939...acres.....	592,305		9,603	8,142		1,597	1,266
20	(b) Crop failure.....1939...acres.....	3,321		406	125		9	11
21	(c) Pasture.....1939...acres.....	57,637		1,392	3,191		459	147
22	Area irrigated.....1929...acres.....	575,590		9,302	6,305		1,206	1,297
23	1919...acres.....	467,565		12,070	12,982		1,479	1,797
24	Increase or decrease (-), 1929-1939.....percent....	13.5		22.6	81.7		71.2	9.8
25	Irrigable area in enterprises.....1940...acres.....	1,104,645		32,866	55,607		3,152	1,561
26	1930...acres.....	1,085,627		23,028	11,111		2,232	2,209
27	1920[1]...acres.....	813,153		27,571	33,999		2,040	7,012
28	Excess of irrigable area over the area irrigated..1940...acres.....	451,382		21,465	44,149		1,087	137
29	1930...acres.....	510,037		13,726	4,806		1,026	912
30	Area works were capable of supplying with water...1940...acres.....	844,212		22,611	16,081		2,579	1,525
31	1930...acres.....	824,152		17,248	8,757		1,752	1,482
32	1920...acres.....	627,303		16,159	19,130		1,902	2,379
33	Increase or decrease (-), 1930-1940.....percent....	2.4		31.1	83.6		47.2	2.9
34	Excess, capability of works over area irrigated...1940...acres.....	190,949		11,210	4,623		514	101
35	1930...acres.....	248,562		7,946	2,452		546	185
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	12.4		1.1	1.3		0.5	8.1
37	1929...percent....	19.3		1.8	1.7		13.3	14.2
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	77.4		50.4	71.3		80.1	93.4
39	1929...percent....	69.8		53.9	72.0		68.8	87.5
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	83,526,608		1,739,226	858,464		171,134	40,955
41	(a) Cost of irrigation works and equipment.....1940...dollars....	82,990,947		1,734,251	853,772		170,919	40,425
42	(b) Investment in water rights (reported).....1940...dollars....	535,661		4,975	4,692		215	530
43	Total investment in all enterprises.....1930...dollars....	73,328,197		622,600	470,611		39,073	153,073
44	1920...dollars....	33,498,094		275,010	611,883		72,317	59,749
45	Increase or decrease (-), 1930-1940.....percent....	13.9		179.3	82.4		338.0	-73.2
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	98.94		76.92	53.38		66.36	26.86
47	1930...dollars....	88.97		36.10	53.74		22.30	103.29
48	1920...dollars....	53.40		17.02	31.99		38.02	25.12
49	Average investment per acre irrigated.....1939...dollars....	127.86		152.55	74.92		82.87	28.76
50	Estimated final investment in existing enterprises..1940...dollars....	108,980,519		3,685,276	892,957		282,471	47,055
51	1930...dollars....	91,913,550		831,650	479,761		40,073	154,613
52	1920...dollars....	34,615,064		283,240	635,248		72,317	60,749
53	Increase or decrease (-), 1930-1940.....percent....	18.6		483.4	86.1		604.9	-69.6
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	98.66		112.13	16.06		89.62	30.11
55	1930...dollars....	84.66		27.43	43.18		17.95	69.99
56	1920[1]..dollars....	42.57		10.27	18.68		35.45	8.66
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises		
57	Enterprises reporting maintenance and operation...1939...number.....	1,380	127	32	282	6	30	52
58	Area irrigated in these enterprises.....1939...acres.....	630,942	14,463	11,147	10,776	125	1,990	602
59	Cost of maintenance and operation.....1939...dollars....	3,101,467	50,715	19,193	50,297	270	6,636	3,165
60	Average cost, per acre irrigated.....1939...dollars....	4.92	3.51	1.72	4.67	2.16	3.33	5.26
61	1929...dollars....	4.57	.....	1.41	8.04	.....	2.38	4.76
62	Total annual charges (reported)[2] [3].....1939...dollars....	2,826,235	450	26,226	17,759	.....	5,721	.....
63	Average annual charge per acre irrigated.....1939...dollars....	5.42	3.00	2.65	8.07	.....	3.63	.....
64	Area against which charges were assessed.....1939...acres.....	656,350	250	16,257	2,997	.....	1,674	.....
65	Average annual charge per acre assessed.....1939...dollars....	4.31	1.80	1.61	5.93	.....	3.42	.....
66	Total charges collected[2].....1939...dollars....	1,943,583	400	10,990	12,246	.....	168	.....
67	Indebtedness to December 31 (reported)[3].....1939...dollars....	42,589,633	2,500	235,301	.....	.....	47,341	5,453
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	1,303	118	34	313	5	30	40
69	Area irrigated in these enterprises.....1939...acres.....	622,469	71,901	11,401	8,776	124	1,824	511
70	Water delivered in these enterprises.....1939...acre-feet..	2,056,290	80,044	21,866	21,899	503	2,592	817
71	Average water delivered per acre irrigated.....1939...acre-feet..	3.3	1.1	1.9	2.5	4.1	1.4	1.6
72	Average cost of water per acre irrigated.....1939...dollars....	5.82	2.88	2.47	7.30	1.77	1.82	4.88
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	18	.....	1	1	.....	1	1
74	Irrigable area in these enterprises.....1939...acres.....	418,539	.....	(4)	(4)	.....	(4)	(4)
75	Irrigated area in these enterprises.....1939...acres.....	271,680	.....	(4)	(4)	.....	.....	(4)
76	Area for which drains have been installed.....1939...acres.....	93,803	.....	.....	(4)	.....	(4)	(4)
77	Additional area needing drainage.....1939...acres.....	107,651	.....	(4)	.....	.....	.....	.....

*Census of Agriculture. [1]For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [2]Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [3]Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 62 to 67, inclusive, relate to those enterprises only. [4]Data are included only in State totals because less than 3 enterprises reported in the 1910 Census.

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

	ITEM (For definitions and explanations, see text)	Graham		Greenlee		Maricopa		Mohave	Navajo
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms.....1940...number.....	676		239		4,632		373	2,448
2	1930...number.....	749		257		4,597		384	1,287
3	Irrigated farms.....1940...number.....	553		151		4,249		111	594
4	1930...number.....	579		189		4,382		115	344
5	Increase or decrease (-), 1930-1940.....percent....	-4.5		-20.1		-3.0		-3.5	72.7
	Operated by—								
6	(a) Owners and managers.....1940...number.....	465		107		3,454		99	553
7	1930...number.....	398		124		3,442		99	319
8	(b) Tenants.....1940...number.....	88		44		795		12	41
9	1930...number.....	181		65		940		16	25
10	Land in all farms.....1940...acres.....	493,817		315,571		1,122,211		2,540,541	3,044,536
11	Land in irrigated farms.....1940...acres.....	210,127		59,472		466,400		148,017	479,387
12	Average per farm.....1940...acres.....	380		394		110		1,333	807
13	(a) Operated by owners and managers.....1940...acres.....	199,973		52,819		402,639		145,624	474,898
14	Average per farm.....1940...acres.....	430		494		117		1,471	859
15	(b) Operated by tenants.....1940...acres.....	10,154		6,653		63,761		2,393	4,489
16	Average per farm.....1940...acres.....	115		151		80		199	109
17	Approximate land area.....1940...acres.....	2,950,400		1,199,360		5,907,840		8,486,400	6,349,040
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated.....1939...acres.....	36,628		5,124		344,406		1,824	8,528
19	(a) Cropland harvested.....1939...acres.....	33,649		5,020		321,347		1,425	7,431
20	(b) Crop failure.....1939...acres.....	689		20		283		78	9
21	(c) Pasture.....1939...acres.....	2,290		84		22,776		321	1,088
22	Area irrigated.....1929...acres.....	34,623		6,958		383,422		1,493	4,755
23	1919...acres.....	32,400		6,974		282,130		2,342	5,832
24	Increase or decrease (-), 1929-1939.....percent....	5.8		-26.4		-10.2		22.2	79.3
25	Irrigable area in enterprises.....1940...acres.....	37,821		5,931		499,966		2,594	11,193
26	1930...acres.....	47,804		7,707		562,934		2,576	9,150
27	1920[1]...acres.....	41,938		15,288		409,967		3,395	11,956
28	Excess of irrigable area over the area irrigated..1940...acres.....	1,193		807		155,560		770	2,665
29	1930...acres.....	13,181		749		179,512		1,083	4,395
30	Area works were capable of supplying with water...1940...acres.....	37,752		5,776		437,786		2,498	9,732
31	1930...acres.....	46,405		7,167		498,790		2,190	5,850
32	1920...acres.....	34,355		8,086		394,599		2,672	6,596
33	Increase or decrease (-), 1930-1940.....percent....	-18.6		-19.4		-12.2		14.1	66.4
34	Excess, capability of works over area irrigated...1940...acres.....	1,124		652		93,380		674	1,204
35	1930...acres.....	11,782		209		115,368		697	1,095
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	17.4		8.6		73.8		1.2	1.8
37	1929...percent....	25.4		33.9		75.1		0.6	1.2
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	97.0		88.7		78.7		73.0	87.6
39	1929...percent....	74.6		97.1		76.9		68.2	81.3
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises.....1940...dollars....	1,117,374		93,743		50,510,962		35,690	610,878
41	(a) Cost of irrigation works and equipment.....1940...dollars....	1,096,121		93,144		50,056,816		34,759	609,778
42	(b) Investment in water rights (reported).....1940...dollars....	21,253		599		454,146		931	1,100
43	Total investment in all enterprises.....1930...dollars....	856,777		305,227		47,812,637		111,082	300,626
44	1920...dollars....	945,403		75,158		17,491,021		86,612	248,783
45	Increase or decrease (-), 1930-1940.....percent....	30.4		-69.3		5.6		-67.9	103.2
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	29.50		16.23		115.38		14.29	62.77
47	1930...dollars....	18.46		42.59		95.86		50.72	51.39
48	1920...dollars....	27.52		9.29		44.33		32.41	37.41
49	Average investment per acre irrigated.....1939...dollars....	30.51		18.29		146.66		19.57	71.63
50	Estimated final investment in existing enterprises..1940...dollars....	1,156,424		100,308		52,160,767		48,215	761,878
51	1930...dollars....	890,027		312,727		48,579,087		115,312	318,626
52	1920...dollars....	995,803		77,758		17,517,921		88,112	264,283
53	Increase or decrease (-), 1930-1940.....percent....	29.9		-67.9		7.4		-57.3	140.1
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	30.58		16.91		104.33		18.97	68.34
55	1930...dollars....	18.62		40.58		86.30		44.76	34.82
56	1920[1]..dollars....	23.74		5.09		42.73		25.95	22.10
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		
57	Enterprises reporting maintenance and operation...1939...number.....	83	86	39	13	104	5	69	22
58	Area irrigated in these enterprises.....1939...acres.....	36,534	8,923	5,067	634	333,216	866	1,534	6,327
59	Cost of maintenance and operation.....1939...dollars....	30,862	19,081	9,981	2,021	1,865,686	7,265	4,240	7,459
60	Average cost, per acre irrigated.....1939...dollars....	0.84	2.14	1.97	3.19	5.60	8.39	2.76	1.18
61	1929...dollars....	1.49	.....	2.95	.....	4.24	.....	10.40	2.64
62	Total annual charges (reported)[2] [3].....1939...dollars....	87,371	.....	9,731	.....	2,143,847	.....	615	11,904
63	Average annual charge per acre irrigated.....1939...dollars....	2.55	.....	2.18	.....	6.77	.....	1.48	2.16
64	Area against which charges were assessed.....1939...acres.....	34,306	.....	4,739	.....	400,511	.....	415	6,322
65	Average annual charge per acre assessed.....1939...dollars....	2.55	.....	2.05	.....	5.35	.....	1.48	1.88
66	Total charges collected[2].....1939...dollars....	84,871	.....	9,114	.....	1,424,645	.....	348	11,138
67	Indebtedness to December 31 (reported)[3].....1939...dollars....	31,045	.....	1,368	.....	26,569,525	.....	37	290,814
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered.....1939...number.....	65	83	43	11	108	6	65	21
69	Area irrigated in these enterprises.....1939...acres.....	36,268	9,956	4,671	523	337,975	58,910	1,471	5,998
70	Water delivered in these enterprises.....1939...acre-feet..	89,575	14,111	10,068	861	1,110,081	60,779	4,979	14,173
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.5	1.4	2.2	1.6	3.3	1.0	3.4	2.4
72	Average cost of water per acre irrigated.....1939...dollars....	2.64	2.12	2.06	3.31	6.90	8.39	2.80	1.90
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage.....1939...number.....	.....	.....	.....	.....	3	.....	.....	3
74	Irrigable area in these enterprises.....1939...acres.....	.....	.....	.....	.....	244,625	.....	.....	243
75	Irrigated area in these enterprises.....1939...acres.....	.....	.....	.....	.....	219,594	.....	.....	12
76	Area for which drains have been installed.....1939...acres.....	.....	.....	.....	.....	45,435	.....	.....	52
77	Additional area needing drainage.....1939...acres.....	.....	.....	.....	.....	1,320	.....	.....	191

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

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

	ITEM (For definitions and explanations, see text)	Pima		Pinal		Santa Cruz	Yavapai		Yuma
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number....	932		1,309		174	715		670
2	1930...number....	757		1,008		220	675		773
3	Irrigated farms....1940...number....	635		1,095		40	357		611
4	1930...number....	261		523		29	324		697
5	Increase or decrease (-), 1930-1940....percent....	143.3		109.4		37.9	10.2		-12.3
	Operated by—								
6	(a) Owners and managers....1940...number....	596		916		34	273		493
7	1930...number....	217		432		18	258		496
8	(b) Tenants....1940...number....	39		179		6	84		118
9	1930...number....	44		91		11	66		201
10	Land in all farms....1940...acres....	1,160,373		1,542,913		371,072	1,667,119		103,764
11	Land in irrigated farms....1940...acres....	293,661		593,930		168,610	384,312		91,989
12	Average per farm....1940...acres....	462		542		4,215	1,077		151
13	(a) Operated by owners and managers....1940...acres....	279,102		527,203		168,233	367,008		76,852
14	Average per farm....1940...acres....	468		576		4,948	1,344		156
15	(b) Operated by tenants....1940...acres....	14,559		66,727		377	17,304		15,137
16	Average per farm....1940...acres....	373		373		63	206		128
17	Approximate land area....1940...acres....	5,914,240		3,441,920		797,440	5,178,240		6,390,400
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres....	33,995		117,556		2,842	9,572		66,440
19	(a) Cropland harvested....1939...acres....	25,376		100,930		2,706	8,322		65,491
20	(b) Crop failure....1939...acres....	899		358		32	261		138
21	(c) Pasture....1939...acres....	7,720		16,268		104	986		811
22	Area irrigated....1929...acres....	18,780		37,044		1,040	7,966		61,399
23	1919...acres....	16,883		28,647		2,608	11,566		49,855
24	Increase or decrease (-), 1929-1939....percent....	81.0		217.3		173.3	20.2		8.2
25	Irrigable area in enterprises....1940...acres....	49,985		181,305		3,847	13,626		205,191
26	1930...acres....	36,720		132,198		2,296	12,682		233,000
27	1920[1]...acres....	40,978		65,799		7,162	17,108		128,910
28	Excess of irrigable area over the area irrigated...1940...acres....	15,990		63,749		1,005	4,054		138,751
29	1930...acres....	17,940		95,154		1,256	4,696		171,601
30	Area works were capable of supplying with water...1940...acres....	44,711		161,613		3,345	13,156		85,047
31	1930...acres....	31,759		105,136		2,103	11,137		84,376
32	1920...acres....	25,443		34,706		3,413	13,382		64,481
33	Increase or decrease (-), 1930-1940....percent....	40.8		53.7		59.1	18.1		0.8
34	Excess, capability of works over area irrigated...1940...acres....	10,716		44,057		503	3,584		18,607
35	1930...acres....	12,979		68,092		1,069	3,171		22,977
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	11.6		19.8		1.7	2.5		72.2
37	1929...percent....	6.7		48.9		20.9	2.4		76.1
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	76.0		72.7		85.0	72.8		78.1
39	1929...percent....	59.1		35.2		49.5	71.5		72.8
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars....	1,670,469		13,459,075		107,028	707,252		12,404,358
41	(a) Cost of irrigation works and equipment....1940...dollars....	1,669,851		13,414,203		106,241	707,095		12,403,572
42	(b) Investment in water rights (reported)....1940...dollars....	618		44,872		787	157		786
43	Total investment in all enterprises....1930...dollars....	2,152,665		9,522,328		28,235	494,921		10,458,342
44	1920...dollars....	4,549,400		891,345		116,050	523,638		7,559,725
45	Increase or decrease (-), 1930-1940....percent....	-22.4		41.3		279.1	42.9		18.6
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	37.36		83.28		32.00	53.76		145.85
47	1930...dollars....	67.78		90.57		13.43	44.44		123.95
48	1920...dollars....	178.81		25.68		34.00	39.13		117.15
49	Average investment per acre irrigated....1939...dollars....	49.14		114.49		37.66	73.89		186.70
50	Estimated final investment in existing enterprises...1940...dollars....	1,827,242		23,642,390		112,588	753,923		23,505,025
51	1930...dollars....	2,367,345		11,051,403		30,235	590,621		26,352,070
52	1920...dollars....	4,595,575		893,345		119,050	655,888		8,355,775
53	Increase or decrease (-), 1930-1940....percent....	-22.8		113.9		272.4	27.6		-10.8
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	36.56		130.40		29.27	55.33		114.55
55	1930...dollars....	64.47		83.60		13.17	46.65		113.10
56	1920[1]...dollars....	112.15		13.58		16.62	38.34		64.80
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	
57	Enterprises reporting maintenance and operation...1939...number....	165	.....	217	16	26	166	1	93
58	Area irrigated in these enterprises....1939...acres....	30,601	.....	116,597	3,765	2,243	8,766	(2)	65,542
59	Cost of maintenance and operation....1939...dollars....	156,616	.....	683,166	20,978	17,568	25,572	(2)	221,026
60	Average cost, per acre irrigated....1939...dollars....	5.12	.....	5.86	5.57	7.83	2.92	(2)	3.37
61	1929...dollars....	13.91	.....	4.81	.....	3.84	3.65	.....	6.26
62	Total annual charges (reported)[3] [4]....1939...dollars....	80,654	.....	187,825	.....	.....	18,437	450	236,145
63	Average annual charge per acre irrigated....1939...dollars....	4.37	.....	2.90	.....	.....	3.65	3.00	4.03
64	Area against which charges were assessed....1939...acres....	19,086	.....	86,692	.....	.....	7,213	250	78,138
65	Average annual charge per acre assessed....1939...dollars....	4.23	.....	2.17	.....	.....	2.56	1.80	3.10
66	Total charges collected[3]....1939...dollars....	21,011	.....	109,666	.....	.....	12,487	400	246,899
67	Indebtedness to December 31 (reported)[4]....1939...dollars....	137,244	.....	10,849,403	.....	.....	94,750	2,500	4,327,322
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number....	111	.....	212	12	24	145	1	92
69	Area irrigated in these enterprises....1939...acres....	23,681	.....	116,540	2,238	1,935	5,783	(2)	65,635
70	Water delivered in these enterprises....1939...acre-feet..	62,115	.....	386,546	3,630	7,366	12,216	(2)	311,998
71	Average water delivered per acre irrigated....1939...acre-feet..	2.6	.....	3.3	1.6	3.8	2.1	(2)	4.8
72	Average cost of water per acre irrigated....1939...dollars....	6.46	.....	5.15	3.69	7.91	4.03	(2)	4.31
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number....	.....	.....	.....	.....	2	.....	.....	6
74	Irrigable area in these enterprises....1939...acres....	.....	.....	.....	.....	(2)	.....	.....	167,283
75	Irrigated area in these enterprises....1939...acres....	.....	.....	.....	.....	(2)	.....	.....	50,696
76	Area for which drains have been installed....1939...acres....	.....	.....	.....	.....	(2)	.....	.....	48,035
77	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	.....	.....	.....	106,040

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

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Apache	Cochise	Coconino	Gila	Graham	Greenlee
	FARM VALUES, 1940*							
1	Land and buildings, all farms ... dollars	153,676,675	5,945,776	10,580,705	6,293,728	1,207,076	7,382,308	1,102,423
2	Land and buildings, irrigated farms ... dollars	115,309,610	2,425,407	3,958,972	831,988	572,129	6,514,898	696,683
	Operated by—							
3	(a) Owners and managers ... dollars	99,320,601	2,378,877	3,704,127	779,828	511,879	5,586,860	488,603
4	(b) Tenants ... dollars	15,989,009	46,530	254,845	51,560	60,250	928,038	207,880
5	Average, land and buildings, per farm ... dollars	11,152.88	2,594.02	7,672.43	3,507.97	2,243.64	11,781.01	4,613.79
6	per acre in farms ... dollars	21.86	2.31	4.36	2.05	32.50	31.01	11.71
7	Buildings, irrigated farms reporting value ... [1] ... number	9,673	882	508	227	250	522	150
8	Total reported ... dollars	16,497,968	389,091	733,015	193,495	158,780	739,250	169,420
9	Average, per irrigated farm reporting ... dollars	1,705.57	441.15	1,442.94	852.40	635.12	1,416.19	1,129.47
10	per acre on all irrigated farms ... dollars	3.13	0.37	0.81	0.48	9.02	3.52	2.85
11	Buildings, nonirrigated farms reporting value ... number	7,587	2,146	532	1,245	243	64	85
12	Total reported ... dollars	6,503,469	551,610	1,216,227	584,130	207,441	102,600	68,275
13	Average, per nonirrigated farm reporting ... dollars	869.05	257.04	2,286.14	469.18	853.67	1,603.12	803.24
14	per acre on all nonirrigated farms ... dollars	0.32	0.14	0.60	0.13	1.76	0.36	0.27
15	Implements and machinery, irrigated farms reporting value ... number	8,031	770	483	207	147	399	139
16	Total reported ... dollars	7,461,726	182,776	347,136	54,977	75,670	530,109	87,953
17	Average, per irrigated farm reporting ... dollars	929.12	237.37	718.71	265.59	514.76	1,328.59	632.76
18	per acre, on all irrigated farms ... dollars	1.41	0.17	0.38	0.14	4.30	2.52	1.48
19	Implements and machinery, nonirrigated farms reporting value ... number	6,357	1,853	484	1,023	213	58	74
20	Total reported ... dollars	2,499,372	269,482	398,851	472,524	89,250	53,160	36,883
21	Average, per acre, on all nonirrigated farms ... dollars	0.12	0.07	0.20	0.11	0.76	0.19	0.14
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises ... 1940 ... number	[1] 1,912	36	361	36	71	181	62
23	1930 ... number	[1] 1,271	33	311	19	76	47	48
24	1920 ... number	1,388	39	328	21	83	100	69
25	Average size of enterprise based on irrigable area ... 1940 ... acres	578	913	154	88	22	209	96
26	1930 ... acres	854	698	36	117	29	1,017	161
27	1920[2] ... acres	586	707	104	97	84	419	222
28	Diversion dams ... 1940 ... number	602	66	31	13	45	40	27
29	Main canals and laterals ... 1940 ... length, miles	4,178.2	352.4	39.0	39.8	18.0	150.8	35.0
30	1930 ... length, miles	3,974	156	139	33	12	216	50
31	1920 ... length, miles	3,368	124	289	35	95	371	70
32	1940 ... capacity, c.f.s.[3]	13,258	378	448	84	99	667	239
33	1930 ... capacity, c.f.s.[3]	13,697	291	80	42	26	938	187
34	1920 ... capacity, c.f.s.[3]	11,707	249	837	49	162	883	232
35	Pipe lines[4] ... 1940 ... length, miles	344.3	0.3	17.7	2.9	2.9	10.4	0.3
36	Storage dams ... 1940 ... number	199	31	51	19	3	11	.....
37	Reservoirs ... 1940 ... number	333	31	110	22	5	71	.....
38	1930 ... number	378	27	198	4	7	46	.....
39	1920 ... number	340	36	165	4	2	56	2
40	1940 ... capacity, acre-feet	4,860,898	54,460	403	1,478	1,420,006	5,651	.....
41	1930 ... capacity, acre-feet	3,410,975	57,905	318	603	1,367,312	1,838	.....
42	1920 ... capacity, acre-feet	1,510,856	45,614	86,017	13	1	1,471	.....
43	Wells, flowing ... 1940 ... number	268	3	142	.....	1	100	.....
44	1930 ... number	215	2	159	.....	.....	50	.....
45	1920 ... number	310	.....	204	.....	.....	95	.....
46	1940 ... yield, g.p.m.	22,878	1,650	6,127	.....	(5)	6,137	.....
47	1930 ... yield, g.p.m.	13,772	35	6,016	.....	.....	7,043	.....
48	1920 ... yield, g.p.m.	14,547	.....	9,643	.....	.....	4,054	.....
49	Wells, pumped ... 1940 ... number	1,858	4	276	3	16	118	21
50	1930 ... number	1,398	.....	251	.....	13	5	2
51	1920 ... number	999	2	255	.....	18	4	14
52	1940 ... yield, g.p.m.	2,508,337	880	97,632	250	3,685	146,681	21,585
53	1930 ... yield, g.p.m.	1,832,352	.....	74,902	.....	899	1,022	788
54	1920 ... yield, g.p.m.	1,042,590	1,000	90,531	.....	5,930	1,880	3,125
55	Pumping plants ... 1940 ... number	1,970	5	288	7	16	122	32
56	1930 ... number	1,378	.....	262	.....	17	7	9
57	1920 ... number	744	1	241	2	19	10	21
58	Prime movers ... 1940 ... capacity, hp.	102,733	88	4,173	33	127	4,266	718
59	1930 ... capacity, hp.	57,633	.....	2,536	.....	129	38	57
60	1920 ... capacity, hp.	22,014	15	2,909	50	146	104	126
61	Pumps ... 1940 ... capacity, g.p.m.	2,992,986	1,280	116,136	1,315	3,595	159,649	33,275
62	1930 ... capacity, g.p.m.	2,125,293	.....	80,912	.....	1,234	1,292	8,003
63	1920 ... capacity, g.p.m.	1,048,030	1,000	94,556	30	5,900	11,030	8,735
64	Pumping lift, from all sources ... 1940 ... average, feet	60	38	48	75	37	56	25
65	1930 ... average, feet	46	.....	42	.....	49	24	22
66	1920 ... average, feet	44	30	43	22	24	18	20
67	from pumped wells ... 1940 ... average, feet	62	20	48	8	37	58	31
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll ... number	67	8	2	3	[7] 1	12	6
69	Irrigated area in these enterprises ... acres	515,128	9,499	(5)	1,574	484	34,007	3,769
70	Wages and salaries paid and payable ... dollars	1,444,641	69,770	(5)	6,612	1,592	27,218	4,046
71	Persons employed during week ending April 29 ... number	1,546	132	(5)	81	.....	75	7

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

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

	ITEM (For definitions and explanations, see text)	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	66,755,605	3,040,305	5,514,070	8,893,816	17,937,922	3,832,496	7,160,398	8,030,047
2	Land and buildings, irrigated farms.....dollars..	64,289,543	434,700	1,710,362	5,670,407	15,211,127	2,030,025	3,095,212	7,868,757
	Operated by—								
3	(a) Owners and managers.....dollars..	55,774,330	402,600	1,604,700	5,038,357	11,413,912	2,002,975	2,733,412	6,899,941
4	(b) Tenants.....dollars..	8,515,213	32,100	105,662	632,050	3,797,215	27,050	361,800	968,816
5	Average, land and buildings, per farm.....dollars..	15,130.51	3,016.22	2,879.40	8,929.77	13,891.44	50,750.62	8,670.06	12,878.40
6	per acre in farms.....dollars..	137.85	2.94	3.57	19.31	25.61	12.04	8.05	85.54
7	Buildings, irrigated farms reporting value.....number...	3,974	109	525	592	970	39	353	572
8	Total reported.....dollars..	9,189,677	105,555	351,926	1,115,642	1,175,899	402,936	755,346	1,017,936
9	Average, per irrigated farm reporting.....dollars..	2,312.45	968.39	670.34	1,884.53	1,212.27	10,331.69	2,139.79	1,779.61
10	per acre on all irrigated farms.....dollars..	19.70	0.71	0.73	3.80	1.98	2.39	1.97	11.07
11	Buildings, nonirrigated farms reporting value.....number...	345	201	1,791	243	179	122	343	48
12	Total reported.....dollars..	524,005	190,400	801,172	823,498	360,750	451,226	675,590	36,445
13	Average, per nonirrigated farm reporting.....dollars..	1,518.86	947.26	447.33	3,388.88	2,015.36	3,698.57	1,969.94	759.27
14	per acre on all nonirrigated farms.....dollars..	0.80	0.08	0.25	0.95	0.38	2.23	0.53	3.10
15	Implements and machinery, irrigated farms reporting value..number...	2,843	102	542	585	923	34	328	529
16	Total reported.....dollars..	3,213,777	78,725	176,290	392,479	1,178,049	100,641	282,267	780,877
17	Average, per irrigated farm reporting.....dollars..	1,130.42	771.81	325.26	670.90	1,276.33	2,960.03	799.59	1,476.14
18	per acre, on all irrigated farms.....dollars..	6.89	0.53	0.37	1.34	1.98	0.60	0.68	8.49
19	Implements and machinery, nonirrigated farms reporting value.....number...	211	134	1,510	219	145	103	295	35
20	Total reported.....dollars..	130,117	79,535	319,398	165,070	171,792	93,874	195,501	23,935
21	Average, per acre, on all nonirrigated farms.....dollars..	0.20	0.03	0.10	0.19	0.18	0.46	0.15	2.03
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940...number.....	139	79	30	314	263	37	200	103
23	1930...number.....	86	89	14	112	149	27	178	82
24	1920...number.....	105	63	18	125	167	19	224	27
25	Average size of enterprise based on irrigable area.....1940...acres.....	3,597	33	373	159	689	104	68	1,092
26	1930...acres.....	6,546	29	654	328	887	85	71	2,841
27	1920[1]..acres.....	3,904	54	664	328	394	377	76	4,776
28	Diversion dams.....1940...number.....	19	5	31	218	13	1	90	3
29	Main canals and laterals.....1940...length, miles.....	2,115.1	37.0	142.1	143.3	561.0	7.0	168.6	369.1
30	1930...length, miles.....	1,881	33	79	209	466	6	273	421
31	1920...length, miles.....	1,324	36	73	190	244	28	170	319
32	1940...capacity, c.f.s.[2]....	6,001	109	150	668	1,573	16	481	2,345
33	1930...capacity, c.f.s.[2]....	7,154	102	83	381	1,261	4	500	3,645
34	1920...capacity, c.f.s.[2]....	6,371	46	94	449	910	102	402	801
35	Pipe lines[3].....1940...length, miles.....	161.3	2.2	0.9	62.0	52.2	3.5	8.9	18.8
36	Storage dams.....1940...number.....	6	1	8	34	5	9	21	.....
37	Reservoirs.....1940...number.....	6	2	9	39	6	9	22	1
38	1930...number.....	11	16	11	7	3	.....	43	5
39	1920...number.....	5	5	8	18	9	6	23	1
40	1940...capacity, acre-feet..	2,156,500	(4)	10,952	122	1,200,137	51	11,134	(4)
41	1930...capacity, acre-feet..	740,205	18	15,990	21,926	1,200,002	.....	4,817	41
42	1920...capacity, acre-feet..	1,367,305	338	2,410	360	57	51	7,209	10
43	Wells, flowing.....1940...number.....	.....	.....	10	.....	.....	.....	12	.....
44	1930...number.....	1	2	.....	.....	1	.....	.....	.....
45	1920...number.....	.....	.....	2	6	1	.....	2	.....
46	1940...yield, g.p.m.....	.....	.....	2,350	.....	.....	.....	6,566	.....
47	1930...yield, g.p.m.....	150	28	.....	.....	500	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	350	500	.....	.....	.....
49	Wells, pumped.....1940...number.....	506	22	12	193	446	51	73	117
50	1930...number.....	538	38	.....	169	203	21	61	97
51	1920...number.....	238	11	1	248	136	16	20	30
52	1940...yield, g.p.m.....	1,070,032	9,316	3,895	145,367	725,506	55,423	32,775	195,310
53	1930...yield, g.p.m.....	1,146,898	8,941	.....	107,136	298,941	21,900	10,278	160,647
54	1920...yield, g.p.m.....	288,339	1,515	.....	456,766	149,099	15,600	5,460	23,345
55	Pumping plants.....1940...number.....	519	27	17	190	459	51	88	140
56	1930...number.....	496	40	.....	135	210	21	73	108
57	1920...number.....	95	11	1	136	124	14	36	33
58	Prime movers.....1940...capacity, hp.....	46,236	392	250	5,219	33,120	1,053	1,248	5,810
59	1930...capacity, hp.....	32,327	539	.....	5,122	10,287	254	637	5,697
60	1920...capacity, hp.....	7,945	90	.....	3,900	4,940	343	191	1,105
61	Pumps.....1940...capacity, g.p.m.....	1,227,027	12,368	8,000	154,977	785,018	59,843	41,293	380,210
62	1930...capacity, g.p.m.....	1,233,211	15,194	.....	63,896	299,621	16,950	18,280	387,700
63	1920...capacity, g.p.m.....	243,334	1,790	.....	408,581	148,924	15,200	6,005	102,945
64	Pumping lift, from all sources.....1940...average, feet.....	95	22	33	65	89	35	32	35
65	1930...average, feet.....	72	40	.....	43	59	24	28	40
66	1920...average, feet.....	72	20	.....	38	48	25	37	29
67	from pumped wells.....1940...average, feet.....	95	25	32	67	90	36	32	39
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]								
68	Enterprises reporting pay roll.....number...	12	.....	8	3	[6]2	.....	6	1
69	Irrigated area in these enterprises.....acres....	316,463	.....	6,598	14,814	64,148	.....	3,230	58,342
70	Wages and salaries paid and payable.....dollars..	998,774	.....	41,212	19,327	36,315	.....	4,615	225,207
71	Persons employed during week ending April 29.....number...	823	.....	62	22	133	.....	39	155

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

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

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	[9] 33,744,000	33,616,000	33,616,000	33,616,000	33,616,000	33,616,000	33,616,000
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	216,674	253,013	242,334	232,604	214,678	178,694	124,760
Land in all farms....acres....	18,044,542	17,741,627	16,052,962	17,456,750	17,416,075	16,636,719	14,891,356
Farms irrigated:[1]							
Farms....number...	1,529	1,284	1,096	1,166	232	20	(2)
Increase or decrease (-) over preceding census....percent..	[3] 39.5	.....	-6.0	402.6	(4)	(2)	.....
Proportion of all farms....percent..	0.7	0.5	0.5	0.5	0.1	(5)	(2)
Land in farms....acres....	592,920	(2)	363,549	(2)	(2)	(2)	(2)
Proportion of all farm land....percent..	3.3	(2)	2.3	(2)	(2)	(2)	(2)
Area irrigated....acres....	[6] 159,412	[7] 135,179	[8] 146,910	(9)	(9)	25	9
Increase or decrease (-) over preceding census....percent..	[3] 8.5	.....	.....	.....	.....	177.8	.....
Proportion of total land area of State....percent..	0.5	0.4	0.4	.....	.....	(5)	(5)
Proportion of all farm land....percent..	0.9	0.8	0.9	.....	.....	(5)	(5)
Value of irrigated farms (land and buildings)....dollars..	17,067,803	(2)	16,002,854	(2)	(2)	(2)	(2)
Average per farm....dollars..	11,162.72	(2)	14,601.14	(2)	(2)	(2)	(2)
Average per acre....dollars..	28.79	(2)	44.02	(2)	(2)	(2)	(2)
Value of farm implements and machinery[10]....dollars..	3,417,847	(2)	2,414,628	(2)	(2)	(2)	(2)
Average per farm[10]....dollars..	2,235.35	(2)	2,203.13	(2)	(2)	(2)	(2)
Average per acre[10]....dollars..	5.76	(2)	6.64	(2)	(2)	(2)	(2)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	1,298	(2)	1,043	944	310	(2)	(2)
Farms irrigated....number...	1,474	(2)	(2)	(2)	(2)	(2)	(2)
Area irrigated....acres....	161,601	(2)	151,787	143,946	27,753	(2)	(2)
Area existing works were capable of supplying with water....acres....	287,765	(2)	209,942	179,013	47,136	(2)	(2)
Area irrigable....acres....	314,929	(2)	225,992	[11] 246,480	[11] 52,883	(2)	(2)
Additional area existing works were capable of supplying with water....acres....	126,164	(2)	58,155	35,067	19,383	(2)	(2)
Additional irrigable area in enterprises not supplied with water....acres....	153,328	(2)	74,205	[11] 102,534	[11] 25,130	(2)	(2)
Investment in irrigation enterprises....dollars..	5,766,895	(2)	6,836,648	7,183,322	587,334	(2)	(2)
Increase or decrease (-) over preceding census....percent..	[3] -15.6	(2)	-4.8	(3)	.....	.....	.....
Average per acre based on area works were capable of supplying with water....dollars..	20.04	(2)	32.56	40.13	12.47	(2)	(2)
Increase or decrease (-) over preceding census....percent..	[3] -38.4	(2)	-18.9	221.8	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	5,878,930	(2)	6,844,092	7,283,522	612,834	(2)	(2)
Average per acre based on irrigable area in enterprises....dollars..	18.67	(2)	30.28	[11] 29.55	[11] 11.59	(2)	(2)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	5.46	(2)	7.03	13.67	(2)	(2)	(2)

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

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

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

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

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

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

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

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

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

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

State Table 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

Item and type of enterprise (For definitions and explanations, see text)	Census of— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED					
Total	Acres 161,601	Acres 341	Acres 151,787	Acres 143,046	Percent 6.5
Individual and partnership	158,750	341	145,487	140,471	9.1
Cooperative, incorporated	.....	.....	.....	1,075	.....
Cooperative, unincorporated	(2)	.....	6,300	2,400	(2)
Commercial	(2)	.....			
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	287,765	1,266	209,942	179,013	37.1
Individual and partnership	283,525	1,266	203,442	175,338	39.4
Cooperative, incorporated	.....	.....	.....	1,275	.....
Cooperative, unincorporated	(2)	.....	6,500	2,400	(2)
Commercial	(2)	.....			

Item and type of enterprise (For definitions and explanations, see text)	Census of— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
IRRIGABLE AREA[3]					
Total	Acres 314,929	Acres 1,266	Acres 225,992	Acres 246,480	Percent 39.4
Individual and partnership	310,689	1,266	218,992	242,380	41.8
Cooperative, incorporated	.....	.....	.....	1,500	.....
Cooperative, unincorporated	(2)	.....	7,000	2,600	(2)
Commercial	(2)	.....			

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

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

Type of enterprise (For definitions and explanations, see text)	Enterprises: Total	Enterprises: Serving 5 or more farms	Areas: Irrigable	Areas: Works were capable of supplying with water	Average cost: Primary enterprises: Works and equipment per acre[2]	Average cost: Primary enterprises: Maintenance and operation per acre[3]	Average cost: Supplemental enterprises: Works and equipment per acre[2]	Average cost: Supplemental enterprises: Maintenance and operation per acre[3]	Area irrigated, 1939[1]: Farms served	Area irrigated, 1939[1]: Total area	Area irrigated, 1939[1]: Cropland: From which crops were harvested	Area irrigated, 1939[1]: Cropland: On which crops failed	Area irrigated, 1939[1]: Irrigated pasture
	Number	Number	Acres	Acres	Dollars	Dollars	Dollars	Dollars	Number	Acres	Acres	Acres	Acres
Total	1,298	8	314,929	287,765	19.99	5.45	11.73	5.20	1,474	161,601	158,833	133	2,635
Individual and partnership	1,294	6	310,689	283,525	20.09	5.41	11.73	5.20	1,443	158,750	155,982	133	2,635
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	2	.....	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	.....	.....
Commercial	2	2	(4)	(4)	(4)	(4)	.....	.....	(4)	(4)	(4)	.....	.....

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

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

Type of enterprise (For definitions and explanations, see text)	Total investment, to January 1: 1940 Total	1940 Primary enterprises	1940 Supplemental enterprises	1940 Total cost of works and equipment	1940 Investment in water rights	1930	1920[2]	Increase or decrease (-) 1930-40	Average investment per acre works were capable of supplying water: Primary enterprises	Average investment per acre works were capable of supplying water: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Percent	Dollars	Dollars	Dollars	Dollars
Total	5,766,895	5,752,045	14,850	5,766,895	.....	6,836,648	7,183,322	-15.6	19.99	11.73	640	112,035
Individual and partnership	5,711,895	5,697,045	14,850	5,711,895	.....	6,711,648	7,073,297	-14.9	20.09	11.73	640	112,035
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	60,013	.....	.....	.....	.....	.....
Cooperative, unincorporated	(3)	(3)	.....	(3)	.....	125,000	50,012	(3)	(3)	.....	.....	.....
Commercial	(3)	(3)	.....	(3)	.....							

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

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

Type of enterprise (For definitions and explanations, see text)	Indebtedness of enterprises reporting: Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939	Average per acre works were capable of supplying with water	Arrearages of enterprises reporting[2]: Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939	Charges of enterprises reporting: Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	Acres	Acres	Dollars	Dollars	Dollars	Number	Dollars	Dollars	Dollars	Acres	Dollars	Dollars
Total	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,879	34,409	23,818
Partnership	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	(3)	(3)
Cooperative, incorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperative, unincorporated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	(3)	(3)

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

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

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

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

State Table 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940

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

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

State Table 11.—DAMS, BY MATERIAL: 1940 AND 1930

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

[1]Principally temporary dams, replaced annually.

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

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	1,633	100.0	2,013,697	100.0	61
Electric motor	**560**	**34.3**	**632,117**	**31.4**	**66**
Centrifugal	489	30.0	532,017	26.5	69
Turbine	67	4.1	95,700	4.7	40
Plunger	.....	.....	.....	.....	.....
Other	4	0.2	4,400	0.2	100
Internal-combustion engine	**870**	**53.3**	**1,142,543**	**56.7**	**58**
Centrifugal	765	46.8	986,951	49.0	60
Turbine	88	5.4	137,090	6.8	42
Plunger	1	0.1	2	(1)	50
Other	16	1.0	18,500	0.9	50
Other kinds of motive power	**12**	**0.7**	**17,400**	**0.9**	**42**
Centrifugal	6	0.4	7,900	0.4	41
Turbine	4	0.2	7,700	0.4	34
Plunger	.....	.....	.....	.....	.....
Other	2	0.1	1,800	0.1	55
Mixed kinds of motive power	**191**	**11.7**	**221,637**	**11.0**	**67**
Centrifugal	179	11.0	210,337	10.4	69
Turbine	7	0.4	5,800	0.3	47
Plunger	.....	.....	.....	.....	.....
Other	5	0.3	5,500	0.3	45
Total, 1930	1,206	.....	1,775,788	.....	68
Increase or decrease (-) 1930-1940	427	.....	237,909	.....	-7

MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
	Number	*Percent*	*Hp.*	*Percent*
Total, 1940	1,633	100.0	76,048	100.0
Centrifugal pump	**1,417**	**86.8**	**67,815**	**89.2**
Electric	568	34.8	22,063	29.0
Internal-combustion	834	51.1	45,077	59.3
Other	15	0.9	675	0.9
Turbine pump	**147**	**9.0**	**5,749**	**7.6**
Electric	61	3.7	2,133	2.8
Internal-combustion	83	5.1	3,481	4.6
Other	3	0.2	135	0.2
Plunger pump	**1**	**0.1**	**1**	(1)
Electric	.....	.....	.....	.....
Internal-combustion	1	0.1	1	(1)
Other	.....	.....	.....	.....
Other and mixed types of pumps	**68**	**4.1**	**2,483**	**3.2**
Electric	25	1.5	949	1.2
Internal-combustion	40	2.4	1,444	1.9
Other	3	0.2	90	0.1
Total, 1930	[2]1,184	.....	66,980	.....
Increase or decrease (-) 1930-1940	449	.....	9,068	.....

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

State Table 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

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

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

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

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

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

State Table 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

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

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

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

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS			
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms
1	Enterprises, 1940 ... number	1,293	21	1,142	122	8
2	Irrigated farms, 1939 ... number	1,474	...	1,142	264	68
3	Area irrigated, 1939 ... acres	161,601	...	135,687	21,035	4,879
4	(a) From which crops were harvested ... acres	158,833	...	133,213	20,791	4,829
5	(b) On which crops failed ... acres	133	...	133	...	...
6	(c) Irrigated pasture ... acres	2,635	...	2,341	244	50
	CAPITAL INVESTMENT, 1940					
7	Total capital investment in all enterprises ... dollars	5,752,045	47,800	4,930,198	668,570	105,377
8	(a) Cost of irrigation works and equipment ... dollars	5,752,045	47,800	4,930,198	668,670	105,377
9	(b) Investment in water rights ... dollars	...	...	...	...	...
10	Area works were capable of supplying with water ... acres	287,765	3,534	244,907	32,474	6,850
11	Average investment per acre irrigated ... dollars	35.59	...	36.34	31.79	21.00
12	Average investment per acre which the works could supply with water ... dollars	19.99	13.53	20.13	20.59	15.38
	MAINTENANCE AND OPERATION, AND CHARGES, 1939					
13	Enterprises reporting maintenance and operation ... number	1,228	18	1,084	118	8
14	(a) Area irrigated in these enterprises ... acres	153,346	...	127,943	20,524	4,879
15	(b) Cost of maintenance and operation ... dollars	835,801	18	724,445	84,975	26,453
16	(c) Average cost per irrigated acre reporting ... dollars	5.45	...	5.66	4.14	5.42
17	Total annual charges[2] ... dollars	34,409	...	...	...	34,409
18	Average charge per irrigated acre reporting ... dollars	7.05	...	...	...	7.05
19	Area against which charges were assessed ... acres	4,879	...	...	...	4,879
20	Average annual charge per acre assessed ... dollars	7.05	...	...	...	7.05
21	Total charges collected[2] ... dollars	23,818	...	...	...	23,818
	TYPE, 1940					
22	Individual and partnership ... number	1,289	21	1,140	122	6
23	Cooperative (incorporated and unincorporated) ... number	2	...	2	...	...
24	Commercial ... number	2	...	...	...	2
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939					
25	Enterprises reporting pay roll ... number	6	...	...	...	6
26	Wages and salaries paid and payable for 1939 ... dollars	12,823	...	...	...	12,823
27	Persons employed during week ending April 29, 1939 ... number	44	...	...	...	44
	SOURCE OF WATER SUPPLY, 1939					
28	Streams, gravity ... number	...	...	...	...	...
29	Streams, pumped ... number	45	...	34	7	4
30	Wells, pumped ... number	1,223	21	1,091	108	3
31	Wells, pumped and flowing; or wells flowing ... number	...	...	...	...	...
32	Lakes, gravity or pumped ... number	3	...	3	...	...
33	Streams and springs; or springs ... number	...	...	...	...	...
34	Mixed, streams and wells ... number	17	...	10	6	1
35	Other mixed or stored storm water ... number	5	...	4	1	...

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

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

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

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	ACRES IRRIGATED				COST OF IRRIGATION WORKS AND EQUIPMENT		
		No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999
1	Enterprises, 1940 ... number	21	575	633	64	872	372	49
2	Irrigated farms, 1939 ... number	.....	615	724	135	948	430	96
3	Area irrigated, 1939 ... acres	.....	35,877	97,358	28,366	89,244	56,746	15,611
4	(a) From which crops were harvested ... acres	.....	35,651	95,908	27,274	87,645	55,762	15,426
5	(b) On which crops failed ... acres	.....	38	95	.....	100	18	15
6	(c) Irrigated pasture ... acres	.....	188	1,355	1,092	1,499	966	170
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises ... dollars	47,800	1,671,712	3,350,200	682,333	1,908,335	2,890,865	952,845
8	(a) Cost of irrigation works and equipment ... dollars	47,800	1,671,712	3,350,200	682,333	1,908,335	2,890,865	952,845
9	(b) Investment in water rights ... dollars	.....	.....	.....	.....	.....	.....	.....
10	Area works were capable of supplying with water ... acres	3,534	79,904	164,378	39,949	164,118	96,992	26,655
11	Average investment per acre irrigated ... dollars	.....	46.60	34.41	34.05	21.38	50.94	61.04
12	Average investment per acre which the works could supply with water ... dollars	13.53	20.92	20.38	17.08	11.63	29.81	35.75
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation ... number	18	547	604	59	817	363	48
14	(a) Area irrigated in these enterprises ... acres	.....	34,103	92,963	26,280	83,162	54,888	15,296
15	(b) Cost of maintenance and operation ... dollars	18	237,755	496,518	101,600	448,883	303,562	83,446
16	(c) Average cost per irrigated acre reporting ... dollars	.....	6.97	5.34	3.87	5.40	5.53	5.46
17	Total annual charges[2] ... dollars	.....	.....	1,810	32,599	1,090	3,895	29,424
18	Average charge per irrigated acre reporting ... dollars	.....	.....	3.13	7.58	3.67	2.69	9.39
19	Area against which charges were assessed ... acres	.....	.....	579	4,300	297	1,447	3,135
20	Average annual charge per acre assessed ... dollars	.....	.....	3.13	7.58	3.67	2.69	9.39
21	Total charges collected[2] ... dollars	.....	.....	.....	23,818	.....	2,175	21,643
	TYPE, 1940							
22	Individual and partnership ... number	21	574	632	62	870	372	47
23	Cooperative (incorporated and unincorporated) ... number	.....	1	1	.....	2	.....	.....
24	Commercial ... number	.....	.....	.....	2	.....	.....	2
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
25	Enterprises reporting pay roll ... number	.....	.....	2	4	2	1	3
26	Wages and salaries paid and payable for 1939 ... dollars	.....	.....	12,823		4,040		8,783
27	Persons employed during week ending April 29, 1939 ... number	.....	.....	44		26		18
	SOURCE OF WATER SUPPLY, 1939							
28	Streams, gravity ... number	.....	.....	.....	.....	.....	.....	.....
29	Streams, pumped ... number	.....	34	4	7	39	2	4
30	Wells, pumped ... number	21	534	616	52	820	363	40
31	Wells, pumped and flowing; or wells flowing ... number	.....	.....	.....	.....	.....	.....	.....
32	Lakes, gravity or pumped ... number	.....	2	1	.....	3	.....	.....
33	Streams and springs; or springs ... number	.....	.....	.....	.....	.....	.....	.....
34	Mixed, streams and wells ... number	.....	3	10	4	7	6	4
35	Other mixed or stored storm water ... number	.....	2	2	1	3	1	1

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

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

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

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

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Arkansas River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Sallisaw, Okla.	Sequoyah	531	31.82	-11.05	6.75	-3.07	9.27	+0.77	12.33	-2.42	3.47	-6.33	63.5	+1.5
Fayetteville Exp.	Washington	1,451	35.47	-8.83	7.13	-2.14	9.78	+0.88	15.97	+1.34	2.59	-8.91	61.1	+2.2
Lutherville	Johnson	775	65.14	+16.65	12.29	+0.94	19.68	+8.66	18.11	+3.50	15.06	+3.55	62.2	+1.6
Cotter	Baxter	440	49.30	+7.00	12.95	+3.37	13.82	+4.68	17.65	+4.00	4.88	-5.05	(2)	(2)
Pine Bluff	Jefferson	215	66.26	+14.43	8.93	-3.93	29.35	+15.08	22.62	+8.52	5.36	-5.24	65.1	+1.6
Pocahontas	Randolph	309	50.28	+0.32	9.81	-1.17	15.48	+3.23	14.80	+0.71	10.19	-2.45	61.2	+1.0
Searcy	White	245	63.74	+17.14	12.87	+1.61	21.51	+9.33	18.04	+5.27	11.32	+0.93	63.0	+1.6
Stuttgart	Arkansas	214	62.20	+11.80	6.97	-5.42	28.23	+14.22	17.34	+3.67	9.66	-0.67	63.7	+1.3
Red River														
Antlers, Okla.	Pushmataha	511	39.92	-4.90	5.89	-4.82	11.71	+2.47	17.24	+2.19	5.08	-4.74	65.1	+1.9
Idabel, Okla.	McCurtain	504	39.91	-5.09	5.61	-5.01	15.68	+4.39	14.23	-0.06	4.39	-4.41	64.8	+0.9
Fulton	Hempstead	260	46.91	+0.85	9.30	-1.28	22.10	+9.70	8.24	-5.24	7.27	-2.33	(2)	(2)
Magnolia	Columbia	315	49.78	+2.34	12.35	+0.18	22.40	+9.59	8.36	-4.77	6.67	-2.66	66.8	+1.6
Ouachita River														
Mena	Polk	1,207	48.59	-3.58	8.69	-2.98	13.81	+2.32	16.38	-0.57	9.71	-2.35	63.7	+3.3
Jessieville	Garland	750	65.80	+13.84	14.35	+1.78	15.69	+2.26	22.29	+6.45	13.47	+3.35	(2)	(2)
Warren	Bradley	206	57.22	+4.54	7.65	-5.84	24.80	+10.54	16.81	+3.22	7.96	-3.38	65.4	+1.5
Portland	Ashley	122	47.99	-2.34	7.73	-5.22	25.86	+11.83	9.02	-4.53	5.38	-4.42	64.4	-0.2
St. Francis River														
St. Francis	Clay	290	55.25	+2.60	8.58	-3.59	22.42	+7.45	14.66	+2.67	9.50	-3.93	(2)	(2)
Marked Tree	Poinsett	229	57.39	+7.26	6.43	-6.31	23.55	+9.15	19.56	+6.66	7.85	-2.24	61.2	+0.6
Marianna	Lee	235	45.45	-2.13	4.19	-7.35	21.68	+8.18	13.03	+0.73	6.55	-3.69	63.7	+1.3

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

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

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

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL[1] [2]	MISSISSIPPI RIVER (Mississippi River drains entire State; therefore Mississippi River total for Arkansas is identical with State total)					
			St. Francis River	White River				
			L'Anguille River[3] (10)	Total		Direct (13)		
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	1,474	138	839		508		
2	Area irrigated....1939...acres....	161,601	16,325	92,088		56,439		
3	(a) Cropland harvested....1939...acres....	158,833	15,464	90,534		55,828		
4	(b) Crop failure....1939...acres....	133	20	103		23		
5	(c) Pasture....1939...acres....	2,635	841	1,451		588		
6	Area irrigated....1929...acres....	151,787	13,282	85,884		.....		
7	1919...acres....	143,946	4,965	74,918		.....		
8	Increase or decrease (-), 1929-1939....percent....	6.5	22.9	7.2		.....		
9	Irrigable area in enterprises....1940...acres....	314,929	32,011	164,176		97,810		
10	1930...acres....	225,992	23,587	130,476		.....		
11	1920[4]..acres....	246,480	14,196	131,346		.....		
12	Excess of irrigable area over the area irrigated..1940...acres....	153,328	15,686	72,088		41,371		
13	1930...acres....	74,205	10,305	44,592		.....		
14	1920[4]..acres....	102,534	9,233	56,428		.....		
15	Area works were capable of supplying with water...1940...acres....	287,765	30,992	158,722		95,578		
16	1930...acres....	209,942	21,599	119,560		.....		
17	1920...acres....	179,013	5,920	95,709		.....		
18	Increase or decrease (-), 1930-1940....percent....	37.1	43.5	32.8		.....		
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	126,164	14,667	66,634		39,139		
20	1930...acres....	58,155	8,317	33,676		.....		
21	1920...acres....	35,067	955	20,791		.....		
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	56.2	52.7	58.0		59.1		
23	1929...percent....	72.3	61.5	71.8		.....		
24	1919...percent....	80.4	83.9	78.3		.....		
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	5,766,895	334,988	3,271,717		2,566,147		
26	(a) Cost of irrigation works and equipment....1940...dollars....	5,766,895	334,988	3,271,717		2,566,147		
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....	.....		.....		
28	Total investment in irrigation enterprises....1930...dollars....	6,836,648	432,600	4,165,818		.....		
29	1920...dollars....	7,183,322	218,727	3,992,967		.....		
30	Increase or decrease (-), 1930-1940....percent....	-15.6	-22.6	-21.5		.....		
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	20.04	10.81	20.61		26.85		
32	1930...dollars....	32.56	20.03	34.84		.....		
33	1920...dollars....	40.13	36.95	41.72		.....		
34	Average investment per acre irrigated....1939...dollars....	35.69	20.52	35.53		45.47		
35	Estimated final investment in existing enterprises..1940...dollars....	5,878,930	335,363	3,294,327		2,581,907		
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	18.67	10.48	20.07		26.40		
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	1,228	3	123	711	2	441	1
38	Area irrigated in these enterprises....1939...acres....	153,346	231	15,161	87,488	(5)	54,053	(5)
39	Cost of maintenance and operation....1939...dollars....	835,891	1,201	73,094	476,133	(5)	322,483	(5)
40	Average cost, per acre irrigated....1939...dollars....	5.45	5.20	4.82	5.44	(5)	6.00	(5)
41	Total annual charges (reported)[6] [7]....1939...dollars....	34,409	.....	.....	13,535	.....	9,360	.....
42	Average annual charge per acre irrigated....1939...dollars....	7.05	.....	.....	5.24	.....	7.54	.....
43	Area against which charges were assessed....1939...acres....	4,879	.....	.....	2,582	.....	1,242	.....
44	Average annual charge per acre assessed....1939...dollars....	7.05	.....	.....	5.24	.....	7.54	.....
45	Total charges collected[6]....1939...dollars....	23,818	.....	.....	2,175	.....	.....	.....
46	Indebtedness to December 31 (reported)[7]....1939...dollars....	.....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	1,258	2	123	722	1	450	1
48	Area irrigated by these enterprises....1939...acres....	158,767	(8)	16,320	91,470	(8)	56,201	(8)
49	Water delivered....1939...acre-feet..	441,289	(8)	40,939	255,838	(8)	153,699	(8)
50	Average water delivered per acre irrigated....1939...acre-feet..	2.8	(8)	2.5	2.8	(8)	2.7	(8)
51	Average cost of water per acre irrigated....1939...dollars....	5.42	(8)	4.82	5.48	(8)	6.05	(8)
52	Average cost of water per acre-foot delivered..1939...dollars....	1.95	(8)	1.93	1.96	(8)	2.21	(8)
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	96	.....	14	40	.....	10	.....
54	Irrigable area in these enterprises....1939...acres....	34,894	.....	3,310	9,694	.....	2,365	.....
55	Irrigated area in these enterprises....1939...acres....	14,700	.....	1,778	5,719	.....	1,153	.....
56	Area for which drains have been installed....1939...acres....	26,078	.....	1,455	6,773	.....	2,161	.....
57	Additional area needing drainage....1939...acres....	2,016	.....	355	909	.....	25	.....

[1] Data for 1 enterprise in Bartholomew Bayou Drainage Basin (23) (number refers to separate map) are included with State total. [2] Data for 1 enterprise in Mississippi River "Direct" Drainage Basin (11) (number refers to separate map) are included with Mississippi River total. [3] Data for 1 enterprise in St. Francis River Basin (1) (number refers to separate map) are included with L'Anguille River Basin (10). [4] For 1920 relates to total area in enterprises. Irrigable area for that year was not reported. [5] Data are included only in totals because less than 3 enterprises reported in the 1940 Census. [6] Annual charges may include costs of maintenance and operation, and assessments for payments on principal and interest on bonds, notes, warrants, and for special reasons. [7] Annual charges and indebtedness were reported only by enterprises serving 5 or more farms, and items 41 to 46, inclusive, relate to those enterprises only. [8] Data are not shown because less than 3 enterprises reported.

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued						
		White River—Continued						
				Cache River				
		Black River (3)	Village River (24)	Total	Direct (2)	Bayou de Vue (9)	Big Creek (23)	Arkansas River (7)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	13	33	214	52	162	71	495
2	Area irrigated....1939...acres....	1,805	5,198	19,881	5,253	14,428	8,965	53,174
3	(a) Cropland harvested....1939...acres....	1,795	5,133	18,913	4,923	13,990	8,865	52,821
4	(b) Crop failure....1939...acres....	10	20	50	30	20	.....	10
5	(c) Pasture....1939...acres....	.....	45	718	300	418	100	343
6	Area irrigated....1929...acres....	.....	.....	.....	.....	.....	.....	52,446
7	1919...acres....	.....	.....	.....	.....	.....	.....	63,521
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	.....	.....	.....	.....	1.4
9	Irrigable area in enterprises....1940...acres....	3,872	6,916	40,082	9,687	30,395	15,496	118,725
10	1930...acres....	.....	.....	.....	.....	.....	.....	71,754
11	1920[1]...acres....	.....	.....	.....	.....	.....	.....	100,296
12	Excess of irrigable area over the area irrigated..1940...acres....	2,067	1,718	20,401	4,434	15,967	6,531	65,551
13	1930...acres....	.....	.....	.....	.....	.....	.....	19,308
14	1920[1]...acres....	.....	.....	.....	.....	.....	.....	36,775
15	Area works were capable of supplying with water...1940...acres....	3,064	6,863	38,431	9,322	29,109	14,786	98,034
16	1930...acres....	.....	.....	.....	.....	.....	.....	68,608
17	1920...acres....	.....	.....	.....	.....	.....	.....	76,779
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	.....	.....	42.9
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	1,259	1,665	18,750	4,069	14,681	5,821	44,860
20	1930...acres....	.....	.....	.....	.....	.....	.....	16,162
21	1920...acres....	.....	.....	.....	.....	.....	.....	13,258
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	58.9	75.7	51.2	56.4	49.6	60.6	54.2
23	1929...percent....	.....	.....	.....	.....	.....	.....	76.4
24	1919...percent....	.....	.....	.....	.....	.....	.....	82.7
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	37,800	70,250	380,770	83,025	297,745	216,750	2,159,490
26	(a) Cost of irrigation works and equipment....1940...dollars....	37,800	70,250	380,770	83,025	297,745	216,750	2,159,490
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....	.....	.....	.....	.....	.....
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	.....	.....	.....	.....	2,233,855
29	1920...dollars....	.....	.....	.....	.....	.....	.....	2,950,522
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	.....	.....	-3.3
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	12.34	10.24	9.91	8.91	10.23	14.66	22.03
32	1930...dollars....	.....	.....	.....	.....	.....	.....	32.56
33	1920...dollars....	.....	.....	.....	.....	.....	.....	38.43
34	Average investment per acre irrigated....1939...dollars....	20.94	13.51	19.35	15.81	20.64	24.18	40.61
35	Estimated final investment in existing enterprises..1940...dollars....	40,400	70,250	384,220	84,375	299,845	217,550	2,248,540
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	10.43	10.16	9.59	8.71	9.86	14.04	18.94
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary / Sup. Enterprises		Primary / Sup. Enterprises		Primary / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	8	24	191 / 1	47	144 / 1	47	392 / 1
38	Area irrigated in these enterprises....1939...acres....	1,623	4,127	18,720 /	5,253	13,467 /	8,965	50,683 / (2)
39	Cost of maintenance and operation....1939...dollars....	10,725	16,213	87,947 / (2)	23,713	64,234 / (2)	38,765	286,594 / (2)
40	Average cost, per acre irrigated....1939...dollars....	6.61	3.93	4.70 /	4.51	4.77 /	4.32	5.65 / (2)
41	Total annual charges (reported)[3] [4]....1939...dollars....	.....	2,175	..... /	.....	..... /	2,000	20,874 / .....
42	Average annual charge per acre irrigated....1939...dollars....	.....	3.82	..... /	.....	..... /	2.60	9.09 / .....
43	Area against which charges were assessed....1939...acres....	.....	570	..... /	.....	..... /	770	2,297 / .....
44	Average annual charge per acre assessed....1939...dollars....	.....	3.82	..... /	.....	..... /	2.60	9.09 / .....
45	Total charges collected[3]....1939...dollars....	.....	2,175	..... /	.....	..... /	.....	21,643 / .....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	.....	.....	..... /	.....	..... /	.....	..... / .....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	8	26	191 /	46	145 /	47	411 / 1
48	Area irrigated by these enterprises....1939...acres....	1,565	5,198	19,541 /	5,253	14,288 /	8,965	50,963 / (5)
49	Water delivered....1939...acre-feet..	5,412	17,107	57,775 /	15,673	42,102 /	21,845	144,498 / (5)
50	Average water delivered per acre irrigated....1939...acre-feet..	3.5	3.3	3.0 /	3.0	2.9 /	2.4	2.8 / (5)
51	Average cost of water per acre irrigated....1939...dollars....	5.59	3.93	4.70 /	4.51	4.77 /	4.32	5.52 / (5)
52	Average cost of water per acre-foot delivered..1939...dollars....	1.62	1.19	1.59 /	1.51	1.62 /	1.77	1.95 / (5)
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	2	5	20 /	8	12 /	3	42 / .....
54	Irrigable area in these enterprises....1939...acres....	(2)	910	4,264 /	1,542	2,722 /	1,650	21,890 / .....
55	Irrigated area in these enterprises....1939...acres....	(2)	666	2,952 /	998	1,954 /	564	7,203 / .....
56	Area for which drains have been installed....1939...acres....	(2)	660	2,447 /	976	1,471 /	1,000	17,850 / .....
57	Additional area needing drainage....1939...acres....	.....	100	314 /	20	294 /	470	752 / .....

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

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

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

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

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

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

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

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

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Arkansas		Clay	Craighead
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms.....1940...number.....	216,574		2,324		3,307	4,541
2	1930...number.....	242,334		2,301		3,435	4,757
3	Irrigated farms.....1940...number.....	1,529		608		14	86
4	1930...number.....	1,096		546		9	40
5	Increase or decrease (-), 1930-1940.....percent....	39.5		11.4		55.6	115.0
	Operated by—						
6	(a) Owners and managers.....1940...number.....	958		360		9	64
7	1930...number.....	625		299		4	27
8	(b) Tenants.....1940...number.....	571		248		5	22
9	1930...number.....	471		247		5	13
10	Land in all farms.....1940...acres.....	18,044,542		393,056		289,680	337,346
11	Land in irrigated farms.....1940...acres.....	592,920		257,345		8,363	22,917
12	Average per farm.....1940...acres.....	388		423		597	266
13	(a) Operated by owners and managers.....1940...acres.....	394,572		163,121		6,123	17,557
14	Average per farm.....1940...acres.....	412		453		680	274
15	(b) Operated by tenants.....1940...acres.....	198,348		94,224		2,240	5,350
16	Average per farm.....1940...acres.....	347		380		448	243
17	Approximate land area.....1940...acres.....	33,744,000		662,400		416,000	458,880
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	161,601		65,316		1,643	6,524
19	(a) Cropland harvested.....1939...acres.....	158,833		64,554		1,633	6,394
20	(b) Crop failure.....1939...acres.....	133		23		10	20
21	(c) Pasture.....1939...acres.....	2,635		739		.....	110
22	Area irrigated.....1929...acres.....	151,787		84,662		795	3,489
23	1919...acres.....	143,946		76,511		345	3,190
24	Increase or decrease (-), 1929-1939.....percent....	6.5		-22.9		106.7	87.0
25	Irrigable area in enterprises.....1940...acres.....	314,929		128,385		3,672	14,339
26	1930...acres.....	225,992		112,563		1,447	4,910
27	1920[4]..acres.....	216,480		117,822		1,040	6,869
28	Excess of irrigable area over the area irrigated..1940...acres.....	153,328		63,069		2,029	7,815
29	1930...acres.....	74,205		27,901		652	1,421
30	Area works were capable of supplying with water...1940...acres.....	287,765		110,146		2,864	13,937
31	1930...acres.....	209,942		106,588		1,137	4,725
32	1920...acres.....	179,013		89,546		905	5,047
33	Increase or decrease (-), 1930-1940.....percent....	37.1		3.3		151.9	195.0
34	Excess, capability of works over area irrigated...1940...acres.....	126,164		44,830		1,221	7,413
35	1930...acres.....	58,155		21,926		342	1,236
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	27.3		25.4		19.6	28.5
37	1929...percent....	41.8		45.4		38.3	41.7
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	56.2		59.3		57.4	46.8
39	1929...percent....	72.3		79.4		69.9	73.8
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	5,766,895		3,193,737		35,700	117,355
41	(a) Cost of irrigation works and equipment.....1940...dollars....	5,766,895		3,193,737		35,700	117,355
42	(b) Investment in water rights (reported).....1940...dollars....	.....		.....		.....	.....
43	Total investment in all enterprises.....1930...dollars....	6,836,648		3,732,165		28,400	119,100
44	1920...dollars....	7,183,322		3,492,391		47,414	140,375
45	Increase or decrease (-), 1930-1940.....percent....	-15.6		-14.4		25.7	-1.5
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	20.04		29.00		12.47	8.42
47	1930...dollars....	32.56		35.01		24.98	25.21
48	1920...dollars....	40.13		39.00		52.39	27.81
49	Average investment per acre irrigated.....1939...dollars....	35.69		48.90		21.73	17.99
50	Estimated final investment in existing enterprises..1940...dollars....	5,878,830		3,262,847		36,200	117,455
51	1930...dollars....	6,844,092		3,733,965		28,400	119,100
52	1920...dollars....	7,283,522		3,564,791		47,414	140,375
53	Increase or decrease (-), 1930-1940.....percent....	-14.1		-12.6		27.5	-1.4
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	18.67		25.41		9.86	8.19
55	1930...dollars....	30.28		33.17		19.63	24.26
56	1920[4]..dollars....	29.55		30.26		45.59	20.44
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises		
57	Enterprises reporting maintenance and operation...1939...number.....	1,229	3	473	2	7	85
58	Area irrigated in these enterprises.....1939...acres.....	153,346	231	61,043	(3)	1,461	6,524
59	Cost of maintenance and operation.....1939...dollars....	835,891	1,201	339,806	(3)	9,975	35,290
60	Average cost, per acre irrigated.....1939...dollars....	5.45	5.19	5.49	(3)	6.83	5.41
61	1929...dollars....	7.03	.....	6.82	.....	7.69	5.20
62	Total annual charges (reported)[5] [6].....1939...dollars....	34,409	.....	30,144	.....	.....	.....
63	Average annual charge per acre irrigated.....1939...dollars....	7.05	.....	.....	.....	.....	.....
64	Area against which charges were assessed.....1939...acres.....	4,879	.....	3,417	.....	.....	.....
65	Average annual charge per acre assessed.....1939...dollars....	7.05	.....	.....	.....	.....	.....
66	Total charges collected[5].....1939...dollars....	23,818	.....	21,643	.....	.....	.....
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	1,259	2	495	2	7	82
69	Area irrigated in these enterprises.....1939...acres.....	158,767	(7)	63,350	(7)	1,403	6,514
70	Water delivered in these enterprises.....1939...acre-feet..	441,289	(7)	172,016	(7)	5,028	16,560
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.8	(7)	2.7	(7)	3.6	2.5
72	Average cost of water per acre irrigated.....1939...dollars....	5.42	(7)	5.46	(7)	5.71	5.41
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	96	.....	31	.....	2	6
74	Irrigable area in these enterprises.....1939...acres.....	34,894	.....	17,195	.....	(3)	850
75	Irrigated area in these enterprises.....1939...acres.....	14,700	.....	5,715	.....	(3)	549
76	Area for which drains have been installed.....1939...acres.....	26,078	.....	15,595	.....	(3)	534
77	Additional area needing drainage.....1939...acres.....	2,016	.....	400	.....	.....	31

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

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

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

Cross	Jackson	Jefferson	Lawrence	Lee	Lonoke	Monroe	Poinsett		Prairie	St. Francis	Woodruff	All other counties[1]	
3,836	2,861	6,484	2,757	4,280	4,424	2,633	4,136		2,063	5,456	2,747	164,825	1
4,398	3,768	8,099	2,851	5,569	6,189	3,415	3,676		2,131	6,507	3,432	181,806	2
78	59	8	9	27	131	28	118		248	28	36	51	3
36	2	.....	.....	9	86	20	103		189	21	13	22	4
116.7	(2)	.....	.....	200.0	52.3	40.0	14.6		31.2	33.3	176.9	131.8	5
50	30	6	7	2	84	15	88		172	11	19	41	6
24	.....	.....	.....	2	42	9	66		122	7	6	17	7
28	29	2	2	25	47	13	30		76	17	17	10	8
12	.....	.....	.....	7	44	11	37		67	14	7	7	9
238,684	281,526	318,450	272,732	247,999	381,462	187,477	277,788		263,182	300,203	217,457	14,037,500	10
23,424	17,122	7,475	2,177	10,154	53,313	13,096	39,177		94,298	18,631	14,224	11,204	11
300	290	934	242	376	407	468	332		380	665	395	220	12
16,232	11,627	(3)	(3)	(3)	31,049	7,312	30,782		67,658	11,285	9,078	10,216	13
325	388	(3)	(3)	(3)	370	487	350		393	1,026	478	249	14
7,192	5,495	(3)	(3)	(3)	22,264	5,784	8,395		26,640	7,346	5,146	988	15
257	189	(3)	(3)	(3)	474	445	280		351	432	303	99	16
400,640	407,680	569,600	378,880	396,800	512,000	394,880	487,680		431,360	407,040	378,880	27,441,280	17
9,444	7,992	367	688	2,527	15,608	3,445	13,217		24,903	4,814	4,655	458	18
9,051	7,634	367	688	2,527	15,593	3,405	12,636		24,831	4,714	4,348	458	19
20	50	.....	.....	.....	.....	.....	.....		10	.....	.....	.....	20
373	308	.....	.....	.....	15	40	581		62	100	307	.....	21
3,698	.....	.....	.....	2,255	12,567	2,345	10,517		25,612	3,064	1,950	833	22
3,410	.....	.....	.....	.....	24,941	1,135	10,310		10,225	6,840	3,838	3,201	23
155.4	.....	.....	.....	12.1	24.2	46.9	25.7		-2.8	57.1	138.7	.....	24
18,147	12,021	1,301	910	3,440	38,918	6,988	27,839		40,515	8,456	8,178	1,830	25
7,048	.....	.....	.....	4,275	24,032	2,765	25,769		34,355	3,840	3,881	1,097	26
11,830	.....	.....	.....	.....	34,502	2,733	26,578		16,900	10,490	9,915	7,801	27
8,703	4,029	934	222	913	23,310	3,543	14,622		15,612	3,642	3,523	1,362	28
3,350	.....	.....	.....	2,020	11,465	420	15,252		8,753	776	1,931	264	29
16,948	11,998	1,041	860	3,440	36,933	6,508	27,640		39,376	8,456	7,158	460	30
6,828	.....	.....	.....	4,275	21,715	2,705	22,331		31,825	3,760	3,006	1,017	31
4,655	.....	.....	.....	.....	30,788	1,565	12,850		13,216	9,355	5,245	5,841	32
148.2	.....	.....	.....	-19.5	70.1	140.6	23.8		23.7	123.1	138.1	.....	33
7,504	4,006	674	172	913	21,325	3,063	14,423		14,473	3,642	2,503	2	34
3,130	.....	.....	.....	2,020	9,148	360	11,814		6,213	726	1,056	184	35
40.3	46.7	4.9	31.6	24.9	29.3	26.3	33.7		26.4	25.8	32.7	4.1	36
45.6	.....	.....	.....	30.5	38.7	28.7	39.6		38.7	30.5	45.2	25.8	37
55.7	66.6	35.3	80.0	73.5	42.3	52.9	47.8		63.2	56.9	65.0	99.6	38
54.2	.....	.....	.....	52.7	57.9	86.7	47.1		80.5	80.8	64.9	81.9	39
190,200	121,175	4,750	12,100	41,231	410,649	98,076	283,153		1,019,575	154,519	70,725	13,950	40
190,200	121,175	4,750	12,100	41,231	410,649	98,076	283,153		1,019,575	154,519	70,725	13,950	41
.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	.....	42
143,000	.....	.....	.....	123,700	817,355	112,200	274,100		1,234,803	129,500	96,600	25,725	43
174,628	.....	.....	.....	.....	1,272,693	76,674	404,158		787,275	425,414	192,550	169,750	44
33.0	.....	.....	.....	-66.7	-49.8	-12.6	3.3		-17.4	19.3	-26.8	-46.8	45
11.22	10.10	4.56	14.07	11.99	11.12	15.07	10.24		25.89	18.27	9.88	30.33	46
20.94	.....	.....	.....	28.94	37.64	41.48	12.27		38.80	34.17	32.14	25.29	47
37.51	.....	.....	.....	.....	41.34	48.99	31.45		59.57	45.47	36.71	29.06	48
20.14	15.16	12.94	17.59	16.32	26.31	28.47	21.42		40.94	32.10	15.19	30.46	49
190,575	122,175	4,900	14,200	41,231	417,799	98,076	285,453		1,021,725	154,519	71,525	40,250	50
143,000	.....	.....	.....	123,700	817,355	112,200	278,044		1,236,003	129,500	96,600	26,225	51
174,628	.....	.....	.....	.....	1,297,493	76,674	404,158		789,275	425,414	192,550	170,750	52
33.3	.....	.....	.....	-66.7	-48.9	-12.6	2.7		-17.3	19.3	-26.0	53.5	53
10.50	10.16	3.77	15.60	11.99	10.74	14.03	10.25		25.22	18.27	8.75	22.12	54
20.29	.....	.....	.....	28.94	34.01	40.58	10.79		35.97	33.72	24.89	23.91	55
14.76	.....	.....	.....	.....	37.61	28.05	15.21		46.70	40.55	19.42	21.89	56
							Primary Enterprises	Sup. Enterprises					
70	49	5	5	10	117	25	109	1	215	28	26	5	57
8,230	6,921	337	688	2,527	14,620	3,445	13,144	.....	24,665	4,814	3,577	450	58
42,953	30,017	385	2,250	5,188	88,332	13,744	55,160	(5)	167,309	27,597	14,595	3,270	59
5.22	4.34	1.14	3.27	2.05	6.04	3.99	4.20	.....	6.78	5.73	4.08	7.27	60
5.99	.....	.....	.....	7.61	8.46	11.31	5.10	.....	7.18	9.66	11.08	8.70	61
.....	2,175	90	.....	2,000	.....	.....	.....	.....	.....	.....	.....	.....	62
.....	3.82	0.74	.....	2.60	.....	.....	.....	.....	.....	.....	.....	.....	63
.....	570	122	.....	770	.....	.....	.....	.....	.....	.....	.....	.....	64
.....	3.82	0.74	.....	2.60	.....	.....	.....	.....	.....	.....	.....	.....	65
.....	2,175	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67
77	50	6	5	10	124	23	102	.....	214	28	30	6	68
9,444	7,992	367	688	2,527	15,195	3,445	13,212	.....	24,833	4,814	4,525	458	69
27,705	25,036	295	2,611	6,147	45,898	11,177	33,034	.....	70,255	11,620	13,095	812	70
2.9	3.1	0.8	3.8	2.4	3.0	3.2	2.5	.....	2.8	2.4	2.9	1.8	71
5.22	4.34	1.14	3.27	2.05	6.01	3.99	4.20	.....	6.77	5.73	4.08	7.27	72
12	2	2	4	.....	9	2	9	.....	6	.....	8	3	73
2,930	(3)	(3)	710	.....	2,945	(3)	2,338	.....	1,105	.....	2,104	1,652	74
1,506	(3)	(3)	526	.....	1,277	(3)	1,460	.....	689	.....	1,661	290	75
1,775	(3)	(3)	660	.....	2,550	(3)	460	.....	521	.....	1,086	292	76
.....	(3)	.....	.....	.....	65	.....	550	.....	312	.....	558	.....	77

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

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

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

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

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

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

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

	ITEM (For definitions and explanations, see text)	Lee	Lonoke	Monroe	Poinsett	Prairie	St. Francis	Woodruff	All other counties[1]
	FARM VALUES, 1940*								
1	Land and buildings, all farms.....dollars..	7,951,838	12,435,174	5,109,223	13,675,834	6,160,734	11,752,760	6,169,648	324,729,105
2	Land and buildings, irrigated farms.....dollars..	305,835	1,671,930	409,447	917,430	3,005,965	417,870	223,848	431,784
	Operated by—								
3	(a) Owners and managers.....dollars..	(2)	982,170	183,497	707,770	2,246,225	269,370	151,075	415,684
4	(b) Tenants.....dollars..	(2)	689,760	225,950	209,660	759,740	148,500	72,773	16,100
5	Average, land and buildings, per farm.....dollars..	11,327.22	12,762.82	14,623.11	7,774.83	12,120.83	14,923.93	6,218.00	8,466.35
6	per acre in farms.....dollars..	30.12	31.36	31.27	23.42	31.88	22.43	15.74	38.54
7	Buildings, irrigated farms reporting value.....number...	27	125	27	112	237	24	34	50
8	Total reported.....dollars..	55,980	222,600	61,222	167,801	566,540	59,445	34,500	114,555
9	Average, per irrigated farm reporting.....dollars..	2,073.33	1,780.80	2,267.48	1,498.22	2,390.46	2,476.88	1,014.71	2,291.10
10	per acre on all irrigated farms.....dollars..	5.51	4.18	4.67	4.28	6.01	3.19	2.43	10.22
11	Buildings, nonirrigated farms reporting value.....number...	3,955	4,147	2,512	3,946	1,764	5,237	2,661	159,659
12	Total reported.....dollars..	1,826,881	2,397,684	968,165	2,339,813	1,044,588	2,568,549	1,269,275	86,264,804
13	Average, per nonirrigated farm reporting.....dollars..	461.92	578.17	385.42	592.96	592.17	490.46	476.99	540.31
14	per acre on all nonirrigated farms.....dollars..	7.68	7.31	5.55	9.81	6.19	9.12	6.25	6.15
15	Implements and machinery, irrigated farms reporting value..number...	26	127	26	112	242	28	33	48
16	Total reported.....dollars..	47,665	382,060	91,475	329,467	520,123	72,605	66,700	58,845
17	Average, per irrigated farm reporting.....dollars..	1,833.27	3,008.35	3,518.27	2,941.67	2,149.27	2,593.04	2,021.21	1,225.94
18	per acre, on all irrigated farms.....dollars..	4.69	7.17	6.98	8.41	5.52	3.90	4.69	5.25
19	Implements and machinery, nonirrigated farms reporting value.....number...	2,933	3,642	2,136	3,261	1,421	4,286	1,996	127,895
20	Total reported.....dollars..	571,707	1,279,901	405,225	1,019,128	327,154	872,386	501,050	23,586,125
21	Average, per acre, on all nonirrigated farms.....dollars..	2.40	3.80	2.32	4.27	1.94	3.10	2.47	1.68
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
22	Enterprises.....1940...number.....	10	128	25	112	219	29	32	6
23	1930...number.....	10	99	12	87	181	16	16	22
24	1920...number.....	.....	145	6	107	70	28	30	21
25	Average size of enterprise based on irrigable area.....1940...acres.....	344	304	279	249	185	292	256	303
26	1930...acres.....	428	243	230	296	190	240	243	.....
27	1920[3]..acres.....	.....	238	456	248	241	375	330	371
28	Diversion dams.....1940...number.....	.....	.....	.....	.....	1	.....	.....	.....
29	Main canals and laterals.....1940...length, miles.....	5.0	4.0	.....	.....	12.0	0.9	1.8	.....
30	1930...length, miles.....	3	10	1	.....	.....	.....	.....	.....
31	1920...length, miles.....	.....	21	.....	.....	.....	3	.....	23
32	1940...capacity, c.f.s.[4]....	.....	9	.....	.....	2	.....	.....	.....
33	1930...capacity, c.f.s.[4]....	7	131	1,200	.....	.....	.....	.....	.....
34	1920...capacity, c.f.s.[4]....	.....	81	8	5	.....	12	.....	98
35	Pipe lines[5].....1940...length, miles.....	0.2	0.9	.....	.....	.....	.....	9.6	2.1
36	Storage dams.....1940...number.....	.....	.....	.....	.....	.....	.....	.....	.....
37	Reservoirs.....1940...number.....	.....	.....	.....	.....	.....	.....	.....	.....
38	1930...number.....	.....	5	.....	.....	.....	.....	.....	1
39	1920...number.....	.....	14	.....	.....	.....	.....	.....	2
40	1940...capacity, acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
41	1930...capacity, acre-feet..	.....	27	.....	.....	.....	.....	.....	25
42	1920...capacity, acre-feet..	.....	20	.....	.....	.....	.....	.....	.....
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	14	140	33	150	275	40	34	7
50	1930...number.....	24	108	16	113	196	19	19	4
51	1920...number.....	.....	149	8	128	79	58	38	25
52	1940...yield, g.p.m.....	14,100	200,485	44,800	191,800	266,542	65,270	61,800	5,820
53	1930...yield, g.p.m.....	34,900	184,300	19,200	203,051	176,612	32,500	22,075	4,300
54	1920...yield, g.p.m.....	.....	272,850	11,400	168,600	92,415	104,358	59,200	48,450
55	Pumping plants.....1940...number.....	14	148	32	153	283	41	37	8
56	1930...number.....	24	107	15	103	191	22	16	5
57	1920...number.....	.....	152	7	117	77	46	31	23
58	Prime movers.....1940...capacity, hp.....	770	8,108	1,526	5,097	12,975	2,100	1,525	210
59	1930...capacity, hp.....	1,601	7,487	865	4,336	10,728	1,200	754	145
60	1920...capacity, hp.....	.....	9,745	330	4,697	4,431	3,175	1,445	1,030
61	Pumps.....1940...capacity, g.p.m.....	14,100	206,985	46,500	188,000	266,142	56,750	62,650	6,970
62	1930...capacity, g.p.m.....	34,900	187,325	19,450	206,656	183,812	32,500	24,875	6,500
63	1920...capacity, g.p.m.....	.....	279,150	11,400	173,850	99,165	96,358	59,900	46,450
64	Pumping lift, from all sources.....1940...average, feet.....	34	58	58	37	77	42	32	41
65	1930...average, feet.....	48	60	66	32	95	64	62	21
66	1920...average, feet.....	.....	43	73	33	59	33	45	.....
67	from pumped wells.....1940...average, feet.....	34	61	58	37	78	42	32	47
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]								
68	Enterprises reporting pay roll.....number...	2	.....	.....	.....	.....	.....	.....	.....
69	Irrigated area in these enterprises.....acres....	(2)	.....	.....	.....	.....	.....	.....	.....
70	Wages and salaries paid and payable.....dollars..	(2)	.....	.....	.....	.....	.....	.....	.....
71	Persons employed during week ending April 29.....number...	(2)	.....	.....	.....	.....	.....	.....	.....

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

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

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	*100,353,920	99,617,280	99,617,280	99,617,280	[1] 99,617,280	99,898,880	99,776,000
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	132,658	150,360	135,676	117,670	88,197	72,542	52,894
Land in all farms....acres....	30,524,324	30,437,995	30,442,581	29,365,667	27,931,444	28,828,951	21,427,293
Farms irrigated:[2]							
Farms....number...	84,310	91,347	85,784	67,391	39,352	25,675	13,732
Increase or decrease (-) over preceding census....percent..	[3] -1.7	.....	27.3	71.3	53.3	87.0	.....
Proportion of all farms....percent..	63.6	60.8	63.2	57.3	44.6	35.4	26.0
Land in farms....acres....	14,071,222	(4)	12,018,864	(4)	(4)	(4)	(4)
Proportion of all farm land....percent..	46.1	(4)	39.5	(4)	(4)	(4)	(4)
Area irrigated....acres....	[5] 4,276,554	[6] 3,513,700	[7] 3,540,350	(8)	(8)	1,446,114	1,004,233
Increase or decrease (-) over preceding census....percent..	[3] 20.8	.....	.....	.....	.....	44.0	.....
Proportion of total land area of State....percent..	4.3	3.5	3.6	.....	.....	1.4	1.0
Proportion of all farm land....percent..	14.0	11.5	11.6	.....	.....	5.0	4.7
Value of irrigated farms (land and buildings)....dollars..	1,591,824,377	(4)	2,438,289,524	(4)	(4)	(4)	(4)
Average per farm....dollars..	18,880.61	(4)	28,423.39	(4)	(4)	(4)	(4)
Average per acre....dollars..	113.13	(4)	202.87	(4)	(4)	(4)	(4)
Value of farm implements and machinery[9]....dollars..	99,181,718	(4)	96,785,492	(4)	(4)	(4)	(4)
Average per farm[9]....dollars..	1,176.39	(4)	1,128.25	(4)	(4)	(4)	(4)
Average per acre[9]....dollars..	7.05	(4)	8.05	(4)	(4)	(4)	(4)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	39,975	(4)	38,117	24,115	13,970	(4)	(4)
Farms irrigated....number...	125,303	(4)	(4)	(4)	(4)	(4)	(4)
Area irrigated....acres....	5,069,568	(4)	4,746,632	4,219,040	2,664,104	(4)	(4)
Area existing works were capable of supplying with water....acres....	7,398,576	(4)	6,815,250	5,894,466	3,619,378	(4)	(4)
Area irrigable....acres....	8,039,175	(4)	8,075,895	[10] 7,805,207	[10] 5,490,360	(4)	(4)
Additional area existing works were capable of supplying with water....acres....	2,329,008	(4)	2,068,618	1,675,426	955,274	(4)	(4)
Additional irrigable area in enterprises not supplied with water....acres....	2,969,607	(4)	3,329,263	[10] 3,586,167	[10] 2,826,256	(4)	(4)
Investment in irrigation enterprises....dollars..	318,889,218	(4)	[11] 310,967,979	194,886,388	72,580,030	19,181,610	13,004,817
Increase or decrease (-) over preceding census....percent..	[3] 2.5	(4)	59.6	168.5	278.4	47.5	.....
Average per acre based on area works were capable of supplying with water....dollars..	43.10	(4)	45.63	33.06	20.05	(4)	(4)
Increase or decrease (-) over preceding census....percent..	[3] -5.5	(4)	38.0	64.9	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	327,593,311	(4)	[11] 325,930,535	225,799,123	84,392,344	(4)	(4)
Average per acre based on irrigable area in enterprises....dollars..	40.75	(4)	40.36	[10] 28.93	[10] 15.37	(4)	(4)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	4.73	(4)	6.10	4.40	1.54	(4)	(4)

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

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

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

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (–) 1929–39	Irrigated area reporting— Quantity	Irrigated area reporting— Cost	Irrigated area reporting— Quantity and cost	Quantity delivered per acre[1]	Cost[1] Per acre	Cost[1] Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	39,975	8,039,175	7,398,576	5,069,568	4,746,632	4,219,040	6.8	4,840,760	4,860,264	4,687,108	2.8	5.42	1.95
Primary sources:													
Streams, gravity	2,140	2,897,828	2,690,410	1,741,575	1,699,599	2,564,445	2.5	1,602,613	1,629,784	1,532,267	2.3	2.62	1.12
Streams, pumped	1,309	850,814	813,716	470,538	469,944	295,673	0.1	433,416	458,284	421,462	3.5	3.13	0.89
Streams, gravity and pumped	68	654,420	454,260	251,196	85,169	60,278	194.9	239,742	247,034	236,410	4.2	3.92	0.91
Wells, pumped	26,284	2,126,146	2,070,540	1,511,789	1,453,272	826,846	4.0	1,490,218	1,457,423	1,445,676	2.7	8.87	3.24
Wells, flowing	113	2,845	2,726	1,636	1,927	17,653	-15.1	1,296	791	619	3.5	1.82	0.53
Wells, pumped and flowing	28	7,046	6,757	5,877	9,761	23,561	-39.8	5,852	5,662	5,637	2.8	24.05	8.48
Lakes, gravity	8	1,280	1,280	464	17,097	48,094	-97.3	360	415	360	1.9	1.21	0.63
Lakes, pumped	26	23,603	23,584	21,972	4,097	4,168	436.3	21,947	18,942	18,917	1.0	0.72	0.74
Springs	688	36,443	35,732	28,538	23,999	27,698	18.9	24,752	23,372	20,800	1.7	1.69	0.97
Springs and streams	166	51,066	48,994	28,555	.....	.....	.....	21,631	27,558	20,894	1.9	0.53	0.28
Stored storm water	36	6,679	5,396	4,360	10,754	20,351	-59.5	4,143	4,245	4,034	1.3	0.89	0.85
City water	68	10,599	10,374	9,497	641	515	(2)	9,406	8,591	8,587	3.7	5.36	1.45
Sewage	13	3,060	3,055	2,314	732	1,385	216.1	2,301	1,832	1,832	2.2	2.49	1.13
Streams, gravity; wells, pumped	268	1,063,976	966,360	786,466	780,960	87,897	0.7	782,056	780,278	777,232	2.1	4.02	1.89
Streams, gravity; wells, flowing	24	6,454	6,406	4,363	2,222	4,255	96.4	3,732	4,362	3,732	0.8	0.34	0.41
Streams, pumped; wells, pumped	273	209,725	174,298	138,215	.....	.....	.....	137,649	135,404	134,838	2.4	7.13	2.93
Waste water, seepage or drainage	42	14,561	14,061	11,456	.....	.....	.....	11,403	7,655	7,645	2.4	1.21	0.51
Other mixed	179	72,630	70,627	50,757	186,458	228,424	-72.8	48,243	48,632	46,166	2.2	5.93	2.67
Other and not reported	.....	.....	.....	.....	.....	7,807	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[3]													
Streams, gravity and/or storage	42	149,661	129,311	94,088	.....	.....	.....	60,038	92,009	58,178	1.4	2.15	1.52
Streams, pumped	94	11,089	11,002	5,807	2,453	.....	136.7	3,416	5,737	3,346	2.0	3.53	1.72
Wells, pumped	8,105	[4] 490,287	[4] 484,237	[4] 355,447	287,136	.....	23.8	[4] 351,518	[4] 340,025	[4] 338,618	[4] 1.9	[4] 4.32	[4] 2.27
Wells, flowing	1	(4)	(4)	(4)	.....	.....	.....	(4)	(4)	(4)	(4)	(4)	(4)

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (–) 1930–40	1939		1929		Average per acre increase or decrease (–) 1930–40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	*Percent*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Acres*	*Dollars*
Total	318,889,218	100.0	43.10	[3] 310,967,979	100.0	45.63	-2.53	4,831,550	4.73	4,538,579	6.10	-1.37	3,714,361	4.40
Primary sources:														
Streams, gravity	63,428,239	19.9	23.58	65,278,333	21.0	24.01	-0.43	1,640,639	1.77	1,611,792	2.16	-0.39	2,275,082	2.06
Streams, pumped	19,458,731	6.1	23.91	31,603,584	10.2	38.63	-14.72	459,287	3.18	459,987	4.47	-1.29	267,826	5.10
Streams, gravity and pumped	34,584,451	10.8	76.13	9,730,362	3.1	48.42	27.71	247,034	3.18	85,169	8.25	-5.07	60,137	1.93
Wells, pumped	104,729,374	32.8	50.58	100,421,609	32.3	61.00	-10.42	1,457,450	8.41	1,358,975	10.05	-1.64	724,593	10.40
Wells, flowing	146,036	(4)	53.57	159,035	0.1	47.47	6.10	791	1.71	1,517	10.93	-9.22	4,341	5.91
Wells, pumped and flowing	1,313,826	0.4	194.45	1,153,841	0.4	100.84	93.61	5,662	20.81	9,651	13.47	7.34	20,426	7.63
Lakes, gravity	10,907	(4)	8.52	3,277,641	1.1	52.31	-43.79	415	1.76	16,602	3.01	-1.25	41,662	0.39
Lakes, pumped	49,938	(4)	2.12	494,070	0.2	109.21	-107.09	18,942	0.73	3,082	3.97	-3.24	3,783	1.66
Springs	649,317	0.2	18.17	563,188	0.2	18.32	-0.15	23,372	1.40	20,258	1.92	-0.52	21,635	2.21
Springs and streams	382,408	0.1	7.81	.....	.....	.....	.....	27,558	0.50	.....	.....	.....	.....	.....
Stored storm water	134,019	(4)	24.84	430,258	0.1	26.33	-1.49	4,245	1.21	9,050	1.73	-0.52	18,863	4.25
City water	484,854	0.2	46.74	10,769	(4)	16.07	30.67	8,169	4.25	191	14.28	-10.03	58	24.05
Sewage	82,370	(4)	26.96	105,650	(4)	92.92	-65.96	1,832	2.49	621	3.10	-0.61	1,286	11.25
Streams, gravity; wells, pumped	55,040,258	17.3	56.96	60,683,254	19.5	59.33	-2.37	740,101	3.24	778,819	5.29	-2.05	67,779	15.62
Streams, gravity; wells, flowing	20,540	(4)	3.21	123,631	(4)	40.10	-36.89	4,362	0.36	2,012	0.71	-0.35	1,860	28.93
Streams, pumped; wells, pumped	14,725,424	4.6	84.48	.....	.....	.....	.....	135,404	6.61	.....	.....	.....	.....	.....
Waste water, seepage or drainage	50,811	(4)	3.61	.....	.....	.....	.....	7,655	1.21	.....	.....	.....	.....	.....
Other mixed	4,872,433	1.5	68.99	27,422,195	8.8	99.69	-30.70	48,632	6.07	180,853	9.83	-3.76	196,886	5.36
Other and not reported	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,744	16.13
Supplemental sources:[5]														
Streams, gravity and/or storage	5,052,412	1.6	39.07	.....	.....	.....	.....	92,009	0.99	.....	.....	.....	.....	.....
Streams, pumped	515,449	0.2	46.85	70,681	(4)	17.47	29.38	5,737	7.83	2,389	5.39	2.44	.....	.....
Wells, pumped	[6] 13,157,321	[6] 4.1	[6] 27.17	9,439,878	3.0	30.03	-2.86	[6] 341,489	[6] 4.35	270,764	5.97	-1.62	.....	.....
Wells, flowing	(6)	(6)	(6)	.....	.....	.....	.....	(6)	(6)	.....	.....	.....	.....	.....

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

State Table 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

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

Item and type of enterprise (For definitions and explanations, see text)	Census of— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	740,007	36,566	668,592	1,307,968	10.7
Bureau of Reclamation[2] *	60,297	1,709	44,588	42,805	35.2
Office of Indian Affairs[2]	7,864	.....	5,222	986	50.6
State	5,858	.....	11,004	4,210	-46.8
City and/or sewage	99,035	.....	104,479	9,073	-5.2
Other	2,844	.....	107,661	[3] 4,320	-98.6
IRRIGABLE AREA[4]					
Total	8,039,175	651,037	8,075,895	7,805,207	-0.5
Individual and partnership	2,879,543	503,769	2,268,503	2,698,798	26.9
Cooperative, incorporated	1,131,337	44,094	1,488,059	2,148,711	-17.0
Cooperative, unincorporated	103,087	24,269			
Irrigation district	2,750,301	12,387	3,142,415	1,101,220	-12.5
Reclamation district	137,526	22,743	.....	.....	.....
Commercial	830,592	42,066	799,995	1,778,135	3.8
Bureau of Reclamation[2] *	68,643	1,709	62,188	47,669	10.4
Office of Indian Affairs[2]	27,109	.....	5,579	5,252	385.9
State	6,158	.....	11,064	6,259	-44.3
City and/or sewage	102,035	.....	95,431	10,645	6.9
Other	2,844	.....	202,661	[3] 8,518	-98.6

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

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

Type of enterprise (For definitions and explanations, see text)	Enterprises: Total	Enterprises: Serving 5 or more farms	Areas: Irrigable	Areas: Works were capable of supplying with water	Average cost: Primary enterprises: Works and equipment per acre[2]	Average cost: Primary enterprises: Maintenance and operation per acre[3]	Average cost: Supplemental enterprises: Works and equipment per acre[2]	Average cost: Supplemental enterprises: Maintenance and operation per acre[3]	Area irrigated, 1939[1]: Farms served	Area irrigated, 1939[1]: Total area	Area irrigated, 1939[1]: Cropland: From which crops were harvested	Area irrigated, 1939[1]: Cropland: On which crops failed	Area irrigated, 1939[1]: Irrigated pasture
	Number	*Number*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Acres*	*Acres*	*Acres*	*Acres*
Total	39,975	1,191	8,039,175	7,398,576	39.18	4.39	27.01	3.69	125,303	5,069,568	4,621,791	22,084	425,693
Individual and partnership	38,729	284	2,879,543	2,767,274	34.70	6.11	26.19	4.26	34,706	2,004,621	1,780,635	10,250	213,736
Cooperative, incorporated	658	516	1,131,337	1,093,743	41.45	4.69	41.08	4.64	30,375	761,563	728,047	1,053	32,463
Cooperative, unincorporated	284	142	103,087	100,999	29.07	3.22	3.94	0.28	2,115	89,964	76,635	193	13,136
Irrigation district	87	87	2,750,301	2,384,379	45.08	2.70	15.74	0.07	44,762	1,684,602	1,558,969	7,612	117,821
Reclamation district	14	11	137,526	136,276	17.52	2.82	0.91	0.23	311	59,052	56,735	250	2,067
Commercial	104	93	830,592	740,007	33.60	3.46	56.42	2.76	7,988	368,841	324,752	2,491	41,598
U. S. Bureau of Reclamation*	8	7	68,643	60,297	97.42	1.81	24.15	0.67	1,387	44,581	40,987	.....	3,594
U. S. Office of Indian Affairs	51	27	27,109	7,864	126.19	7.32	.....	.....	728	4,106	3,958	20	128
State	11	2	6,158	5,858	64.43	7.31	.....	.....	30	4,729	4,676	.....	53
City and/or sewage	24	19	102,035	99,035	35.08	8.53	.....	.....	2,863	46,419	45,307	15	1,097
Other	5	3	2,844	2,844	41.77	4.29	.....	.....	38	1,090	1,090	.....	.....

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

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

Type of enterprise (For definitions and explanations, see text)	Total investment, to January 1, 1940: Total	1940: Primary enterprises	1940: Supplemental enterprises	1940: Total cost of works and equipment	1940: Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	Average investment per acre works were capable of supplying water: Primary enterprises	Average investment per acre works were capable of supplying water: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
	Dollars	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Percent*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Total	318,889,218	300,164,036	18,725,182	306,729,175	12,160,043	[2] 310,967,979	194,886,388	2.5	40.57	29.98	2,178,568	8,704,093
Individual and partnership	109,682,184	97,017,879	12,664,305	108,671,184	1,011,000	108,129,435	57,616,716	1.4	35.06	26.21	31,244	1,316,656
Cooperative, incorporated	54,961,343	51,321,960	3,639,383	47,143,212	7,818,131	48,682,089	48,899,448	19.5	46.92	83.20	402,837	254,093
Cooperative, unincorporated	3,225,749	3,130,024	95,725	3,031,164	194,585				30.99	3.94	15,719	222,600
Irrigation district	109,319,715	109,122,822	196,893	107,672,826	1,646,889	105,349,178	33,985,301	3.8	45.77	15.90	1,294,176	6,015,930
Reclamation district	2,413,740	2,393,108	20,632	2,408,740	5,000	.....	.....	.....	17.56	0.91	5,475	24,500
Commercial	28,354,269	26,287,295	2,066,974	26,923,959	1,430,310	24,660,738	44,996,723	15.0	35.52	56.53	236,552	98,785
U. S. Bureau of Reclamation*	5,915,578	5,874,308	41,270	5,915,578	.....	5,520,644	2,398,220	7.2	97.42	24.15	61,842	268,107
U. S. Office of Indian Affairs	992,397	992,397	.....	992,397	.....	547,695	55,556	81.2	126.19	.....	124,398	503,440
State	423,779	423,779	.....	377,431	46,348	881,722	224,909	51.9	72.34	.....	.....	.....
City and/or sewage	3,477,614	3,477,614	.....	3,473,884	3,730	14,748,387	1,401,320	-76.4	35.11	.....	6,325	.....
Other	122,850	122,850	.....	118,800	4,050	2,448,091	[3] 5,308,195	-95.0	43.20	.....	.....	.....

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	357	3,587,608	3,160,514	95,694,893	32.40	30.45	41	19,651,711	18,668,245	16.53	4,309,809	13,041,764	10,922,709
Partnership	9	4,057	4,047	36,512	13.60	9.02	.....	.....	.....	.....	80,013	522,060	97,403
Cooperative, incorporated	220	710,988	682,311	6,553,380	10.72	9.27	11	388,001	264,051	28.15	924,906	4,287,634	3,372,476
Cooperative, unincorporated	5	7,873	7,873	37,950	5.52	4.82	.....	.....	137	.....	57,882	146,920	105,707
Irrigation district	72	2,189,539	1,874,717	74,431,404	35.98	39.89	23	18,003,764	17,962,931	3.34	2,684,596	6,027,944	5,998,602
Reclamation district	5	82,910	82,910	1,412,344	42.12	17.03	[6] 1	1,036,496	223,739	87.81	64,648	139,081	137,702
Commercial	35	520,136	444,897	9,300,579	49.04	20.28	5	141,495	138,032	35.00	389,246	1,458,006	1,103,047
Bureau of Reclamation[7] [8]	5	70,303	61,957	[8] 3,777,454	65.41	62.03	[6] 1	[8] 81,955	[8] 79,355	4.11	58,834	94,407	67,755
Office of Indian Affairs[7]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,582	17,661	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	344	1,250	.....
City and/or sewage	6	1,802	1,802	145,270	113.14	80.62	.....	.....	.....	.....	45,758	342,607	40,017
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000	4,194	.....

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

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

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

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
				Length[1]									Prime movers		Pumps	
	Diversion	Storage	Capacity at main heading	Earth	Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Number	Rated capacity	Number	Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	2,714	709	91,776	18,217	1,582.1	2,652	3,581,621	22,690.2	436	34,767	48,568	28,297,969	52,217	968,351	52,016	39,147,470
Individual and partnership	2,261	562	21,494	3,010	191.1	2,203	111,666	14,378.0	389	24,462	46,220	26,349,361	49,066	779,009	48,883	30,863,577
Cooperative, incorporated	146	45	14,123	1,950	308.6	237	146,386	4,615.6	42	7,740	1,210	962,604	1,568	109,337	1,573	2,749,700
Cooperative, unincorporated	127	16	2,242	332	36.1	48	19,102	456.4	2	540	284	207,301	334	11,043	332	253,280
Irrigation district	88	42	36,306	10,081	807.2	77	1,386,806	2,107.3	....	.....	544	574,654	805	46,474	788	3,778,759
Reclamation district	3	1	1,880	205	9.2	2	3	14.6	....	.....	.....	.....	59	6,233	60	977,000
Commercial	47	30	14,956	2,300	105.7	58	602,273	896.8	3	2,025	213	171,847	259	14,107	257	417,736
Bureau of Reclamation[3]	3	5	325	238	107.2	5	1,314,100	6.2	....	.....	1	600	3	160	3	28,500
Office of Indian Affairs[3]	29	3	272	57	14.3	10	510	125.5	....	.....	62	10,548	71	543	70	11,985
State	6	4	94	9	2.7	9	703	22.5	....	.....	20	9,679	36	872	34	52,178
City and/or sewage	4	1	84	23	.....	3	72	60.8	....	.....	5	3,245	7	210	7	6,745
Other	.....	.....	.....	12	.....	.....	.....	6.5	....	.....	9	8,030	9	363	9	8,030

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

State Table 11.—DAMS, BY MATERIAL: 1940 AND 1930

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

[1] Principally temporary dams, replaced annually.

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

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	52,016	100.0	39,147,470	100.0	55
Electric motor	**41,768**	**80.4**	**31,721,814**	**81.0**	**57**
Centrifugal	13,709	26.4	13,746,834	35.1	29
Turbine	25,835	49.8	17,296,281	44.1	70
Plunger	2,049	3.9	140,136	0.4	102
Other	175	0.3	538,563	1.4	74
Internal-combustion engine	**6,413**	**12.3**	**3,858,816**	**9.9**	**47**
Centrifugal	3,543	6.8	2,221,760	5.7	23
Turbine	2,297	4.4	1,563,462	4.0	81
Plunger	496	1.0	35,591	0.1	69
Other	77	0.1	37,994	0.1	45
Other kinds of motive power	**283**	**0.5**	**29,929**	**0.1**	**48**
Centrifugal	19	(1)	16,742	(1)	30
Turbine	11	(1)	5,820	(1)	97
Plunger	242	0.5	6,394	(1)	48
Other	11	(1)	973	(1)	34
Mixed kinds of motive power	**3,552**	**6.8**	**3,536,911**	**9.0**	**51**
Centrifugal	1,457	2.8	1,726,868	4.4	28
Turbine	1,854	3.5	1,672,433	4.3	73
Plunger	196	0.4	17,121	(1)	60
Other	45	0.1	120,489	0.3	49
Total, 1930	47,994	.....	33,240,569	.....	53
Increase or decrease (-) 1930-1940	4,022	.....	5,906,881	.....	2

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

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

State Table 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

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

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

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

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage ... number	897	933	545
Area irrigable in these enterprises ... acres	2,598,196	3,105,549	[1] 1,623,330
Area irrigated in these enterprises ... acres	1,711,027	(2)	(2)
Area for which drains have been installed ... acres	1,509,832	1,522,338	319,573
Additional area needing drainage ... acres	394,963	235,990	409,933
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage ... percent	88.2	[3] 49.0	[1] 19.7
(b) All irrigation enterprises ... percent	29.8	32.1	7.6
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting ... percent	73.3	56.6	[1] 44.9
(b) Irrigated area reporting ... percent	111.3	(2)	(2)

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

State Table 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	11,016,598	10,109,851	14,793,933	9,680,546	9,272,139	10,581,929	1,336,052	837,712	4,212,004
Area irrigated by these enterprises.....acres.....	2,541,663	2,527,418	2,167,485	2,181,859	2,296,780	1,785,976	359,804	230,636	381,509
Average water per acre irrigated.....acre-feet..	4.3	4.0	6.8	4.4	4.0	5.9	3.7	3.6	11.0
Total water delivered to irrigators.....acre-feet..	7,979,232	5,631,710	3,409,367	4,108,863	4,049,809	1,627,316	3,870,369	1,581,901	1,782,051
Area irrigated by these enterprises.....acres.....	3,085,064	1,993,373	1,438,699	1,734,660	1,492,989	751,327	1,350,404	500,384	687,372
Average water per acre irrigated.....acre-feet..	2.6	2.8	2.4	2.4	2.7	2.2	2.9	3.2	2.6
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	4,678,588	.....	.....	557,974	.....	.....	4,120,614	.....	.....
Area irrigated by these enterprises.....acres.....	1,755,696	.....	.....	291,328	.....	.....	1,464,368	.....	.....
Average water per acre irrigated.....acre-feet..	2.7	.....	.....	1.9	.....	.....	2.8	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	130,534	.....	.....	77,658	.....	.....	52,876	.....	.....
Area irrigated by these enterprises.....acres.....	90,777	.....	.....	39,611	.....	.....	51,166	.....	.....
Average water per acre irrigated.....acre-feet..	1.4	.....	.....	2.0	.....	.....	1.0	.....	.....
Total water delivered to irrigators.....acre-feet..	92,076	.....	.....	55,758	.....	.....	36,318	.....	.....
Area irrigated by these enterprises.....acres.....	63,454	.....	.....	31,584	.....	.....	31,870	.....	.....
Average water per acre irrigated.....acre-feet..	1.5	.....	.....	1.8	.....	.....	1.1	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	669,906	.....	.....	5,893	.....	.....	664,013	.....	.....
Area irrigated by these enterprises.....acres.....	351,518	.....	.....	5,026	.....	.....	346,492	.....	.....
Average water per acre irrigated.....acre-feet..	1.9	.....	.....	1.2	.....	.....	1.9	.....	.....

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

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

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

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

BUREAU OF RECLAMATION AREAS AND INVESTMENT

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

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

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

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940 ... number	31,733	780	27,633	2,170	779	228	128	15
2	Irrigated farms, 1939 ... number	125,303	.....	27,633	5,372	7,558	10,682	33,081	40,977
3	Area irrigated, 1939 ... acres	5,069,568	.....	1,777,214	229,809	336,133	397,182	976,480	1,352,750
4	(a) From which crops were harvested ... acres	4,621,791	.....	1,577,084	199,384	294,748	364,346	925,764	1,260,465
5	(b) On which crops failed ... acres	22,084	.....	11,061	678	1,220	982	4,143	4,000
6	(c) Irrigated pasture ... acres	425,693	.....	189,069	29,747	40,165	31,854	46,573	88,285
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises ... dollars	300,164,036	1,807,790	81,094,859	14,512,633	17,993,899	26,580,291	83,956,546	74,218,018
8	(a) Cost of irrigation works and equipment ... dollars	289,861,271	1,757,460	80,842,476	13,712,349	17,498,418	25,022,253	77,236,880	73,791,435
9	(b) Investment in water rights ... dollars	10,302,765	50,330	252,383	800,284	495,481	1,558,038	6,719,666	426,583
10	Area works were capable of supplying with water ... acres	7,998,576	169,707	2,427,559	322,108	561,799	693,866	1,515,586	1,707,951
11	Average investment per acre irrigated ... dollars	59.21	.....	45.63	63.15	53.52	66.50	82.59	54.86
12	Average investment per acre which the works could supply with water ... dollars	40.57	10.65	33.41	45.06	32.02	38.17	54.13	43.45
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation ... number	29,185	259	25,786	2,044	733	222	127	14
14	(a) Area irrigated in these enterprises ... acres	4,831,550	.....	1,640,124	207,289	315,802	379,356	976,180	1,312,799
15	(b) Cost of maintenance and operation ... dollars	21,229,685	24,019	10,085,495	1,125,906	1,390,091	1,524,612	4,171,180	2,908,982
16	(c) Average cost per irrigated acre reporting ... dollars	4.39	.....	6.15	5.43	4.40	3.99	4.10	2.22
17	Total annual charges[2] ... dollars	12,789,209	1,327	.....	1,258	1,614,261	1,752,072	4,968,540	4,451,751
18	Average charge per irrigated acre reporting ... dollars	4.24	.....	.....	0.52	5.12	4.61	5.15	3.29
19	Area against which charges were assessed ... acres	4,212,879	28,552	.....	2,430	373,929	517,020	1,480,778	1,810,170
20	Average annual charge per acre assessed ... dollars	3.04	0.05	.....	0.52	4.32	3.39	3.36	2.46
21	Total charges collected[2] ... dollars	10,519,461	1,355	.....	180	831,568	1,541,343	3,927,332	4,217,683
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3] ... number	345	[4]2	.....	[4]1	103	135	94	10
23	(a) Area irrigated in these enterprises ... acres	2,009,905	.....	.....	300	102,064	269,031	765,231	873,279
24	(b) Indebtedness ... dollars	94,170,982	16,099	.....	105	3,494,685	10,889,486	31,747,673	48,022,934
25	(c) Average indebtedness per acre irrigated ... dollars	46.85	.....	.....	0.35	34.24	40.48	40.19	54.99
26	(d) Cost of irrigation works and equipment ... dollars	153,776,097	293,833	.....	3,000	5,955,983	19,890,445	65,135,348	62,497,488
27	(e) Investment in water rights ... dollars	7,613,291	40,200	.....	1,500	362,946	963,921	5,908,141	336,583
28	(f) Total investment ... dollars	161,389,388	334,033	.....	4,500	6,318,929	20,854,366	71,043,489	62,834,071
29	(g) Maintenance and operation ... dollars	7,455,185	3,872	.....	162	331,191	1,148,944	3,437,242	2,533,774
30	(h) Total annual charges[2] ... dollars	9,575,190	.....	.....	162	455,738	1,322,944	4,291,729	3,504,617
31	(i) Total charges collected[2] ... dollars	8,504,288	1,093	.....	180	318,331	1,268,219	3,379,086	3,537,379
32	(j) Area against which annual charges were assessed ... acres	2,888,146	.....	.....	300	129,045	372,020	1,240,617	1,146,164
33	(k) Average indebtedness per acre assessed ... dollars	32.40	.....	.....	0.35	22.98	29.27	25.55	41.90
34	(l) Average charges per acre assessed ... dollars	3.32	.....	.....	0.54	3.53	3.56	3.46	3.06
35	(m) Average charges per acre irrigated ... dollars	4.77	.....	.....	0.54	4.51	4.92	5.61	4.01
36	Enterprises reporting arrearage[3] ... number	40	.....	.....	.....	11	11	15	3
37	(a) Area assessed in these enterprises ... acres	1,170,069	.....	.....	.....	15,988	112,947	266,412	774,722
38	(b) Total arrearage ... dollars	19,649,311	.....	.....	.....	851,844	3,668,581	4,150,609	10,978,277
39	(c) Average arrearage per acre assessed ... dollars	16.53	.....	.....	.....	34.03	32.48	15.58	14.17
40	(d) Indebtedness ... dollars	55,869,751	.....	.....	.....	2,445,615	6,360,755	9,586,131	37,497,250
	TYPE, 1940								
41	Individual and partnership ... number	30,536	761	27,430	2,064	279	1	1	.....
42	Cooperative (incorporated and unincorporated) ... number	903	13	166	90	390	170	71	3
43	Irrigation district ... number	85	1	.....	.....	13	25	36	10
44	Commercial ... number	100	2	11	.....	55	17	14	1
45	U. S. Bureau of Reclamation ... number	5	1	.....	.....	1	.....	3	.....
46	U. S. Office of Indian Affairs ... number	51	2	11	12	18	6	2	.....
47	All other ... number	53	.....	15	4	23	9	1	1
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll ... number	835	8	.....	[4]2	468	216	126	15
49	Wages and salaries paid and payable for 1939 ... dollars	4,841,769	5,436	.....	1,181	278,011	604,813	1,770,141	2,182,187
50	Persons employed during week ending April 29, 1939 ... number	4,371	9	.....	6	786	685	1,397	1,488
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity ... number	2,140	54	1,723	119	141	65	32	6
52	Streams, pumped ... number	1,309	31	1,162	67	25	15	8	.....
53	Wells, pumped ... number	26,284	653	23,060	1,891	548	103	29	.....
54	Wells, pumped and flowing; or wells flowing ... number	141	1	128	8	1	.....	3	.....
55	Lakes, gravity or pumped ... number	34	.....	27	4	3	.....	.....	.....
56	Streams and springs; or springs ... number	854	26	803	16	3	5	1	.....
57	Mixed, streams and wells ... number	633	8	448	45	40	32	52	8
58	Other mixed or stored storm water ... number	338	7	281	20	18	8	3	1

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

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

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

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
780	26,032	3,457	1,188	205	63	8	26,366	3,970	1,149	221	27	1
.....	31,088	8,613	14,543	16,968	27,065	27,026	29,520	9,226	12,331	29,700	44,526	2
.....	698,484	554,738	736,648	710,635	1,161,465	1,207,598	1,091,197	590,273	721,651	1,009,878	1,656,569	3
.....	646,339	506,628	645,385	626,568	1,057,910	1,139,061	931,236	534,584	661,061	945,282	1,549,628	4
.....	4,333	2,996	2,512	2,931	5,312	4,000	6,421	2,140	4,944	2,048	6,531	5
.....	47,912	45,114	88,751	81,136	98,243	64,537	153,540	53,549	55,646	62,548	100,410	6
1,807,790	53,983,782	27,349,457	38,325,762	55,515,412	70,111,373	53,070,460	38,904,293	29,993,055	35,821,141	84,824,817	110,620,730	7
1,757,460	53,812,766	27,040,352	35,987,202	51,587,783	66,731,831	52,943,877	38,765,888	29,733,023	34,898,647	77,476,422	108,987,291	8
50,330	171,016	309,105	2,338,560	3,927,629	3,379,542	126,583	138,405	260,032	922,494	7,348,395	1,633,439	9
169,707	1,039,249	715,530	999,925	1,145,643	1,753,692	1,574,830	1,511,361	762,313	1,050,228	1,802,393	2,272,281	10
.....	77.29	49.29	52.03	77.33	58.58	43.95	35.65	50.81	48.44	81.99	66.78	11
10.65	51.94	38.22	38.33	48.35	39.19	33.70	25.74	39.34	33.54	46.55	48.68	12
259	24,313	3,254	1,099	193	59	8	24,088	3,758	1,093	220	26	13
.....	666,559	520,570	678,587	670,343	1,087,893	1,207,598	988,173	557,552	667,589	1,001,618	1,616,618	14
24,019	5,759,214	3,351,012	3,421,442	3,027,274	3,287,040	2,359,684	5,347,920	3,406,015	3,437,629	4,700,398	4,337,723	15
.....	8.64	6.44	5.04	4.47	2.93	1.95	5.41	6.11	5.02	4.58	2.68	16
1,327	285,645	637,760	1,588,679	3,296,310	3,911,037	3,068,451	123,624	423,612	1,496,145	5,364,779	5,381,049	17
.....	14.44	11.99	7.39	6.96	3.74	2.54	3.02	3.63	4.26	5.92	3.26	18
28,552	27,934	64,089	267,158	712,667	1,507,814	1,604,665	44,789	136,272	382,979	1,277,900	2,370,939	19
0.06	10.23	9.95	5.95	4.63	2.59	1.91	2.76	3.11	3.01	4.20	2.27	20
1,355	142,541	448,964	1,419,472	2,317,673	3,014,248	3,175,208	56,274	249,905	1,179,057	3,918,977	5,085,248	21
[4]2	21	75	125	75	43	4	8	48	136	134	19	22
.....	1,324	14,428	99,452	278,515	848,108	768,078	2,834	27,143	141,615	723,568	1,114,745	23
16,099	93,609	414,000	6,569,625	18,354,610	31,783,482	36,939,557	4,123	110,522	1,734,504	27,612,255	64,709,578	24
.....	70.70	28.69	66.06	64.80	36.61	48.09	1.45	4.07	12.25	36.90	58.05	25
293,833	381,252	2,036,854	15,403,427	36,343,219	54,871,012	44,446,500	23,400	493,475	5,587,430	56,294,046	91,377,746	26
40,200	48,534	152,290	1,327,542	3,178,600	2,829,542	36,583	1,500	99,449	441,802	5,527,101	1,543,439	27
334,033	429,786	2,189,144	16,730,969	39,521,819	57,700,554	44,483,083	24,900	592,924	6,029,232	61,821,147	92,921,185	28
3,872	27,819	181,059	896,238	1,645,422	2,716,299	1,984,476	7,030	65,732	625,111	3,094,759	3,662,553	29
.....	53,830	238,653	1,029,524	2,576,461	3,275,748	2,400,974	7,415	84,753	795,184	4,464,876	4,222,962	30
1,093	34,156	217,145	1,091,673	1,895,889	2,829,428	2,494,904	4,703	84,409	638,766	3,490,649	4,285,761	31
.....	5,718	19,853	124,283	485,524	1,272,158	980,610	2,839	34,454	164,842	1,044,237	1,641,774	32
.....	16.37	20.85	48.61	37.71	24.98	37.67	1.45	3.21	10.52	25.87	39.41	33
.....	9.41	12.02	8.28	5.31	2.57	2.45	2.61	2.46	4.82	4.28	2.57	34
.....	40.66	16.54	10.46	9.25	3.86	3.13	2.62	3.12	5.62	6.18	3.79	35
.....	3	3	10	11	10	3	.....	[4]1	7	25	7	36
.....	233	1,220	17,948	88,115	258,943	803,610	.....	83	16,313	217,570	936,103	37
.....	8,655	36,954	1,051,999	2,547,804	5,657,693	10,346,206	.....	655	64,097	7,188,318	12,396,241	38
.....	37.15	30.29	41.47	28.91	21.85	12.87	.....	7.89	3.93	31.62	13.24	39
.....	13,169	67,431	2,504,289	5,678,804	15,249,058	32,357,000	.....	5,169	161,862	13,803,958	41,898,762	40
761	25,678	3,125	894	73	5	.....	26,093	3,631	772	39	1	41
13	280	282	229	79	20	.....	230	287	290	93	3	42
1	3	5	20	27	22	7	1	.....	15	53	16	43
2	17	25	27	17	11	1	5	23	42	26	4	44
1	.....	.....	1	1	2	.....	1	.....	1	1	2	45
2	38	6	5	.....	.....	.....	24	12	12	3	.....	46
.....	16	14	12	8	3	.....	12	17	17	6	1	47
8	157	233	251	123	55	8	90	237	314	168	26	48
5,436	52,516	130,115	536,861	833,980	1,672,759	1,610,702	61,545	74,204	436,482	1,468,609	2,800,929	49
9	256	391	693	708	1,228	1,086	112	334	762	1,215	1,948	50
54	1,316	366	292	79	29	4	1,855	135	88	54	8	51
31	887	226	133	25	6	1	1,130	114	41	21	3	52
653	22,385	2,607	594	43	2	.....	21,781	3,546	883	74	.....	53
1	132	3	4	1	.....	.....	127	8	2	4	.....	54
.....	28	3	1	1	1	.....	32	1	1	.....	.....	55
26	722	68	33	5	.....	.....	814	28	12	.....	.....	56
8	324	133	97	44	24	3	367	96	93	61	16	57
7	238	51	34	7	1	.....	260	42	29	7	.....	58

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

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

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

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation.....number...	7,453	76	7,086	269	9	4	8	1
11	(a) Area irrigated in these enterprises.....acres....	439,235	.....	319,732	17,715	18,632	4,029	66,313	(2)
12	(b) Cost of maintenance and operation.....dollars..	1,620,218	18,823	1,337,263	77,211	11,066	34,654	107,729	(2)
13	(c) Average cost per irrigated acre reporting.....dollars..	3.69	.....	4.18	4.36	0.59	8.60	1.62	(2)
14	Total annual charges[3].....dollars..	252,555	.....	.....	.....	24,664	28,748	165,671	(2)
15	Average charge per irrigated acre reporting.....dollars..	3.06	.....	.....	.....	1.37	9.04	3.41	(2)
16	Area against which charges were assessed.....acres....	96,930	.....	.....	.....	18,018	3,179	62,919	(2)
17	Average annual charge per acre assessed.....dollars..	2.61	.....	.....	.....	1.37	9.04	2.63	(2)
18	Total charges collected[3].....dollars..	403,248	.....	.....	.....	22,410	21,035	150,167	(2)
	INDEBTEDNESS AND ARREARAGE, 1939								
19	Enterprises reporting indebtedness[4].....number...	12	.....	.....	.....	3	3	5	1
20	(a) Area irrigated in these enterprises.....acres....	52,641	.....	.....	.....	12,852	2,510	24,465	(2)
21	(b) Indebtedness.....dollars..	1,523,911	.....	.....	.....	141,757	141,325	436,329	(2)
22	(c) Average indebtedness per acre irrigated.....dollars..	28.95	.....	.....	.....	11.03	56.30	17.83	(2)
23	(d) Cost of irrigation works and equipment.....dollars..	3,784,684	.....	.....	.....	208,413	212,170	1,671,936	(2)
24	(e) Investment in water rights.....dollars..	1,817,957	.....	.....	.....	117,583	1,025	1,699,349	.....
25	(f) Total investment.....dollars..	5,602,641	.....	.....	.....	325,996	213,195	3,371,285	(2)
26	(g) Maintenance and operation.....dollars..	144,186	.....	.....	.....	2,531	6,902	101,281	(2)
27	(h) Total annual charges[3].....dollars..	199,902	.....	.....	.....	17,412	996	148,022	(2)
28	(i) Total charges collected[3].....dollars..	372,147	.....	.....	.....	16,684	2,400	143,427	(2)
29	(j) Area against which annual charges were assessed.....acres....	52,102	.....	.....	.....	12,852	1,660	24,776	(2)
30	(k) Average indebtedness per acre assessed.....dollars..	27.25	.....	.....	.....	11.03	22.55	17.61	(2)
31	(l) Average charges per acre assessed.....dollars..	3.84	.....	.....	.....	1.35	0.60	5.97	(2)
32	(m) Average charges per acre irrigated.....dollars..	3.86	.....	.....	.....	1.35	0.60	6.05	(2)
33	Enterprises reporting arrearage[4].....number...	[5] 1	.....	.....	.....	[5] 1	.....	.....	.....
34	(a) Area assessed in these enterprises.....acres....	143	.....	.....	.....	143	.....	.....	.....
35	(b) Total arrearage.....dollars..	2,400	.....	.....	.....	2,400	.....	.....	.....
36	(c) Average arrearage per acre assessed.....dollars..	16.78	.....	.....	.....	16.78	.....	.....	.....
37	(d) Indebtedness.....dollars..	2,400	.....	.....	.....	2,400	.....	.....	.....
	TYPE, 1940								
38	Individual and partnership.....number...	8,193	629	7,286	276	2	.....	.....	.....
39	Cooperative (incorporated and unincorporated).....number...	39	2	21	2	5	2	7	.....
40	Irrigation district.....number...	[5] 2	1	.....	.....	1	.....	.....	.....
41	Commercial.....number...	4	.....	.....	.....	1	1	1	1
42	U. S. Bureau of Reclamation.....number...	3	1	1	.....	.....	1	.....	.....
43	All other.....number...	[5] 1	.....	.....	.....	.....	.....	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
44	Enterprises reporting pay roll.....number...	16	.....	.....	.....	4	3	8	1
45	Wages and salaries paid and payable for 1939.....dollars..	59,811	.....	.....	.....	2,305	7,989	39,487	(2)
46	Persons employed during week ending April 29, 1939.....number...	54	.....	.....	.....	4	12	35	(2)
	SOURCE OF SUPPLEMENTAL WATER SUPPLY 1939								
47	Streams, pumped.....number...	94	19	73	2	.....	.....	.....	.....
48	Wells, pumped or flowing.....number...	8,106	610	7,211	273	7	3	2	.....
49	Streams, gravity or storage.....number...	42	4	24	3	2	1	7	1

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

State Table 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

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

[1] Departure from normal.

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

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
76	6,744	510	113	5	5	.....	7,116	270	57	9	1	10
.....	196,583	78,442	66,305	16,075	79,830	.....	262,897	67,769	58,877	36,878	(2)	11
18,823	869,711	319,350	301,400	52,909	58,025	.....	1,048,073	233,502	175,534	129,637	(2)	12
.....	4.38	4.07	4.55	3.29	0.73	.....	3.99	3.45	2.98	3.52	(2)	13
.....	788	5,868	96,620	28,318	120,961	.....	765	2,957	55,059	160,302	(2)	14
.....	22.51	10.22	12.48	2.28	1.96	.....	2.38	10.06	1.58	4.66	(2)	15
.....	35	574	22,051	12,425	61,845	.....	322	294	48,766	34,734	(2)	16
.....	22.51	10.22	4.38	2.28	1.96	.....	2.38	10.06	1.13	4.62	(2)	17
.....	1,145	5,865	74,933	23,374	297,931	.....	.....	4,061	30,724	158,827	(2)	18
.....	.....	[5]1	6	[5]2	3	.....	1	[5]1	3	6	1	19
.....	.....	143	5,671	7,725	39,102	.....	(2)	143	4,614	34,748	(2)	20
.....	.....	2,400	252,802	16,371	1,252,338	.....	(2)	2,400	45,325	671,329	(2)	21
.....	.....	16.78	44.58	2.12	32.03	.....	(2)	16.78	9.82	19.32	(2)	22
.....	.....	9,660	729,174	263,771	2,782,079	.....	(2)	9,660	134,966	1,944,140	(2)	23
.....	.....	.....	116,725	28,809	1,672,423	.....	(2)	.....	26,000	1,676,257	.....	24
.....	.....	9,660	845,899	292,580	4,454,502	.....	(2)	9,660	160,966	3,620,397	(2)	25
.....	.....	866	62,454	28,689	52,177	.....	(2)	866	7,123	101,960	(2)	26
.....	.....	1,287	56,548	26,435	115,632	.....	(2)	1,287	4,076	160,302	(2)	27
.....	.....	1,284	55,631	23,374	291,558	.....	.....	1,284	2,400	158,827	(2)	28
.....	.....	143	5,132	7,725	39,102	.....	(2)	143	4,089	34,734	(2)	29
.....	.....	16.78	29.01	2.12	32.03	.....	(2)	16.78	10.13	16.45	(2)	30
.....	.....	9.00	11.02	3.42	2.96	.....	(2)	9.00	1.00	4.62	(2)	31
.....	.....	9.00	11.73	3.42	2.96	.....	(2)	9.00	1.00	4.66	(2)	32
.....	.....	[5]1	.....	.....	.....	.....	.....	[5]1	.....	.....	.....	33
.....	.....	143	.....	.....	.....	.....	.....	143	.....	.....	.....	34
.....	.....	2,400	.....	.....	.....	.....	.....	2,400	.....	.....	.....	35
.....	.....	16.78	.....	.....	.....	.....	.....	16.78	.....	.....	.....	36
.....	.....	2,400	.....	.....	.....	.....	.....	2,400	.....	.....	.....	37
629	6,932	522	108	2	.....	.....	7,855	281	54	3	.....	38
2	13	7	14	1	2	.....	14	15	7	3	.....	39
1	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	40
.....	.....	.....	1	2	1	.....	.....	.....	1	2	1	41
1	1	.....	1	.....	.....	.....	2	.....	1	.....	.....	42
.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	43
.....	.....	[5]2	7	[5]2	5	.....	1	[5]2	6	6	1	44
.....	.....	485	21,528	11,083	26,715	.....	(2)	710	10,218	37,933	(2)	45
.....	.....	2	23	10	19	.....	.....	3	13	35	(2)	46
19	63	8	3	1	.....	.....	83	8	2	1	.....	47
610	6,864	514	116	2	.....	.....	7,759	284	58	5	.....	48
4	19	7	5	2	5	.....	30	4	4	3	1	49

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

State Table 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939—Continued

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Sacramento River (Tributary watershed)		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Alturas	Modoc	4,446	7.56	-4.47	2.61	-1.06	2.50	-1.63	1.02	-1.85	1.43	+0.07	47.3	+0.6
Mount Shasta	Siskiyou	3,555	20.40	-13.29	6.39	-2.74	7.81	-8.73	2.40	-2.28	1.80	+0.46	51.5	+2.4
Redding	Shasta	718	24.79	-11.35	9.33	-2.74	9.15	-9.01	4.43	-0.53	1.88	+0.93	64.6	+2.0
Sierraville	Sierra	5,000	14.72	-11.04	2.62	-4.98	6.48	-7.04	2.91	-0.60	2.71	+1.58	47.1	+2.9
Quincy	Plumas	3,409	21.47	-17.54	5.74	-7.29	12.11	-7.25	3.20	-1.99	0.42	-1.01	(2)	(2)
Lake Spaulding	Nevada	5,075	41.13	-23.79	11.69	-8.80	21.66	-12.05	6.30	-3.03	1.48	+0.09	49.6	+1.7
Nevada City	Nevada	2,570	29.19	-18.17	7.66	-7.74	17.45	-7.43	3.43	-2.74	0.65	-0.26	(2)	(2)
Placerville	El Dorado	1,925	25.52	-11.93	6.54	-5.14	14.16	-6.23	3.19	-1.47	1.63	+0.91	56.3	+1.2
Clear Lake (near)	Lake	1,350	10.40	-11.24	4.76	-2.46	4.86	-7.38	0.73	-1.01	0.05	-0.39	57.9	+0.2
Averages	.....	.....	21.69	-13.65	6.59	-4.77	10.69	-7.42	3.07	-1.72	1.34	+0.26	53.5	+1.5
Sacramento River (Valley)														
Red Bluff	Tehama	303	12.39	-10.49	4.97	-2.73	3.22	-8.31	2.36	-0.44	1.84	+0.99	64.0	+1.6
Willows	Glenn	136	6.78	-9.77	2.77	-2.92	2.73	-5.97	0.83	-0.85	0.45	-0.03	63.3	+1.0
Marysville	Yuba	61	9.66	-10.84	3.05	-4.13	4.50	-6.13	1.69	-0.59	0.42	+0.01	63.6	+1.0
Sacramento	Sacramento	25	9.79	-8.16	2.88	-2.95	5.39	-3.92	1.17	-1.26	0.35	-0.03	62.2	+2.3
Averages	.....	.....	9.65	-9.81	3.42	-3.18	3.96	-6.08	1.51	-0.78	0.76	+0.23	63.3	+1.5
San Joaquin River (Tributary watershed)														
Glennville	Kern	3,300	22.16	+3.10	4.97	-0.55	12.52	+3.04	2.60	-0.86	2.07	+1.47	56.5	+1.8
Giant Forest	Tulare	6,360	31.95	-5.24	7.50	-4.29	18.62	+1.84	4.35	-3.75	1.48	+0.96	48.6	+1.1
Huntington Lake	Fresno	7,000	21.03	-9.67	6.13	-2.00	9.18	-6.88	3.67	-1.42	2.05	+0.63	46.0	+2.3
Yosemite	Mariposa	3,983	24.06	-9.63	7.17	-2.60	12.22	-5.06	2.37	-2.88	2.30	+0.92	53.9	+2.0
Lake Eleanor	Tuolumne	4,650	32.64	-9.28	9.74	-1.89	16.87	-5.85	3.03	-3.20	3.00	+1.66	54.3	+2.0
Twin Lakes	Alpine	7,920	35.41	-7.29	7.63	-3.35	19.54	-3.59	4.75	-1.29	3.49	+0.94	40.8	+1.0
Averages	.....	.....	27.87	-6.33	7.19	-2.45	14.82	-2.75	3.46	-2.23	2.40	+1.10	50.0	+1.8

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

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

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

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

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

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

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

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

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

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

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

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

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

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Drainage Basin Table I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

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

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

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

PACIFIC OCEAN STREAMS—Continued (North of San Francisco Bay)								SAN FRANCISCO BAY (Other than Sacramento-San Joaquin Delta and Sacramento and San Joaquin Rivers)				
Klamath River—Continued												
Lost River (4)	Shasta River (5)	Scott River (6)	Trinity River (7)	Mad River (8)	Eel River (9)	Russian River (10)	Other coastal streams (11)	Total	Direct (12)	Petaluma Creek (13)	Sonoma Creek (14)	
396	285	227	310	9	32	221	5	4,400	215	4	12	1
31,529	33,631	20,785	5,842	179	941	7,063	46	116,502	1,379	31	378	2
27,901	17,888	15,217	4,133	104	532	6,793	33	108,693	1,337	31	252	3
.....	.....	1	1	.....	.....	57	.....	1,856	35	.....	.....	4
3,628	15,743	5,567	1,708	75	409	213	13	5,953	7	.....	126	5
.....	.....	.....	.....	.....	.....	5,431	.....	99,079	.....	.....	.....	6
.....	.....	.....	.....	.....	.....	3,045	.....	76,947	.....	.....	.....	7
.....	.....	.....	.....	.....	.....	30.0	.....	17.6	.....	.....	.....	8
43,815	52,048	23,276	9,300	271	1,516	9,334	63	165,735	1,806	72	412	9
.....	.....	.....	.....	.....	.....	10,071	.....	111,354	.....	.....	.....	10
.....	.....	.....	.....	.....	.....	12,475	.....	100,730	.....	.....	.....	11
12,286	18,417	2,491	3,458	92	575	2,271	17	49,233	427	41	34	12
.....	.....	.....	.....	.....	.....	4,640	.....	12,275	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	9,430	.....	23,783	.....	.....	.....	14
36,404	36,995	22,678	8,528	214	1,420	9,253	63	163,185	1,793	72	412	15
.....	.....	.....	.....	.....	.....	7,941	.....	107,432	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	4,200	.....	86,779	.....	.....	.....	17
.....	.....	.....	.....	.....	.....	16.5	.....	51.9	.....	.....	.....	18
4,875	3,364	1,893	2,686	35	479	2,190	17	46,693	414	41	34	19
.....	.....	.....	.....	.....	.....	2,510	.....	8,353	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	1,155	.....	9,832	.....	.....	.....	21
86.6	90.9	91.7	68.5	83.6	66.3	76.3	73.0	71.4	76.9	43.1	91.7	22
.....	.....	.....	.....	.....	.....	68.4	.....	92.2	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	72.5	.....	88.7	.....	.....	.....	24
2,249,887	1,902,008	276,517	202,176	7,305	41,957	365,635	3,725	9,346,398	286,694	6,000	31,350	25
2,249,887	1,869,336	270,376	201,867	7,300	41,747	365,159	3,725	9,331,250	286,694	6,000	31,350	26
.....	32,672	6,141	309	5	210	476	.....	15,148	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	534,835	.....	9,405,139	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	162,630	.....	4,940,061	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	-31.6	.....	-0.6	.....	.....	.....	30
61.80	51.41	12.19	23.71	34.14	29.55	39.52	59.13	57.27	159.90	83.33	76.00	31
.....	.....	.....	.....	.....	.....	67.35	.....	87.55	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	38.72	.....	56.93	.....	.....	.....	33
71.36	56.56	13.30	34.61	40.81	44.59	51.77	80.98	80.23	207.90	193.55	82.94	34
2,518,135	1,904,768	299,472	227,711	10,405	46,507	384,324	5,725	9,412,904	286,929	7,000	31,350	35
57.47	36.60	12.87	24.49	38.39	30.68	41.17	90.87	56.79	158.88	97.22	76.09	36
Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises					Primary Enterprises	Sup. Enterprises		
6	[4]1	97	116	3	149	5	27	198	4	2,568	3	102	5	11	37
25,624	1,660	33,597	18,181	305	5,563	62	881	6,729	41	114,041	569	1,090	31	317	38
30,016	996	40,141	9,555	435	13,931	502	3,984	41,831	265	887,812	3,794	22,495	665	3,384	39
1.17	0.60	1.19	0.53	1.43	2.50	8.10	4.52	6.22	6.46	7.79	6.67	20.84	21.45	10.68	40
27,802	996	57,700	9,340	.....	2,500	.....	.....	1,250	.....	167,534	.....	10,884	.....	.....	41
1.25	0.60	3.88	1.23	.....	2.48	.....	.....	3.63	.....	9.45	.....	60.13	.....	.....	42
23,905	1,660	22,252	7,591	.....	1,008	.....	.....	344	.....	18,074	.....	229	.....	.....	43
1.16	0.60	2.59	1.23	.....	2.48	.....	.....	3.63	.....	9.27	.....	47.53	.....	.....	44
1,357	.....	42,538	8,873	.....	.....	.....	.....	.....	.....	4,752	.....	3,060	.....	.....	45
1,999,289	37,425	2,365,807	71,657	.....	.....	.....	.....	.....	.....	19,795	.....	.....	.....	.....	46
10	[4]1	78	73	2	97	8	30	203	4	2,643	2	108	4	12	47
31,529	1,660	30,961	10,565	(5)	3,396	87	821	6,838	41	115,522	(5)	1,261	31	378	48
73,741	3,320	63,589	21,710	(5)	17,717	137	1,055	12,410	65	192,419	(5)	2,474	43	674	49
2.3	2.0	2.1	2.1	(5)	5.2	1.6	1.3	1.8	1.6	1.7	(5)	2.0	1.4	1.8	50
1.17	0.60	2.21	1.04	(5)	2.86	8.10	4.68	6.15	6.46	8.22	(5)	25.74	15.00	10.68	51
0.50	0.30	1.06	0.51	(5)	0.55	5.12	3.64	3.39	4.08	4.93	(5)	13.12	10.81	5.99	52
5	.....	4	7	.....	4	.....	2	6	[4]1	38	.....	5	1	.....	53
40,795	.....	4,074	762	.....	101	.....	(5)	399	12	15,973	.....	193	(5)	.....	54
28,510	.....	3,456	353	.....	81	.....	(5)	238	6	11,096	.....	192	(5)	.....	55
37,768	.....	1,300	31	.....	9	.....	(5)	50	.....	7,724	.....	117	(5)	.....	56
150	.....	53	60	.....	25	.....	(5)	16	3	5,212	.....	.....	.....	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SAN FRANCISCO BAY—Continued (Other than Sacramento-San Joaquin Delta and Sacramento and San Joaquin Rivers)						
			Suisun Bay					
		Napa River (15)	Total	Direct (16)	Walnut Creek (17)	Alameda Creek (18)	Santa Clara Valley streams (19)	
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	175	231	157	74	584	3,179	
2	Area irrigated....1939...acres....	2,291	19,198	16,529	2,669	18,723	74,502	
3	(a) Cropland harvested....1939...acres....	2,069	12,506	9,857	2,649	18,515	73,983	
4	(b) Crop failure....1939...acres....	3	1,560	1,540	20	121	137	
5	(c) Pasture....1939...acres....	219	5,132	5,132	.....	87	382	
6	Area irrigated....1929...acres....	.....	.....	.....	.....	.....	62,397	
7	1919...acres....	.....	.....	.....	.....	.....	54,340	
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	.....	.....	.....	19.4	
9	Irrigable area in enterprises....1940...acres....	3,939	26,534	22,788	3,746	28,259	104,713	
10	1930...acres....	.....	.....	.....	.....	.....	67,486	
11	1920[1]...acres....	.....	.....	.....	.....	.....	65,528	
12	Excess of irrigable area over the area irrigated..1940...acres....	1,648	7,336	6,259	1,077	9,536	30,211	
13	1930...acres....	.....	.....	.....	.....	.....	5,089	
14	1920[1]...acres....	.....	.....	.....	.....	.....	11,188	
15	Area works were capable of supplying with water...1940...acres....	3,915	26,439	22,753	3,686	28,075	102,479	
16	1930...acres....	.....	.....	.....	.....	.....	66,304	
17	1920...acres....	.....	.....	.....	.....	.....	57,534	
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	.....	54.6	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	1,624	7,241	6,224	1,017	9,352	27,977	
20	1930...acres....	.....	.....	.....	.....	.....	3,907	
21	1920...acres....	.....	.....	.....	.....	.....	3,194	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	58.5	72.6	72.6	72.4	66.7	72.7	
23	1929...percent....	.....	.....	.....	.....	.....	94.1	
24	1919...percent....	.....	.....	.....	.....	.....	94.4	
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	253,329	554,158	291,238	262,920	1,182,715	7,032,152	
26	(a) Cost of irrigation works and equipment....1940...dollars....	252,719	554,052	291,232	262,820	1,178,565	7,021,870	
27	(b) Investment in water rights (reported)....1940...dollars....	610	106	6	100	4,150	10,282	
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	.....	.....	.....	5,021,248	
29	1920...dollars....	.....	.....	.....	.....	.....	3,336,187	
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	.....	.....	40.0	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	64.71	20.96	12.80	71.33	42.13	68.62	
32	1930...dollars....	.....	.....	.....	.....	.....	75.73	
33	1920...dollars....	.....	.....	.....	.....	.....	57.99	
34	Average investment per acre irrigated....1939...dollars....	110.58	28.87	17.62	98.51	63.17	94.39	
35	Estimated final investment in existing enterprises..1940...dollars....	258,489	580,518	317,488	263,030	1,189,605	7,058,013	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	65.62	21.88	13.93	70.22	42.10	67.41	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS						Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	116	208	134	74	480	1,646	3
38	Area irrigated in these enterprises....1939...acres....	2,009	19,045	16,394	2,651	18,143	73,406	569
39	Cost of maintenance and operation....1939...dollars....	14,087	54,212	28,951	25,261	126,798	666,171	3,794
40	Average cost, per acre irrigated....1939...dollars....	7.01	2.85	1.77	9.53	6.99	9.08	6.67
41	Total annual charges (reported)[3,4]....1939...dollars....	.....	197	197	.....	3,914	152,539	.....
42	Average annual charge per acre irrigated....1939...dollars....	.....	4.92	4.92	.....	2.35	9.63	.....
43	Area against which charges were assessed....1939...acres....	.....	40	40	.....	1,669	16,136	.....
44	Average annual charge per acre assessed....1939...dollars....	.....	4.92	4.92	.....	2.35	9.45	.....
45	Total charges collected[3]....1939...dollars....	.....	.....	.....	.....	.....	1,692	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	.....	.....	.....	.....	.....	19,795	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	163	215	144	71	499	1,642	2
48	Area irrigated by these enterprises....1939...acres....	2,206	18,888	16,373	2,515	18,713	74,045	(2)
49	Water delivered....1939...acre-feet..	3,835	50,832	46,426	4,406	31,602	102,959	(2)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.7	2.7	2.8	1.8	1.7	1.4	(2)
51	Average cost of water per acre irrigated....1939...dollars....	6.91	2.84	1.73	9.97	7.01	9.65	(2)
52	Average cost of water per acre-foot delivered..1939...dollars....	3.97	1.05	0.61	5.69	4.15	6.94	(2)
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	13	7	7	.....	4	8	.....
54	Irrigable area in these enterprises....1939...acres....	574	14,148	14,148	.....	279	772	.....
55	Irrigated area in these enterprises....1939...acres....	343	9,857	9,857	.....	114	583	.....
56	Area for which drains have been installed....1939...acres....	215	7,232	7,232	.....	16	137	.....
57	Additional area needing drainage....1939...acres....	83	5,000	5,000	.....	125	4	.....

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

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

PACIFIC OCEAN STREAMS (South of San Francisco Bay)																
Total		Pajaro and San Benito Rivers (20)		Salinas River (21)		Santa Maria River (22)		San Antonio River (23)		Santa Ynez River (24)		Ventura River (25)		
43,951		1,483		1,198		201		11		166		284		1
790,017		53,062		103,818		25,236		721		11,681		4,011		2
778,540		52,702		102,268		24,398		646		10,579		3,871		3
3,086		141		233		161		.....		331		.....		4
8,391		219		1,317		677		75		771		140		5
739,670		43,519		77,266		21,818		.....		11,869		.....		6
543,385		19,771		48,097		9,623		.....		3,491		.....		7
6.8		21.9		34.4		15.7		.....		-1.6		.....		8
1,121,672		89,748		111,990		29,961		781		14,950		4,690		9
979,574		51,310		88,597		23,939		.....		18,522		.....		10
831,490		33,620		60,989		22,903		.....		10,082		.....		11
331,555		36,686		8,172		4,725		60		3,269		679		12
239,904		7,791		11,331		2,121		.....		6,653		.....		13
288,105		13,849		12,892		13,280		.....		6,591		.....		14
1,094,207		83,213		111,570		29,185		756		14,764		4,654		15
918,956		49,013		85,437		23,779		.....		16,695		.....		16
662,847		25,769		57,456		20,460		.....		9,645		.....		17
19.1		69.8		30.6		22.7		.....		-11.6		.....		18
304,190		30,151		7,752		3,949		35		3,083		643		19
179,286		5,494		8,171		1,961		.....		4,826		.....		20
119,462		5,998		9,359		10,837		.....		6,154		.....		21
72.2		63.8		93.1		86.5		95.4		79.1		86.2		22
80.5		88.8		90.4		91.8		.....		71.1		.....		23
82.0		76.7		83.7		47.0		.....		36.2		.....		24
100,761,225		3,367,947		5,936,503		1,160,535		33,750		566,836		698,758		25
93,214,281		3,363,367		5,934,103		1,160,335		33,750		566,693		687,998		26
7,546,944		4,580		2,400		200		.....		143		760		27
93,601,386		2,970,961		4,774,377		1,044,252		.....		3,606,837		.....		28
53,456,601		1,248,343		2,570,331		573,194		.....		284,037		.....		29
7.6		13.4		24.3		11.1		.....		-84.3		.....		30
92.09		40.47		53.21		39.76		44.64		38.39		147.99		31
58.17		60.62		55.88		43.91		.....		216.04		.....		32
80.65		48.44		44.74		28.02		.....		29.45		.....		33
127.54		63.47		57.18		45.99		46.81		48.53		171.72		34
101,898,694		3,731,182		5,977,697		1,161,585		33,750		583,920		695,258		35
90.85		41.57		53.38		38.77		43.21		39.06		148.24		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	
8,185	169	1,107	7	840	21	186	2	11	1	139	1	74	4	37
730,444	45,402	52,045	317	102,477	2,003	24,587	(2)	721	(2)	11,599	(2)	3,935	56	38
6,115,363	224,834	323,258	1,910	671,861	14,535	177,874	(2)	4,880	(2)	60,587	(2)	40,532	1,010	39
8.37	4.95	6.21	6.03	6.56	7.26	7.23	(2)	6.77	(2)	5.22	(2)	10.30	18.04	40
4,512,728	192,547	24,312	.....	25,801	.....	.....	.....	.....	.....	1,200	.....	16,586	.....	41
11.91	5.64	6.81	.....	4.96	.....	.....	.....	.....	.....	12.00	.....	9.09	.....	42
447,112	34,422	21,490	.....	5,270	.....	.....	.....	.....	.....	100	.....	2,139	.....	43
10.09	5.59	1.13	.....	4.90	.....	.....	.....	.....	.....	12.00	.....	7.75	.....	44
3,348,715	357,734	15,764	.....	24,275	.....	.....	.....	.....	.....	606	.....	17,719	.....	45
14,886,308	1,334,758	.....	.....	10,334	.....	.....	.....	.....	.....	.....	.....	1,600	.....	46
8,391	169	1,114	7	854	23	188	2	11	1	142	.....	75	4	47
779,080	28,584	52,845	317	103,598	2,010	24,770	(2)	721	(2)	11,581	.....	3,696	56	48
1,453,282	55,534	80,687	301	252,148	5,153	69,667	(2)	1,898	(2)	19,161	.....	6,008	76	49
1.9	1.9	1.5	0.9	2.4	2.6	2.8	(2)	2.6	(2)	1.7	.....	1.6	1.4	50
9.59	7.60	6.27	6.03	6.50	7.26	7.21	(2)	6.77	(2)	5.21	.....	12.95	18.04	51
5.14	3.91	4.11	6.35	2.67	2.83	2.56	(2)	2.57	(2)	3.15	.....	7.97	13.29	52
363	.....	45	.....	85	.....	2	.....	.....	.....	4	.....	.....	.....	53
80,567	.....	3,065	.....	9,440	.....	(2)	.....	.....	.....	586	.....	.....	.....	54
60,530	.....	2,423	.....	8,791	.....	(2)	.....	.....	.....	586	.....	.....	.....	55
39,322	.....	1,783	.....	6,029	.....	.....	.....	.....	.....	215	.....	.....	.....	56
3,569	.....	143	.....	1,101	.....	(2)	.....	.....	.....	19	.....	.....	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)							
		Santa Clara River and Calleguas Creek[1] (26)		Los Angeles and San Gabriel Rivers (27)		Santa Ana River (28)		Santa Margarita River (29)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	1,654		11,835		18,534		192	
2	Area irrigated....1939...acres....	85,764		158,870		258,653		4,139	
3	(a) Cropland harvested....1939...acres....	85,332		157,983		254,695		3,982	
4	(b) Crop failure....1939...acres....	261		213		908		59	
5	(c) Pasture....1939...acres....	171		674		3,050		98	
6	Area irrigated....1929...acres....	61,492		172,263		246,899		.....	
7	1919...acres....	28,270		186,218		185,508		.....	
8	Increase or decrease (-), 1929-1939....percent....	.....		-7.8		4.8		.....	
9	Irrigable area in enterprises....1940...acres....	117,224		253,400		353,674		6,803	
10	1930...acres....	74,691		244,266		303,570		.....	
11	1920[4]...acres....	43,205		244,394		281,630		.....	
12	Excess of irrigable area over the area irrigated..1940...acres....	31,460		94,530		95,021		2,664	
13	1930...acres....	13,199		72,003		56,671		.....	
14	1920[4]...acres....	14,935		58,176		96,122		.....	
15	Area works were capable of supplying with water...1940...acres....	115,139		251,794		343,843		6,487	
16	1930...acres....	69,288		231,391		291,530		.....	
17	1920...acres....	30,216		218,628		218,735		.....	
18	Increase or decrease (-), 1930-1940....percent....	.....		8.8		17.9		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	29,375		92,924		85,190		2,348	
20	1930...acres....	7,796		59,128		44,631		.....	
21	1920...acres....	1,946		32,410		33,227		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	74.5		63.1		75.2		63.8	
23	1929...percent....	88.7		74.4		84.7		.....	
24	1919...percent....	93.6		85.2		84.8		.....	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	8,577,686		18,637,170		36,111,047		951,762	
26	(a) Cost of irrigation works and equipment....1940...dollars....	8,247,958		17,721,573		30,480,067		451,761	
27	(b) Investment in water rights (reported)....1940...dollars....	329,728		915,597		5,630,980		500,001	
28	Total investment in irrigation enterprises....1930...dollars....	5,422,200		27,835,206		27,092,533		.....	
29	1920...dollars....	2,211,473		18,370,719		19,918,550		.....	
30	Increase or decrease (-), 1930-1940....percent....	.....		-33.0		33.3		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	74.50		74.02		105.02		146.72	
32	1930...dollars....	78.26		120.30		92.93		.....	
33	1920...dollars....	73.19		84.03		91.06		.....	
34	Average investment per acre irrigated....1939...dollars....	100.01		117.31		139.61		229.95	
35	Estimated final investment in existing enterprises..1940...dollars....	8,783,571		18,707,000		36,227,294		998,842	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	74.93		73.82		102.43		146.82	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number....	533	17	1,138	15	1,775	28	148	1
38	Area irrigated in these enterprises....1939...acres....	84,365	4,376	115,803	5,358	249,818	16,471	4,075	(5)
39	Cost of maintenance and operation....1939...dollars....	626,314	56,720	1,254,604	56,357	2,146,687	38,571	36,192	(5)
40	Average cost, per acre irrigated....1939...dollars....	7.42	12.96	10.83	10.52	8.59	2.34	8.88	(5)
41	Total annual charges (reported)[6] [7]....1939...dollars....	258,055	27,752	1,366,667	51,995	2,248,850	79,328	13,124	.....
42	Average annual charge per acre irrigated....1939...dollars....	9.47	18.27	11.36	11.76	12.37	5.17	9.41	.....
43	Area against which charges were assessed....1939...acres....	28,178	1,519	124,021	4,422	202,273	15,667	1,395	.....
44	Average annual charge per acre assessed....1939...dollars....	9.16	18.27	11.02	11.76	11.12	5.06	9.41	.....
45	Total charges collected[6]....1939...dollars....	179,688	18,635	915,850	51,116	1,587,508	78,347	13,000	.....
46	Indebtedness to December 31 (reported)[7]....1939...dollars....	166,806	.....	1,215,642	117,936	4,392,315	312,322	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	540	14	1,155	14	1,871	27	139	1
48	Area irrigated by these enterprises....1939...acres....	85,256	2,891	156,993	2,929	253,356	16,542	3,980	(5)
49	Water delivered....1939...acre-feet..	153,785	3,897	250,890	3,439	479,421	39,751	7,143	(5)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	1.3	1.6	1.2	1.9	2.4	1.8	(5)
51	Average cost of water per acre irrigated....1939...dollars....	7.68	14.97	10.79	21.02	11.01	5.29	8.66	(5)
52	Average cost of water per acre-foot delivered..1939...dollars....	4.26	11.11	6.75	17.91	5.82	2.20	4.82	(5)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	63	.....	32	.....	70	.....	2	.....
54	Irrigable area in these enterprises....1939...acres....	27,660	.....	4,101	.....	26,496	.....	(5)	.....
55	Irrigated area in these enterprises....1939...acres....	15,764	.....	2,949	.....	23,938	.....	(5)	.....
56	Area for which drains have been installed....1939...acres....	20,457	.....	1,142	.....	7,484	.....	(5)	.....
57	Additional area needing drainage....1939...acres....	1,015	.....	85	.....	728	.....	.....	.....

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

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

PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)												SACRAMENTO-SAN JOAQUIN DELTA		
San Luis Rey River (30)		San Dieguito River (31)		San Diego River (32)		Sweetwater River (33)		Otay and Tia Juana Rivers (34)		Other coastal streams (north)[2] (35)	Other coastal streams (south)[3] (36)	Total		
2,373		1,828		1,462		835		331		772	792	66,363		1
17,385		13,445		10,489		5,162		3,541		20,074	13,966	3,371,960		2
17,163		13,362		10,290		5,150		3,068		19,212	13,819	3,063,033		3
10		40		85		1		48		553	42	11,521		4
212		43		114		11		405		309	105	297,406		5
.....		.....		9,078		.....		.....		.....	.....	3,157,132		6
.....		.....		8,812		.....		.....		.....	.....	2,744,644		7
.....		.....		15.5		.....		.....		.....	.....	6.8		8
32,236		24,711		19,633		5,463		5,480		24,844	26,084	5,636,102		9
.....		.....		18,301		.....		.....		.....	.....	5,393,666		10
.....		.....		14,039		.....		.....		.....	.....	5,499,735		11
14,851		11,266		9,144		301		1,939		4,770	12,118	2,264,142		12
.....		.....		9,223		.....		.....		.....	.....	2,236,534		13
.....		.....		5,227		.....		.....		.....	.....	2,755,091		14
31,339		24,532		18,176		5,424		5,390		23,626	24,315	5,108,599		15
.....		.....		17,865		.....		.....		.....	.....	4,795,836		16
.....		.....		10,789		.....		.....		.....	.....	4,113,524		17
.....		.....		1.7		.....		.....		.....	.....	6.5		18
13,954		11,087		7,687		262		1,849		3,552	10,349	1,736,639		19
.....		.....		8,787		.....		.....		.....	.....	1,638,704		20
.....		.....		1,977		.....		.....		.....	.....	1,368,880		21
55.5		54.8		57.7		95.2		65.7		85.0	57.4	66.0		22
.....		.....		50.8		.....		.....		.....	.....	65.8		23
.....		.....		81.7		.....		.....		.....	.....	66.5		24
4,212,983		2,502,857		5,210,892		7,639,011		478,277		1,450,829	3,234,382	169,471,616		25
4,205,856		2,498,797		5,210,892		7,530,136		476,277		1,445,662	3,199,056	165,880,975		26
7,127		4,060		.....		108,875		2,000		5,167	35,326	3,590,641		27
.....		.....		3,192,381		.....		.....		.....	.....	164,628,093		28
.....		.....		1,789,124		.....		.....		.....	.....	100,527,759		29
.....		.....		63.2		.....		.....		.....	.....	2.9		30
134.43		102.02		286.69		1,408.37		88.73		61.41	133.02	33.17		31
.....		.....		178.69		.....		.....		.....	.....	34.33		32
.....		.....		165.83		.....		.....		.....	.....	24.52		33
242.33		186.16		496.80		1,479.85		135.07		72.27	231.59	50.26		34
4,372,338		2,538,382		5,240,963		7,643,611		485,002		1,458,304	3,261,195	175,836,694		35
135.64		102.72		266.95		1,398.98		88.50		58.70	125.03	31.20		36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	
341	9	222	34	438	12	48	6	200	2	615	370	9	16,040	7,261	37
16,928	13,215	13,228	1,327	10,205	254	5,046	125	3,311	(5)	19,015	13,286	1,178	3,227,470	384,497	38
101,493	36,969	87,827	8,044	136,971	2,613	107,501	1,338	26,869	(5)	163,646	148,287	3,575	11,627,200	1,357,820	39
6.00	2.80	6.64	6.06	13.42	10.29	21.30	10.70	8.12	(5)	8.61	11.16	3.03	3.60	3.53	40
119,888	33,472	205,746	.....	77,375	.....	89,107	.....	1,521	.....	5,989	58,507	.....	5,978,229	34,892	41
11.38	2.61	19.57	.....	13.36	.....	19.51	.....	5.74	.....	2.73	15.48	.....	2.89	0.59	42
20,228	12,814	16,874	.....	14,091	.....	4,568	.....	425	.....	2,220	3,840	.....	3,026,228	55,230	43
5.93	2.61	12.19	.....	5.49	.....	19.51	.....	3.58	.....	2.70	15.24	.....	1.98	0.63	44
71,769	209,636	123,750	.....	218,389	.....	89,107	.....	3,280	.....	315	87,695	.....	5,149,590	22,140	45
979,499	904,500	664,573	.....	1,368,260	.....	5,460,500	.....	3,700	.....	.....	623,079	.....	56,273,276	199,000	46
340	8	209	33	450	15	53	6	215	2	646	389	12	16,096	7,313	47
16,788	404	12,866	1,027	10,414	323	5,162	125	3,524	(5)	19,767	13,753	1,247	3,185,364	377,491	48
24,621	139	15,716	583	15,692	293	6,777	267	10,271	(5)	37,609	20,788	966	8,708,832	693,453	49
1.5	0.3	1.3	0.6	1.5	0.9	1.3	2.1	2.9	(5)	1.9	1.5	0.8	2.7	1.8	50
10.28	9.86	17.72	3.35	12.54	10.29	18.93	10.70	7.84	(5)	8.62	13.12	3.03	4.04	3.73	51
7.01	28.41	13.64	5.89	8.33	11.36	14.42	5.01	2.69	(5)	4.53	8.68	3.92	1.48	2.03	52
7	.....	7	.....	3	.....	.....	.....	2	.....	18	23	.....	449	.....	53
2,451	.....	486	.....	55	.....	.....	.....	(5)	.....	813	2,751	.....	1,897,086	.....	54
1,749	.....	361	.....	31	.....	.....	.....	(5)	.....	572	1,474	.....	1,181,520	.....	55
690	.....	54	.....	16	.....	.....	.....	(5)	.....	313	728	.....	1,213,586	.....	56
73	.....	28	.....	14	.....	.....	.....	(5)	.....	106	4	.....	60,179	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued							
		Direct		Sacramento River					
				Total[1]		Upper Sacramento River			
						Total		Direct	
		(37)						(38)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	1,904		15,582		2,859		874	
2	Area irrigated....1939...acres....	245,691		757,446		138,364		14,423	
3	(a) Cropland harvested....1939...acres....	238,636		657,387		98,786		11,581	
4	(b) Crop failure....1939...acres....	1,012		5,468		403		11	
5	(c) Pasture....1939...acres....	6,043		94,591		39,175		2,831	
6	Area irrigated....1929...acres....	.....		696,924		.....		.....	
7	1919...acres....	.....		640,950		.....		.....	
8	Increase or decrease (-), 1929-1939....percent....	.....		8.7		.....		.....	
9	Irrigable area in enterprises....1940...acres....	337,304		1,683,768		231,336		37,754	
10	1930...acres....	.....		1,554,698		.....		.....	
11	1920[2]..acres....	.....		1,204,769		.....		.....	
12	Excess of irrigable area over the area irrigated..1940...acres....	91,613		926,322		92,972		23,331	
13	1930...acres....	.....		857,774		.....		.....	
14	1920[2]..acres....	.....		563,819		.....		.....	
15	Area works were capable of supplying with water...1940...acres....	333,376		1,368,187		217,525		37,704	
16	1930...acres....	.....		1,176,770		.....		.....	
17	1920...acres....	.....		864,605		.....		.....	
18	Increase or decrease (-), 1930-1940....percent....	.....		16.3		.....		.....	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	87,685		610,741		79,161		23,281	
20	1930...acres....	.....		479,846		.....		.....	
21	1920...acres....	.....		223,655		.....		.....	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	73.7		55.4		63.6		38.3	
23	1929...percent....	.....		59.2		.....		.....	
24	1919...percent....	.....		74.1		.....		.....	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	5,809,300		44,525,264		5,239,691		1,452,961	
26	(a) Cost of irrigation works and equipment....1940...dollars....	5,807,746		43,105,005		5,170,795		1,452,542	
27	(b) Investment in water rights (reported)....1940...dollars....	1,554		1,420,259		68,896		419	
28	Total investment in irrigation enterprises....1930...dollars....	.....		48,750,541		.....		.....	
29	1920...dollars....	.....		28,833,106		.....		.....	
30	Increase or decrease (-), 1930-1940....percent....	.....		-8.7		.....		.....	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	17.43		32.54		24.09		38.54	
32	1930...dollars....	.....		41.43		.....		.....	
33	1920...dollars....	.....		33.35		.....		.....	
34	Average investment per acre irrigated....1939...dollars....	23.64		58.78		37.87		100.74	
35	Estimated final investment in existing enterprises..1940...dollars....	5,873,307		47,475,230		5,350,982		1,455,342	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	17.41		28.20		23.13		38.55	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
		Enterprises		Enterprises		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	684	11	4,622	59	1,003	19	159	4
38	Area irrigated in these enterprises....1939...acres....	170,538	22,950	724,241	16,164	127,845	12,999	14,099	96
39	Cost of maintenance and operation....1939...dollars....	504,342	6,701	2,609,208	12,144	230,737	2,778	49,416	472
40	Average cost, per acre irrigated....1939...dollars....	2.96	0.29	3.60	0.75	1.80	0.21	3.50	4.92
41	Total annual charges (reported)[4] [5]....1939...dollars....	315,488	5,329	1,349,910	15,360	144,125	15,360	50,266	.....
42	Average annual charge per acre irrigated....1939...dollars....	5.07	0.23	3.17	1.24	2.90	1.24	5.55	.....
43	Area against which charges were assessed....1939...acres....	87,196	22,743	835,583	12,387	84,753	12,387	27,740	.....
44	Average annual charge per acre assessed....1939...dollars....	3.62	0.23	1.62	1.24	1.70	1.24	1.81	.....
45	Total charges collected[4]....1939...dollars....	282,500	5,323	1,197,880	15,400	106,803	15,400	46,912	.....
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	2,191,863	.....	13,261,459	139,000	1,922,900	139,000	1,121,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	772	8	4,678	55	869	17	146	4
48	Area irrigated by these enterprises....1939...acres....	210,047	22,943	695,988	16,264	105,710	13,085	12,420	96
49	Water delivered....1939...acre-feet..	493,991	21,184	2,474,591	20,679	242,981	13,353	19,465	150
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4	0.9	3.6	1.3	2.3	1.0	1.6	1.6
51	Average cost of water per acre irrigated....1939...dollars....	3.28	0.28	3.68	1.63	2.05	1.30	5.48	4.92
52	Average cost of water per acre-foot delivered..1939...dollars....	1.40	0.31	1.04	1.28	0.89	1.27	3.49	3.15
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	196	.....	152	.....	53	.....	11	.....
54	Irrigable area in these enterprises....1939...acres....	218,350	.....	675,229	.....	14,798	.....	698	.....
55	Irrigated area in these enterprises....1939...acres....	158,807	.....	273,817	.....	11,909	.....	672	.....
56	Area for which drains have been installed....1939...acres....	171,953	.....	536,104	.....	8,407	.....	7	.....
57	Additional area needing drainage....1939...acres....	9,522	.....	22,746	.....	536	.....	139	.....

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

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

SACRAMENTO-SAN JOAQUIN DELTA—Continued																	
Sacramento River—Continued																	
Upper Sacramento River—Continued																	
Pit River				Clear Creek		Cow Creek	Bear Creek		Cottonwood Creek		Battle Creek	Paynes Creek					
Total		Direct (39)		Goose Lake (40)		(41)	(42)	(43)		(44)		(45)	(46)				
570		487		83		22	163	37		155		55	6			1
82,459		76,226		6,233		628	5,686	1,523		2,470		4,028	387			2
59,401		54,252		5,149		391	2,301	588		2,275		747	157			3
2		1		1		.....	106	1		.....		.....	100			4
23,056		21,973		1,083		237	3,279	934		195		3,281	130			5
69,768		.....		.....		.....	5,122	.....		2,446		4,570	.....			6
89,984		.....		.....		.....	6,068	.....		2,972		2,966	.....			7
18.2		.....		.....		.....	11.0	.....		1.0		-11.9	.....			8
121,879		98,305		23,574		1,449	6,910	1,817		10,846		6,611	730			9
94,151		.....		.....		.....	5,877	.....		13,971		6,352	.....			10
129,984		.....		.....		.....	12,488	.....		21,016		6,590	.....			11
39,420		22,079		17,341		821	1,224	294		8,376		2,583	343			12
24,383		.....		.....		.....	755	.....		11,525		1,782	.....			13
40,000		.....		.....		.....	6,420	.....		18,044		3,624	.....			14
113,972		91,070		22,902		1,231	6,883	1,817		5,723		6,191	730			15
83,058		.....		.....		.....	5,757	.....		6,738		5,824	.....			16
107,478		.....		.....		.....	7,446	.....		4,112		5,108	.....			17
37.2		.....		.....		.....	19.6	.....		-15.1		6.3	.....			18
31,513		14,844		16,669		603	1,197	294		3,253		2,163	343			19
13,290		.....		.....		.....	635	.....		4,292		1,254	.....			20
17,494		.....		.....		.....	1,378	.....		1,140		2,142	.....			21
72.4		83.7		27.2		51.0	82.6	83.8		49.2		65.1	53.0			22
84.0		.....		.....		.....	89.0	.....		36.3		78.5	.....			23
83.7		.....		.....		.....	81.5	.....		72.3		58.1	.....			24
1,400,476		1,313,605		86,871		35,967	118,795	29,227		827,179		68,651	15,005			25
1,340,116		1,257,865		82,251		35,967	116,034	28,312		827,179		64,280	15,000			26
60,360		55,740		4,620		.....	2,761	915		.....		4,371	5			27
982,284		.....		.....		.....	89,260	.....		821,779		87,685	.....			28
799,913		.....		.....		.....	126,946	.....		573,601		95,139	.....			29
42.6		.....		.....		.....	33.1	.....		0.7		-21.7	.....			30
12.29		14.42		3.79		29.22	17.26	16.09		144.54		11.09	20.55			31
11.83		.....		.....		.....	15.50	.....		121.96		15.06	.....			32
7.44		.....		.....		.....	17.05	.....		139.49		18.63	.....			33
16.98		17.23		13.94		57.27	20.89	19.19		334.89		17.04	38.77			34
1,461,996		1,374,030		87,966		38,667	119,570	29,227		832,829		68,651	15,005			35
12.00		13.98		3.73		26.69	17.30	16.09		76.79		10.38	20.55			36
Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.		
324	2	277	2	47	12	2	84	29	1	25	3	42	6	1		37
73,760	(3)	67,743	(3)	6,017	601	(3)	4,978	1,506	(3)	2,470	11	3,945	387	(3)		38
37,855	(3)	36,100	(3)	1,755	1,114	(3)	5,477	1,093	(3)	19,469	35	1,568	1,195	(3)		39
0.51	(3)	0.53	(3)	0.29	1.85	(3)	1.10	0.73	(3)	7.88	3.18	0.40	3.09	(3)		40
12,577	15,360	12,535	15,360	42	672	.....	729	100	.....	17,573	.....	20	.....	.....		41
0.72	1.24	0.73	1.24	0.11	1.40	.....	0.51	0.51	.....	8.79	.....	0.05	.....	.....		42
23,588	12,387	23,223	12,387	375	480	.....	1,560	197	.....	2,500	.....	420	.....	.....		43
0.53	1.24	0.54	1.24	0.11	1.40	.....	0.47	0.51	.....	7.03	.....	0.05	.....	.....		44
6,970	15,400	6,970	15,400	.....	.....	.....	591	.....	.....	.....	.....	.....	.....	.....		45
45,000	139,000	45,000	139,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		46
270	2	222	2	48	12	1	52	18	1	16	2	27	5	1		47
71,227	(3)	65,299	(3)	5,928	609	(3)	2,536	10.33	(3)	2,197	(3)	3,213	375	(3)		48
163,386	(3)	146,868	(3)	16,518	2,299	(3)	12,850	4,855	(3)	3,270	(3)	6,305	755	(3)		49
2.3	(3)	2.2	(3)	2.8	3.8	(3)	5.1	4.7	(3)	1.5	(3)	2.0	2.0	(3)		50
0.54	(3)	0.57	(3)	0.30	1.85	(3)	1.27	0.43	(3)	8.31	(3)	0.23	3.05	(3)		51
0.24	(3)	0.25	(3)	0.11	0.49	(3)	0.25	0.09	(3)	5.58	(3)	0.12	1.52	(3)		52
35	.....	35	.....	.....	.....	.....	.....	4	.....	.....	.....	3	.....	.....		53
13,244	.....	13,244	.....	.....	.....	.....	.....	479	.....	.....	.....	377	.....	.....		54
10,411	.....	10,411	.....	.....	.....	.....	.....	474	.....	.....	.....	352	.....	.....		55
8,400	.....	8,400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		56
340	.....	340	.....	.....	.....	.....	.....	26	.....	.....	.....	31	.....	.....		57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued						
		Sacramento River—Continued						
		Upper Sacramento River—Continued					Middle Sacramento River	
		Redbank Creek group (47)	Antelope and Mill Creeks (48)		Thomas Creek (49)		Deer Creek (50)	Total
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	160	374		373		70	8,449
2	Area irrigated....1939...acres....	3,467	9,282		8,238		5,773	484,266
3	(a) Cropland harvested....1939...acres....	2,096	8,623		5,903		4,723	432,477
4	(b) Crop failure....1939...acres....	100	.....		83		.....	4,062
5	(c) Pasture....1939...acres....	1,271	659		2,252		1,050	47,727
6	Area irrigated....1929...acres....	.....	.....		.....		.....	.....
7	1919...acres....	.....	.....		.....		.....	.....
8	Increase or decrease (-), 1929-1939....percent....	.....	.....		.....		.....	.....
9	Irrigable area in enterprises....1940...acres....	9,215	12,918		12,987		8,220	1,142,387
10	1930...acres....	.....	.....		.....		.....	.....
11	1920[1]..acres....	.....	.....		.....		.....	.....
12	Excess of irrigable area over the area irrigated..1940...acres....	5,748	3,636		4,749		2,447	658,121
13	1930...acres....	.....	.....		.....		.....	.....
14	1920[1]..acres....	.....	.....		.....		.....	.....
15	Area works were capable of supplying with water...1940...acres....	9,215	12,918		12,921		8,220	902,733
16	1930...acres....	.....	.....		.....		.....	.....
17	1920...acres....	.....	.....		.....		.....	.....
18	Increase or decrease (-), 1930-1940....percent....	.....	.....		.....		.....	.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	5,748	3,636		4,683		2,447	418,467
20	1930...acres....	.....	.....		.....		.....	.....
21	1920...acres....	.....	.....		.....		.....	.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	37.6	71.9		63.8		70.2	53.6
23	1929...percent....	.....	.....		.....		.....	.....
24	1919...percent....	.....	.....		.....		.....	.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	567,715	248,139		389,676		85,900	29,450,495
26	(a) Cost of irrigation works and equipment....1940...dollars....	567,715	248,139		389,611		85,900	28,544,266
27	(b) Investment in water rights (reported)....1940...dollars....	.....	.....		65		.....	906,229
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....		.....		.....	.....
29	1920...dollars....	.....	.....		.....		.....	.....
30	Increase or decrease (-), 1930-1940....percent....	.....	.....		.....		.....	.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	61.61	19.21		30.16		10.45	32.62
32	1930...dollars....	.....	.....		.....		.....	.....
33	1920...dollars....	.....	.....		.....		.....	.....
34	Average investment per acre irrigated....1939...dollars....	163.75	26.73		47.30		14.88	60.81
35	Estimated final investment in existing enterprises..1940...dollars....	595,730	248,139		389,926		95,900	32,268,764
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	64.65	19.21		30.02		11.67	28.25
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	14	13	1	288	5	7	1,813 / 22
38	Area irrigated in these enterprises....1939...acres....	3,467	9,282	(2)	7,617	217	5,733	465,645 / 2,167
39	Cost of maintenance and operation....1939...dollars....	23,590	30,232	(2)	55,433	605	4,295	1,634,557 / 7,333
40	Average cost, per acre irrigated....1939...dollars....	6.80	3.26	(2)	7.28	2.79	0.75	3.51 / 3.35
41	Total annual charges (reported)[3] [4]....1939...dollars....	14,800	29,750	.....	7,247	.....	10,391	1,028,593 / .....
42	Average annual charge per acre irrigated....1939...dollars....	4.51	3.63	.....	5.08	.....	1.87	3.08 / .....
43	Area against which charges were assessed....1939...acres....	7,400	8,500	.....	4,452	.....	7,906	660,668 / .....
44	Average annual charge per acre assessed....1939...dollars....	2.00	3.50	.....	1.63	.....	1.31	1.56 / .....
45	Total charges collected[3]....1939...dollars....	11,282	30,794	.....	974	.....	9,280	866,315 / .....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	700,000	52,000	.....	1,400	.....	3,500	9,592,055 / .....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	12	10	1	295	5	6	1,935 / 21
48	Area irrigated by these enterprises....1939...acres....	3,366	987	(2)	7,414	217	333	459,445 / 2,237
49	Water delivered....1939...acre-feet..	5,978	2,080	(2)	21,033	132	705	1,842,716 / 5,700
50	Average water delivered per acre irrigated....1939...acre-feet..	1.8	2.1	(2)	2.8	0.6	2.1	4.0 / 2.5
51	Average cost of water per acre irrigated....1939...dollars....	4.68	1.47	(2)	7.76	2.79	5.15	3.55 / 3.32
52	Average cost of water per acre-foot delivered..1939...dollars....	2.63	0.70	(2)	2.73	4.58	2.43	0.89 / 1.30
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	.....	.....	.....	.....	.....	69 / .....
54	Irrigable area in these enterprises....1939...acres....	.....	.....	.....	.....	.....	.....	574,652 / .....
55	Irrigated area in these enterprises....1939...acres....	.....	.....	.....	.....	.....	.....	241,527 / .....
56	Area for which drains have been installed....1939...acres....	.....	.....	.....	.....	.....	.....	463,760 / .....
57	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	.....	.....	22,025 / .....

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

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

SACRAMENTO-SAN JOAQUIN DELTA—Continued																
Sacramento River—Continued																
Middle Sacramento River—Continued																
Direct (51)		Rock Creek (52)	Stony Creek (53)		Chico Creek (54)		Butte Creek (55)	West side streams (56)		Feather River						
										Total		Direct (57)				
1,899		92	746		140		818	91		4,863		2,629				1
245,884		4,193	17,468		8,271		12,546	4,657		191,247		134,681				2
239,160		2,837	16,849		6,036		8,971	3,519		154,105		109,802				3
419		.....	14		4		.....	.50		3,575		1,756				4
6,305		1,356	605		2,231		2,575	1,088		33,567		23,123				5
.....		.....	15,898		.....		.....	.....		173,350		.....				6
.....		.....	23,559		.....		.....	.....		162,314		.....				7
.....		.....	9.9		.....		.....	.....		10.3		.....				8
513,116		5,343	23,698		36,761		27,408	7,306		528,755		301.606				9
.....		.....	25,218		.....		.....	.....		540,530		.....				10
.....		.....	45,143		.....		.....	.....		255,830		.....				11
267,232		1,150	6,230		28,490		14,862	2,649		337,508		166,925				12
.....		.....	9,320		.....		.....	.....		367,180		.....				13
.....		.....	21,594		.....		.....	.....		93,516		.....				14
502,948		5,293	23,434		22,706		16,868	7,256		324,228		215,824				15
.....		.....	24,626		.....		.....	.....		294,446		.....				16
.....		.....	36,191		.....		.....	.....		190,955		.....				17
.....		.....	4.8		.....		.....	.....		10.1		.....				18
257,064		1,100	5,966		14,435		4,322	2,599		132,981		81,143				19
.....		.....	8,728		.....		.....	.....		121,096		.....				20
.....		.....	12,632		.....		.....	.....		28,641		.....				21
48.9		79.2	74.5		36.4		74.4	64.2		59.0		62.4				22
.....		.....	64.6		.....		.....	.....		58.9		.....				23
.....		.....	65.1		.....		.....	.....		85.0		.....				24
11,690,290		152,002	2,528,960		743,564		837,606	142,816		13,355,237		8,391,203				25
11,606,305		151,987	2,528,652		743,562		836,055	142,806		12,534,899		7,577,965				26
83,985		15	328		2		1,551	10		820,338		813,238				27
.....		.....	2,439,017		.....		.....	.....		15,668,631		.....				28
.....		.....	1,539,614		.....		.....	.....		6,456,150		.....				29
.....		.....	3.7		.....		.....	.....		-14.8		.....				30
23.24		28.72	107.92		32.75		49.66	19.68		41.19		36.66				31
.....		.....	99.04		.....		.....	.....		53.21		.....				32
.....		.....	42.54		.....		.....	.....		33.81		.....				33
47.54		36.25	144.78		89.90		66.76	30.67		69.63		52.30				34
11,844,714		152,002	2,534,761		745,064		838,406	145,696		16,008,121		10,910,187				35
23.08		28.45	106.96		20.27		30.59	19.94		30.28		36.17				36
Primary	Sup.		Primary	Sup.	Primary	Sup.		Primary	Sup.	Primary	Sup.	Primary	Sup.			
Enterprises			Enterprises		Enterprises			Enterprises		Enterprises		Enterprises				
342	3	44	59	2	132	1	74	68	1	1,094	15	910	4			37
240,625	979	3,026	17,268	(2)	7,854	(2)	12,433	4,393	(2)	180,046	594	124,062	150			38
762,341	2,087	9,160	38,028	(2)	31,052	(2)	50,901	24,753	(2)	718,322	3,571	523,066	178			39
3.17	2.13	3.03	2.20	(2)	3.95	(2)	4.09	5.63	(2)	3.99	6.01	4.22	1.19			40
431,139	.....	.....	36,318	.....	7,369	.....	23,438	1,686	.....	528,643	.....	335,510	.....			41
2.27	.....	.....	2.34	.....	1.97	.....	3.84	4.61	.....	4.50	.....	4.88	.....			42
225,594	.....	.....	19,955	.....	3,738	.....	13,006	366	.....	398,009	.....	103,956	.....			43
1.91	.....	.....	1.82	.....	1.97	.....	1.80	4.61	.....	1.33	.....	3.23	.....			44
378,071	.....	.....	60,614	.....	.....	.....	40,076	1,398	.....	386,156	.....	292,076	.....			45
4,281,715	.....	.....	1,696,594	.....	.....	.....	252,500	.....	.....	3,361,246	.....	1,404,323	.....			46
363	3	88	59	2	133	1	72	74	1	1,146	14	934	1			47
240,277	979	4,193	17,380	(2)	8,109	(2)	12,451	4,657	(2)	172,378	644	115,891	(2)			48
1,038,910	2,937	8,266	76,644	(2)	23,094	(2)	38,380	14,164	(2)	643,258	1,861	507,489	(2)			49
4.3	3.0	2.0	4.4	(2)	2.8	(2)	3.1	3.0	(2)	3.7	2.9	4.4	(2)			50
2.60	2.13	3.03	2.53	(2)	3.93	(2)	3.96	5.62	(2)	4.94	5.88	5.26	(2)			51
0.60	0.71	1.54	0.57	(2)	1.38	(2)	1.29	1.85	(2)	1.32	2.04	1.20	(2)			52
29	.....	.....	.....	.....	1	.....	2	8	.....	29	.....	27	.....			53
418,716	.....	.....	.....	.....	(2)	.....	(2)	668	.....	144,068	.....	143,264	.....			54
194,129	.....	.....	.....	.....	(2)	.....	(2)	448	.....	41,435	.....	40,956	.....			55
370,535	.....	.....	.....	.....	.....	.....	(2)	210	.....	88,715	.....	88,611	.....			56
1,748	.....	.....	.....	.....	(2)	.....	(2)	103	.....	18,064	.....	18,064	.....			57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued							
		Sacramento River—Continued							
		Middle Sacramento River—Continued				Lower Sacramento River			
		Feather River—Continued							
		Yuba and Upper Dear Rivers[2] (58)		Lower Bear River (59)		Total		Direct (60)	American River (61)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	1,926		108		4,274		521	2,575
2	Area irrigated....1939...acres....	50,015		6,551		134,816		38,572	38,047
3	(a) Cropland harvested....1939...acres....	38,145		6,158		126,124		36,805	34,570
4	(b) Crop failure....1939...acres....	1,811		8		1,003		407	207
5	(c) Pasture....1939...acres....	10,059		385		7,689		1,360	3,270
6	Area irrigated....1929...acres....	23,924		.....		.....		.....	27,378
7	1919...acres....	19,473		.....		.....		.....	47,156
8	Increase or decrease (-), 1929-1939....percent....	.....		.....		.....		.....	39.0
9	Irrigable area in enterprises[3]....1940...acres....	217,186		9,963		310,045		102,007	71,957
10	1930...acres....	194,279		.....		.....		.....	51,410
11	1920[3]..acres....	69,074		.....		.....		.....	82,695
12	Excess of irrigable area over the area irrigated..1940...acres....	167,171		3,412		175,229		63,435	33,910
13	1930...acres....	170,355		.....		.....		.....	24,032
14	1920[3]..acres....	49,601		.....		.....		.....	35,539
15	Area works were capable of supplying with water...1940...acres....	100,150		8,254		247,929		91,994	51,073
16	1930...acres....	42,465		.....		.....		.....	34,375
17	1920...acres....	23,492		.....		.....		.....	52,842
18	Increase or decrease (-), 1930-1940....percent....	.....		.....		.....		.....	48.6
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	50,135		1,703		113,113		53,422	13,026
20	1930...acres....	18,541		.....		.....		.....	6,997
21	1920...acres....	4,019		.....		.....		.....	5,686
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	49.9		79.4		54.4		41.9	74.5
23	1929...percent....	56.3		.....		.....		.....	79.6
24	1919...percent....	82.9		.....		.....		.....	89.2
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	4,564,499		399,535		9,835,078		3,252,627	3,328,095
26	(a) Cost of irrigation works and equipment....1940...dollars....	4,557,399		399,535		9,389,944		3,252,377	3,325,488
27	(b) Investment in water rights (reported)....1940...dollars....	7,100		.....		445,134		250	607
28	Total investment in irrigation enterprises....1930...dollars....	3,200,008		.....		.....		.....	3,437,456
29	1920...dollars....	2,518,770		.....		.....		.....	2,890,114
30	Increase or decrease (-), 1930-1940....percent....	.....		.....		.....		.....	-3.2
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	45.58		48.41		39.67		35.36	65.12
32	1930...dollars....	75.36		.....		.....		.....	100.00
33	1920...dollars....	107.22		.....		.....		.....	54.69
34	Average investment per acre irrigated....1939...dollars....	91.26		60.99		72.95		84.33	87.42
35	Estimated final investment in existing enterprises..1940...dollars....	4,691,976		405,958		9,855,484		3,256,128	3,334,124
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	21.60		40.75		31.79		31.92	46.33
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
37	Enterprises reporting maintenance and operation...1939...number....	100	11	84	.....	1,806	18	280	912
38	Area irrigated in these enterprises....1939...acres....	49,803	444	6,181	.....	130,751	978	37,051	36,374
39	Cost of maintenance and operation....1939...dollars....	159,727	3,393	35,509	.....	743,914	2,033	198,657	299,786
40	Average cost, per acre irrigated....1939...dollars....	3.21	7.64	5.74	.....	5.69	2.08	5.36	8.24
41	Total annual charges (reported)[5] [6]....1939...dollars....	174,253	.....	18,880	.....	177,192	.....	20,752	94,635
42	Average annual charge per acre irrigated....1939...dollars....	3.74	.....	8.44	.....	4.18	.....	2.85	5.97
43	Area against which charges were assessed....1939...acres....	289,969	.....	4,084	.....	90,162	.....	22,881	44,352
44	Average annual charge per acre assessed....1939...dollars....	0.60	.....	4.62	.....	1.97	.....	0.91	2.13
45	Total charges collected[5]....1939...dollars....	75,200	.....	18,880	.....	224,762	.....	51,395	115,024
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	1,798,453	.....	158,470	.....	1,746,504	.....	134,529	1,223,927
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	118	12	94	1	1,874	17	285	959
48	Area irrigated by these enterprises....1939...acres....	49,936	484	6,551	(4)	130,833	942	35,265	37,656
49	Water delivered....1939...acre-feet..	117,371	1,671	18,398	(4)	388,894	1,626	136,181	109,957
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4	3.5	2.8	(4)	3.0	1.7	3.9	2.9
51	Average cost of water per acre irrigated....1939...dollars....	3.79	7.64	8.64	.....	5.37	2.11	4.55	7.03
52	Average cost of water per acre-foot delivered..1939...dollars....	1.61	2.21	3.08	.....	1.81	1.22	1.18	2.41
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	.....	.....	2	.....	30	.....	11	8
54	Irrigable area in these enterprises....1939...acres....	.....	.....	(4)	.....	85,779	.....	71,734	1,014
55	Irrigated area in these enterprises....1939...acres....	.....	.....	(4)	.....	20,381	.....	18,540	564
56	Area for which drains have been installed....1939...acres....	.....	.....	(4)	.....	63,937	.....	50,314	978
57	Additional area needing drainage....1939...acres....	.....	.....	.....	.....	185	.....	.....	6

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

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

SACRAMENTO-SAN JOAQUIN DELTA—Continued																		
Sacramento River—Continued				San Joaquin River														
Lower Sacramento River—Continued												Kern River						
Cache Creek (62)		Putah Creek (63)		Total[1]		Direct (64)		Avenal and El Paso Creeks group (65)	Caliente Creek (66)			Total		Direct (67)			
895		283		46,067		3,572		14	225			2,430		2,004			1
44,235		13,962		2,251,216		265,390		6,682	17,213			257,073		206,427			2
41,590		13,159		2,062,728		245,895		6,522	16,945			218,170		168,341			3
377		12		4,585		39		.....	126			458		324			4
2,268		791		183,603		19,456		160	142			38,445		37,762			5
24,160		.....		2,358,824		471,789		.....	.....			196,861		.....			6
24,541		.....		2,050,264		642,261		.....	.....			200,641		.....			7
83.1		.....		-4.6		-43.7		.....	.....			30.6		.....			8
106,068		30,013		3,451,274		362,024		7,765	23,512			481,373		413,405			9
88,802		.....		3,688,275		638,596		.....	.....			446,298		.....			10
56,498		.....		4,108,377		1,083,862		.....	.....			432,481		.....			11
61,833		16,051		1,200,058		96,634		1,083	6,299			224,300		206,978			12
64,642		.....		1,329,451		165,807		.....	.....			249,437		.....			13
91,957		.....		2,058,613		441,001		.....	.....			231,840		.....			14
75,388		29,474		3,265,497		341,161		7,760	22,772			477,239		410,056			15
56,009		.....		3,474,938		623,486		.....	.....			437,885		.....			16
31,212		.....		3,153,881		873,300		.....	.....			299,665		.....			17
34.6		.....		-6.0		-45.3		.....	.....			9.0		.....			18
31,153		15,512		1,014,281		75,771		1,078	5,559			220,166		203,629			19
31,849		.....		1,116,114		151,697		.....	.....			241,024		.....			20
6,671		.....		1,103,617		231,099		.....	.....			99,024		.....			21
58.7		47.4		68.9		77.8		86.1	75.6			53.9		50.3			22
43.1		.....		67.9		75.7		.....	.....			45.0		.....			23
78.6		.....		65.0		73.5		.....	.....			67.0		.....			24
2,517,141		739,215		114,467,407		8,343,127		142,923	1,450,647			11,485,707		8,358,795			25
2,072,881		739,198		112,358,000		7,848,472		142,918	1,450,563			11,485,267		8,358,355			26
444,260		17		2,109,407		494,655		5	84			440		440			27
2,421,872		.....		111,112,108		12,006,191		.....	.....			9,518,734		.....			28
916,477		.....		69,046,622		9,224,164		.....	.....			17,573,637		.....			29
3.9		.....		3.0		-30.5		.....	.....			62.9		.....			30
33.39		25.08		35.05		24.46		18.42	63.70			24.07		20.38			31
43.24		.....		31.98		19.26		.....	.....			21.74		.....			32
29.36		.....		21.89		10.50		.....	.....			58.64		.....			33
56.90		52.94		50.85		31.44		21.39	84.28			44.68		40.49			34
2,525,457		739,775		117,694,777		8,361,296		145,423	1,494,147			11,818,468		8,630,520			35
23.81		24.65		34.10		23.10		18.73	63.55			24.55		20.88			36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.			
351	17	263	1	8,376	7,172	87	4	11	95	31	1,167	63	863	63			37
43,730	948	13,596	(4)	2,220,936	344,506	265,375	892	5,832	15,672	2,552	254,170	5,978	203,781	5,978			38
145,404	1,973	100,067	(4)	7,985,052	1,335,613	798,979	1,165	19,518	182,031	12,106	1,465,412	28,779	920,855	28,779			39
3.33	2.08	7.36	(4)	3.60	3.88	3.01	1.31	3.35	11.62	4.74	5.77	4.81	4.52	4.81			40
58,223	.....	3,582	.....	4,279,318	14,203	847,882	.....	.....	23,870	.....	564,403	.....	457,488	.....			41
3.08	.....	10.60	.....	2.74	0.59	3.53	.....	.....	13.21	.....	4.11	.....	3.72	.....			42
22,591	.....	338	.....	2,086,261	20,100	260,953	.....	.....	1,807	.....	150,188	.....	135,789	.....			43
2.58	.....	10.60	.....	2.05	0.71	3.25	.....	.....	13.21	.....	3.76	.....	3.37	.....			44
56,803	.....	1,540	.....	3,643,263	1,417	905,162	.....	.....	27,236	.....	133,601	.....	112,379	.....			45
366,000	.....	22,048	.....	40,574,954	.....	2,535,646	.....	.....	1,910	.....	2,331,138	.....	2,288,822	.....			46
360	16	269	1	8,258	7,229	82	4	14	101	31	1,174	65	867	64			47
44,070	912	13,842	(4)	2,163,415	337,277	252,621	892	6,682	17,082	2,304	255,763	7,674	205,231	6,474			48
94,464	1,604	48,292	(4)	5,375,672	649,370	672,699	1,117	8,098	65,804	6,752	767,256	16,710	595,615	16,110			49
2.1	1.8	3.5	(4)	2.5	1.9	2.7	1.3	1.2	3.9	2.9	3.0	2.3	2.9	2.5			50
3.98	2.11	7.54	(4)	4.18	4.08	3.51	1.31	3.35	11.65	5.11	6.18	4.82	5.07	4.82			51
1.86	1.20	2.16	(4)	1.68	2.12	1.32	1.04	2.76	3.02	1.74	2.06	2.21	1.75	1.94			52
9	.....	2	.....	74	.....	9	.....	.....	2	.....	6	.....	5	.....			53
1,231	.....	(4)	.....	987,064	.....	138,923	.....	.....	(4)	.....	49,800	.....	49,222	.....			54
839	.....	(4)	.....	734,526	.....	113,002	.....	.....	(4)	.....	36,874	.....	36,323	.....			55
845	.....	(4)	.....	491,014	.....	66,065	.....	.....	(4)	.....	49,171	.....	49,011	.....			56
179	.....	.....	.....	27,820	.....	2,700	.....	.....	.....	.....	200	.....	200	.....			57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued								
		San Joaquin River—Continued								
		Kern River—Con.								
		Poso Creek and White River (68)		Tule River and Deer Creek[1] (69)		Kaweah River (70)		Panoche and Los Gatos Creeks group (71)	Kings River[2] (72)	
	IRRIGATED FARMS AND AREAS									
1	Irrigated farms....1939...number....	426		1,886		3,217		75	18,972	
2	Area irrigated....1939...acres....	50,646		101,922		161,146		89,827	804,076	
3	(a) Cropland harvested....1939...acres....	49,829		93,734		150,784		88,876	744,677	
4	(b) Crop failure....1939...acres....	134		461		546		911	2,201	
5	(c) Pasture....1939...acres....	683		7,727		9,816		40	57,198	
6	Area irrigated....1929...acres....	33,620		95,237		222,363		.....	742,282	
7	1919...acres....	.....		61,223		149,932		.....	552,601	
8	Increase or decrease (-), 1929-1939....percent....	50.6		7.0		-27.5		.....	8.3	
9	Irrigable area in enterprises....1940...acres....	67,968		142,820		259,761		133,157	1,307,075	
10	1930...acres....	35,809		118,540		322,000		.....	1,278,720	
11	1920[3]..acres....	.....		175,777		356,703		.....	1,052,406	
12	Excess of irrigable area over the area irrigated..1940...acres....	17,322		40,898		98,615		43,330	502,999	
13	1930...acres....	2,189		23,303		99,637		.....	536,438	
14	1920[3]..acres....	.....		114,554		206,771		.....	499,805	
15	Area works were capable of supplying with water...1940...acres....	67,183		135,063		225,067		132,331	1,223,247	
16	1930...acres....	34,046		109,698		316,135		.....	1,161,442	
17	1920...acres....	.....		109,412		299,474		.....	895,263	
18	Increase or decrease (-), 1930-1940....percent....	97.3		23.1		-28.8		.....	5.3	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	16,537		33,141		63,921		42,504	419,171	
20	1930...acres....	426		14,461		93,772		.....	419,160	
21	1920...acres....	.....		48,189		149,542		.....	342,662	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	75.4		75.5		71.6		67.9	65.7	
23	1929...percent....	98.7		86.8		70.3		.....	63.9	
24	1919...percent....	.....		56.0		50.1		.....	61.7	
	CAPITAL INVESTED TO JANUARY 1									
25	Total investment in irrigation enterprises....1940...dollars....	3,126,912		6,289,529		9,534,690		2,910,008	27,490,233	
26	(a) Cost of irrigation works and equipment....1940...dollars....	3,126,912		6,282,423		9,469,967		2,910,008	26,564,681	
27	(b) Investment in water rights (reported)....1940...dollars....	.....		7,106		64,723		.....	925,552	
28	Total investment in irrigation enterprises....1930...dollars....	2,468,693		5,996,673		11,449,116		.....	24,300,665	
29	1920...dollars....	.....		2,842,495		6,186,840		.....	8,145,446	
30	Increase or decrease (-), 1930-1940....percent....	.....		4.9		-16.7		.....	13.1	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	46.54		46.57		42.36		21.99	22.47	
32	1930...dollars....	72.51		54.67		36.22		.....	20.92	
33	1920...dollars....	.....		25.98		20.66		.....	9.10	
34	Average investment per acre irrigated....1939...dollars....	61.74		61.71		59.17		32.40	34.19	
35	Estimated final investment in existing enterprises..1940...dollars....	3,187,948		6,310,287		9,659,945		2,943,729	27,509,046	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	46.90		44.18		37.19		22.11	21.12	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.
37	Enterprises reporting maintenance and operation...1939...number....	304	.....	1,034	120	1,763	387	52	2,575	6,375
38	Area irrigated in these enterprises....1939...acres....	50,389	.....	97,674	7,747	157,523	37,463	79,718	798,015	274,778
39	Cost of maintenance and operation....1939...dollars....	544,557	.....	842,232	53,405	1,180,448	200,836	648,523	1,149,528	948,738
40	Average cost, per acre irrigated....1939...dollars....	10.81	.....	8.62	6.89	7.49	5.36	8.14	1.44	3.45
41	Total annual charges (reported)[4 5]....1939...dollars....	106,915	.....	223,690	.....	384,722	12,320	.....	753,626	1,883
42	Average annual charge per acre irrigated....1939...dollars....	7.46	.....	8.16	.....	5.73	8.80	.....	1.16	0.08
43	Area against which charges were assessed....1939...acres....	14,399	.....	33,294	.....	118,265	15,400	.....	962,189	4,700
44	Average annual charge per acre assessed....1939...dollars....	7.43	.....	6.72	.....	3.25	0.80	.....	0.78	0.40
45	Total charges collected[4]....1939...dollars....	21,222	.....	145,824	.....	99,231	667	.....	796,429	750
46	Indebtedness to December 31 (reported)[5]....1939...dollars....	42,316	.....	439,410	.....	1,270,914	.....	.....	2,532,790	.....
	WATER DELIVERED TO IRRIGATORS, 1939									
47	Enterprises reporting water delivered....1939...number....	307	1	976	126	1,727	399	57	2,533	6,429
48	Area irrigated by these enterprises....1939...acres....	50,532	(6)	92,685	9,425	148,530	38,766	89,797	753,164	263,428
49	Water delivered....1939...acre-feet..	171,641	(6)	299,813	19,411	470,274	90,282	238,068	1,275,118	482,635
50	Average water delivered per acre irrigated....1939...acre-feet..	3.4	(6)	3.2	2.1	3.2	2.3	2.7	1.7	1.8
51	Average cost of water per acre irrigated....1939...dollars....	10.67	.....	10.06	6.89	7.82	5.68	8.14	1.85	3.69
52	Average cost of water per acre-foot delivered..1939...dollars....	3.14	.....	3.12	3.35	2.47	2.44	3.07	1.09	2.01
	DRAINAGE OF IRRIGATED LAND									
53	Enterprises reporting land drained or needing drainage....1939...number....	1	.....	6	.....	13	.....	.....	19	.....
54	Irrigable area in these enterprises....1939...acres....	(6)	.....	765	.....	1,395	.....	.....	271,115	.....
55	Irrigated area in these enterprises....1939...acres....	(6)	.....	607	.....	1,012	.....	.....	164,964	.....
56	Area for which drains have been installed....1939...acres....	(6)	.....	230	.....	580	.....	.....	6,611	.....
57	Additional area needing drainage....1939...acres....	.....	.....	40	.....	122	.....	.....	4,056	.....

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

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

SACRAMENTO-SAN JOAQUIN DELTA— Continued															
San Joaquin River—Continued															
Fresno River (73)		Merced River (74)		Orestimba and Los Banos Creeks group (75)		Tuolumne River (76)		Stanislaus River (77)		Calaveras River (78)		Mokelumne River (79)		Cosumnes River (80)	
1,224		2,539		38		7,915		3,960		943		1,614		253	1
85,401		125,698		8,918		230,686		97,184		28,463		82,200		6,944	2
80,571		110,239		8,699		224,173		73,443		25,843		73,192		5,247	3
86		5		37		4		11		69		60		27	4
4,744		15,454		182		6,509		23,730		2,551		8,948		1,670	5
17,640		140,131		.....		207,347		81,981		8,327		85,172		7,885	6
12,414		65,151		.....		165,533		75,359		13,323		36,848		3,259	7
384.1		-10.3		.....		11.3		18.5		241.8		-3.5		-11.9	8
144,967		177,221		11,967		257,773		141,859		38,347		96,667		28,742	9
21,209		197,436		.....		247,681		177,073		9,491		114,588		26,614	10
30,004		222,715		.....		298,418		155,453		21,598		155,480		9,011	11
59,566		51,523		3,049		27,087		44,675		9,884		14,467		21,798	12
3,569		57,305		.....		40,334		95,092		1,164		29,416		18,729	13
17,590		157,564		.....		132,885		80,094		8,275		118,632		5,752	14
144,667		167,094		11,967		257,731		119,398		38,025		95,142		8,372	15
20,072		195,641		.....		247,165		147,702		9,143		109,164		25,821	16
14,016		71,709		.....		250,425		111,192		16,489		72,144		6,405	17
620.7		-14.6		.....		4.3		-19.2		315.9		-12.8		-67.6	18
59,266		41,396		3,049		27,045		22,214		9,562		12,942		1,428	19
2,432		55,510		.....		39,818		65,721		816		23,992		17,936	20
1,602		6,558		.....		84,892		35,833		3,166		35,296		3,146	21
59.0		75.2		74.5		89.5		81.4		74.9		86.4		82.9	22
87.9		71.6		.....		83.9		55.5		91.1		78.0		30.5	23
88.6		90.9		.....		66.1		67.8		80.8		51.1		50.9	24
3,010,138		19,201,929		326,452		13,354,008		10,928,016		1,547,082		2,795,696		326,867	25
2,919,296		19,181,529		324,952		13,150,308		10,627,616		1,544,791		2,748,126		317,307	26
90,842		20,400		1,500		203,700		300,400		2,291		47,570		9,560	27
432,791		17,249,861		.....		13,984,091		10,280,554		463,580		3,709,181		592,683	28
415,385		3,812,235		.....		7,173,802		7,840,486		818,995		1,675,197		153,899	29
595.5		11.3		.....		-4.5		6.3		233.7		-24.6		-44.8	30
20.81		114.92		27.28		51.81		91.53		40.69		29.38		39.04	31
21.56		88.17		.....		56.58		69.60		50.70		33.98		22.95	32
29.64		53.16		.....		28.65		70.51		49.67		23.22		24.03	33
35.25		152.76		36.61		57.89		112.45		54.35		34.01		47.07	34
3,012,013		19,204,069		333,502		15,369,566		11,433,286		1,551,671		2,900,342		341,367	35
20.78		108.36		27.87		59.62		80.60		40.46		30.00		11.88	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		
1,001	98	299	43	35	14	134	15	123	22	900	6	1,261	13	197	37
85,063	5,148	125,352	1,332	8,918	2,930	230,460	1,572	97,164	4,114	28,215	415	77,719	462	5,821	38
507,389	33,340	357,515	10,910	60,719	30,930	496,876	4,734	275,862	10,670	197,302	1,952	297,428	1,410	33,868	39
5.96	6.48	2.85	8.19	6.81	10.56	2.16	3.01	2.84	2.59	6.99	4.70	3.83	3.05	5.82	40
34,285	.....	340,844	.....	162	.....	570,245	.....	535,589	.....	4,500	.....	27,219	.....	1,794	41
2.84	.....	3.10	.....	0.54	.....	2.55	.....	5.77	.....	6.62	.....	2.03	.....	1.71	42
15,517	.....	145,378	.....	300	.....	265,981	.....	132,389	.....	1,320	.....	14,759	.....	1,109	43
2.21	.....	2.34	.....	0.54	.....	2.14	.....	4.05	.....	3.41	.....	1.84	.....	1.62	44
23,546	.....	337,842	.....	180	.....	650,015	.....	524,197	.....	1,200	.....	24,247	.....	500	45
127,000	.....	16,191,000	.....	105	.....	7,288,291	.....	7,856,750	.....	15,000	.....	230,000	.....	.....	46
990	98	303	38	35	7	139	10	127	22	914	8	1,266	13	208	47
85,170	5,148	125,680	1,347	8,918	2,930	230,389	1,249	96,934	4,114	28,398	545	81,396	462	6,120	48
256,473	14,742	346,785	4,903	26,213	4,003	683,735	1,155	265,316	7,660	72,864	1,224	268,567	996	23,147	49
3.0	2.9	2.8	3.6	2.9	1.4	3.0	0.9	2.7	1.9	2.6	2.2	3.3	2.2	3.8	50
6.11	6.48	3.45	5.27	6.81	6.85	2.61	3.07	5.73	2.59	7.06	4.70	3.87	3.05	6.63	51
2.03	2.26	1.25	1.45	2.32	5.01	0.88	3.32	2.09	1.39	2.75	2.00	1.17	1.42	1.75	52
.....	.....	3	.....	2	.....	11	.....	3	.....	6	.....	21	.....	.....	53
.....	.....	151,620	.....	(6)	.....	246,723	.....	125,315	.....	859	.....	15,584	.....	.....	54
.....	.....	107,602	.....	(6)	.....	221,878	.....	87,225	.....	170	.....	14,200	.....	.....	55
.....	.....	85,136	.....	(6)	.....	210,246	.....	72,415	.....	757	.....	13,758	.....	.....	56
.....	.....	10,084	.....	(6)	.....	10,018	.....	500	.....	4	.....	87	.....	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	INDEPENDENT BASINS						
		Total*		Surprise Valley (82)	Madeline Plains (83)	Honey Lake (86)		Pyramid Lake Basin and Truckee River** (87)	Lahontan Lake Basin and Carson River** (88)
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms.....1939...number.....	3,576		170	9	227		7	27
2	Area irrigated.....1939...acres.....	219,909		31,996	3,672	39,414		1,675	8,105
3	(a) Cropland harvested.....1939...acres.....	146,145		25,852	2,407	25,818		106	1,715
4	(b) Crop failure.....1939...acres.....	1,524		50	.....	505		.....	10
5	(c) Pasture.....1939...acres.....	72,240		6,094	1,265	13,091		1,569	6,380
6	Area irrigated.....1929...acres.....	217,828		.....	.....	24,664		.....	1,925
7	1919...acres.....	340,679		.....	.....	44,327		.....	4,459
8	Increase or decrease (-), 1929-1939.....percent....	1.0		.....	.....	59.8		.....	321.0
9	Irrigable area in enterprises.....1940...acres.....	317,485		45,119	4,030	63,203		1,675	8,261
10	1930...acres.....	342,394		.....	.....	49,319		.....	2,595
11	1920[2]..acres.....	506,167		.....	.....	55,065		.....	7,027
12	Excess of irrigable area over the area irrigated..1940...acres.....	97,576		13,123	358	23,789		.....	156
13	1930...acres.....	124,566		.....	.....	24,655		.....	670
14	1920[2]..acres.....	265,488		.....	.....	10,738		.....	2,568
15	Area works were capable of supplying with water...1940...acres.....	281,228		44,707	4,030	55,463		1,675	8,260
16	1930...acres.....	283,661		.....	.....	49,069		.....	2,455
17	1920...acres.....	451,243		.....	.....	49,264		.....	4,819
18	Increase or decrease (-), 1930-1940.....percent....	-0.9		.....	.....	13.0		.....	236.5
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	61,319		12,711	358	16,049		.....	155
20	1930...acres.....	65,833		.....	.....	24,405		.....	530
21	1920...acres.....	110,564		.....	.....	4,937		.....	360
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	78.2		71.6	91.1	71.1		100.0	98.1
23	1929...percent....	76.8		.....	.....	50.3		.....	78.4
24	1919...percent....	75.5		.....	.....	90.0		.....	92.5
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises.....1940...dollars....	12,340,872		140,327	32,800	292,400		7,610	51,930
26	(a) Cost of irrigation works and equipment.....1940...dollars....	11,969,893		79,933	32,800	267,781		7,610	50,780
27	(b) Investment in water rights (reported).....1940...dollars....	370,979		60,394	.....	24,619		.....	1,150
28	Total investment in irrigation enterprises.....1930...dollars....	18,130,791		.....	.....	1,511,574		.....	2,250
29	1920...dollars....	18,750,413		.....	.....	414,068		.....	40,365
30	Increase or decrease (-), 1930-1940.....percent....	-31.9		.....	.....	-80.7		.....	(3)
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	43.88		3.14	8.14	5.27		4.54	6.29
32	1930...dollars....	63.92		.....	.....	30.81		.....	0.92
33	1920...dollars....	41.55		.....	.....	8.41		.....	8.38
34	Average investment per acre irrigated.....1939...dollars....	56.12		4.39	8.93	7.42		4.54	6.41
35	Estimated final investment in existing enterprises..1940...dollars....	13,073,905		140,347	32,800	297,915		7,610	51,930
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	41.18		3.11	8.14	4.71		4.54	6.29
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises			Primary Enterprises	Sup. Enterprises		
37	Enterprises reporting maintenance and operation...1939...number.....	1,546	14	160	4	130	3	2	15
38	Area irrigated in these enterprises.....1939...acres.....	200,667	6,555	29,625	3,362	34,950	194	(4)	5,105
39	Cost of maintenance and operation.....1939...dollars....	992,551	32,239	9,373	300	11,457	133	(4)	1,654
40	Average cost, per acre irrigated.....1939...dollars....	4.95	4.92	0.31	0.09	0.33	0.69	(4)	0.20
41	Total annual charges (reported)[5] [6].....1939...dollars....	220,724	24,120	1,096	.....	13,844	.....	.....	54
42	Average annual charge per acre irrigated.....1939...dollars....	4.38	4.29	0.51	.....	1.81	.....	.....	0.06
43	Area against which charges were assessed.....1939...acres.....	57,926	5,618	2,130	.....	8,435	.....	.....	953
44	Average annual charge per acre assessed.....1939...dollars....	3.81	4.29	0.51	.....	1.64	.....	.....	0.06
45	Total charges collected[5].....1939...dollars....	182,248	23,374	.....	.....	8,845	.....	.....	27
46	Indebtedness to December 31 (reported)[6].....1939...dollars....	1,101,704	12,728	.....	.....	47,000	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered.....1939...number.....	1,673	15	144	9	143	3	7	14
48	Area irrigated by these enterprises.....1939...acres.....	212,187	6,356	29,625	3,672	38,581	194	1,675	7,105
49	Water delivered.....1939...acre-feet..	594,727	8,584	35,796	3,475	67,032	347	6,283	25,540
50	Average water delivered per acre irrigated.....1939...acre-feet..	2.8	1.4	1.2	0.9	1.7	1.8	3.8	3.6
51	Average cost of water per acre irrigated.....1939...dollars....	5.23	4.69	0.32	0.09	0.62	0.69	0.50	0.20
52	Average cost of water per acre-foot delivered..1939...dollars....	1.87	3.47	0.26	0.09	0.36	0.38	0.13	0.08
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage.....1939...number.....	14	.....	.....	.....	3	.....	.....	.....
54	Irrigable area in these enterprises.....1939...acres.....	17,309	.....	.....	.....	695	.....	.....	.....
55	Irrigated area in these enterprises.....1939...acres.....	1,493	.....	.....	.....	465	.....	.....	.....
56	Area for which drains have been installed.....1939...acres.....	1,618	.....	.....	.....	660	.....	.....	.....
57	Additional area needing drainage.....1939...acres.....	10,691	.....	.....	.....	.....	.....	.....	.....

*Data for 2 enterprises in Cowhead and Warner Lakes Drainage Basin (81), 2 enterprises in Smoke Creek Drainage Basin (85), and 1 enterprise in Adobe Meadows Drainage Basin (82) (number refers to separate map) are included with Independent Basins total.

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

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

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

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

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

INDEPENDENT BASINS—Continued											COLORADO RIVER			
Walker Lake														
Total	West Walker River[5]	East Walker River[5]	Mono Lake	Owens River	Amargosa River and Dry Lakes[1]	Antelope Valley	Mojave River	San Jacinto River	Whitewater River	Total	Direct	Imperial Valley	
	(89)	(90)	(91)	(93)	(95)	(97)	(98)	(99)	(100)		(101)	(102)	
71	50	21	12	238	17	636	173	1,184	799	5,228	678	4,550	1
38,131	17,849	20,282	786	13,300	910	30,982	6,456	23,165	18,981	454,768	37,829	416,939	2
5,916	5,671	245	88	7,377	465	30,742	4,591	22,639	17,683	442,752	37,829	404,923	3
.....	.....	.....	.....	.....	20	172	69	233	445	4,000	.....	4,000	4
32,215	12,178	20,037	698	5,923	425	68	1,796	293	853	8,016	.....	8,016	5
16,012	.....	.....	11,500	28,806	.....	.....	6,118	33,953	.....	464,653	.....	.....	6
39,261	.....	.....	4,190	144,024	.....	.....	4,608	20,869	14,643	447,384	.....	.....	7
138.1	.....	.....	-93.2	-55.4	.....	.....	5.5	-31.8	.....	-2.1	.....	.....	8
38,416	17,849	20,567	965	19,607	1,436	44,908	12,853	29,804	43,472	636,857	110,040	526,817	9
16,012	.....	.....	15,500	12,046	.....	.....	35,995	54,368	.....	1,119,099	.....	.....	10
42,295	.....	.....	70,377	200,147	.....	.....	21,523	34,974	37,604	621,015	.....	.....	11
285	.....	285	179	6,307	526	13,926	6,397	6,639	24,491	182,089	72,211	109,878	12
.....	.....	.....	4,000	.....	.....	.....	29,877	20,415	.....	654,446	.....	.....	13
3,034	.....	.....	66,187	56,123	.....	.....	16,915	14,105	22,961	173,631	.....	.....	14
38,416	17,849	20,567	965	16,080	1,366	41,163	10,271	28,969	27,127	615,854	89,222	526,632	15
16,012	.....	.....	11,500	19,049	.....	.....	8,627	43,120	.....	604,600	.....	.....	16
40,355	.....	.....	45,760	182,748	.....	.....	6,510	22,263	22,282	494,975	.....	.....	17
139.9	.....	.....	-91.6	-15.6	.....	.....	19.1	-32.8	.....	1.9	.....	.....	18
285	.....	285	179	2,780	456	10,181	3,815	5,804	8,146	161,086	51,393	109,693	19
.....	.....	.....	.....	.....	.....	.....	2,509	9,167	.....	139,947	.....	.....	20
1,094	.....	.....	41,570	38,724	.....	.....	1,902	1,394	7,639	47,591	.....	.....	21
99.3	100.0	98.6	81.5	82.7	66.6	75.3	62.9	80.0	70.0	73.8	42.4	79.2	22
100.0	.....	.....	100.0	.....	.....	.....	70.9	78.7	.....	76.9	.....	.....	23
97.3	.....	.....	9.2	78.8	.....	.....	70.8	93.7	65.7	90.4	.....	.....	24
83,200	50,425	32,775	14,260	254,312	31,600	4,552,411	528,548	3,443,172	2,880,352	21,255,347	4,513,237	16,742,110	25
79,200	46,425	32,775	14,050	254,312	31,600	4,413,711	527,313	3,302,501	2,880,352	20,664,209	3,923,799	16,740,410	26
4,000	4,000	.....	210	.....	.....	138,700	1,235	140,671	.....	591,138	589,438	1,700	27
736,210	.....	.....	1,281,055	325,653	.....	.....	1,192,329	4,489,207	.....	20,410,341	.....	.....	28
37,575	.....	.....	5,363,858	5,785,132	.....	.....	616,769	2,139,257	2,242,944	14,833,041	.....	.....	29
-88.7	.....	.....	-98.9	-21.9	.....	.....	-55.7	-23.3	.....	4.1	.....	.....	30
2.17	2.83	1.59	14.78	15.82	23.13	110.59	51.46	118.86	106.18	34.51	50.58	31.79	31
45.98	.....	.....	111.40	17.10	.....	.....	138.21	104.11	.....	33.76	.....	.....	32
0.93	.....	.....	117.22	31.66	.....	.....	94.74	96.09	100.66	29.97	.....	.....	33
2.18	2.83	1.62	18.14	19.12	34.73	146.94	81.87	148.64	151.75	46.74	119.31	40.15	34
83,600	50,825	32,775	14,260	288,212	32,600	4,859,662	583,148	3,480,969	3,172,902	21,305,812	4,528,237	16,777,575	35
2.18	2.85	1.59	14.78	14.70	22.70	103.21	45.37	116.80	72.99	33.45	41.15	31.85	36
						Primary Enterprises	Sup.	Primary Enterprises	Sup.				
30	15	15	10	31	11	441	2	144	222	9	343	25	3	22	37
36,141	17,849	18,292	540	10,649	536	29,628	(4)	6,195	22,953	5,900	16,562	454,282	37,829	416,453	38
5,982	5,383	599	825	10,596	3,637	453,799	(4)	57,235	226,819	31,191	210,459	1,447,829	168,124	1,279,705	39
0.17	0.30	0.03	1.53	1.00	6.79	15.32	(4)	9.24	9.88	5.29	12.71	3.19	4.44	3.07	40
3,661	3,661	.....	.....	4,400	.....	29,832	765	524	131,595	23,355	35,718	1,808,291	122,291	1,686,000	41
0.25	0.25	.....	.....	0.75	.....	12.49	2.38	11.64	10.31	4.41	9.04	3.98	3.24	4.05	42
14,643	14,643	.....	.....	5,903	.....	5,454	322	329	15,227	5,296	4,852	606,314	44,314	562,000	43
0.25	0.25	.....	.....	0.75	.....	5.47	2.38	1.59	8.64	4.41	7.36	2.98	2.76	3.00	44
4,466	4,466	.....	.....	.....	.....	23,789	.....	524	119,102	23,374	25,495	1,779,588	89,588	1,690,000	45
1,253	1,253	.....	.....	.....	.....	336,018	357	.....	618,678	12,371	68,755	16,379,146	879,146	15,500,000	46
32	15	17	12	50	15	453	1	153	237	11	400	48	3	45	47
38,131	17,849	20,282	786	13,215	572	30,549	(4)	6,166	22,952	6,023	18,422	454,766	37,829	416,937	48
48,658	25,887	22,781	1,806	53,257	1,943	176,433	(4)	21,973	55,529	8,217	94,831	1,497,629	327,669	1,169,960	49
1.3	1.5	1.1	2.3	4.0	3.4	5.8	(4)	3.6	2.4	1.4	5.1	3.3	8.7	2.8	50
0.17	0.30	0.03	1.53	0.99	17.18	15.92	(4)	9.27	9.98	4.90	13.44	3.99	3.23	4.06	51
0.13	0.21	0.03	0.66	0.25	5.06	2.76	(4)	2.60	4.13	3.60	2.61	1.21	0.37	1.45	52
.....	.....	.....	.....	[7] 2	.....	.....	.....	4	2	.....	3	[7] 2	[7] 1	[7] 1	53
.....	.....	.....	.....	1,112	.....	.....	.....	500	(4)	.....	14,780	540,000	15,000	525,000	54
.....	.....	.....	.....	400	.....	.....	.....	55	(4)	.....	416	422,789	6,789	416,000	55
.....	.....	.....	.....	400	.....	.....	.....	208	.....	.....	350	208,000	8,000	200,000	56
.....	.....	.....	.....	555	.....	.....	.....	110	(4)	.....	10,000	315,000	.....	315,000	57

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

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DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	PACIFIC OCEAN STREAMS (North of San Francisco Bay)						
			Total[1]	Klamath River					
				Total	Direct (3)	Lost River (4)	Shasta River (5)	Scott River (6)	Trinity River (7)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	[2] 39,984	1,005	742	257	11	100	174	200
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	185	135	168	78	3,309	370	130	43
3	Diversion dams.....1940..total number.....	2,714	587	570	140	.....	89	186	155
4	1930..total number.....	1,654	431	405	.....	.....	.....	.....	.....
5	1920..total number.....	2,070	469	448	.....	.....	.....	.....	.....
6	(a) Concrete and masonry.....1940..number.....	527	25	19	4	.....	3	5	7
7	(b) Timber.....1940..number.....	477	109	109	51	.....	21	8	29
8	(c) Earth and rock.....1940..number.....	1,111	274	266	40	.....	56	91	79
9	(d) Other, mixed, and not reported..1940..number.....	599	179	176	45	.....	9	82	40
10	Main canals and laterals.....1940..total length, miles.....	19,799.1	1,096.9	1,081.5	269.1	126.5	200.2	263.1	222.6
11	1930..total length, miles.....	18,602	989	942	.....	.....	.....	.....	.....
12	1920..total length, miles.....	27,364	1,562	1,171	.....	.....	.....	.....	.....
13	(a) Earth.....1940..length, miles.....	18,217	1,067	1,053	262	125	195	262	209
14	(b) Lined.....1940..length, miles.....	1,582.1	29.9	28.5	7.1	1.5	5.2	1.1	13.6
15	1940..capacity, c.f.s.[3].....	91,776	2,758	2,572	583	88	574	628	699
16	1930..capacity, c.f.s.[3].....	84,944	2,910	2,851	.....	.....	.....	.....	.....
17	1920..capacity, c.f.s.[3].....	115,237	5,850	5,716	.....	.....	.....	.....	.....
18	Pipe lines[4].....1940..total length, miles.....	22,690.2	109.3	42.3	11.9	.....	4.7	15.4	10.3
19	1930..total length, miles.....	14,683.0	78.1	17.6	.....	.....	.....	.....	.....
20	1920..total length, miles.....	6,885.9	52.4	19.1	.....	.....	.....	.....	.....
21	(a) Concrete.....1940..length, miles.....	16,745.0	25.8	3.1	0.3	.....	0.3	.....	2.5
22	(b) Metal.....1940..length, miles.....	5,414.1	79.5	36.0	10.8	.....	2.1	15.4	7.7
23	(c) Wood-stave.....1940..length, miles.....	249.8	3.3	2.6	0.6	.....	1.9	.....	0.1
24	(d) Other.....1940..length, miles.....	281.3	0.7	0.6	0.2	.....	0.4	.....	.....
25	Storage dams.....1940..total number.....	709	30	25	6	1	10	5	3
26	1930..total number.....	421	26	10	.....	.....	.....	.....	.....
27	1920..total number.....	455	38	23	.....	.....	.....	.....	.....
28	(a) Concrete and masonry.....1940..number.....	126	4	2	1	.....	.....	.....	1
29	(b) Earth and rock.....1940..number.....	531	20	18	2	1	10	4	1
30	(c) Other, mixed, and not reported..1940..number.....	52	6	5	3	.....	.....	1	1
31	Reservoirs.....1940..total number.....	2,652	39	29	6	[5] 1	9	7	6
32	(a) 1-99 acre-feet capacity.....1940..number.....	2,436	37	27	6	.....	8	7	6
33	(b) 100-999 acre-feet capacity....1940..number.....	102	.....	.....	.....	.....	.....	.....	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	114	2	2	.....	1	1	.....	.....
35	1940..total capacity, ac.-ft.[6]..	3,581,621	510,379	510,189	20	440,000	70,085	79	5
36	1930..total number.....	1,769	29	23	.....	.....	.....	.....	.....
37	1930..total capacity, ac.-ft....	3,225,675	549,463	549,256	.....	.....	.....	.....	.....
38	Wells, flowing.....1940..number.....	436	3	3	3	.....	.....	.....	.....
39	1930..number.....	449	4	3	.....	.....	.....	.....	.....
40	1920..number.....	1,415	4	3	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	34,757	42	42	42	.....	.....	.....	.....
42	1930..yield, g.p.m.....	65,768	205	200	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	287,187	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	48,568	244	48	19	2	9	14	4
45	1930..number.....	46,737	221	14	.....	.....	.....	.....	.....
46	1920..number.....	25,401	107	14	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.....	28,297,969	136,495	27,469	21,200	(7)	2,706	1,818	1,140
48	1930..yield, g.p.m.....	24,266,167	112,534	21,442	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	10,608,476	35,194	4,375	.....	.....	.....	.....	.....
50	Pumping plants.....1940..total number.....	52,217	404	92	30	11	25	17	9
51	1930..total number.....	46,729	337	42	.....	.....	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	968,351	5,873	2,545	537	244	1,644	63	57
53	1930..capacity, hp.....	820,767	5,743	2,902	.....	.....	.....	.....	.....
54	1920..capacity, hp.....	386,200	3,858	2,695	.....	.....	.....	.....	.....
55	(a) Electric.....1940..number.....	43,952	198	47	15	10	18	3	1
56	1940..capacity, hp.....	804,298	3,943	2,244	417	243	1,543	21	(7)
57	(b) Internal-combustion.....1940..number.....	7,627	191	35	10	.....	6	12	7
58	1940..capacity, hp.....	160,734	1,839	252	76	.....	100	40	36
59	(c) Other.....1940..number.....	438	15	10	5	1	1	2	1
60	1940..capacity, hp.....	3,319	91	49	44	(7)	(7)	(7)	(7)
61	Pumps.....1940..total number.....	52,016	406	94	32	11	25	17	9
62	1930..number.....	47,994	364	50	.....	.....	.....	.....	.....
63	1920..number.....	24,134	190	47	.....	.....	.....	.....	.....
64	1940..capacity, g.p.m.....	39,147,470	374,811	182,480	41,645	55,143	77,791	4,043	3,867
65	1930..capacity, g.p.m.....	33,240,589	370,862	199,696	.....	.....	.....	.....	.....
66	1920..capacity, g.p.m.....	16,773,692	168,163	111,709	.....	.....	.....	.....	.....
67	(a) Centrifugal.....1940..number.....	18,728	331	62	19	6	22	10	5
68	1940..capacity, g.p.m.....	17,712,210	314,345	141,951	35,815	22,850	76,766	3,773	2,747
69	1940..average capacity, g.p.m..	946	950	2,290	1,885	3,808	3,489	377	549
70	(b) Turbine.....1940..number.....	29,997	42	7	5	.....	1	.....	1
71	1940..capacity, g.p.m.....	20,537,996	27,175	7,450	5,450	.....	(7)	.....	(7)
72	1940..average capacity, g.p.m..	685	647	1,064	1,090	.....	(7)	.....	(7)
73	(c) Plunger.....1940..number.....	2,983	25	18	6	1	2	6	3
74	1940..capacity, g.p.m.....	199,245	933	740	370	(7)	(7)	220	120
75	1940..average capacity, g.p.m..	67	37	41	62	(7)	(7)	37	40
76	(d) Other.....1940..number.....	308	8	7	2	4	.....	1	.....
77	1940..capacity, g.p.m.....	698,019	32,358	32,348	(7)	32,288	.....	(7)	.....
78	Pumping lift, from all sources.....1940..average, feet.....	55	31	34	46	26	43	19	23
79	1930..average, feet.....	53	27	38	.....	.....	.....	.....	.....
80	1920..average, feet.....	41	22	13	.....	.....	.....	.....	.....
81	from pumped wells.....1940..average, feet.....	57	34	37	71	(7)	27	19	24
82	from surface sources...1940..average, feet.....	31	28	31	28	8	49	14	22

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

WORKS, 1940, 1930, AND 1920

PACIFIC OCEAN STREAMS—Continued (North of San Francisco Bay)				SAN FRANCISCO BAY (Other than Sacramento-San Joaquin Delta and Sacramento and San Joaquin Rivers)										
									Suisun Bay					
Mad River	Eel River	Russian River	Other coastal streams	Total	Direct	Petaluma Creek	Sonoma Creek	Napa River	Total	Direct	Walnut Creek	Alameda Creek	Santa Clara Valley streams	
(8)	(9)	(10)	(11)		(12)	(13)	(14)	(15)		(16)	(17)	(18)	(19)	
9	34	214	5	2,725	111	5	12	169	224	149	75	505	1,699	1
24	42	43	13	60	16	14	34	23	118	153	49	56	60	2
1	.....	14	1	47	.....	.....	.....	3	6	3	3	.....	38	3
.....	.....	13	.....	24	.....	.....	.....	.....	.....	.....	.....	.....	15	4
.....	.....	9	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	14	5
.....	.....	5	1	25	.....	.....	.....	2	.....	.....	.....	.....	23	6
.....	.....	.....	.....	4	.....	.....	.....	.....	1	.....	1	.....	3	7
1	.....	6	.....	10	.....	.....	.....	.....	2	2	.....	.....	8	8
.....	.....	3	.....	8	.....	.....	.....	1	3	1	2	.....	4	9
6.0	3.1	4.2	1.1	80.5	1.1	.....	.....	1.1	31.7	30.0	1.7	15.4	31.2	10
.....	.....	38	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	22	11
.....	.....	372	.....	85	.....	.....	.....	.....	.....	.....	.....	.....	46	12
6	3	3	1	68	.....	.....	.....	1	30	30	.....	12	25	13
.....	0.1	1.2	0.1	12.5	1.1	.....	.....	0.1	1.7	.....	1.7	3.4	6.2	14
9	19	152	4	611	3	1	11	109	146	137	9	16	325	15
.....	.....	47	.....	317	.....	.....	.....	.....	.....	.....	.....	.....	160	16
.....	.....	23	.....	361	.....	.....	.....	.....	.....	.....	.....	.....	295	17
0.7	4.7	61.0	0.6	892.5	38.9	0.2	2.3	75.8	48.7	27.8	20.9	192.1	534.5	18
.....	.....	47.6	.....	422.5	.....	.....	.....	.....	.....	.....	.....	.....	219.9	19
.....	.....	27.2	.....	264.6	.....	.....	.....	.....	.....	.....	.....	.....	159.5	20
0.5	1.4	20.8	.....	574.6	5.9	.....	1.0	21.2	12.0	4.3	7.7	87.3	447.2	21
0.2	3.3	39.4	0.6	306.3	31.3	0.2	1.3	54.6	36.5	23.5	13.0	100.0	82.4	22
.....	.....	0.7	.....	8.4	1.7	.....	.....	.....	0.2	.....	0.2	3.4	3.1	23
.....	.....	0.1	.....	3.2	.....	.....	.....	.....	.....	.....	.....	1.4	1.8	24
2	.....	3	.....	21	1	1	1	9	4	3	1	2	3	25
.....	.....	10	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	10	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	2	.....	3	.....	.....	.....	2	1	.....	1	.....	.....	28
2	.....	.....	.....	14	1	.....	1	6	2	2	.....	2	2	29
.....	.....	1	.....	4	.....	1	.....	1	1	1	.....	.....	1	30
2	.....	7	1	63	10	1	2	9	12	4	8	20	9	31
2	.....	7	1	60	10	1	2	8	11	3	8	20	8	32
.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	.....	1	33
.....	.....	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	34
(7)	.....	136	(7)	2,446	22	(7)	(7)	376	1,457	1,438	19	30	548	35
.....	.....	6	.....	43	.....	.....	.....	.....	.....	.....	.....	.....	5	36
.....	.....	207	.....	8,217	.....	.....	.....	.....	.....	.....	.....	.....	12	37
.....	.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	5	39
.....	.....	1	.....	74	.....	.....	.....	.....	.....	.....	.....	.....	65	40
.....	.....	.....	.....	(7)	.....	.....	.....	(7)	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	1,085	.....	.....	.....	.....	.....	.....	.....	.....	966	42
.....	.....	.....	.....	13,075	.....	.....	.....	.....	.....	.....	.....	.....	11,150	43
1	19	173	3	3,103	132	5	8	128	284	178	106	649	1,897	44
.....	.....	188	.....	3,100	.....	.....	.....	.....	.....	.....	.....	.....	1,473	45
.....	.....	89	.....	2,451	.....	.....	.....	.....	.....	.....	.....	.....	1,546	46
(7)	12,740	94,953	433	1,204,661	12,863	515	2,570	41,157	62,015	42,931	19,084	236,080	849,461	47
.....	.....	79,472	.....	1,068,327	.....	.....	.....	.....	.....	.....	.....	.....	676,015	48
.....	.....	30,234	.....	705,510	.....	.....	.....	.....	.....	.....	.....	.....	489,395	49
3	27	276	6	3,325	142	5	20	192	300	188	112	664	2,002	50
.....	.....	249	.....	3,114	.....	.....	.....	.....	.....	.....	.....	.....	1,470	51
35	307	2,957	29	67,134	1,073	28	273	1,495	2,811	1,488	1,323	8,887	52,567	52
.....	.....	2,193	.....	61,205	.....	.....	.....	.....	.....	.....	.....	.....	36,296	53
.....	.....	1,058	.....	36,219	.....	.....	.....	.....	.....	.....	.....	.....	25,887	54
1	18	132	.....	2,944	133	5	16	137	264	156	108	593	1,796	55
(7)	200	1,484	.....	59,573	973	28	217	1,119	2,573	1,332	1,241	7,759	46,904	56
2	9	140	5	340	7	.....	4	49	16	12	4	64	200	57
(7)	107	1,433	27	7,394	98	.....	56	367	198	116	82	1,112	5,563	58
.....	.....	4	[5] 1	41	2	.....	.....	6	20	20	.....	7	6	59
.....	.....	40	2	167	(7)	.....	.....	9	40	40	.....	16	100	60
3	27	276	6	3,311	143	5	20	191	302	189	113	665	1,985	61
.....	.....	267	.....	3,193	.....	.....	.....	.....	.....	.....	.....	.....	1,478	62
.....	.....	128	.....	2,102	.....	.....	.....	.....	.....	.....	.....	.....	1,297	63
2,600	16,035	172,154	1,533	1,359,663	13,891	515	6,465	63,749	105,245	81,741	23,504	247,771	922,027	64
.....	.....	144,027	.....	1,212,798	.....	.....	.....	.....	.....	.....	.....	.....	719,616	65
.....	.....	51,239	.....	862,987	.....	.....	.....	.....	.....	.....	.....	.....	590,541	66
3	21	240	5	443	27	.....	10	104	51	41	10	69	182	67
2,600	12,850	155,414	1,530	209,141	2,827	.....	4,330	45,241	19,905	14,405	5,500	29,442	107,396	68
867	612	648	306	472	105	.....	433	435	390	351	550	427	590	69
.....	5	30	.....	2,641	66	.....	7	38	212	121	91	554	1,764	70
.....	3,175	16,550	.....	1,131,406	9,060	.....	1,750	15,598	83,914	66,657	17,257	213,468	807,616	71
.....	635	552	.....	428	137	.....	250	410	396	551	190	385	458	72
.....	.....	6	[5] 1	194	45	4	3	48	35	23	12	31	28	73
.....	.....	190	3	11,280	1,729	495	385	2,850	1,946	599	747	1,160	3,315	74
.....	.....	32	3	58	38	124	128	59	38	26	62	37	118	75
.....	1	.....	.....	33	5	1	.....	1	4	4	.....	11	11	76
.....	(7)	.....	.....	7,836	275	(7)	.....	(7)	80	80	.....	3,701	3,700	77
17	38	29	58	96	92	108	37	37	66	54	88	56	118	78
.....	.....	27	.....	102	.....	.....	.....	.....	.....	.....	.....	.....	104	79
.....	.....	23	.....	55	.....	.....	.....	.....	.....	.....	.....	.....	57	80
(7)	35	32	.....	100	94	108	37	46	69	56	91	56	121	81
16	43	25	58	46	45	.....	38	27	34	25	51	42	70	82

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	PACIFIC OCEAN STREAMS (South of San Francisco Bay)							
		Total	Pajaro and San Benito Rivers (20)	Salinas River (21)	Santa Maria River (22)	San Antonio River (23)	Santa Ynez River (24)	Ventura River (25)	Santa Clara River and Calleguas Creek[1] (26)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	9,038	1,169	893	200	12	148	83	563
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	121	71	125	146	63	100	56	197
3	Diversion dams.....1940..total number.....	275	39	10	3	.....	4	7	16
4	1930..total number.....	165	26	8	.....	.....	11	.....	18
5	1920..total number.....	197	29	7	1	.....	9	.....	15
6	(a) Concrete and masonry.....1940..number.....	82	6	3	1	.....	2	1	4
7	(b) Timber.....1940..number.....	18	1	.....	.....	.....	.....	.....	.....
8	(c) Earth and rock.....1940..number.....	143	30	4	2	.....	.....	4	12
9	(d) Other, mixed, and not reported..1940..number.....	32	2	3	.....	.....	2	2	.....
10	Main canals and laterals.....1940..total length, miles.....	562.0	59.2	35.9	2.5	0.5	3.5	1.6	46.1
11	1930..total length, miles.....	1,095	27	209	15	.....	9	.....	40
12	1920..total length, miles.....	1,347	95	215	16	.....	14	.....	79
13	(a) Earth.....1940..length, miles.....	209	48	29	2	.....	3	1	11
14	(b) Lined.....1940..length, miles.....	353.0	11.2	6.9	0.5	0.5	0.5	0.6	35.1
15	1940..capacity, c.f.s.[4].....	3,744	131	129	13	.....	18	24	166
16	1930..capacity, c.f.s.[4].....	2,994	29	771	12	.....	21	.....	101
17	1920..capacity, c.f.s.[4].....	9,418	278	553	69	.....	227	.....	191
18	Pipe lines[5].....1940..total length, miles.....	12,512.9	332.4	775.6	178.4	7.3	92.8	102.1	1,365.1
19	1930..total length, miles.....	8,253.8	151.5	361.9	112.9	.....	109.8	.....	496.7
20	1920..total length, miles.....	4,041.4	83.2	169.6	28.9	.....	28.7	.....	154.0
21	(a) Concrete.....1940..length, miles.....	8,211.7	194.6	678.4	168.3	5.6	60.7	40.4	1,139.4
22	(b) Metal.....1940..length, miles.....	3,985.4	117.4	93.4	10.1	1.7	25.1	61.7	218.6
23	(c) Wood-stave.....1940..length, miles.....	106.7	6.7	1.2	.....	.....	7.0	.....	3.9
24	(d) Other.....1940..length, miles.....	209.1	13.7	2.6	.....	.....	.....	.....	4.2
25	Storage dams.....1940..total number.....	234	10	5	5	.....	8	4	8
26	1930..total number.....	122	13	2	2	.....	13	.....	1
27	1920..total number.....	82	9	4	1	.....	8	.....	3
28	(a) Concrete and masonry.....1940..number.....	65	2	.....	.....	.....	.....	2	5
29	(b) Earth and rock.....1940..number.....	157	7	4	5	.....	7	2	3
30	(c) Other, mixed, and not reported..1940..number.....	12	1	1	.....	.....	1	.....	.....
31	Reservoirs.....1940..total number.....	937	24	38	11	4	13	19	55
32	(a) 1-99 acre-feet capacity.....1940..number.....	886	21	37	11	4	13	19	54
33	(b) 100-999 acre-feet capacity....1940..number.....	32	2	1	.....	.....	.....	.....	1
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	19	1	.....	.....	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[6]..	363,427	4,338	258	42	9	19	102	359
36	1930..total number.....	519	23	33	3	.....	18	.....	18
37	1930..total capacity, ac.-ft....	248,685	736	128	13	.....	257	.....	86
38	Wells, flowing.....1940..number.....	167	2	16	.....	.....	.....	.....	4
39	1930..number.....	145	18	20	1	.....	6	.....	1
40	1920..number.....	713	17	18	13	.....	7	.....	1
41	1940..yield, g.p.m.....	17,405	(7)	1,760	.....	.....	.....	.....	490
42	1930..yield, g.p.m.....	21,835	4,200	4,010	744	.....	1,550	.....	50
43	1920..yield, g.p.m.....	164,294	3,000	3,808	2,700	.....	1,510	.....	700
44	Wells, pumped.....1940..number.....	10,957	1,347	1,306	239	13	191	93	799
45	1930..number.....	9,649	1,189	1,145	210	.....	212	.....	550
46	1920..number.....	7,068	688	697	118	.....	60	.....	136
47	1940..yield, g.p.m.....	6,030,433	693,680	1,316,770	236,151	5,412	134,677	17,122	617,062
48	1930..yield, g.p.m.....	5,317,827	556,306	955,015	249,285	.....	120,725	.....	451,019
49	1920..yield, g.p.m.....	3,064,724	186,255	422,195	66,393	.....	16,401	.....	92,049
50	Pumping plants.....1940..total number.....	11,652	1,396	1,238	243	13	199	101	929
51	1930..total number.....	8,866	1,129	767	189	.....	158	.....	515
52	Prime movers.....1940..capacity, hp.....	302,257	26,861	39,030	7,824	237	3,993	1,484	31,089
53	1930..capacity, hp.....	244,459	19,884	24,246	7,359	.....	3,511	.....	19,109
54	1920..capacity, hp.....	128,331	7,083	10,085	2,934	.....	1,611	.....	5,126
55	(a) Electric.....1940..number.....	9,380	1,075	1,131	229	13	163	97	857
56	1940..capacity, hp.....	239,729	21,147	36,692	7,339	237	3,302	1,424	29,267
57	(b) Internal-combustion.....1940..number.....	2,066	317	77	14	.....	33	4	66
58	1940..capacity, hp.....	61,031	5,682	2,285	485	.....	630	60	1,789
59	(c) Other.....1940..number.....	206	4	30	.....	.....	3	.....	6
60	1940..capacity, hp.....	1,497	32	53	.....	.....	61	.....	33
61	Pumps.....1940..total number.....	11,590	1,391	1,214	243	13	198	100	915
62	1930..number.....	9,357	1,157	785	194	.....	164	.....	584
63	1920..number.....	6,071	417	286	78	.....	84	.....	161
64	1940..capacity, g.p.m.....	6,653,967	742,285	1,340,956	261,174	5,907	141,887	19,597	711,438
65	1930..capacity, g.p.m.....	5,623,408	594,032	974,404	252,409	.....	137,660	.....	455,338
66	1920..capacity, g.p.m.....	3,694,090	203,845	424,002	204,534	.....	199,630	.....	102,184
67	(a) Centrifugal.....1940..number.....	2,447	206	249	21	.....	54	20	188
68	1940..capacity, g.p.m.....	1,419,837	114,860	287,125	17,448	.....	34,141	4,497	139,475
69	1940..average capacity, g.p.m..	580	558	1,153	831	.....	632	225	742
70	(b) Turbine.....1940..number.....	7,624	1,171	923	221	13	138	59	702
71	1940..capacity, g.p.m.....	5,135,286	623,967	1,049,918	243,711	5,907	105,856	13,925	566,921
72	1940..average capacity, g.p.m..	674	533	1,138	1,103	454	767	236	808
73	(c) Plunger.....1940..number.....	1,406	13	37	1	.....	5	20	20
74	1940..capacity, g.p.m.....	76,345	2,958	2,659	(7)	.....	1,790	1,160	3,056
75	1940..average capacity, g.p.m..	54	228	72	(7)	.....	358	58	153
76	(d) Other.....1940..number.....	113	1	5	.....	.....	1	1	5
77	1940..capacity, g.p.m.....	22,499	(7)	1,254	.....	.....	(7)	(7)	1,986
78	Pumping lift, from all sources.....1940..average, feet.....	77	66	60	73	93	53	121	89
79	1930..average, feet.....	71	64	47	75	.....	39	.....	78
80	1920..average, feet.....	57	35	25	47	.....	30	.....	67
81	from pumped wells.....1940..average, feet.....	79	68	61	73	93	55	127	89
82	from surface sources...1940..average, feet.....	55	34	23	14	.....	32	81	85

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

WORKS, 1940, 1930, AND 1920—Continued

PACIFIC OCEAN STREAMS—Continued (South of San Francisco Bay)										SACRAMENTO-SAN JOAQUIN DELTA					
												Sacramento River			
													Upper Sacramento River		
Los Angeles and San Gabriel Rivers	Santa Ana River	Santa Margarita River	San Luis Rey River	San Dieguito River	San Diego River	Sweet-water River	Otay and Tia Juana Rivers	Other coastal streams (north)[2]	Other coastal streams (south)[3]	Total	Direct	Total	Total[1]	Direct	
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)		(37)			(38)	
1,207	2,031	183	390	275	491	60	227	672	414	25,316	818	5,253	1,175	201	1
209	169	35	80	89	37	90	24	35	59	202	408	260	185	188	2
23	31	11	14	7	4	2	4	91	9	1,373	3	1,105	719	13	3
14	22	.....	.....	.....	3	.....	.....	.....	.....	781	.....	599	.....	.....	4
29	39	.....	.....	.....	4	.....	.....	.....	.....	1,128	.....	859	.....	.....	5
9	12	2	8	3	2	2	3	19	5	330	1	195	103	3	6
1	1	.....	.....	1	1	.....	.....	13	.....	271	.....	241	178	1	7
12	17	5	3	3	1	.....	1	45	4	450	2	360	241	7	8
1	1	4	3	.....	.....	.....	.....	14	.....	322	.....	309	197	2	9
77.5	222.9	8.4	17.3	18.1	4.2	0.7	.....	56.9	6.7	15,120.1	476.8	4,795.1	1,303.3	294.8	10
418	238	.....	.....	.....	36	.....	.....	.....	.....	13,314	.....	4,817	.....	.....	11
295	336	.....	.....	.....	4	.....	.....	.....	.....	19,428	.....	6,539	.....	.....	12
13	49	7	4	3	4	.....	.....	33	2	14,065	417	4,543	1,279	291	13
64.5	173.9	1.4	13.3	15.1	0.2	0.7	.....	23.9	4.7	1,055.1	59.8	252.1	24.3	3.8	14
1,236	1,206	70	115	134	59	7	24	350	62	71,974	6,246	24,039	4,870	579	15
792	826	.....	.....	.....	27	.....	.....	.....	.....	64,374	.....	19,097	.....	.....	16
4,206	2,096	.....	.....	.....	.....	.....	.....	.....	.....	79,142	.....	23,514	.....	.....	17
2,376.6	4,471.6	110.6	753.8	464.1	458.9	135.2	74.0	300.2	514.2	7,436.9	192.9	1,074.9	214.3	51.4	18
2,166.4	2,814.1	.....	.....	.....	312.5	.....	.....	.....	.....	4,819.4	.....	796.1	.....	.....	19
1,361.1	924.5	.....	.....	.....	145.2	.....	.....	.....	.....	1,757.8	.....	361.2	.....	.....	20
1,641.2	3,541.3	62.3	143.9	151.6	89.7	13.5	20.6	68.6	192.6	6,487.8	146.6	635.4	124.8	14.1	21
676.7	764.7	47.9	604.0	300.3	364.4	119.4	51.5	217.8	310.7	766.4	39.0	320.4	48.8	23.9	22
43.4	9.2	.....	5.7	10.1	3.5	1.5	0.3	10.7	3.5	131.0	4.9	81.6	10.2	2.5	23
15.3	156.4	0.4	0.2	2.1	1.3	0.8	1.6	3.1	7.4	51.7	2.4	37.5	30.5	10.9	24
21	56	20	9	4	4	6	3	55	16	355	1	163	90	5	25
11	17	.....	.....	.....	2	.....	.....	.....	.....	218	.....	140	.....	.....	26
4	12	.....	.....	.....	2	.....	.....	.....	.....	285	.....	200	.....	.....	27
13	13	1	1	3	2	6	.....	12	6	47	.....	30	3	1	28
8	40	19	8	2	2	.....	2	39	9	294	1	124	83	2	29
.....	3	.....	.....	.....	.....	.....	1	4	1	24	.....	9	4	2	30
220	180	27	50	17	43	10	15	146	65	1,305	2	196	98	6	31
218	161	26	48	16	39	10	15	140	54	1,186	2	103	48	6	32
.....	10	.....	1	.....	.....	.....	.....	6	11	42	.....	34	24	.....	33
2	9	1	1	1	4	.....	.....	.....	.....	77	.....	59	26	.....	34
12,098	117,046	1,328	203,304	7,367	6,560	50	24	2,618	7,905	2,611,430	(7)	1,554,168	179,187	61	35
117	132	.....	.....	.....	19	.....	.....	.....	.....	949	.....	176	.....	.....	36
110,843	79,082	.....	.....	.....	18,039	.....	.....	.....	.....	2,100,255	.....	949,274	.....	.....	37
9	127	4	4	.....	.....	.....	.....	1	.....	43	.....	29	19	1	38
1	90	.....	.....	.....	.....	.....	.....	.....	.....	72	.....	39	.....	.....	39
205	360	.....	.....	.....	1	.....	.....	.....	.....	181	.....	36	.....	.....	40
3,602	10,248	540	115	.....	.....	.....	.....	(7)	.....	3,368	.....	1,543	793	(7)	41
45	10,542	.....	.....	.....	.....	.....	.....	.....	.....	14,400	.....	3,630	.....	.....	42
53,326	62,593	.....	.....	.....	8	.....	.....	.....	.....	51,785	.....	2,957	.....	.....	43
1,522	2,445	159	479	332	625	82	255	566	504	32,415	349	5,406	620	131	44
1,260	2,379	.....	.....	.....	453	.....	.....	.....	.....	31,744	.....	5,450	.....	.....	45
1,883	1,816	.....	.....	.....	533	.....	.....	.....	.....	14,657	.....	3,508	.....	.....	46
824,775	1,650,930	30,725	84,032	40,806	61,238	13,738	47,169	125,523	100,623	20,042,058	231,857	3,606,042	244,627	60,099	47
795,993	1,526,546	.....	.....	.....	83,812	.....	.....	.....	.....	16,730,369	.....	2,932,411	.....	.....	48
1,000,970	1,002,743	.....	.....	.....	54,216	.....	.....	.....	.....	6,384,882	.....	1,473,602	.....	.....	49
1,650	2,572	170	487	346	616	84	255	795	558	34,878	1,154	6,083	742	159	50
1,245	2,290	.....	.....	.....	311	.....	.....	.....	.....	32,490	.....	6,147	.....	.....	51
56,122	106,706	1,234	4,155	2,423	4,040	687	1,581	7,808	6,983	552,187	23,056	106,360	6,717	1,590	52
46,570	89,251	.....	.....	.....	2,634	.....	.....	.....	.....	468,661	.....	104,346	.....	.....	53
41,883	45,345	.....	.....	.....	2,313	.....	.....	.....	.....	201,074	.....	64,163	.....	.....	54
1,277	2,032	80	315	276	498	55	137	639	506	30,011	898	5,050	563	110	55
36,079	81,128	830	2,668	2,100	3,486	489	1,196	6,104	6,241	473,862	19,538	91,003	4,478	1,037	56
360	529	68	148	63	93	26	66	151	51	4,779	254	1,010	166	47	57
19,271	25,240	374	1,456	315	514	190	328	1,673	739	77,576	3,497	15,152	2,188	551	58
13	11	22	24	7	25	3	52	5	1	88	2	23	13	2	59
772	338	30	31	8	40	8	57	31	(7)	749	(7)	205	51	(7)	60
1,662	2,586	169	477	340	612	82	246	797	545	34,827	1,161	6,097	748	160	61
1,301	2,467	.....	.....	.....	324	.....	.....	.....	.....	33,129	.....	6,289	.....	.....	62
1,776	1,836	.....	.....	.....	374	.....	.....	.....	.....	14,849	.....	3,898	.....	.....	63
948,717	1,866,098	37,259	87,485	53,227	82,276	14,146	47,770	183,826	109,919	29,894,351	2,604,039	8,580,013	394,389	84,775	64
830,498	1,609,257	.....	.....	.....	73,430	.....	.....	.....	.....	23,856,244	.....	8,309,204	.....	.....	65
1,038,085	1,048,090	.....	.....	.....	65,462	.....	.....	.....	.....	11,584,371	.....	4,184,240	.....	.....	66
308	428	22	118	115	164	28	109	354	63	15,186	900	3,276	432	99	67
212,591	342,174	11,511	24,516	27,529	49,346	5,889	25,512	104,141	19,080	15,552,658	2,091,141	5,724,025	217,111	43,266	68
690	799	523	208	239	301	210	234	294	303	1,024	2,323	1,747	503	437	69
1,276	2,053	25	149	90	97	34	35	270	368	18,312	233	2,703	274	54	70
720,072	1,499,516	22,930	55,497	20,187	22,754	7,720	19,448	72,870	84,087	13,494,822	464,710	2,403,618	171,969	41,285	71
564	730	917	372	224	235	227	556	270	228	737	1,994	889	628	764	72
47	97	118	191	132	336	20	101	164	104	1,187	11	69	27	7	73
10,675	16,313	2,735	6,121	5,452	9,688	537	2,805	5,894	4,487	97,687	327	5,019	746	244	74
227	168	23	32	41	29	27	28	36	43	82	30	73	28	35	75
31	8	4	19	3	15	.....	1	9	10	142	17	49	15	.....	76
5,379	8,095	83	1,349	59	488	.....	(7)	921	2,265	549,184	47,861	447,351	4,563	.....	77
86	90	59	66	54	73	65	41	66	116	42	18	36	32	33	78
77	82	.....	.....	.....	62	.....	.....	.....	.....	42	.....	30	.....	.....	79
63	61	.....	.....	.....	56	.....	.....	.....	.....	31	.....	26	.....	.....	80
86	90	59	67	53	74	67	41	79	116	43	31	38	34	36	81
104	96	67	55	73	47	52	28	43	131	20	11	23	19	20	82

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

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

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

WORKS, 1940, 1930, AND 1920—Continued

SACRAMENTO-SAN JOAQUIN DELTA—Continued														
Sacramento River—Continued														
Upper Sacramento River—Continued						Middle Sacramento River								
Battle Creek (45)	Paynes Creek (46)	Redbank Creek group (47)	Antelope and Mill Creeks (48)	Thomas Creek (49)	Deer Creek (50)	Total	Direct (51)	Rock Creek (52)	Stony Creek (53)	Chico Creek (54)	Butte Creek (55)	West side streams (56)	Feather River Total	
45	7	18	14	320	8	2,125	385	88	66	158	92	78	1,258	1
138	104	512	923	40	1,028	425	1,306	60	355	144	183	93	258	2
41	7	2	13	9	5	357	9	7	22	8	14	.....	297	3
48	.....	.....	.....	.....	.....	.....	.....	.....	26	.....	.....	.....	161	4
26	.....	.....	.....	.....	.....	.....	.....	.....	44	.....	.....	.....	262	5
7	6	1	6	1	3	80	2	.....	8	3	4	.....	63	6
10	1	.....	.....	.....	.....	57	4	.....	.....	.....	.....	.....	53	7
19	.....	1	2	7	.....	113	3	.....	12	.....	8	.....	90	8
5	.....	.....	5	1	2	107	.....	7	2	5	2	.....	91	9
40.4	9.3	6.0	145.1	47.2	23.3	2,728.1	1,086.9	9.0	186.4	32.0	90.3	5.1	1,318.4	10
85	.....	.....	.....	.....	.....	.....	.....	.....	177	.....	.....	.....	1,696	11
118	.....	.....	.....	.....	.....	.....	.....	.....	211	.....	.....	.....	1,162	12
40	9	6	141	45	20	2,544	1,080	9	81	32	83	5	1,254	13
0.4	0.3	.....	4.1	2.2	3.3	184.1	6.9	.....	105.4	.....	7.3	0.1	64.4	14
210	9	13	248	216	275	14,953	7,572	55	389	396	230	45	6,266	15
172	.....	.....	.....	.....	.....	.....	.....	.....	607	.....	.....	.....	5,636	16
358	.....	.....	.....	.....	.....	.....	.....	.....	1,590	.....	.....	.....	5,634	17
0.9	1.0	71.9	7.2	49.8	3.5	531.9	78.1	5.9	3.9	4.5	49.0	2.4	388.1	18
1.0	.....	.....	.....	.....	.....	.....	.....	.....	4.1	.....	.....	.....	304.2	19
0.3	.....	.....	.....	.....	.....	.....	.....	.....	17.5	.....	.....	.....	123.5	20
0.9	.....	71.5	7.2	25.6	3.5	355.9	69.2	5.7	3.7	3.8	5.8	2.4	265.3	21
.....	1.0	0.4	.....	4.8	.....	128.5	6.8	0.2	0.2	0.7	6.2	.....	114.4	22
.....	.....	.....	.....	0.1	.....	46.3	1.4	.....	.....	.....	37.0	.....	7.9	23
.....	.....	.....	.....	19.3	.....	1.2	0.7	.....	.....	.....	.....	.....	0.5	24
.....	.....	2	.....	.....	.....	53	.....	.....	3	.....	1	1	48	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	67	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	85	27
.....	.....	.....	.....	.....	.....	23	.....	.....	3	.....	.....	1	19	28
.....	.....	2	.....	.....	.....	26	.....	.....	.....	.....	1	.....	25	29
.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	4	30
.....	.....	3	.....	.....	.....	66	1	.....	3	.....	1	.....	61	31
.....	.....	3	.....	.....	.....	32	1	.....	1	.....	.....	.....	30	32
.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	6	33
.....	.....	.....	.....	.....	.....	28	.....	.....	2	.....	1	.....	25	34
.....	.....	10	.....	.....	.....	1,000,112	(4)	.....	101,202	.....	(4)	.....	895,739	35
1	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	69	36
300	.....	.....	.....	.....	.....	.....	.....	.....	101,211	.....	.....	.....	269,910	37
.....	.....	.....	.....	1	.....	8	.....	.....	.....	.....	.....	1	7	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	40
.....	.....	.....	.....	(4)	.....	550	.....	.....	.....	.....	.....	(4)	250	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	368	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,314	43
1	3	40	6	397	7	2,357	401	82	44	178	111	91	1,450	44
2	.....	.....	.....	.....	.....	.....	.....	.....	48	.....	.....	.....	1,632	45
2	.....	.....	.....	.....	.....	.....	.....	.....	68	.....	.....	.....	853	46
(4)	1,270	28,490	2,155	138,268	4,025	1,884,904	474,523	53,800	27,285	104,277	124,505	73,908	1,026,606	47
1,900	.....	.....	.....	.....	.....	.....	.....	.....	25,950	.....	.....	.....	940,578	48
750	.....	.....	.....	.....	.....	.....	.....	.....	40,451	.....	.....	.....	344,308	49
1	2	43	7	409	6	2,705	606	91	46	200	110	97	1,555	50
2	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	1,636	51
(4)	(4)	1,155	90	2,696	98	62,133	30,156	1,368	432	4,023	2,565	1,730	21,839	52
35	.....	.....	.....	.....	.....	.....	.....	.....	516	.....	.....	.....	22,000	53
63	.....	.....	.....	.....	.....	.....	.....	.....	759	.....	.....	.....	9,997	54
1	.....	19	6	362	4	2,167	501	58	35	124	59	63	1,307	55
(4)	.....	484	80	2,219	80	53,124	28,002	818	364	2,654	1,422	1,488	18,376	56
.....	2	24	1	45	2	534	104	33	11	76	51	14	245	57
.....	(4)	671	(4)	471	(4)	8,899	2,139	550	68	1,369	1,163	242	3,368	58
.....	.....	.....	.....	2	.....	4	1	.....	.....	.....	.....	.....	3	59
.....	.....	.....	.....	(4)	.....	110	(4)	.....	.....	.....	.....	.....	95	60
1	3	43	7	410	7	2,718	608	95	46	198	113	98	1,560	61
2	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	1,668	62
4	.....	.....	.....	.....	.....	.....	.....	.....	66	.....	.....	.....	839	63
(4)	(4)	32,825	5,305	148,005	4,025	5,850,195	3,882,091	74,520	28,145	270,487	127,905	92,045	1,375,002	64
1,900	.....	.....	.....	.....	.....	.....	.....	.....	28,415	.....	.....	.....	1,231,596	65
3,300	.....	.....	.....	.....	.....	.....	.....	.....	45,959	.....	.....	.....	397,428	66
1	1	6	3	243	6	1,443	336	49	27	107	22	50	852	67
(4)	(4)	5,410	655	83,159	3,100	4,159,166	3,067,568	36,155	14,755	180,087	15,405	48,400	796,796	68
(4)	(4)	902	218	342	517	2,882	9,130	738	546	1,683	700	968	935	69
.....	1	36	3	158	1	1,234	258	46	18	88	89	44	691	70
.....	(4)	27,405	1,500	64,254	(4)	1,266,742	410,998	38,365	12,940	87,630	111,210	40,895	564,704	71
.....	(4)	761	500	407	(4)	1,027	1,593	834	719	996	1,250	929	817	72
.....	1	1	.....	4	.....	19	.....	.....	.....	2	1	2	14	73
.....	(4)	(4)	.....	127	.....	2,122	.....	.....	.....	(4)	(4)	(4)	1,452	74
.....	(4)	(4)	.....	32	.....	112	.....	.....	.....	(4)	(4)	(4)	104	75
.....	.....	.....	1	5	.....	22	14	.....	1	1	1	2	3	76
.....	.....	.....	(4)	465	.....	422,165	403,525	.....	(4)	(4)	(4)	(4)	12,050	77
(4)	(4)	47	27	33	52	33	32	33	27	29	37	42	33	78
43	.....	.....	.....	.....	.....	.....	.....	.....	17	.....	.....	.....	28	79
25	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	.....	.....	22	80
(4)	(4)	49	26	33	52	34	37	34	28	30	37	44	34	81
.....	.....	40	30	17	.....	21	20	18	12	17	50	15	23	82

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Continued							
		Sacramento River—Continued							
		Middle Sacramento River—Continued			Lower Sacramento River				
		Feather River—Continued							
		Direct (57)	Yuba and Upper Bear Rivers[3] (58)	Lower Bear River (59)	Total	Direct (60)	American River (61)	Cache Creek (62)	Putah Creek (63)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	1,028	135	95	1,953	304	982	390	277
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	210	742	87	127	303	52	193	106
3	Diversion dams.....1940..total number.....	212	81	4	29	2	20	6	1
4	1930..total number.....	.....	20	.....	.....	.....	33	3	.....
5	1920..total number.....	.....	41	.....	.....	.....	51	6	.....
6	(a) Concrete and masonry.....1940..number.....	43	20	.....	12	.....	10	1	1
7	(b) Timber.....1940..number.....	51	1	1	6	.....	5	1	.....
8	(c) Earth and rock.....1940..number.....	36	52	2	6	.....	2	4	.....
9	(d) Other, mixed, and not reported..1940..number.....	82	8	1	5	2	3	.....	.....
10	Main canals and laterals.....1940..total length, miles.....	685.6	628.8	4.0	763.7	138.5	372.9	188.7	63.6
11	1930..total length, miles.....	.....	672	.....	.....	.....	304	227	.....
12	1920..total length, miles.....	.....	577	.....	.....	.....	1,872	202	.....
13	(a) Earth.....1940..length, miles.....	660	590	4	720	131	349	180	60
14	(b) Lined.....1940..length, miles.....	25.6	38.8	.....	43.7	7.5	23.9	8.7	3.6
15	1940..capacity, c.f.s.[4].....	3,801	2,445	20	4,216	1,010	1,852	1,082	272
16	1930..capacity, c.f.s.[4].....	.....	1,045	.....	.....	.....	356	679	.....
17	1920..capacity, c.f.s.[4].....	.....	1,235	.....	.....	.....	1,264	1,197	.....
18	Pipe lines[5].....1940..total length, miles.....	275.2	81.8	31.1	328.7	27.2	224.2	49.4	27.9
19	1930..total length, miles.....	.....	17.1	.....	.....	.....	135.2	10.0	.....
20	1920..total length, miles.....	.....	6.2	.....	.....	.....	77.8	0.4	.....
21	(a) Concrete.....1940..length, miles.....	230.2	4.8	30.3	154.7	21.1	81.8	29.2	22.6
22	(b) Metal.....1940..length, miles.....	41.2	72.4	0.8	143.1	6.1	115.1	16.6	5.3
23	(c) Wood-stave.....1940..length, miles.....	3.5	4.4	.....	25.1	.....	25.1	.....	.....
24	(d) Other.....1940..length, miles.....	0.3	0.2	.....	5.8	.....	2.2	3.6	.....
25	Storage dams.....1940..total number.....	9	38	1	20	1	15	2	2
26	1930..total number.....	.....	11	.....	.....	.....	17	2	.....
27	1920..total number.....	.....	33	.....	.....	.....	31	3	.....
28	(a) Concrete and masonry.....1940..number.....	2	16	1	4	.....	3	1	.....
29	(b) Earth and rock.....1940..number.....	5	20	.....	15	1	12	.....	2
30	(c) Other, mixed, and not reported..1940..number.....	2	2	.....	1	.....	.....	1	.....
31	Reservoirs.....1940..total number.....	14	46	1	32	4	21	3	4
32	(a) 1-99 acre-feet capacity.....1940..number.....	11	19	.....	23	3	15	2	3
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	6	.....	4	1	3	.....	.....
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	3	21	1	5	.....	3	1	1
35	1940..total capacity, ac.-ft.[6]..	14,767	875,071	(7)	374,869	133	53,962	319,002	1,772
36	1930..total number.....	.....	9	.....	.....	.....	25	1	.....
37	1930..total capacity, ac.-ft....	.....	91,530	.....	.....	.....	14,517	420,000	.....
38	Wells, flowing.....1940..number.....	7	.....	.....	2	.....	.....	2	.....
39	1930..number.....	.....	.....	.....	.....	.....	4	.....	.....
40	1920..number.....	.....	2	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	250	.....	.....	(7)	.....	.....	(7)	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	102	.....	.....
43	1920..yield, g.p.m.....	.....	30	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	1,276	41	133	2,429	337	1,245	503	344
45	1930..number.....	.....	11	.....	.....	.....	364	410	.....
46	1920..number.....	.....	8	.....	.....	.....	163	144	.....
47	1940..yield, g.p.m.....	873,864	48,622	104,120	1,476,511	269,028	543,745	448,953	214,785
48	1930..yield, g.p.m.....	.....	1,900	.....	.....	.....	111,215	291,733	.....
49	1920..yield, g.p.m.....	.....	2,725	.....	.....	.....	93,694	91,211	.....
50	Pumping plants.....1940..total number.....	1,356	65	134	2,636	442	1,291	513	390
51	1930..total number.....	.....	13	.....	.....	.....	430	277	.....
52	Prime movers.....1940..capacity, hp.....	18,988	822	2,029	37,510	10,685	12,148	8,436	6,241
53	1930..capacity, hp.....	.....	54	.....	.....	.....	4,524	5,175	.....
54	1920..capacity, hp.....	.....	1,572	.....	.....	.....	2,358	1,524	.....
55	(a) Electric.....1940..number.....	1,133	47	127	2,320	378	1,206	384	352
56	1940..capacity, hp.....	15,768	661	1,947	33,401	9,694	11,253	6,799	5,655
57	(b) Internal-combustion.....1940..number.....	222	16	7	310	63	82	128	37
58	1940..capacity, hp.....	3,198	88	82	4,065	990	892	1,607	576
59	(c) Other.....1940..number.....	1	2	.....	6	1	3	1	1
60	1940..capacity, hp.....	(7)	(7)	.....	44	(7)	3	(7)	(7)
61	Pumps.....1940..total number.....	1,360	66	134	2,631	445	1,279	516	391
62	1930..number.....	.....	13	.....	.....	.....	440	228	.....
63	1920..number.....	.....	11	.....	.....	.....	190	76	.....
64	1940..capacity, g.p.m.....	1,210,782	57,880	106,340	2,335,429	942,229	578,311	489,664	325,225
65	1930..capacity, g.p.m.....	.....	2,205	.....	.....	.....	193,128	302,383	.....
66	1920..capacity, g.p.m.....	.....	2,751	.....	.....	.....	95,838	92,391	.....
67	(a) Centrifugal.....1940..number.....	759	46	47	1,401	275	811	233	82
68	1940..capacity, g.p.m.....	717,033	47,963	31,800	1,347,748	704,832	377,297	208,725	56,894
69	1940..average capacity, g.p.m..	945	1,043	677	962	2,563	465	896	694
70	(b) Turbine.....1940..number.....	592	12	87	1,195	161	448	279	307
71	1940..capacity, g.p.m.....	480,659	9,505	74,540	964,907	218,875	198,988	278,809	268,235
72	1940..average capacity, g.p.m..	812	792	857	807	1,359	444	999	874
73	(c) Plunger.....1940..number.....	6	8	.....	23	2	18	[8] 1	2
74	1940..capacity, g.p.m.....	1,040	412	.....	2,151	(7)	2,003	30	(7)
75	1940..average capacity, g.p.m..	173	52	.....	94	(7)	111	30	(7)
76	(d) Other.....1940..number.....	3	.....	.....	12	7	2	3	.....
77	1940..capacity, g.p.m.....	12,050	.....	.....	20,623	18,500	(7)	2,100	.....
78	Pumping lift, from all sources.....1940..average, feet.....	32	32	36	41	29	43	36	55
79	1930..average, feet.....	.....	16	.....	.....	.....	29	27	.....
80	1920..average, feet.....	.....	35	.....	.....	.....	26	24	.....
81	from pumped wells.....1940..average, feet.....	33	30	36	42	31	42	37	55
82	from surface sources...1940..average, feet.....	19	35	.....	28	22	48	25	36

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

WORKS, 1940, 1930, AND 1920—Continued

SACRAMENTO-SAN JOÁQUIN DELTA—Continued																
San Joaquin River																
				Kern River												
Total	Direct	Avenal and El Paso Creeks group	Caliente Creek	Total	Direct	Poso Creek and White River	Tule River and Deer Creek[1]	Kaweah River	Panoche and Los Gatos Creeks group	Kings River[2]	Fresno River	Merced River	Orestimba and Los Banos Creeks group	Tuolumne River	Stanislaus River	
	(64)	(65)	(66)		(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	
16,796	98	14	151	1,325	1,009	316	1,226	2,259	79	9,700	1,144	430	52	168	150	1
194	3,481	554	151	360	406	213	110	100	1,875	126	126	389	230	1,534	796	2
222	5	3	2	9	7	2	37	43	3	54	6	17	.....	28	15	3
139	3	.....	.....	28	.....	5	10	25	.....	27	6	11	.....	20	7	4
210	23	.....	.....	17	.....	.....	44	19	.....	27	5	17	.....	17	12	5
114	1	2	.....	4	4	.....	26	28	.....	32	3	5	.....	9	4	6
29	2	.....	.....	4	3	1	1	.....	.....	8	2	3	.....	9	.....	7
69	2	1	2	1	.....	1	10	11	3	13	1	9	.....	7	9	8
10	.....	.....	.....	.....	.....	.....	.....	4	.....	1	.....	.....	.....	3	2	9
9,626.1	852.5	1.0	0.3	1,252.1	1,226.1	26.0	188.3	424.7	10.0	2,636.2	150.4	1,350.1	14.4	2,060.7	685.4	10
8,183	1,311	.....	.....	1,179	.....	6	145	566	.....	2,084	109	1,260	.....	520	908	11
11,554	3,340	.....	.....	567	.....	.....	581	836	.....	1,873	112	766	.....	1,533	1,003	12
8,902	753	1	.....	1,249	1,223	26	173	397	10	2,596	150	1,255	9	1,735	574	13
724.1	90.5	.....	0.3	3.1	3.1	.....	15.3	27.7	.....	40.2	0.4	95.1	5.4	325.7	111.4	14
40,262	5,294	7	4	4,494	4,480	14	776	2,557	1,208	16,957	553	2,011	81	5,102	1,218	15
44,723	8,210	.....	.....	4,749	.....	12	758	2,865	.....	15,757	209	5,919	.....	4,396	1,573	16
53,703	11,431	.....	.....	6,273	.....	.....	2,465	5,133	.....	17,194	314	2,171	.....	5,834	1,444	17
5,645.1	70.6	13.1	275.4	1,044.3	716.0	328.3	543.9	1,105.5	108.3	1,707.2	163.0	111.3	8.1	324.0	170.4	18
3,704.5	91.3	.....	.....	635.4	.....	126.0	358.3	621.4	.....	1,063.8	15.5	174.6	.....	419.9	50.9	19
1,279.5	184.8	.....	.....	83.1	.....	.....	162.7	269.7	.....	239.3	6.3	5.2	.....	14.4	41.0	20
5,210.0	64.0	12.5	265.7	1,011.6	664.7	326.9	428.7	921.0	106.0	1,656.5	162.6	108.5	7.0	317.1	148.6	21
383.1	5.0	0.6	9.1	32.2	30.8	1.4	110.3	149.3	2.3	41.8	0.1	2.7	1.1	6.8	21.8	22
42.5	1.6	.....	.....	0.5	0.5	.....	4.8	34.4	.....	1.1	0.1	.....	.....	.....	.....	23
9.5	.....	.....	0.6	.....	.....	.....	0.1	0.8	.....	7.8	.....	0.1	.....	0.1	.....	24
173	2	1	1	86	81	5	54	5	1	3	1	4	.....	7	8	25
53	1	.....	.....	2	.....	.....	.....	1	.....	1	1	4	.....	13	27	26
52	2	.....	.....	11	.....	.....	2	1	.....	5	.....	1	.....	15	13	27
13	.....	.....	.....	1	1	.....	.....	2	.....	2	1	1	.....	4	2	28
148	1	1	1	82	80	2	48	3	1	1	.....	1	.....	3	6	29
12	1	.....	.....	3	.....	3	6	.....	.....	.....	.....	2	.....	.....	.....	30
1,080	4	3	36	644	439	205	287	17	1	28	37	6	.....	11	6	31
1,060	2	3	36	643	438	205	287	16	1	22	37	5	.....	5	3	32
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	33
17	2	.....	.....	1	1	.....	.....	1	.....	6	.....	1	.....	4	2	34
1,045,322	4,503	8	388	234,036	233,582	454	859	2,707	(7)	8,196	81	281,036	.....	366,196	147,397	35
750	3	.....	.....	434	.....	41	142	34	.....	22	2	6	.....	7	25	36
1,142,133	90,033	.....	.....	210,532	.....	811	426	3,157	.....	109	4	289,005	.....	365,498	164,178	37
13	.....	.....	.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	38
28	2	.....	.....	19	.....	.....	.....	.....	.....	2	.....	.....	.....	2	2	39
137	49	.....	.....	17	.....	.....	2	3	.....	34	1	1	.....	1	.....	40
1,741	.....	.....	.....	600	600	.....	.....	.....	.....	.....	.....	.....	.....	1,141	.....	41
7,712	1,800	.....	.....	1,475	.....	.....	.....	.....	.....	950	.....	.....	.....	3,000	162	42
48,583	15,155	.....	.....	13,850	.....	.....	251	17	.....	10,000	200	75	.....	400	.....	43
23,542	135	21	215	2,052	1,444	608	1,924	3,634	221	12,457	1,833	543	75	306	126	44
23,584	55	.....	.....	2,143	.....	594	1,676	4,644	.....	10,887	266	448	.....	188	45	45
9,758	1,531	.....	.....	441	.....	.....	1,146	2,136	.....	2,547	145	216	.....	63	34	46
14,310,860	113,723	15,510	175,078	1,523,244	1,155,482	367,762	974,234	1,838,747	211,465	7,159,466	1,361,701	390,215	91,269	325,132	131,076	47
12,292,585	108,050	.....	.....	1,192,263	.....	298,474	754,059	1,884,312	.....	5,698,807	162,675	337,607	.....	200,712	27,528	48
4,315,073	668,420	.....	.....	219,674	.....	.....	493,272	842,085	.....	1,183,710	79,255	120,465	.....	53,880	26,490	49
24,346	271	21	218	2,092	1,468	624	1,973	3,749	225	12,700	1,865	605	106	362	159	50
23,552	289	.....	.....	2,114	.....	579	1,675	4,555	.....	10,782	267	415	.....	172	69	51
384,459	18,307	818	9,861	63,308	38,257	25,051	39,918	52,940	17,061	130,231	30,138	8,981	3,598	6,678	2,620	52
332,000	23,994	.....	.....	42,671	.....	13,061	27,754	54,656	.....	116,216	4,008	5,930	.....	3,285	1,199	53
122,456	30,086	.....	.....	6,676	.....	.....	11,329	21,932	.....	25,426	1,520	2,774	.....	1,231	1,158	54
21,183	240	6	173	1,710	1,155	555	1,829	3,484	208	10,792	1,809	403	90	331	108	55
330,340	17,723	320	7,245	48,668	28,030	20,638	35,990	47,940	16,717	109,031	29,040	6,710	3,233	5,860	1,863	56
3,128	31	14	45	379	310	69	143	258	13	1,901	53	199	15	29	48	57
53,718	584	497	2,616	14,624	10,211	4,413	3,927	4,804	327	21,165	1,013	2,254	362	815	730	58
35	.....	1	.....	3	3	.....	1	7	4	7	3	3	1	2	3	59
401	.....	(7)	.....	16	16	.....	(7)	196	17	35	85	17	(7)	(7)	27	60
24,282	272	22	217	2,087	1,467	620	1,974	3,729	224	12,669	1,857	601	106	364	160	61
23,987	415	.....	.....	2,154	.....	593	1,720	4,604	.....	10,921	267	431	.....	173	70	62
9,470	1,639	.....	.....	405	.....	.....	1,083	1,930	.....	2,397	144	235	.....	69	41	63
16,314,472	1,412,793	15,510	175,338	1,542,051	1,146,092	395,959	1,004,187	1,912,960	208,705	7,383,640	1,378,946	535,296	148,119	409,352	187,575	64
13,857,700	1,540,199	.....	.....	1,214,767	.....	293,868	766,282	1,895,946	.....	5,489,446	158,865	365,202	.....	196,421	84,184	65
6,663,620	1,295,475	.....	.....	223,606	.....	.....	995,319	876,254	.....	1,225,607	82,738	157,865	.....	59,360	73,140	66
9,193	169	.....	10	125	112	13	246	645	15	7,280	128	367	20	82	106	67
6,453,887	1,291,980	.....	3,800	97,609	67,509	30,100	90,061	372,423	13,692	4,023,827	84,349	244,351	34,800	77,160	119,835	68
702	7,645	.....	380	781	603	2,315	366	577	913	553	659	666	1,740	941	1,131	69
13,938	100	21	201	1,933	1,342	591	1,512	2,632	197	4,987	1,727	231	81	276	40	70
9,715,607	120,468	15,500	171,183	1,436,281	1,075,412	360,869	888,606	1,494,319	194,804	3,323,186	1,293,697	289,340	104,319	330,884	53,020	71
697	1,205	738	852	743	801	611	588	568	989	666	749	1,253	1,288	1,199	1,326	72
1,079	3	1	6	20	9	11	212	438	12	375	2	2	.....	6	2	73
91,496	345	(7)	355	3,443	2,103	1,340	22,170	43,794	209	18,837	(7)	(7)	.....	1,308	(7)	74
85	115	(7)	59	172	234	122	105	100	17	50	(7)	(7)	.....	218	(7)	75
72	.....	.....	.....	9	4	5	4	14	.....	27	.....	1	5	.....	12	76
53,482	.....	.....	.....	4,718	1,068	3,650	3,350	2,424	.....	17,790	.....	(7)	9,000	.....	14,700	77
45	50	116	116	94	70	165	94	60	137	28	54	26	59	29	28	78
46	28	.....	.....	73	.....	108	75	68	.....	32	41	23	.....	23	22	79
34	25	.....	.....	47	.....	.....	45	41	.....	23	33	21	.....	33	26	80
46	61	116	116	94	70	166	94	61	138	28	54	27	72	36	29	81
27	28	.....	.....	58	44	110	71	46	15	22	18	14	21	15	23	82

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	SACRAMENTO-SAN JOAQUIN DELTA—Con.			INDEPENDENT BASINS			
		Calaveras River (78)	Mokelumne River (79)	Cosumnes River (80)	Total*	Surprise Valley (82)	Madeline Plains (83)	Honey Lake (86)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
1	Enterprises.....1940..number.....	931	1,306	212	1,848	163	9	165
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	41	73	39	152	274	448	336
3	Diversion dams.....1940..total number.....	13	18	12	427	84	2	179
4	1930..total number.....	16	21	6	253	.....	.....	55
5	1920..total number.....	22	31	6	247	.....	.....	152
6	(a) Concrete and masonry.....1940..number.....	8	3	9	60	.....	.....	17
7	(b) Timber.....1940..number.....	.....	1	.....	75	12	.....	55
8	(c) Earth and rock.....1940..number.....	4	14	1	234	72	1	87
9	(d) Other, mixed, and not reported..1940..number.....	1	.....	2	58	.....	1	20
10	Main canals and laterals.....1940..total length, miles.....	38.3	149.3	34.5	746.8	61.0	11.0	198.0
11	1930..total length, miles.....	43	195	76	903	.....	.....	84
12	1920..total length, miles.....	98	1,177	70	2,474	.....	.....	435
13	(a) Earth.....1940..length, miles.....	34	137	32	623	61	11	196
14	(b) Lined.....1940..length, miles.....	4.3	12.3	2.5	123.8	.....	.....	2.0
15	1940..capacity, c.f.s.[2].....	129	1,036	262	4,148	656	92	736
16	1930..capacity, c.f.s.[2].....	23	454	77	4,149	.....	.....	784
17	1920..capacity, c.f.s.[2].....	224	1,598	103	13,869	.....	.....	2,446
18	Pipe lines[3].....1940..total length, miles.....	132.0	366.8	25.2	1,676.8	0.4	.....	2.5
19	1930..total length, miles.....	46.5	252.1	20.2	1,109.2	.....	.....	3.8
20	1920..total length, miles.....	29.4	82.2	5.5	769.3	.....	.....	4.1
21	(a) Concrete.....1940..length, miles.....	121.3	353.5	21.0	1,408.6	0.1	.....	.....
22	(b) Metal.....1940..length, miles.....	10.7	9.4	3.8	256.6	0.3	.....	2.5
23	(c) Wood-stave.....1940..length, miles.....	.....	2.0	.....	0.3	.....	.....	.....
24	(d) Other.....1940..length, miles.....	.....	1.9	0.4	11.3	.....	.....	.....
25	Storage dams.....1940..total number.....	5	8	5	64	.....	8	19
26	1930..total number.....	12	11	2	44	.....	.....	7
27	1920..total number.....	8	25	.....	40	.....	.....	9
28	(a) Concrete and masonry.....1940..number.....	.....	2	2	7	.....	.....	2
29	(b) Earth and rock.....1940..number.....	5	5	1	51	.....	8	14
30	(c) Other, mixed, and not reported..1940..number.....	.....	1	2	6	.....	.....	3
31	Reservoirs.....1940..total number.....	7	15	5	301	3	8	25
32	(a) 1-99 acre-feet capacity.....1940..number.....	6	12	3	260	3	4	8
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	3	2	26	.....	.....	11
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	.....	.....	15	.....	4	6
35	1940..total capacity, ac.-ft.[4]..	10,912	622	404	93,882	15	15,023	46,559
36	1930..total number.....	9	13	1	229	.....	.....	9
37	1930..total capacity, ac.-ft....	3,665	3,963	1,200	319,055	.....	.....	32,476
38	Wells, flowing.....1940..number.....	.....	1	.....	221	112	.....	1
39	1930..number.....	1	4	.....	219	.....	.....	.....
40	1920..number.....	6	2	.....	443	.....	.....	.....
41	1940..yield, g.p.m.....	.....	(5)	.....	13,936	3,111	.....	(5)
42	1930..yield, g.p.m.....	3,000	58	.....	28,243	.....	.....	.....
43	1920..yield, g.p.m.....	220	25	.....	58,033	.....	.....	.....
44	Wells, pumped.....1940..number.....	1,149	1,728	241	1,815	1	.....	20
45	1930..number.....	222	2,084	404	2,022	.....	.....	2
46	1920..number.....	565	709	117	1,117	.....	.....	2
47	1940..yield, g.p.m.....	745,671	1,023,664	123,964	869,551	(5)	.....	11,625
48	1930..yield, g.p.m.....	168,311	1,117,397	219,665	1,036,310	.....	.....	4,750
49	1920..yield, g.p.m.....	189,181	356,156	50,870	417,266	.....	.....	555
50	Pumping plants.....1940..total number.....	1,196	1,817	282	1,914	2	.....	26
51	1930..total number.....	255	2,122	414	1,919	.....	.....	2
52	Prime movers.....1940..capacity, hp.....	14,425	20,757	3,130	39,887	(5)	.....	426
53	1930..capacity, hp.....	4,606	23,324	4,385	40,284	.....	.....	145
54	1920..capacity, hp.....	4,358	8,309	1,788	15,645	.....	.....	43
55	(a) Electric.....1940..number.....	1,060	1,607	213	1,403	1	.....	12
56	1940..capacity, hp.....	12,804	17,920	2,257	26,803	(5)	.....	291
57	(b) Internal-combustion.....1940..number.....	121	203	63	432	1	.....	12
58	1940..capacity, hp.....	1,614	2,733	862	12,278	(5)	.....	124
59	(c) Other.....1940..number.....	15	7	6	79	.....	.....	2
60	1940..capacity, hp.....	7	104	11	806	.....	.....	(5)
61	Pumps.....1940..total number.....	1,184	1,820	283	1,839	2	.....	25
62	1930..number.....	256	2,179	418	1,947	.....	.....	2
63	1920..number.....	585	765	131	920	.....	.....	7
64	1940..capacity, g.p.m.....	779,349	1,233,294	183,184	895,601	(5)	.....	17,805
65	1930..capacity, g.p.m.....	182,821	1,272,765	233,754	2,037,137	.....	.....	5,500
66	1920..capacity, g.p.m.....	200,337	451,434	84,740	462,081	.....	.....	4,640
67	(a) Centrifugal.....1940..number.....	556	1,077	184	310	2	.....	12
68	1940..capacity, g.p.m.....	360,950	802,689	119,966	136,644	(5)	.....	8,635
69	1940..average capacity, g.p.m..	649	745	652	441	(5)	.....	720
70	(b) Turbine.....1940..number.....	613	740	85	1,365	.....	.....	11
71	1940..capacity, g.p.m.....	418,021	430,318	62,548	741,433	.....	.....	9,050
72	1940..average capacity, g.p.m..	682	582	736	543	.....	.....	823
73	(c) Plunger.....1940..number.....	14	2	12	155	.....	.....	1
74	1940..capacity, g.p.m.....	353	(5)	455	12,405	.....	.....	(5)
75	1940..average capacity, g.p.m..	25	(5)	38	80	.....	.....	(5)
76	(d) Other.....1940..number.....	1	1	2	9	.....	.....	1
77	1940..capacity, g.p.m.....	(5)	(5)	(5)	5,119	.....	.....	(5)
78	Pumping lift, from all sources.....1940..average, feet.....	37	35	33	81	(5)	.....	38
79	1930..average, feet.....	46	33	43	73	.....	.....	50
80	1920..average, feet.....	26	33	28	57	.....	.....	20
81	from pumped wells.....1940..average, feet.....	37	35	34	83	(5)	.....	30
82	from surface sources...1940..average, feet.....	28	23	26	34	(5)	.....	46

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

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

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

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

[3] Includes siphons and farm pipe lines reported.

WORKS, 1940, 1930, AND 1920—Continued

INDEPENDENT BASINS—Continued												COLORADO RIVER			
		Walker Lake													
Pyramid Lake Basin and Truckee River** (87)	Lahontan Lake Basin and Carson River** (88)	Total	West Walker River** (89)	East Walker River** (90)	Mono Lake (91)	Owens River (93)	Amargosa River and Dry Lakes[1] (95)	Antelope Valley (97)	Mojave River (98)	San Jacinto River (99)	Whitewater River (100)	Total	Direct (101)	Imperial Valley (102)	
7	16	32	15	17	12	52	17	477	183	272	438	52	3	49	1
239	516	1,200	1,190	1,210	80	309	80	86	56	107	62	11,843	29,741	10,718	2
14	38	45	28	17	1	26	.....	2	14	6	14	5	.....	5	3
.....	.....	15	.....	.....	6	18	.....	.....	7	11	.....	.....	.....	.....	4
.....	15	7	.....	.....	4	6	.....	.....	2	7	3	3	.....	.....	5
1	2	12	12	.....	.....	7	.....	1	3	3	14	5	.....	5	6
.....	.....	6	6	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	7
2	29	21	8	13	.....	14	.....	1	3	2	.....	.....	.....	.....	8
11	7	6	2	4	1	3	.....	.....	8	1	.....	.....	.....	.....	9
6.0	42.0	130.0	90.0	40.0	16.0	113.9	6.0	38.8	9.3	68.2	42.6	2,192.8	282.8	1,910.0	10
.....	10	60	.....	.....	45	180	.....	.....	33	123	.....	2,266	.....	.....	11
.....	21	166	.....	.....	34	142	.....	.....	27	64	49	2,488	.....	.....	12
6	42	130	90	40	16	104	4	19	7	9	14	2,185	280	1,905	13
.....	.....	.....	.....	.....	.....	9.9	2.0	19.8	2.3	59.2	28.6	7.8	2.8	5.0	14
51	163	916	527	389	35	411	9	875	30	96	71	8,511	1,000	7,511	15
.....	25	383	.....	.....	184	654	.....	.....	143	201	.....	10,200	.....	.....	16
.....	52	925	.....	.....	525	1,598	.....	.....	189	251	57	6,577	.....	.....	17
1.7	.....	.....	.....	.....	.....	41.6	2.8	553.8	114.3	533.1	426.6	61.8	4.1	57.7	18
.....	.....	.....	.....	.....	.....	29.0	.....	.....	106.8	445.8	.....	.....	.....	.....	19
.....	0.5	.....	.....	.....	.....	388.5	.....	.....	28.8	145.0	77.5	0.4	.....	.....	20
.....	.....	.....	.....	.....	.....	35.6	2.0	513.1	106.1	378.2	373.5	36.5	.....	36.5	21
1.7	.....	.....	.....	.....	.....	6.0	0.8	40.5	8.2	150.7	45.9	19.9	.....	19.9	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.3	.....	0.1	0.1	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	0.2	.....	3.9	7.2	5.3	4.0	1.3	24
.....	10	3	.....	3	1	1	.....	4	3	12	1	5	.....	5	25
.....	.....	.....	.....	.....	6	9	.....	.....	7	8	.....	.....	.....	.....	26
.....	1	.....	.....	.....	3	4	.....	.....	.....	11	.....	1	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	2	1	2	.....	.....	.....	.....	28
.....	10	3	.....	3	1	1	.....	2	2	7	1	5	.....	5	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	30
.....	10	3	.....	3	.....	4	2	111	51	75	7	7	.....	7	31
.....	.....	.....	.....	.....	.....	2	2	109	51	73	7	7	.....	7	32
.....	10	3	.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	33
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3	.....	.....	.....	.....	34
.....	4,000	1,000	.....	1,000	.....	803	(5)	11,293	101	13,760	22	57	.....	57	35
.....	.....	.....	.....	.....	6	20	.....	.....	75	60	.....	.....	.....	.....	36
.....	.....	.....	.....	.....	42,801	24,620	.....	.....	179	23,312	.....	.....	.....	.....	37
.....	.....	.....	.....	.....	2	.....	.....	1	1	32	72	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	9	.....	.....	17	3	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	23	.....	.....	31	9	242	.....	.....	.....	40
.....	.....	.....	.....	.....	(5)	.....	.....	(5)	(5)	1,230	9,313	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	295	.....	.....	7,664	500	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	537	.....	.....	4,874	115	36,860	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	7	10	622	216	397	542	34	.....	34	44
.....	.....	.....	.....	.....	.....	41	.....	.....	240	443	.....	1	.....	.....	45
.....	.....	.....	.....	.....	.....	9	.....	.....	88	236	325	1	.....	.....	46
.....	.....	.....	.....	.....	.....	4,560	2,115	341,957	111,676	136,448	261,020	14,771	.....	14,771	47
.....	.....	.....	.....	.....	.....	44,260	.....	.....	133,557	208,168	.....	700	.....	.....	48
.....	.....	.....	.....	.....	.....	4,088	.....	.....	45,477	66,833	121,466	900	.....	.....	49
1	.....	.....	.....	.....	.....	7	11	633	225	415	593	44	6	38	50
.....	.....	.....	.....	.....	.....	41	.....	.....	231	426	.....	3	.....	.....	51
(5)	.....	.....	.....	.....	.....	150	178	18,771	3,044	8,765	8,523	1,013	472	541	52
.....	.....	.....	.....	.....	.....	1,892	.....	.....	3,203	9,060	.....	415	.....	.....	53
.....	.....	.....	.....	.....	.....	137	.....	.....	2,145	3,546	3,212	73	.....	.....	54
.....	.....	.....	.....	.....	.....	4	2	494	109	269	512	16	1	15	55
.....	.....	.....	.....	.....	.....	85	(5)	13,877	1,181	4,700	6,636	388	(5)	288	56
.....	.....	.....	.....	.....	.....	3	7	127	90	117	74	19	5	14	57
.....	.....	.....	.....	.....	.....	65	145	4,885	1,836	3,795	1,403	616	372	244	58
1	.....	.....	.....	.....	.....	.....	2	[6] 12	26	29	7	9	.....	9	59
(5)	.....	.....	.....	.....	.....	.....	(5)	9	27	270	484	9	.....	9	60
1	.....	.....	.....	.....	.....	7	11	625	218	404	545	43	6	37	61
.....	.....	.....	.....	.....	.....	32	.....	.....	233	436	.....	4	.....	.....	62
.....	.....	.....	.....	.....	.....	12	.....	.....	86	203	247	2	.....	.....	63
(5)	.....	.....	.....	.....	.....	4,660	2,485	343,019	113,887	150,249	261,574	169,077	154,200	14,877	64
.....	.....	.....	.....	.....	.....	944,750	.....	.....	126,776	243,830	.....	140,200	.....	.....	65
.....	.....	.....	.....	.....	.....	4,558	.....	.....	45,960	76,386	126,356	2,000	.....	.....	66
.....	.....	.....	.....	.....	.....	4	1	13	100	28	149	11	4	7	67
.....	.....	.....	.....	.....	.....	2,260	(5)	3,506	54,509	12,313	53,421	79,585	73,200	6,385	68
.....	.....	.....	.....	.....	.....	565	(5)	270	545	440	359	7,235	18,300	912	69
.....	.....	.....	.....	.....	.....	3	7	589	82	294	379	13	.....	13	70
.....	.....	.....	.....	.....	.....	2,400	2,225	338,001	53,555	131,303	204,899	7,874	.....	7,874	71
.....	.....	.....	.....	.....	.....	800	318	574	653	447	541	606	.....	606	72
1	.....	.....	.....	.....	.....	.....	3	22	32	79	17	16	.....	16	73
(5)	.....	.....	.....	.....	.....	.....	160	1,508	3,958	3,403	3,254	595	.....	595	74
(5)	.....	.....	.....	.....	.....	.....	53	69	124	43	191	37	.....	37	75
.....	.....	.....	.....	.....	.....	.....	.....	1	4	3	.....	3	2	1	76
.....	.....	.....	.....	.....	.....	.....	.....	(5)	1,865	3,230	.....	81,023	(5)	(5)	77
(5)	.....	.....	.....	.....	.....	85	110	114	45	98	52	49	4	55	78
.....	.....	.....	.....	.....	.....	85	.....	.....	44	79	.....	22	.....	.....	79
.....	.....	.....	.....	.....	.....	24	.....	.....	80	73	41	42	.....	.....	80
.....	.....	.....	.....	.....	.....	85	119	114	46	100	52	54	.....	54	81
(5)	.....	.....	.....	.....	.....	.....	20	60	20	30	17	29	4	62	82

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

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

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Alameda	Alpine	Amador	Butte	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	132,658		2,447	13	407	2,584	
2	1930...number....	135,676		2,627	19	371	2,603	
3	Irrigated farms....1940...number....	84,310		679	13	51	1,500	
4	1930...number....	85,784		545	15	68	1,445	
5	Increase or decrease (-), 1930-1940....percent....	-1.7		24.6	-13.3	-25.0	3.8	
	Operated by—							
6	(a) Owners and managers....1940...number....	69,306		506	13	46	1,290	
7	1930...number....	71,911		434	13	57	1,263	
8	(b) Tenants....1940...number....	15,004		173	.....	5	210	
9	1930...number....	13,873		111	2	11	182	
10	Land in all farms....1940...acres....	30,524,324		248,443	11,225	307,457	582,779	
11	Land in irrigated farms....1940...acres....	14,071,222		50,524	11,225	102,428	310,846	
12	Average per farm....1940...acres....	167		74	863	2,008	207	
13	(a) Operated by owners and managers....1940...acres....	12,016,422		35,887	11,225	98,178	280,156	
14	Average per farm....1940...acres....	173		71	863	2,134	217	
15	(b) Operated by tenants....1940...acres....	2,054,800		14,637	.....	4,250	30,690	
16	Average per farm....1940...acres....	137		85	.....	850	146	
17	Approximate land area....1940...acres....	100,353,920		469,120	462,720	380,160	1,065,600	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	5,069,568		20,403	8,327	1,403	79,885	
19	(a) Cropland harvested....1939...acres....	4,621,791		20,126	1,818	1,130	68,681	
20	(b) Crop failure....1939...acres....	22,084		124	10	.....	405	
21	(c) Pasture....1939...acres....	425,693		153	6,499	273	10,799	
22	Area irrigated....1929...acres....	4,746,632		8,494	1,925	678	67,038	
23	1919...acres....	4,219,040		9,346	4,459	326	93,559	
24	Increase or decrease (-), 1929-1939....percent....	6.8		140.2	332.6	106.9	19.2	
25	Irrigable area in enterprises....1940...acres....	8,039,175		31,973	8,483	2,852	239,079	
26	1930...acres....	8,075,695		9,165	2,595	863	204,297	
27	1920[1]...acres....	7,805,207		16,543	7,027	1,093	123,524	
28	Excess of irrigable area over the area irrigated...1940...acres....	2,969,607		11,570	156	1,449	159,194	
29	1930...acres....	3,329,263		671	670	185	137,259	
30	Area works were capable of supplying with water...1940...acres....	7,398,576		31,789	8,482	2,481	145,213	
31	1930...acres....	6,815,250		9,079	2,455	824	159,017	
32	1920...acres....	5,894,466		13,357	4,819	489	114,754	
33	Increase or decrease (-), 1930-1940....percent....	8.6		250.1	245.5	201.1	-8.7	
34	Excess, capability of works over area irrigated...1940...acres....	2,329,008		11,386	155	1,078	65,328	
35	1930...acres....	2,068,618		585	530	146	91,979	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	36.0		40.4	74.2	1.4	25.7	
37	1929...percent....	39.5		20.1	24.1	1.3	25.4	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	68.5		64.2	98.2	56.5	55.0	
39	1929...percent....	69.6		93.6	78.4	82.3	42.2	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	318,889,218		1,430,993	54,930	288,068	7,691,460	
41	(a) Cost of irrigation works and equipment....1940...dollars....	306,729,175		1,426,843	53,780	238,868	6,979,653	
42	(b) Investment in water rights (reported)....1940...dollars....	12,160,043		4,150	1,150	49,200	711,807	
43	Total investment in all enterprises....1930...dollars....	[2] 310,967,979		687,678	2,250	698,108	6,111,209	
44	1920...dollars....	194,886,388		530,053	40,385	91,295	3,383,646	
45	Increase or decrease (-), 1930-1940....percent....	2.5		108.1	2,341.3	-58.7	25.9	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	43.10		45.02	6.48	116.11	52.97	
47	1930...dollars....	45.63		75.74	0.92	847.22	38.43	
48	1920...dollars....	33.06		39.68	8.38	186.70	29.49	
49	Average investment per acre irrigated....1939...dollars....	62.90		70.14	6.60	205.32	96.28	
50	Estimated final investment in existing enterprises...1940...dollars....	327,593,311		1,437,883	54,930	288,583	10,195,895	
51	1930...dollars....	325,930,535		688,528	2,250	700,108	7,320,184	
52	1920...dollars....	225,799,123		538,538	41,385	91,295	3,776,271	
53	Increase or decrease (-), 1930-1940....percent....	0.5		108.8	2,341.3	-58.8	39.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	40.75		44.97	6.48	101.19	42.65	
55	1930...dollars....	40.36		75.13	0.87	811.25	35.83	
56	1920[1]...dollars....	28.93		32.55	5.89	83.53	30.57	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental				Primary	Supplemental
		Enterprises					Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	29,243	7,457	508	15	20	383	4
58	Area irrigated in these enterprises....1939...acres....	4,831,550	439,235	19,821	8,105	1,325	76,671	39
59	Cost of maintenance and operation....1939...dollars....	21,229,685	1,620,218	141,770	1,654	4,848	351,872	209
60	Average cost, per acre irrigated....1939...dollars....	4.39	3.69	7.15	0.20	3.66	4.59	5.33
61	1929...dollars....	6.10	.....	11.73	0.40	47.33	4.78	.....
62	Total annual charges (reported)[3] [4]....1939...dollars....	12,789,209	252,555	18,932	54	1,226	311,278	.....
63	Average annual charge per acre irrigated....1939...dollars....	4.24	2.51	5.93	0.06	5.84	5.49	.....
64	Area against which charges were assessed....1939...acres....	4,212,879	96,930	5,750	953	210	91,430	.....
65	Average annual charge per acre assessed....1939...dollars....	3.04	2.61	3.29	0.06	5.84	3.40	.....
66	Total charges collected[3]....1939...dollars....	10,519,461	403,248	9,504	27	.....	288,312	.....
67	Indebtedness to December 31 (reported)[4]....1939...dollars....	94,170,982	1,523,911	92,577	.....	.....	1,607,823	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	29,522	7,507	526	15	24	456	1
69	Area irrigated in these enterprises....1939...acres....	4,840,760	414,972	20,279	7,927	1,360	79,571	(5)
70	Water delivered in these enterprises....1939...acre-feet..	12,657,820	761,982	32,678	26,020	3,726	393,763	(5)
71	Average water delivered per acre irrigated....1939...acre-feet..	2.6	1.8	1.6	3.6	2.7	4.9	(5)
72	Average cost of water per acre irrigated....1939...dollars....	5.06	4.00	7.34	0.20	3.66	5.23	(5)
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	908	.....	5	.....	.....	17	.....
74	Irrigable area in these enterprises....1939...acres....	2,598,196	.....	379	.....	.....	116,278	.....
75	Irrigated area in these enterprises....1939...acres....	1,711,027	.....	214	.....	.....	35,644	.....
76	Area for which drains have been installed....1939...acres....	1,509,832	.....	116	.....	.....	69,743	.....
77	Additional area needing drainage....1939...acres....	394,963	.....	125	.....	.....	17,125	.....

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

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

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

Calaveras	Colusa	Contra Costa	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	
469	730	1,936	863	9,550	1,376	2,065	2,696	228	2,188	1
481	894	1,890	886	10,334	1,463	2,045	3,176	218	2,397	2
116	400	433	411	8,640	1,061	200	2,405	117	1,774	3
170	359	456	412	9,449	997	133	2,875	195	2,020	4
-31.8	11.4	-5.0	-0.2	-8.6	6.4	50.4	-16.3	-40.0	-12.2	5
108	299	348	373	7,397	894	170	1,475	54	1,267	6
161	275	362	401	8,131	848	97	1,718	79	1,497	7
8	101	85	38	1,243	167	30	930	63	507	8
9	84	94	11	1,318	149	36	1,157	116	523	9
378,532	437,030	304,424	256,504	1,463,868	541,555	816,680	418,029	183,564	1,673,524	10
94,886	196,771	66,024	107,140	922,572	258,807	96,725	403,610	162,854	1,027,597	11
818	492	152	261	107	244	484	168	1,392	579	12
92,526	157,840	53,610	101,397	812,279	220,380	84,149	308,434	42,413	937,755	13
857	528	154	272	110	247	495	209	785	740	14
2,360	38,931	12,414	5,743	110,293	38,427	12,576	95,176	120,441	89,842	15
295	385	146	151	89	230	419	102	1,912	177	16
657,920	737,920	469,760	1,104,000	3,830,400	842,880	2,286,720	2,741,760	6,458,240	5,228,800	17
1,832	82,890	32,386	7,535	561,068	101,557	2,205	422,834	11,889	259,038	18
1,587	80,197	31,131	6,443	533,762	97,191	1,763	410,834	6,541	220,067	19
5	321	164	.....	2,297	62	.....	4,000	.....	594	20
240	2,372	1,091	1,092	25,009	4,304	442	8,000	5,348	38,377	21
1,996	58,369	53,159	10,134	533,992	60,306	1,506	432,240	27,488	180,106	22
2,859	44,097	33,079	6,731	547,587	105,004	365	415,304	74,958	233,593	23
-8.2	42.0	-39.1	-25.6	5.1	68.4	46.4	-2.2	-56.7	43.8	24
3,294	216,271	51,029	21,877	782,453	188,300	4,130	542,545	18,402	493,268	25
6,971	190,190	72,200	44,064	726,944	143,602	2,417	1,014,559	9,214	427,979	26
42,093	88,948	67,876	16,848	1,098,755	202,399	664	530,855	97,998	475,645	27
1,462	133,381	18,643	14,342	221,385	86,743	1,925	119,711	6,513	204,230	28
4,975	131,821	19,041	33,930	192,952	83,296	911	582,319	.....	247,873	29
3,046	212,874	50,906	9,486	729,755	182,269	3,650	539,607	14,860	488,474	30
3,776	172,304	70,943	29,658	659,545	131,354	1,919	529,560	16,142	421,109	31
33,828	69,149	46,482	9,833	838,048	126,992	500	457,815	79,771	329,773	32
-19.3	23.3	-28.2	-68.0	10.6	38.8	90.2	1.9	-7.9	16.0	33
1,214	129,984	18,520	1,951	168,687	80,712	1,445	116,773	2,971	229,436	34
1,780	114,235	17,784	19,524	125,553	71,048	413	97,320	.....	241,003	35
1.9	42.1	49.1	7.0	60.8	39.2	2.3	.....	7.3	25.2	36
1.7	48.6	51.6	14.6	78.7	32.5	8.8	.....	30.9	26.3	37
60.1	38.9	63.6	79.4	76.9	55.7	60.4	78.4	80.0	53.0	38
52.9	33.8	74.9	34.2	81.0	45.9	78.5	81.6	.....	42.8	39
242,297	4,499,923	2,579,509	1,048,908	20,959,849	5,811,655	151,896	17,758,339	240,112	12,389,454	40
241,215	4,495,664	2,579,409	1,048,301	20,777,490	5,741,376	151,649	17,753,652	240,112	12,388,930	41
1,082	4,259	100	607	182,359	70,279	247	4,687	.....	524	42
343,525	4,006,824	2,838,120	939,937	18,112,479	6,451,120	106,238	16,656,841	220,754	8,673,199	43
1,315,617	2,594,164	1,380,210	499,269	8,067,930	5,586,804	37,298	14,223,585	2,487,561	18,419,752	44
-29.5	12.3	-9.1	11.6	15.7	-9.9	43.0	6.6	8.8	42.8	45
79.55	21.14	50.67	110.57	28.72	31.89	41.62	32.91	16.16	25.36	46
90.98	23.21	40.01	31.69	27.46	49.11	55.36	31.45	13.68	20.60	47
38.89	37.52	29.69	50.77	9.03	43.99	74.60	31.07	31.18	55.86	48
132.26	54.29	79.65	139.20	37.36	57.23	68.89	42.00	20.20	47.83	49
249,064	4,511,272	2,580,054	1,054,108	21,049,544	5,854,991	172,049	17,758,414	274,012	12,764,615	50
371,725	4,167,013	2,848,745	1,644,487	18,427,677	6,470,610	108,573	16,656,841	253,254	8,812,564	51
1,329,119	2,881,964	1,587,960	702,269	9,249,614	7,283,303	37,798	14,323,585	2,607,111	18,829,815	52
-33.0	8.3	-9.4	-35.9	14.2	-9.5	58.5	6.6	8.6	44.8	53
75.61	20.86	50.56	48.18	26.90	31.09	41.66	32.73	14.89	25.88	54
53.32	21.91	39.46	37.32	25.35	45.06	44.92	16.42	27.38	20.59	55
31.58	32.40	23.40	41.68	8.42	35.98	56.92	26.98	26.60	39.59	56
Primary Enterprises: 52	Sup. Enterprises: 3	107	Primary Enterprises: 140	Sup. Enterprises: 5	31	Primary Enterprises: 1,981	Sup. Enterprises: 4,652	Primary Enterprises: 244	Sup. Enterprises: 4	57	5	24	Primary Enterprises: 1,217	Sup. Enterprises: 94	57
1,760	26	81,572	26,975	95	6,605	547,197	196,533	101,334	801	2,050	422,834	8,866	254,623	8,530	58
4,888	315	239,135	146,340	694	65,895	1,464,746	647,458	262,564	2,237	7,403	1,297,320	6,636	1,520,048	40,885	59
2.78	12.12	2.93	5.43	7.31	9.98	2.68	3.29	2.59	2.79	3.61	3.07	0.75	5.97	4.79	60
8.37	.....	2.91	4.63	.....	10.53	4.14	.....	5.93	.....	7.61	3.37	2.66	7.21	.....	61
3,950	.....	105,132	139,057	.....	28,809	599,425	1,883	159,297	.....	2,500	1,715,291	4,400	509,627	.....	62
4.65	.....	1.57	6.69	.....	4.80	1.48	0.08	1.87	.....	2.48	4.06	0.75	3.97	.....	63
850	.....	77,892	32,023	.....	32,005	573,479	4,700	98,684	.....	1,008	575,314	5,903	141,170	.....	64
4.65	.....	1.35	4.34	.....	0.90	1.05	0.40	1.61	.....	2.48	2.98	0.75	3.61	.....	65
1,500	.....	101,332	135,525	.....	15,216	609,051	750	141,915	.....	.....	1,696,203	.....	153,808	.....	66
15,000	.....	2,280,374	1,294,481	.....	728,816	2,069,780	.....	3,286,629	.....	.....	15,548,321	.....	2,319,547	.....	67
63	3	109	141	2	42	1,948	4,712	239	4	38	5	49	1,234	95	68
1,567	26	81,486	27,953	(5)	7,193	544,211	184,149	101,527	801	1,845	422,834	11,844	257,611	8,778	69
3,357	54	359,048	46,759	(5)	21,530	1,057,437	331,538	464,412	1,549	11,060	1,192,848	48,492	788,232	22,862	70
2.1	2.1	4.4	1.7	(5)	3.0	1.9	1.8	4.6	1.9	6.0	2.8	4.1	3.1	2.6	71
3.24	12.12	2.03	6.97	(5)	4.77	3.09	3.62	2.21	2.79	3.60	4.06	0.74	6.32	4.89	72
1	.....	15	21	.....	4	7	.....	14	.....	3	[6] 2	[6] 2	8	.....	73
(5)	.....	189,707	42,074	.....	54	185,213	.....	148,153	.....	120	540,000	1,112	50,868	.....	74
(5)	.....	69,621	26,527	.....	54	122,689	.....	73,413	.....	68	422,789	400	37,896	.....	75
(5)	.....	182,042	16,778	.....	23	6,561	.....	105,695	.....	2	208,000	400	49,491	.....	76
.....	.....	570	2,500	.....	1	6,006	.....	3,603	.....	9	315,000	555	200	.....	77

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

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

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

	ITEM (For definitions and explanations, see text)	Kings		Lake	Lassen		Los Angeles	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	2,132		876	486		12,475	
2	1930...number....	2,156		1,057	472		12,653	
3	Irrigated farms....1940...number....	1,788		141	301		8,250	
4	1930...number....	1,799		110	241		8,537	
5	Increase or decrease (-), 1930-1940....percent....	-0.6		28.2	24.9		-3.3	
	Operated by—							
6	(a) Owners and managers....1940...number....	1,403		127	250		6,398	
7	1930...number....	1,420		100	199		7,247	
8	(b) Tenants....1940...number....	385		14	51		1,861	
9	1930...number....	379		10	42		1,290	
10	Land in all farms....1940...acres....	507,165		229,854	606,335		596,552	
11	Land in irrigated farms....1940...acres....	397,471		56,802	511,973		297,358	
12	Average per farm....1940...acres....	222		403	1,701		36	
13	(a) Operated by owners and managers....1940...acres....	331,626		55,298	488,262		236,896	
14	Average per farm....1940...acres....	236		435	1,953		37	
15	(b) Operated by tenants....1940...acres....	65,845		1,504	23,711		60,462	
16	Average per farm....1940...acres....	171		107	465		32	
17	Approximate land area....1940...acres....	892,800		803,840	2,910,720		2,605,440	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	315,618		3,281	62,243		185,380	
19	(a) Cropland harvested....1939...acres....	299,654		3,127	40,883		184,276	
20	(b) Crop failure....1939...acres....	724		7	521		383	
21	(c) Pasture....1939...acres....	15,240		147	20,839		721	
22	Area irrigated....1929...acres....	269,994		1,916	39,893		205,837	
23	1919...acres....	187,868		1,107	53,884		248,412	
24	Increase or decrease (-), 1929-1939....percent....	16.9		71.2	56.0		-9.9	
25	Irrigable area in enterprises....1940...acres....	568,426		4,758	87,640		294,567	
26	1930...acres....	639,135		4,272	76,375		291,970	
27	1920[1]...acres....	490,835		1,831	85,873		364,574	
28	Excess of irrigable area over the area irrigated..1940...acres....	272,808		1,477	25,397		109,187	
29	1930...acres....	369,141		2,356	36,482		86,133	
30	Area works were capable of supplying with water...1940...acres....	556,462		4,672	80,286		288,550	
31	1930...acres....	586,332		3,345	67,735		274,206	
32	1920...acres....	376,906		1,517	71,582		319,368	
33	Increase or decrease (-), 1930-1940....percent....	-5.1		39.7	18.5		5.2	
34	Excess, capability of works over area irrigated...1940...acres....	240,844		1,391	18,043		103,170	
35	1930...acres....	316,338		1,429	27,842		68,369	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	79.4		5.8	12.2		62.3	
37	1929...percent....	75.3		3.7	13.2		65.4	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	56.7		70.2	77.5		64.2	
39	1929...percent....	46.0		57.3	58.9		75.1	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	7,890,358		254,825	499,965		22,316,928	
41	(a) Cost of irrigation works and equipment....1940...dollars....	7,002,248		254,532	471,012		21,267,631	
42	(b) Investment in water rights (reported)....1940...dollars....	888,110		293	28,953		1,049,297	
43	Total investment in all enterprises....1930...dollars....	8,373,919		227,899	1,693,616		32,205,278	
44	1920...dollars....	3,989,358		116,286	519,656		21,038,616	
45	Increase or decrease (-), 1930-1940....percent....	-5.8		11.8	-70.5		-30.7	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	14.18		54.54	6.23		77.34	
47	1930...dollars....	14.28		68.13	25.00		117.45	
48	1920...dollars....	10.58		76.66	7.26		65.88	
49	Average investment per acre irrigated....1939...dollars....	25.00		77.67	8.03		120.38	
50	Estimated final investment in existing enterprises..1940...dollars....	7,959,903		258,965	504,905		22,827,690	
51	1930...dollars....	8,533,394		238,040	1,814,716		32,690,243	
52	1920...dollars....	4,362,178		216,346	583,456		23,271,909	
53	Increase or decrease (-), 1930-1940....percent....	-6.7		8.8	-72.2		-30.2	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	13.53		54.43	5.76		77.50	
55	1930...dollars....	13.35		55.72	23.76		111.98	
56	1920[1]...dollars....	8.89		118.16	6.79		63.83	
	MAINTENANCE AND OPERATION CHARGES AND INDEBTEDNESS	Primary	Supplemental		Primary	Supplemental	Primary	Supplemental
		Enterprises			Enterprises		Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	515	717	109	168	4	1,547	15
58	Area irrigated in these enterprises....1939...acres....	312,946	36,782	3,074	53,423	394	140,563	5,705
59	Cost of maintenance and operation....1939...dollars....	369,000	137,451	18,253	20,210	733	1,649,517	57,222
60	Average cost, per acre irrigated....1939...dollars....	1.18	3.74	5.94	0.38	1.86	11.73	10.03
61	1929...dollars....	3.20	.....	8.42	0.67	.....	11.84	.....
62	Total annual charges (reported)[4] [5]....1939...dollars....	265,519	.....	578	18,646	.....	1,372,996	52,760
63	Average annual charge per acre irrigated....1939...dollars....	1.08	.....	5.56	1.56	.....	11.54	11.12
64	Area against which charges were assessed....1939...acres....	352,509	.....	104	12,706	.....	125,739	4,744
65	Average annual charge per acre assessed....1939...dollars....	0.75	.....	5.56	1.47	.....	10.92	11.12
66	Total charges collected[4]....1939...dollars....	293,482	.....	.....	10,060	.....	939,089	51,116
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	598,548	.....	.....	51,000	.....	1,543,160	118,293
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	508	698	110	189	4	1,575	14
69	Area irrigated in these enterprises....1939...acres....	281,102	37,205	3,016	59,282	494	182,940	2,959
70	Water delivered in these enterprises....1939...acre-feet..	523,927	72,785	5,612	97,955	367	425,846	3,421
71	Average water delivered per acre irrigated....1939...acre-feet..	1.9	2.0	1.9	1.7	0.7	2.3	1.2
72	Average cost of water per acre irrigated....1939...dollars....	1.58	3.73	6.11	0.60	0.69	11.61	20.85
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	17	.....	6	4	.....	40	.....
74	Irrigable area in these enterprises....1939...acres....	17,437	.....	126	990	.....	4,609	.....
75	Irrigated area in these enterprises....1939...acres....	9,753	.....	55	769	.....	3,087	.....
76	Area for which drains have been installed....1939...acres....	6,075	.....	20	621	.....	1,343	.....
77	Additional area needing drainage....1939...acres....	170	.....	39	200	.....	85	.....

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

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

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

Madera	Mendocino	Merced	Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	
1,538	1,843	3,777	686	92	1,999	1,764	492	6,109	1,451	1
1,529	1,672	3,830	621	76	1,891	1,686	539	4,960	1,628	2
1,136	162	3,422	532	79	1,054	207	304	5,442	912	3
1,118	174	3,389	418	60	803	92	368	4,509	1,005	4
1.6	-6.9	1.0	27.3	31.7	31.3	125.0	-17.4	20.9	-9.3	5
948	135	2,568	451	63	575	177	271	5,015	769	6
851	153	2,493	360	55	463	74	314	4,230	829	7
188	27	854	81	16	479	30	33	427	143	8
267	21	896	58	5	340	18	54	273	176	9
510,234	966,410	873,949	583,189	56,671	1,329,341	359,491	114,108	215,923	214,784	10
197,773	86,210	575,441	471,868	51,354	366,659	47,412	83,066	162,094	104,364	11
174	532	168	887	650	348	229	273	30	114	12
178,652	73,682	483,735	417,054	44,647	245,755	40,121	75,491	123,316	93,440	13
188	546	188	925	709	427	227	279	25	122	14
19,121	12,528	91,706	54,814	6,707	120,904	7,291	7,575	38,778	10,924	15
102	464	107	677	419	252	243	230	91	76	16
1,374,720	2,246,400	1,269,120	2,620,160	1,948,800	2,127,360	505,600	626,560	500,480	915,840	17
104,522	5,904	273,886	92,419	42,676	105,344	2,630	7,557	119,274	30,071	18
92,002	5,099	248,554	71,642	7,313	103,944	2,348	3,367	118,199	26,812	19
86	23	12	51	.....	298	3	200	473	1,501	20
12,434	782	25,320	20,726	35,363	1,102	279	3,990	602	1,758	21
140,637	3,663	318,244	70,025	29,542	80,981	1,886	6,255	112,025	30,041	22
100,220	1,255	212,851	82,845	46,012	47,336	660	3,441	87,330	27,520	23
-25.7	61.2	-13.9	32.0	44.5	30.1	39.4	20.8	6.5	0.1	24
176,996	8,497	391,305	149,428	44,767	114,074	4,373	128,276	153,508	65,974	25
210,151	7,586	420,614	95,140	34,191	91,780	3,384	133,684	140,414	46,471	26
161,032	11,686	457,494	112,200	121,878	59,659	1,405	5,601	113,026	40,000	27
72,474	2,593	117,419	57,009	2,091	8,730	1,743	120,719	34,234	35,903	28
69,514	3,923	102,370	25,115	4,649	10,799	1,498	127,429	28,389	16,430	29
176,696	7,950	361,095	133,921	43,712	113,782	4,344	41,260	150,523	35,252	30
194,886	5,532	411,089	88,081	30,166	88,903	2,991	10,442	129,496	35,845	31
118,672	11,566	289,157	89,801	89,335	56,159	1,284	5,002	102,076	27,520	32
-9.3	43.7	-12.2	52.0	44.9	28.0	45.2	295.1	16.2	-1.7	33
72,174	2,046	87,209	41,502	1,036	8,438	1,714	33,703	31,249	5,181	34
54,249	1,869	92,845	18,056	624	7,922	1,105	4,187	17,471	5,804	35
52.8	6.8	47.6	19.6	83.1	28.7	5.5	9.1	73.6	28.8	36
81.1	4.2	70.0	22.6	55.9	19.4	7.5	6.6	49.9	38.0	37
59.2	74.3	75.8	69.0	97.6	92.6	60.5	18.3	79.2	85.3	38
72.2	66.2	77.4	79.5	97.9	91.1	63.1	59.9	86.5	83.8	39
3,518,584	304,212	23,223,738	2,321,396	140,520	6,048,728	280,629	1,342,427	12,193,642	2,746,515	40
3,243,897	301,170	23,068,047	2,210,992	136,310	6,047,303	280,019	1,338,703	11,762,589	2,745,238	41
274,687	42	155,691	110,404	4,210	1,425	610	3,724	431,053	1,277	42
2,479,625	331,469	22,519,291	1,107,372	2,083,515	4,582,435	217,875	2,376,379	7,987,096	4,246,132	43
1,351,854	582,640	6,614,674	663,660	5,679,375	2,450,643	70,168	[2]1,190,790	6,501,903	1,162,774	44
41.9	-8.2	3.1	109.6	-93.3	32.0	28.8	-43.5	52.7	-35.3	45
19.91	38.27	64.31	17.33	3.21	53.16	64.60	32.54	81.01	77.91	46
12.72	59.92	54.78	12.57	69.07	51.54	72.84	227.58	61.68	118.46	47
11.39	50.38	22.96	7.39	63.57	43.64	54.65	238.06	63.70	42.25	48
33.66	51.53	84.79	25.12	3.29	57.42	106.70	177.64	102.23	91.33	49
3,520,459	315,977	23,702,821	2,530,588	141,920	6,065,592	285,789	1,432,322	12,207,623	2,770,904	50
2,483,496	352,319	23,583,521	1,123,872	2,083,515	4,826,590	233,375	[2]2,388,921	8,364,813	4,249,807	51
1,366,599	588,040	13,106,429	760,435	7,045,875	2,460,643	72,668	1,190,790	6,758,018	1,163,209	52
41.8	-10.3	0.5	125.2	-93.2	25.7	22.5	-40.0	45.9	-34.8	53
19.89	37.19	60.57	16.94	3.17	53.17	65.35	11.17	79.52	42.00	54
11.82	46.44	56.07	11.81	60.94	52.59	68.96	17.87	59.57	91.45	55
8.49	50.32	28.65	6.78	57.81	41.25	51.72	212.60	59.79	29.08	56
Primary Enterprises / Sup.			Primary Enterprises / Sup.		Primary Enterprises / Sup.			Primary Enterprises / Sup.				Primary Enterprises / Sup.		Primary Enterprises / Sup.		
1,005	100	82	386	58	326	2	48	903	21	120	34	997	10	66	7	57
104,184	5,504	5,772	273,553	5,062	85,975	([3])	38,840	104,151	2,003	2,303	7,335	113,497	694	29,978	341	58
536,689	34,541	30,449	653,766	42,640	37,649	([3])	10,067	671,865	14,535	15,987	27,746	802,346	4,014	128,075	2,898	59
5.15	6.28	5.28	2.39	8.42	0.44	([3])	0.26	6.45	7.26	6.94	3.78	7.07	5.78	4.27	8.50	60
3.73	.....	9.78	6.71	.....	0.26	.....	0.50	7.94	.....	9.03	11.25	10.62	.....	4.89	.....	61
33,098	.....	13,250	670,956	.....	21,596	15,540	3,661	17,170	.....	.....	26,646	539,585	882	116,523	.....	62
1.79	.....	4.66	2.75	.....	0.83	1.22	0.25	3.78	.....	.....	4.01	7.53	7.60	4.05	.....	63
22,068	.....	5,344	304,383	.....	32,365	12,687	14,643	4,611	.....	.....	191,989	74,093	116	82,865	.....	64
1.50	.....	2.48	2.20	.....	0.67	1.22	0.25	3.72	.....	.....	0.14	7.28	7.60	1.41	.....	65
27,261	.....	12,000	651,319	.....	7,112	15,400	4,466	13,241	.....	.....	33,162	370,900	883	48,321	.....	66
4,139	.....	62,000	17,477,608	.....	1,197,535	145,767	1,253	3,150	.....	.....	1,191,804	742,870	.....	521,906	.....	67
991	100	80	384	46	288	2	50	920	23	168	48	1,045	11	71	8	68
92,102	5,504	5,678	273,708	5,077	85,953	([3])	40,700	105,327	2,010	2,545	7,557	117,396	703	30,042	381	69
301,760	15,423	10,875	772,685	9,746	162,617	([3])	56,533	255,501	5,153	4,604	13,611	159,196	590	56,943	1,536	70
3.3	2.8	1.9	2.8	1.9	1.9	([3])	1.4	2.4	2.6	1.8	1.8	1.4	0.8	1.9	4.0	71
5.53	6.28	5.27	3.13	5.51	0.49	([3])	0.26	6.41	7.26	6.85	3.78	7.29	5.78	4.13	8.50	72
.....	.....	3	5	.....	6	.....	.....	89	.....	13	.....	50	.....	.....	.....	73
.....	.....	98	236,405	.....	27,618	.....	.....	9,811	.....	574	.....	23,711	.....	.....	.....	74
.....	.....	67	175,357	.....	15,195	.....	.....	9,115	.....	343	.....	21,698	.....	.....	.....	75
.....	.....	36	169,921	.....	21,791	.....	.....	5,870	.....	215	.....	5,882	.....	.....	.....	76
.....	.....	3	10,084	.....	230	.....	.....	1,185	.....	83	.....	714	.....	.....	.....	77

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

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

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

	ITEM (For definitions and explanations, see text)	Plumas	Riverside		Sacramento	San Benito		San Bernardino	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms....1940...number....	167	4,672		3,456	1,001		6,110	
2	1930...number....	178	4,746		3,882	1,077		7,062	
3	Irrigated farms....1940...number....	130	3,112		2,176	589		4,678	
4	1930...number....	119	3,779		2,613	572		6,148	
5	Increase or decrease (-), 1930-1940....percent....	9.2	-17.7		-16.7	3.0		-23.9	
	Operated by—								
6	(a) Owners and managers....1940...number....	117	2,746		1,760	482		4,406	
7	1930...number....	97	3,399		2,214	509		5,910	
8	(b) Tenants....1940...number....	13	366		416	107		272	
9	1930...number....	22	380		399	63		238	
10	Land in all farms....1940...acres....	160,513	631,742		431,379	698,056		714,584	
11	Land in irrigated farms....1940...acres....	145,510	358,198		240,908	122,582		171,610	
12	Average per farm....1940...acres....	1,119	115		111	208		37	
13	(a) Operated by owners and managers....1940...acres....	138,654	332,256		196,655	108,857		155,671	
14	Average per farm....1940...acres....	1,185	121		112	226		35	
15	(b) Operated by tenants....1940...acres....	6,856	25,942		44,253	13,725		15,939	
16	Average per farm....1940...acres....	527	71		106	128		59	
17	Approximate land area....1940...acres....	1,644,800	4,591,560		630,400	893,440		12,883,840	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated....1939...acres....	29,481	122,040		81,655	21,937		111,041	
19	(a) Cropland harvested....1939...acres....	14,887	119,164		75,391	21,748		107,140	
20	(b) Crop failure....1939...acres....	53	767		410	14		476	
21	(c) Pasture....1939...acres....	14,541	2,109		5,854	175		3,425	
22	Area irrigated....1929...acres....	16,774	135,617		98,667	20,237		108,482	
23	1919...acres....	22,852	106,212		72,960	12,468		105,306	
24	Increase or decrease (-), 1929-1939....percent....	75.8	-10.0		-17.2	8.4		2.4	
25	Irrigable area in enterprises....1940...acres....	35,939	244,580		156,118	46,707		153,105	
26	1930...acres....	24,776	255,215		141,045	25,749		159,020	
27	1920[1]..acres....	28,265	226,927		141,275	23,017		184,024	
28	Excess of irrigable area over the area irrigated..1940...acres....	6,458	122,540		74,463	24,770		42,064	
29	1930...acres....	8,002	119,598		42,378	5,512		50,538	
30	Area works were capable of supplying with water...1940...acres....	35,641	208,684		127,059	40,367		145,180	
31	1930...acres....	20,637	206,720		126,001	24,440		127,561	
32	1920...acres....	25,478	128,788		103,271	17,186		120,798	
33	Increase or decrease (-), 1930-1940....percent....	72.7	(2)		0.8	65.2		13.8	
34	Excess, capability of works over area irrigated...1940...acres....	6,160	84,644		45,404	18,430		34,199	
35	1930...acres....	3,863	71,103		27,334	4,203		19,082	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	20.3	34.1		33.9	17.9		64.7	
37	1929...percent....	17.0	32.7		28.0	13.4		45.3	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	82.7	59.0		64.3	54.3		76.5	
39	1929...percent....	81.3	65.6		78.3	82.8		85.0	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises....1940...dollars....	66,937	17,648,837		3,452,182	1,413,207		18,887,694	
41	(a) Cost of irrigation works and equipment....1940...dollars....	66,180	16,122,602		3,446,922	1,409,762		13,980,645	
42	(b) Investment in water rights (reported)....1940...dollars....	757	1,526,235		5,860	3,445		4,907,049	
43	Total investment in all enterprises....1930...dollars....	94,720	17,454,534		5,440,853	1,406,248		15,592,270	
44	1920...dollars....	226,717	12,473,520		3,810,695	754,861		8,738,603	
45	Increase or decrease (-), 1930-1940....percent....	-29.3	1.1		-36.6	0.5		21.1	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	1.88	85.39		27.17	35.01		130.10	
47	1930...dollars....	4.59	84.44		43.18	57.54		122.23	
48	1920...dollars....	8.90	96.85		36.90	43.92		72.34	
49	Average investment per acre irrigated....1939...dollars....	2.27	144.62		42.28	64.42		170.10	
50	Estimated final investment in existing enterprises..1940...dollars....	67,142	18,027,038		3,462,614	1,775,357		19,034,816	
51	1930...dollars....	94,720	18,460,584		5,602,672	1,423,808		16,373,415	
52	1920...dollars....	226,717	14,796,051		4,291,620	767,701		8,938,516	
53	Increase or decrease (-), 1930-1940....percent....	-29.1	-2.3		-38.2	24.7		16.3	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	1.87	73.71		22.18	38.01		124.33	
55	1930...dollars....	3.82	72.33		39.72	55.30		102.96	
56	1920[1]..dollars....	8.02	65.20		30.38	33.35		48.57	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number....	81	773	16	1,472	405	7	857	14
58	Area irrigated in these enterprises....1939...acres....	22,021	117,770	6,059	75,244	21,078	317	108,805	15,947
59	Cost of maintenance and operation....1939...dollars....	5,091	1,164,882	32,695	368,749	139,004	1,910	937,783	33,553
60	Average cost, per acre irrigated....1939...dollars....	0.23	9.89	5.40	4.90	6.59	6.03	8.62	2.10
61	1929...dollars....	0.50	15.75	.....	6.41	8.07	.....	15.45	.....
62	Total annual charges (reported)[3] [4]....1939...dollars....	502	739,971	23,355	74,135	20,636	.....	1,284,502	78,446
63	Average annual charge per acre irrigated....1939...dollars....	0.16	8.67	4.41	4.78	7.30	.....	16.34	5.15
64	Area against which charges were assessed....1939...acres....	3,166	92,304	5,296	33,595	20,749	.....	93,429	15,551
65	Average annual charge per acre assessed....1939...dollars....	0.16	8.02	4.41	2.21	0.99	.....	13.75	5.04
66	Total charges collected[3]....1939...dollars....	115	704,686	23,374	115,070	15,764	.....	771,671	77,465
67	Indebtedness to December 31 (reported)[4]....1939...dollars....	.....	2,648,102	12,371	377,248	.....	.....	2,565,785	312,322
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered....1939...number....	75	856	16	1,535	411	7	904	14
69	Area irrigated in these enterprises....1939...acres....	19,370	121,120	6,182	78,916	21,843	317	107,461	16,009
70	Water delivered in these enterprises....1939...acre-feet..	31,659	575,071	8,444	210,958	36,718	301	240,715	39,021
71	Average water delivered per acre irrigated....1939...acre-feet..	1.6	4.7	1.4	2.7	1.7	0.9	2.2	2.4
72	Average cost of water per acre irrigated....1939...dollars....	0.22	9.46	5.00	4.61	6.85	6.03	14.14	5.16
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage....1939...number....	3	15	.....	68	14	.....	17	.....
74	Irrigable area in these enterprises....1939...acres....	640	16,932	.....	40,982	1,129	.....	2,349	.....
75	Irrigated area in these enterprises....1939...acres....	640	1,814	.....	16,091	685	.....	1,281	.....
76	Area for which drains have been installed....1939...acres....	.....	1,297	.....	40,371	702	.....	1,181	.....
77	Additional area needing drainage....1939...acres....	45	10,026	.....	5	60	.....	124	.....

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

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

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

San Diego	San Francisco	San Joaquin	San Luis Obispo	San Mateo	Santa Barbara	Santa Clara	Santa Cruz	Shasta	Sierra	
5,814	91	5,575	1,916	829	1,339	5,608	1,712	1,229	86	1
3,902	112	5,730	1,923	841	1,408	6,237	1,855	1,213	92	2
3,920	83	4,444	373	386	682	3,432	464	885	65	3
2,415	59	4,368	373	403	551	3,708	317	809	54	4
62.3	40.7	1.7	.....	-4.2	23.8	-7.4	46.4	9.4	20.4	5
3,507	59	3,532	201	177	518	2,879	312	727	59	6
2,209	31	3,505	237	244	416	3,294	223	701	50	7
413	24	912	172	209	164	553	152	158	6	8
206	28	863	136	159	135	414	94	108	4	9
949,465	390	752,712	1,449,352	125,066	821,150	606,800	105,059	534,691	60,105	10
467,004	338	518,641	160,026	21,934	205,740	251,527	35,560	395,201	46,872	11
119	4	117	129	57	302	73	77	447	721	12
435,942	211	389,134	105,172	8,570	155,547	227,628	23,475	347,149	45,099	13
124	4	110	523	48	300	79	75	478	764	14
31,062	127	129,507	54,854	13,364	50,193	23,899	12,085	48,052	1,773	15
75	5	142	319	64	306	43	80	304	296	16
2,725,120	28,800	902,400	2,128,640	290,560	1,756,800	835,200	280,960	2,461,440	613,120	17
51,664	294	317,790	13,453	9,635	42,200	95,959	10,868	37,273	7,307	18
50,672	294	300,136	12,646	9,175	40,345	95,371	10,763	25,088	6,517	19
184	.....	164	120	443	489	182	54	112	5	20
808	.....	17,490	687	17	1,366	406	51	12,073	785	21
42,510	585	281,629	12,013	8,362	36,418	96,130	5,136	41,173	9,104	22
24,996	372	183,923	5,302	7,142	16,335	70,312	1,294	50,215	15,292	23
21.5	-49.7	12.8	12.0	15.2	15.9	-0.2	111.6	-9.5	-19.7	24
90,693	370	415,044	15,897	12,503	59,320	136,352	12,927	69,543	16,240	25
90,585	606	357,408	14,329	9,287	53,793	104,434	6,512	70,150	10,070	26
68,401	412	324,404	11,229	9,449	37,795	86,761	2,700	110,382	18,547	27
39,029	76	97,254	2,444	2,958	17,120	40,393	2,059	32,270	8,933	28
48,075	21	75,779	2,316	925	17,375	8,304	1,376	28,977	966	29
87,614	370	408,038	15,734	11,447	57,438	133,968	12,840	63,635	15,740	30
76,223	603	346,221	13,476	8,599	50,078	102,243	5,832	60,253	9,110	31
32,148	412	231,125	10,872	8,164	34,408	75,348	2,069	58,903	15,873	32
15.0	-38.6	17.9	16.8	33.1	14.7	31.0	120.2	5.6	72.8	33
35,980	76	90,248	2,281	1,812	15,238	38,009	1,972	26,362	8,433	34
33,713	18	64,592	1,463	237	13,660	6,113	696	19,080	6	35
11.1	87.0	61.3	8.4	43.9	20.5	38.2	30.6	9.4	15.6	36
10.0	84.8	65.2	5.4	25.5	21.3	47.6	29.4	10.6	17.1	37
58.9	79.5	77.9	85.5	84.2	73.5	71.6	84.6	58.6	46.4	38
55.8	97.0	81.3	89.1	97.2	72.7	94.0	88.1	68.3	99.9	39
20,289,919	56,177	14,771,795	789,432	892,727	4,129,250	8,347,290	669,730	2,491,232	50,444	40
20,167,886	56,153	14,723,444	785,947	889,844	4,093,831	8,336,818	668,780	2,477,281	50,295	41
122,063	24	48,351	3,485	2,883	35,419	10,472	950	13,951	149	42
12,451,607	112,075	12,927,594	1,027,917	975,360	6,943,723	8,379,870	405,568	2,462,686	25,000	43
4,918,939	70,831	7,432,763	304,119	488,856	1,418,022	4,361,803	368,145	3,020,700	100,810	44
63.0	-49.9	14.3	-23.2	-8.5	-40.5	-0.4	65.1	1.2	101.8	45
231.50	151.83	36.20	50.17	77.99	71.89	62.31	52.16	39.15	3.20	46
163.36	185.86	37.34	76.28	113.43	138.66	81.96	69.54	40.87	2.74	47
153.94	171.92	32.16	27.97	59.88	41.21	57.93	187.60	51.28	6.35	48
392.73	191.08	46.48	56.68	92.63	97.85	86.99	61.62	66.84	6.90	49
20,609,905	56,177	14,988,113	819,633	894,692	4,164,231	8,374,626	672,479	2,505,428	52,444	50
12,838,986	113,200	13,050,129	1,053,867	976,727	7,199,523	8,390,475	411,168	2,672,036	25,000	51
5,592,954	70,831	7,516,649	317,729	491,356	1,498,233	4,551,153	388,645	3,344,079	101,940	52
60.5	-50.4	14.9	-22.2	-8.4	-42.2	-0.2	63.6	-6.2	109.8	53
227.25	151.83	36.11	51.56	71.05	70.20	61.42	52.02	36.03	3.23	54
141.73	186.80	36.51	73.55	105.17	133.84	80.34	63.14	38.09	2.48	55
81.77	171.92	23.17	28.30	52.00	39.64	52.46	143.94	30.30	5.50	56
Primary Enterprises / Sup.		Primary Enterprises / Sup.			Primary Enterprises / Sup.	Primary Enterprises / Sup.		Primary Enterprises / Sup.		
1,394 / 70	67	2,436 / 25	295	241	557 / 6	2,119 / 3	286	345 / 7	28	57
50,279 / 16,320	271	254,039 / 1,550	12,822	8,846	41,298 / 286	94,476 / 569	10,683	35,602 / 46	7,161	58
478,362 / 53,419	6,133	1,005,049 / 5,952	91,967	93,740	324,081 / 1,862	788,638 / 3,794	77,218	70,059 / 140	2,275	59
9.51 / 3.27	22.63	3.96 / 3.84	7.17	10.60	7.85 / 6.51	8.35 / 6.67	7.23	1.97 / 3.04	0.32	60
15.15 /	21.32	3.82 /	11.44	12.72	11.71 /	10.84 /	20.37	1.95 /	0.31	61
506,962 / 33,472	.....	748,027 /	1,121	16,771	39,063 /	153,489 /	991	63,926 /	2,400	62
15.32 / 2.61	.....	5.98 /	5.84	7.51	17.72 /	9.63 /	1.77	5.48 /	0.40	63
57,609 / 12,814	.....	154,575 /	221	2,280	2,265 /	16,242 /	561	27,854 /	12,000	64
8.80 / 2.61	.....	4.84 /	5.07	7.36	17.25 /	9.45 /	1.77	2.30 /	0.20	65
519,395 / 209,636	.....	705,960 /	1,137	3,060	67,820 /	1,692 /	.....	39,688 /	600	66
3,476,532 / 904,500	.....	7,948,613 /	.....	.....	622,579 /	19,795 /	.....	934,200 /	.....	67
1,425 / 72	71	2,499 / 27	289	262	572 / 6	2,125 / 2	304	247 / 5	29	68
50,341 / 3,328	287	286,022 / 1,680	12,855	9,521	41,747 / 291	95,459 / (5)	10,788	27,564 / 32	1,227	69
70,741 / 2,356	339	784,019 / 3,295	33,186	17,077	89,600 / 512	128,800 / (5)	16,434	92,322 / 20	3,255	70
1.4 / 0.7	1.2	2.7 / 2.0	2.6	1.8	2.1 / 1.8	1.3 / (5)	1.5	3.3 / 0.6	2.7	71
13.40 / 4.32	21.75	5.09 / 3.84	7.13	11.39	8.21 / 5.25	8.78 / (5)	7.19	2.96 / 4.06	1.37	72
20 /	3	83 /	8	12	16 /	9 /	28	38 /	3	73
5,232 /	14	224,351 /	862	360	1,944 /	792 /	1,523	10,787 /	474	74
3,627 /	12	171,733 /	740	280	1,807 /	583 /	1,335	9,364 /	73	75
1,111 /	12	189,315 /	389	119	457 /	137 /	1,072	8,251 /	283	76
265 /	.....	7,063 /	185	10	26 /	14 /	.....	117 /	.....	77

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

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

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

	ITEM (For definitions and explanations, see text)	Siskiyou		Solano		Sonoma	Stanislaus	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	1,208		1,466		6,209	5,734	
2	1930...number....	1,155		1,479		6,562	5,743	
3	Irrigated farms....1940...number....	915		453		181	5,315	
4	1930...number....	744		339		247	5,172	
5	Increase or decrease (-), 1930-1940....percent....	23.0		33.6		-26.7	2.8	
	Operated by—							
6	(a) Owners and managers....1940...number....	732		344		155	4,319	
7	1930...number....	658		273		208	4,211	
8	(b) Tenants....1940...number....	183		109		26	996	
9	1930...number....	86		66		39	961	
10	Land in all farms....1940...acres....	699,496		520,263		700,077	689,461	
11	Land in irrigated farms....1940...acres....	589,742		250,065		51,768	470,158	
12	Average per farm....1940...acres....	645		552		286	88	
13	(a) Operated by owners and managers....1940...acres....	535,041		205,705		48,789	392,756	
14	Average per farm....1940...acres....	731		598		315	91	
15	(b) Operated by tenants....1940...acres....	54,701		44,360		2,980	77,402	
16	Average per farm....1940...acres....	299		407		115	78	
17	Approximate land area....1940...acres....	4,040,320		529,280		1,010,560	963,840	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	91,783		53,694		4,267	286,151	
19	(a) Cropland harvested....1939...acres....	61,640		45,583		3,961	257,814	
20	(b) Crop failure....1939...acres....	40		2,028		34	10	
21	(c) Pasture....1939...acres....	30,103		6,083		272	28,327	
22	Area irrigated....1929...acres....	58,655		30,370		2,530	241,712	
23	1919...acres....	65,602		23,650		2,126	197,249	
24	Increase or decrease (-), 1929-1939....percent....	56.5		76.8		68.7	18.4	
25	Irrigable area in enterprises....1940...acres....	119,922		83,467		5,026	335,745	
26	1930...acres....	123,016		36,642		3,595	355,721	
27	1920[2]...acres....	130,654		36,078		11,256	375,270	
28	Excess of irrigable area over the area irrigated..1940...acres....	28,139		29,773		759	49,594	
29	1930...acres....	64,361		6,272		1,065	114,009	
30	Area works were capable of supplying with water...1940...acres....	102,516		61,586		4,992	316,101	
31	1930...acres....	99,183		32,513		3,379	340,827	
32	1920...acres....	70,967		28,702		3,091	309,362	
33	Increase or decrease (-), 1930-1940....percent....	3.4		150.9		47.7	-7.3	
34	Excess, capability of works over area irrigated...1940...acres....	10,733		27,892		725	29,950	
35	1930...acres....	40,528		2,143		849	99,115	
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	15.6		21.5		8.2	60.9	
37	1929...percent....	14.1		24.7		3.5	56.4	
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	89.5		65.8		85.5	90.5	
39	1929...percent....	59.1		93.4		74.9	70.9	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	3,814,940		1,094,222		201,129	17,735,912	
41	(a) Cost of irrigation works and equipment....1940...dollars....	3,769,249		1,094,007		200,689	17,270,880	
42	(b) Investment in water rights (reported)....1940...dollars....	45,691		215		440	465,032	
43	Total investment in all enterprises....1930...dollars....	4,029,713		616,992		282,856	17,206,732	
44	1920...dollars....	1,589,073		535,348		107,314	9,639,519	
45	Increase or decrease (-), 1930-1940....percent....	-5.3		77.3		-2.89	3.1	
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	37.21		13.41		40.29	56.11	
47	1930...dollars....	40.63		18.98		83.71	50.49	
48	1920...dollars....	22.39		18.65		34.72	31.16	
49	Average investment per acre irrigated....1939...dollars....	41.56		20.38		47.14	61.98	
50	Estimated final investment in existing enterprises..1940...dollars....	3,959,061		1,143,532		211,053	19,717,590	
51	1930...dollars....	4,793,538		618,992		290,306	22,405,085	
52	1920...dollars....	1,814,803		560,348		125,064	17,006,504	
53	Increase or decrease (-), 1930-1940....percent....	-17.4		84.7		-27.3	-12.0	
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	33.01		13.70		41.99	58.73	
55	1930...dollars....	38.97		16.89		80.75	62.98	
56	1920[2]...dollars....	13.89		15.53		11.11	45.32	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental	Primary	Supplemental		Primary	Supplemental
		Enterprises		Enterprises			Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	454	6	417	[3] 1	138	85	30
58	Area irrigated in these enterprises....1939...acres....	79,970	1,912	50,026	2,217	4,004	266,007	5,022
59	Cost of maintenance and operation....1939...dollars....	86,752	1,351	141,267	509	27,826	810,985	12,769
60	Average cost, per acre irrigated....1939...dollars....	1.08	0.71	2.82	0.23	6.95	2.84	2.54
61	1929...dollars....	2.24	.....	4.00	.....	12.20	2.23	.....
62	Total annual charges (reported)[4] [5]....1939...dollars....	85,390	816	3,779	509	.....	848,006	.....
63	Average annual charge per acre irrigated....1939...dollars....	2.33	0.60	10.00	0.23	.....	3.08	.....
64	Area against which charges were assessed....1939...acres....	45,265	1,360	378	2,217	.....	330,359	.....
65	Average annual charge per acre assessed....1939...dollars....	1.89	0.60	10.00	0.23	.....	2.57	.....
66	Total charges collected[4]....1939...dollars....	53,391	.....	1,540	509	.....	1,013,779	.....
67	Indebtedness to December 31 (reported)[5]....1939...dollars....	4,354,323	30,658	22,048	.....	.....	9,425,634	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	279	4	435	[3] 1	144	85	25
69	Area irrigated in these enterprises....1939...acres....	69,399	1,672	53,518	2,217	4,168	286,025	4,099
70	Water delivered in these enterprises....1939...acre-feet..	136,226	3,410	160,012	2,217	7,368	813,837	7,893
71	Average water delivered per acre irrigated....1939...acre-feet..	2.0	2.0	3.0	1.0	1.8	2.8	1.7
72	Average cost of water per acre irrigated....1939...dollars....	1.70	0.54	2.85	0.23	6.90	3.12	2.52
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	27	.....	52	.....	5	16	.....
74	Irrigable area in these enterprises....1939...acres....	22,962	.....	55,806	.....	320	308,875	.....
75	Irrigated area in these enterprises....1939...acres....	20,493	.....	31,825	.....	184	262,336	.....
76	Area for which drains have been installed....1939...acres....	18,085	.....	48,880	.....	21	178,346	.....
77	Additional area needing drainage....1939...acres....	352	.....	5,000	.....	16	11,210	.....

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

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

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

Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba	All other counties[1]	
1,425	1,744	329	6,372	403	1,745	1,339	562	1,245	1
1,758	1,605	325	7,154	293	1,656	1,641	548	1,125	2
1,084	951	199	5,474	172	1,502	868	370	38	3
1,257	953	193	6,239	198	1,199	820	335	44	4
-13.8	2.9	3.1	-12.9	-13.1	8.6	5.9	10.4	-13.6	5
956	829	166	4,625	156	1,189	635	297	31	6
1,137	861	168	5,016	192	1,052	647	288	37	7
128	152	33	849	16	113	233	73	7	8
120	92	25	1,223	6	147	173	47	7	9
317,113	1,227,205	186,445	1,470,782	231,582	457,560	477,258	213,632	502,366	10
230,616	447,830	57,688	841,685	48,361	337,988	268,521	98,207	15,074	11
213	457	290	154	281	260	309	265	397	12
191,598	415,439	45,377	704,260	46,760	321,723	214,034	86,338	14,349	13
200	501	273	152	306	271	337	291	463	14
39,612	32,361	12,311	137,425	1,631	16,265	54,467	11,869	725	15
305	213	379	162	101	144	234	163	104	16
368,480	1,903,360	2,042,240	3,100,800	1,456,000	1,188,480	661,750	408,320	1,906,560	17
102,119	34,453	4,753	366,542	3,008	86,134	115,301	24,538	171	18
99,699	25,030	2,990	329,645	2,851	85,562	111,026	18,618	150	19
1,011	338	1	1,150	4	261	929	538	3	20
2,009	9,085	1,762	35,747	153	311	3,352	5,382	18	21
98,771	32,110	5,263	410,683	1,596	88,519	84,856	30,246	112	22
47,305	23,153	5,810	398,662	2,892	31,716	42,493	20,773	630	23
3.4	7.3	-9.7	-10.7	86.5	-2.7	35.9	-18.9	52.7	24
159,897	58,578	6,938	567,364	4,384	116,181	256,001	43,337	362	25
168,207	50,313	8,351	548,859	25,835	110,440	192,104	79,473	133	26
102,945	44,670	15,010	764,733	25,371	50,737	104,716	71,995	822	27
57,778	24,125	2,185	200,822	1,376	30,047	140,700	18,799	191	28
89,436	18,203	3,088	138,176	24,239	21,921	107,248	49,225	21	29
145,496	58,475	6,493	524,713	4,346	115,048	215,780	39,503	345	30
122,526	48,685	7,460	531,730	7,830	100,965	153,811	51,196	111	31
96,984	39,415	9,041	658,386	2,943	35,875	65,440	24,049	793	32
18.7	20.1	-13.0	-1.3	-44.5	13.9	40.3	-22.8	210.8	33
43,377	24,022	1,740	158,171	1,338	28,914	100,479	14,965	174	34
23,755	16,575	2,197	121,047	6,234	12,446	68,955	20,948	.....	35
44.3	7.7	8.2	43.5	6.2	25.5	42.9	25.0	1.1	36
53.3	8.1	11.3	64.7	1.2	34.1	39.6	20.6	1.6	37
70.2	58.9	73.2	69.9	69.2	74.9	53.4	62.1	49.6	38
80.6	66.0	70.5	77.2	20.4	87.7	55.2	59.1	.....	39
5,438,759	1,670,599	101,019	20,186,082	217,480	8,963,658	5,734,424	1,535,916	8,335	40
5,330,957	1,670,004	100,740	20,089,853	216,075	8,633,170	5,287,482	1,532,316	8,330	41
107,802	595	279	96,229	1,405	330,488	446,942	3,600	5	42
6,308,195	1,849,577	217,513	20,330,935	665,901	9,162,945	6,682,734	1,625,633	8,045	43
2,931,118	1,048,959	206,675	12,529,432	965,667	2,691,027	2,003,591	1,486,598	19,517	44
-13.8	-9.7	-53.6	-0.7	-67.3	-2.2	-14.2	-5.5	3.6	45
37.38	28.57	15.56	38.47	50.04	77.91	26.58	38.88	24.16	46
51.48	37.99	29.16	38.24	85.04	90.75	43.45	31.75	.....	47
30.22	26.61	22.88	19.03	328.12	75.01	30.62	61.62	.....	48
53.26	48.49	21.25	55.07	72.30	104.07	49.73	62.50	48.74	49
5,553,107	1,710,424	114,071	20,331,615	221,710	9,037,358	5,743,605	1,565,778	8,835	50
6,399,095	1,877,992	226,413	20,372,856	667,401	9,488,354	6,804,494	1,853,133	8,445	51
3,239,043	1,081,145	215,025	12,973,985	965,667	3,066,027	3,629,826	1,981,073	19,517	52
-13.2	-8.9	-49.6	-0.2	-66.8	-4.8	-15.6	-15.5	4.6	53
34.73	29.20	16.44	35.84	50.57	77.79	22.44	36.13	24.41	54
38.04	37.33	27.11	37.12	25.83	85.91	35.42	23.32	.....	55
31.46	24.20	14.33	16.97	38.06	60.43	34.66	27.52	.....	56
Primary / Sup. Enterprises			Primary / Sup. Enterprises			Primary / Sup. Enterprises		Primary / Sup. Enterprises	Primary / Sup. Enterprises		
737	447	10	140	3,057	1,514	42	582	21	535	26	145	5	18	57
97,541	33,689	366	4,423	358,299	86,374	2,926	84,738	4,432	109,782	22,369	24,194	253	124	58
514,371	134,901	1,136	11,081	2,327,985	416,964	15,043	641,163	57,730	403,144	8,926	74,874	595	530	59
5.27	4.00	3.11	2.51	6.50	4.83	5.14	7.57	13.03	3.67	0.40	3.09	2.35	4.27	60
4.76	4.39	.....	2.24	8.47	.....	20.69	10.12	.....	2.80	.....	4.64	.....	.....	61
230,439	67,134	.....	.....	769,712	12,320	14,000	274,641	27,752	76,498	4,820	67,912	.....	.....	62
3.81	3.29	.....	.....	4.68	8.80	5.60	9.44	18.27	2.83	0.23	4.05	.....	.....	63
77,740	33,323	.....	.....	261,319	15,400	2,500	30,317	1,519	32,207	20,526	22,531	.....	.....	64
2.96	2.01	.....	.....	2.95	0.80	5.60	9.06	18.27	2.38	0.23	3.01	.....	.....	65
211,752	60,814	.....	.....	339,841	667	.....	197,407	18,635	83,009	4,814	48,564	.....	.....	66
54,000	943,700	.....	.....	1,758,038	.....	.....	168,406	.....	852,065	.....	361,563	.....	.....	67
775	446	10	102	2,963	1,546	48	593	18	560	25	148	6	24	68
96,150	19,300	366	2,442	344,419	91,166	2,959	85,348	2,947	113,993	22,303	24,313	263	159	69
411,255	43,068	313	7,754	923,855	187,984	2,545	145,645	3,973	305,723	22,769	72,449	325	162	70
4.3	2.2	0.9	3.2	2.7	2.1	0.9	1.7	1.3	2.7	1.0	3.0	1.2	1.0	71
5.22	4.96	3.11	3.12	7.06	4.96	5.15	7.92	15.04	3.98	0.40	4.49	2.35	4.39	72
20	.....	.....	3	16	.....	1	63	.....	36	.....	1	.....	.....	73
97,611	.....	.....	96	93,300	.....	(6)	27,660	.....	87,588	.....	(6)	.....	.....	74
56,510	.....	.....	79	55,361	.....	(6)	15,764	.....	33,409	.....	(6)	.....	.....	75
85,453	.....	.....	9	785	.....	.....	20,457	.....	62,244	.....	(6)	.....	.....	76
4	.....	.....	21	42	.....	(6)	1,015	.....	868	.....	.....	.....	.....	77

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Alameda	Alpine	Amador	Butte	Calaveras	Colusa
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	2,166,452,648	42,482,171	497,500	4,789,934	29,531,486	5,359,159	20,675,982
2	Land and buildings, irrigated farms.....dollars..	1,591,824,377	17,287,348	497,500	1,401,725	20,941,122	1,260,742	12,850,404
	Operated by—							
3	(a) Owners and managers.....dollars..	1,336,867,338	13,121,403	497,500	1,330,845	18,329,450	1,211,742	10,290,541
4	(b) Tenants.....dollars..	254,957,039	4,165,945	.....	70,880	2,611,672	49,000	2,559,860
5	Average, land and buildings, per farm.....dollars..	18,880.61	25,460.01	38,269.23	27,484.80	13,960.75	10,868.47	32,125.01
6	per acre in farms.....dollars..	113.13	342.16	44.32	13.68	67.37	13.29	65.31
7	Buildings, irrigated farms reporting value.....number...	78,626	636	13	49	1,421	113	356
8	Total reported.....dollars..	250,220,347	2,820,148	72,750	193,490	4,012,598	365,086	1,712,028
9	Average, per irrigated farm reporting.....dollars..	3,182.41	4,434.19	5,596.15	3,948.78	2,823.78	3,230.85	4,809.07
10	per acre on all irrigated farms.....dollars..	17.78	55.82	6.48	1.89	12.91	3.85	8.70
11	Buildings, nonirrigated farms reporting value.....number...	46,019	1,706	.....	347	1,000	346	303
12	Total reported.....dollars..	129,487,709	5,534,346	.....	635,310	1,660,592	616,040	1,086,070
13	Average, per nonirrigated farm reporting.....dollars..	2,813.79	3,244.05	.....	1,830.86	1,660.59	1,780.46	3,584.31
14	per acre on all nonirrigated farms.....dollars..	7.87	27.96	.....	3.10	6.11	3.17	4.52
15	Implements and machinery, irrigated farms reporting value..number...	66,427	568	13	51	1,130	112	339
16	Total reported.....dollars..	99,181,718	1,138,971	26,500	79,689	1,677,641	67,931	1,188,277
17	Average, per irrigated farm reporting.....dollars..	1,493.09	2,005.23	2,038.46	1,562.53	1,484.64	606.53	3,505.24
18	per acre, on all irrigated farms.....dollars..	7.05	22.54	2.36	0.78	5.40	0.72	6.04
19	Implements and machinery, nonirrigated farms reporting value.....number...	35,025	1,305	.....	301	604	308	254
20	Total reported.....dollars..	33,155,391	1,195,742	.....	152,325	457,876	161,227	644,332
21	Average, per acre, on all nonirrigated farms.....dollars..	2.02	6.04	.....	0.74	1.68	0.57	2.68
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	[1]40,038	534	17	31	514	70	119
23	1930...number.....	[1]38,148	327	8	33	464	139	88
24	1920...number.....	24,115	264	15	35	197	140	99
25	Average size of enterprise based on irrigable area.....1940...acres.....	201	60	499	92	465	47	1,817
26	1930...acres.....	212	28	324	26	440	50	2,161
27	1920[2]...acres.....	324	63	468	31	627	301	398
28	Diversion dams.....1940...number.....	2,714	.....	39	11	40	35	7
29	Main canals and laterals.....1940...length, miles.....	19,799.1	25.4	46.0	39.3	630.9	104.1	397.4
30	1930...length, miles.....	18,602	1	10	74	460	166	396
31	1920...length, miles.....	27,384	31	21	94	252	378	378
32	1940...capacity, c.f.s.[3]....	91,776	17	164	90	3,614	695	1,481
33	1930...capacity, c.f.s.[3]....	84,944	30	25	84	3,289	310	1,799
34	1920...capacity, c.f.s.[3]....	115,237	23	52	53	2,751	466	2,695
35	Pipe lines[4].....1940...length, miles.....	22,690.2	204.0	1.5	6.1	127.6	10.2	4.0
36	Storage dams.....1940...number.....	709	2	10	9	9	13	1
37	Reservoirs.....1940...number.....	2,652	25	10	14	12	13	[5]1
38	1930...number.....	1,769	7	.....	4	5	18	1
39	1920...number.....	3,030	10	2	18	8	47	2
40	1940...capacity, acre-feet..	3,581,621	33	4,000	634	17,834	122,929	51,000
41	1930...capacity, acre-feet..	3,225,675	8,005	.....	3,010	17,622	32,514	51,000
42	1920...capacity, acre-feet..	1,091,394	1	4	196	30	10,935	51,000
43	Wells, flowing.....1940...number.....	436	.....	.....	.....	3	.....	.....
44	1930...number.....	449	3	.....	.....	.....	4	.....
45	1920...number.....	1,415	.....	.....	.....	.....	5	.....
46	1940...yield, g.p.m.....	34,767	.....	.....	.....	100	.....	.....
47	1930...yield, g.p.m.....	65,763	74	.....	.....	.....	58	.....
48	1920...yield, g.p.m.....	287,187	.....	.....	.....	.....	65	.....
49	Wells, pumped.....1940...number.....	48,568	699	.....	18	548	18	84
50	1930...number.....	46,737	451	.....	13	462	25	43
51	1920...number.....	25,401	382	.....	4	153	20	66
52	1940...yield, g.p.m.....	28,297,969	238,835	.....	14,250	446,641	1,480	112,043
53	1930...yield, g.p.m.....	24,266,167	105,362	.....	2,810	299,157	1,502	45,360
54	1920...yield, g.p.m.....	10,608,476	95,329	.....	150	53,890	1,205	48,735
55	Pumping plants.....1940...number.....	52,217	711	.....	23	618	23	148
56	1930...number.....	46,729	428	.....	16	490	55	93
57	1920...number.....	21,561	290	.....	9	157	32	103
58	Prime movers.....1940...capacity, hp.....	968,351	9,881	.....	359	11,364	136	7,492
59	1930...capacity, hp.....	820,767	4,374	.....	152	8,761	492	9,843
60	1920...capacity, hp.....	386,200	3,797	.....	34	2,863	234	6,931
61	Pumps.....1940...capacity, g.p.m.....	39,147,470	278,414	.....	18,360	752,272	3,530	905,530
62	1930...capacity, g.p.m.....	33,240,589	115,677	.....	6,214	362,497	7,572	947,395
63	1920...capacity, g.p.m.....	16,773,692	112,508	.....	1,890	113,096	7,986	528,610
64	Pumping lift, from all sources.....1940...average, feet.....	55	57	.....	22	31	51	42
65	1930...average, feet.....	53	86	.....	25	28	45	29
66	1920...average, feet.....	41	40	.....	32	24	41	25
67	from pumped wells.....1940...average, feet.....	57	57	.....	26	32	53	59
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	892	1	1	2	13	2	12
69	Irrigated area in these enterprises.....acres....	2,949,047	(6)	(6)	(6)	53,293	(6)	63,006
70	Wages and salaries paid and payable.....dollars..	4,901,580	(6)	(6)	(6)	128,791	(6)	65,887
71	Persons employed during week ending April 29.....number...	4,425	(6)	.....	(6)	96	(6)	66

* Census of Agriculture.

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

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

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

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

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

Contra Costa	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	Kings	Lake	Lassen	Los Angeles	
35,967,198	7,624,443	108,196,176	22,393,963	24,794,775	32,566,637	6,872,340	67,508,884	31,781,929	8,834,919	6,673,291	221,442,231	1
11,440,278	4,841,901	100,899,012	15,534,527	2,204,614	31,533,645	5,909,510	60,615,974	28,320,822	2,613,789	5,777,300	172,996,795	2
9,612,535	4,535,601	89,590,581	13,607,675	1,755,935	24,756,390	1,642,060	49,606,635	22,798,182	2,510,989	5,305,800	143,456,726	3
1,827,743	306,300	11,308,431	1,926,852	448,679	6,777,255	4,267,450	11,009,339	5,522,640	102,800	471,500	29,540,069	4
26,420.97	11,780.78	11,678.13	14,641.40	11,023.07	13,111.70	50,508.63	34,169.09	15,839.39	18,537.51	19,193.69	25,946.46	5
173.27	45.19	109.37	60.02	22.79	78.13	36.29	58.99	71.25	46.02	11.28	581.78	6
419	403	8,441	1,025	198	2,163	99	1,731	1,757	134	293	7,335	7
1,742,962	1,251,520	18,946,464	3,175,061	462,395	2,897,216	445,010	5,227,103	3,796,752	526,932	1,127,140	28,625,433	8
4,159.81	3,105.51	2,244.58	3,097.62	2,335.03	1,339.44	4,495.05	3,019.70	2,160.93	3,932.33	3,846.89	3,902.58	9
26.40	11.68	20.54	12.27	4.78	7.18	2.73	5.09	9.55	9.28	2.20	96.27	10
1,465	440	837	286	1,828	237	98	378	329	671	175	4,063	11
6,289,389	840,436	1,185,178	800,580	5,033,932	186,080	150,165	613,242	413,049	1,384,800	249,855	13,124,234	12
4,293.10	1,910.08	1,415.98	2,799.23	2,753.79	785.15	1,532.30	1,622.33	1,255.47	2,063.79	1,427.74	3,230.18	13
26.38	5.63	2.19	2.83	6.99	12.91	7.25	0.95	3.77	8.00	2.65	43.87	14
370	358	7,417	908	178	1,789	101	1,620	1,665	123	293	5,833	15
905,224	400,000	7,964,995	1,551,066	175,002	3,107,574	208,546	3,810,237	2,575,227	172,701	490,980	6,440,364	16
2,446.55	1,117.32	1,073.88	1,708.22	983.16	1,737.05	2,064.81	2,352.00	1,546.68	1,404.07	1,734.91	1,104.13	17
13.71	3.73	8.63	5.99	1.81	7.70	1.28	3.71	6.48	3.04	0.96	21.66	18
1,059	337	537	258	1,571	142	76	279	243	511	148	3,254	19
1,144,745	163,915	345,526	469,987	1,319,009	103,370	48,945	288,350	217,108	391,318	143,735	2,765,988	20
4.80	1.10	0.64	1.66	1.83	7.17	2.36	0.45	1.98	2.26	1.52	9.21	21
163	45	7,190	256	72	5	50	1,433	1,341	121	216	1,655	22
157	82	6,813	274	81	3	48	1,439	992	104	121	1,380	23
56	91	2,968	213	33	17	87	875	345	70	175	1,863	24
313	486	109	736	57	108,509	368	344	499	39	406	178	25
460	537	107	524	30	338,186	192	297	644	41	631	212	26
1,212	185	370	950	20	31,227	1,126	544	1,423	26	491	196	27
3	24	41	16	13	1	23	12	13	5	229	29	28
149.7	321.7	1,838.2	517.9	63.0	1,979.8	105.9	1,242.4	715.3	5.3	265.3	136.4	29
286	284	1,423	367	27	2,050	229	1,257	684	7	173	306	30
361	1,378	3,342	510	40	3,227	136	594	783	19	518	553	31
384	272	12,599	4,042	152	7,500	387	4,547	7,984	65	1,194	2,141	32
280	156	9,206	2,723	73	9,200	604	4,749	8,911	10	1,038	1,392	33
339	390	10,765	2,515	200	10,575	1,368	6,314	13,586	242	2,732	5,059	34
96.2	26.7	1,508.2	70.2	10.6	18.6	38.8	1,206.5	110.6	23.7	2.1	2,775.7	35
2	14	2	3	1	.....	1	83	3	3	36	22	36
9	13	8	[5]1	2	.....	4	644	9	4	42	338	37
2	11	46	6	6	.....	20	415	6	2	18	147	38
1	35	72	9	3	.....	18	536	20	9	31	411	39
20	11,826	2,514	50,200	([6])	.....	803	234,363	8,061	320,702	94,581	23,483	40
101	11,110	148	50,215	22	.....	44,619	209,794	27	422,000	49,331	101,000	41
5	19,966	141	8	6	.....	1,006	61,183	6,063	181	194,422	37,591	42
.....	.....	.....	1	.....	.....	.....	3	.....	2	9	10	43
.....	4	2	.....	.....	.....	9	19	.....	4	2	6	44
2	.....	59	.....	.....	.....	23	27	13	7	10	123	45
.....	.....	.....	([6])	.....	.....	.....	600	.....	([5])	120	3,629	46
.....	102	950	.....	.....	.....	295	1,475	.....	550	200	2,215	47
.....	.....	18,400	.....	.....	.....	537	17,643	2,180	950	233	41,336	48
181	10	9,058	279	21	1	3	2,172	1,792	133	29	2,118	49
162	9	8,658	295	14	.....	23	1,844	1,345	70	8	1,919	50
49	6	2,281	263	.....	1	9	983	498	17	4	2,223	51
38,231	985	5,346,337	255,558	13,650	([6])	3,160	1,645,637	1,220,107	49,635	12,157	1,180,953	52
46,800	740	4,782,984	200,228	7,060	.....	27,945	1,026,277	769,051	26,920	6,215	1,188,056	53
5,897	780	1,280,347	176,251	.....	900	4,088	415,412	202,967	5,545	1,305	1,131,797	54
227	14	9,255	325	33	4	4	2,208	1,839	147	39	2,262	55
196	24	8,557	315	31	.....	23	1,818	1,360	83	9	1,381	56
56	6	2,130	215	3	1	13	869	346	33	11	1,354	57
5,511	97	107,774	12,130	352	157	68	67,638	25,913	1,037	531	72,246	58
6,215	151	98,813	11,643	458	.....	1,261	36,893	19,603	713	247	64,622	59
3,236	15	32,361	9,214	36	38	137	12,504	5,225	241	93	45,752	60
466,450	2,787	5,758,112	1,875,898	19,025	28,300	3,260	1,637,796	1,303,681	59,955	31,842	1,297,372	61
362,421	3,230	4,866,219	1,751,668	14,904	.....	927,895	1,054,207	779,826	36,935	7,415	1,223,321	62
74,004	830	1,442,383	1,065,729	2,000	900	4,558	1,219,402	283,339	13,111	6,990	1,166,131	63
79	100	29	30	36	19	32	91	28	33	30	93	64
55	56	31	26	24	.....	53	67	37	23	27	86	65
44	37	22	23	11	70	24	53	23	18	22	60	66
92	137	29	31	35	([6])	36	91	28	33	33	93	67
3	4	23	7	[5]1	3	5	18	30	[5]1	6	147	68
20,792	6,005	402,380	85,337	1,008	422,789	3,903	119,384	256,903	.....	11,515	115,146	69
50,149	15,202	263,458	98,211	9,208	399,621	23,547	149,288	121,933	424	5,643	525,531	70
26	22	274	80	16	523	21	42	91	.....	11	473	71

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

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

	ITEM (For definitions and explanations, see text)	Madera	Mendocino	Merced	Modoc	Mono	Monterey	Napa
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	23,312,999	21,369,769	51,442,798	11,449,054	1,790,079	66,426,711	25,120,711
2	Land and buildings, irrigated farms.....dollars..	18,048,067	4,091,557	45,396,790	10,222,964	1,650,142	47,651,826	4,185,023
	Operated by—							
3	(a) Owners and managers.....dollars..	16,851,767	3,406,087	35,284,074	8,423,554	1,328,942	23,770,136	3,617,591
4	(b) Tenants.....dollars..	2,196,300	685,470	10,112,716	1,799,410	331,200	23,881,690	567,432
5	Average, land and buildings, per farm.....dollars..	15,887.38	25,256.52	13,286.16	19,216.10	21,014.46	45,210.46	20,217.50
6	per acre in farms.....dollars..	91.26	47.46	78.89	21.66	32.33	129.96	88.27
7	Buildings, irrigated farms reporting value.....number...	1,119	156	3,316	514	73	1,001	206
8	Total reported.....dollars..	2,823,048	1,006,474	8,115,460	1,594,181	252,242	4,810,358	1,396,293
9	Average, per irrigated farm reporting.....dollars..	2,522.83	6,451.76	2,447.36	3,101.52	3,455.37	4,805.55	6,778.12
10	per acre on all irrigated farms.....dollars..	14.27	11.67	14.10	3.38	4.91	13.12	20.45
11	Buildings, nonirrigated farms reporting value.....number...	389	1,633	333	144	10	912	1,520
12	Total reported.....dollars..	712,828	3,967,401	651,970	202,410	30,400	3,529,592	6,391,581
13	Average, per nonirrigated farm reporting.....dollars..	1,832.46	2,429.52	1,957.87	1,405.62	3,040.00	3,870.17	4,204.99
14	per acre on all nonirrigated farms.....dollars..	2.28	4.51	2.18	1.82	5.72	3.67	20.48
15	Implements and machinery, irrigated farms reporting value..number...	1,091	156	3,178	500	62	963	186
16	Total reported.....dollars..	1,636,543	307,695	3,826,825	880,372	102,415	3,549,963	365,434
17	Average, per irrigated farm reporting.....dollars..	1,500.04	1,972.40	1,204.16	1,760.74	1,651.85	3,686.36	1,964.70
18	per acre, on all irrigated farms.....dollars..	8.27	3.57	6.65	1.87	1.99	9.68	7.71
19	Implements and machinery, nonirrigated farms reporting value.....number...	318	1,238	285	123	6	781	1,294
20	Total reported.....dollars..	532,919	876,946	345,894	134,816	3,850	1,191,739	1,256,280
21	Average, per acre, on all nonirrigated farms.....dollars..	1.71	1.00	1.16	1.21	0.72	1.24	4.03
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	1,150	85	530	347	54	952	175
23	1930...number.....	1,108	99	616	334	42	632	97
24	1920...number.....	689	64	479	376	73	189	32
25	Average size of enterprise based on irrigable area.....1940...acres.....	154	100	738	431	829	120	25
26	1930...acres.....	190	77	683	285	814	145	35
27	1920[1]..acres.....	234	183	955	298	1,670	316	44
28	Diversion dams.....1940...number.....	4	5	13	416	49	15	5
29	Main canals and laterals.....1940...length, miles.....	182.0	13.0	2,150.0	442.8	163.0	37.3	2.0
30	1930...length, miles.....	221	38	1,634	404	131	212	6
31	1920...length, miles.....	189	378	1,236	753	237	206	1
32	1940...capacity, c.f.s.[2]....	1,226	87	2,703	2,121	2,484	146	122
33	1930...capacity, c.f.s.[2]....	2,731	47	8,026	1,607	619	776	40
34	1920...capacity, c.f.s.[2]....	2,066	86	3,972	3,078	1,526	528	20
35	Pipe lines[3].....1940...length, miles.....	153.4	34.2	240.9	8.9	2.8	791.0	79.7
36	Storage dams.....1940...number.....	1	2	4	60	6	1	9
37	Reservoirs.....1940...number.....	37	4	8	66	5	10	10
38	1930...number.....	13	2	36	40	6	14	8
39	1920...number.....	107	10	64	71	12	9	3
40	1940...capacity, acre-feet..	81	93	283,035	579,781	44,300	117	378
41	1930...capacity, acre-feet..	32	128	379,045	591,080	42,801	34	77
42	1920...capacity, acre-feet..	418	296	20,651	80,285	44,740	54	1
43	Wells, flowing.....1940...number.....	.....	.....	.....	114	2	.....	2
44	1930...number.....	.....	1	1	70	.....	.....	1
45	1920...number.....	8	.....	13	71	.....	1	1
46	1940...yield, g.p.m.....	.....	.....	.....	3,151	(4)	.....	(4)
47	1930...yield, g.p.m.....	.....	5	1,500	1,532	.....	.....	45
48	1920...yield, g.p.m.....	2,100	.....	3,212	5,607	.....	400	1,000
49	Wells, pumped.....1940...number.....	1,859	50	785	6	3	1,351	129
50	1930...number.....	1,459	44	813	3	12	1,176	70
51	1920...number.....	753	14	543	7	10	606	11
52	1940...yield, g.p.m.....	1,384,073	29,367	642,284	2,081	900	1,348,392	41,173
53	1930...yield, g.p.m.....	941,356	21,850	607,767	2,007	5,620	1,012,242	16,682
54	1920...yield, g.p.m.....	189,455	1,859	299,395	675	5,919	407,310	9,005
55	Pumping plants.....1940...number.....	1,891	110	880	14	3	1,320	197
56	1930...number.....	1,476	93	799	5	12	855	102
57	1920...number.....	701	39	539	11	9	200	31
58	Prime movers.....1940...capacity, hp.....	30,627	1,215	15,970	270	25	39,749	1,604
59	1930...capacity, hp.....	29,088	863	12,948	59	316	25,331	1,020
60	1920...capacity, hp.....	8,307	481	6,094	146	214	9,631	314
61	Pumps.....1940...capacity, g.p.m.....	1,398,168	74,199	851,245	39,044	900	1,379,350	68,915
62	1930...capacity, g.p.m.....	1,141,943	61,710	689,547	3,055	6,160	1,023,793	43,536
63	1920...capacity, g.p.m.....	396,483	18,424	349,580	3,250	5,919	406,617	21,126
64	Pumping lift, from all sources.....1940...average, feet.....	54	27	31	28	15	59	37
65	1930...average, feet.....	49	22	34	33	96	47	35
66	1920...average, feet.....	33	33	22	30	34	33	24
67	from pumped wells.....1940...average, feet.....	54	34	32	38	15	60	48
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[5]							
68	Enterprises reporting pay roll.....number...	3	2	8	14	1	6	.....
69	Irrigated area in these enterprises.....acres....	18,472	(4)	242,294	25,546	(4)	4,544	.....
70	Wages and salaries paid and payable.....dollars..	11,446	(4)	290,881	21,993	(4)	5,064	.....
71	Persons employed during week ending April 29.....number...	12	(4)	241	43	(4)	12	.....

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

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

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

Nevada	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	San Francisco	San Joaquin	San Luis Obispo	
3,250,032	131,224,245	12,224,957	2,756,019	63,385,967	43,549,790	20,078,389	86,507,485	64,763,677	1,752,099	104,917,721	34,559,738	1
2,338,719	122,805,100	8,117,042	2,441,340	53,059,052	31,925,483	11,825,555	75,280,520	48,265,894	1,641,885	91,813,796	8,967,002	2
2,060,919	109,757,859	7,272,442	2,295,240	49,652,399	25,151,568	9,992,975	72,270,188	44,308,929	1,397,850	71,726,104	5,129,872	3
277,800	13,047,241	844,600	146,100	3,406,653	6,773,915	1,832,580	3,010,332	3,956,965	244,035	20,087,692	3,837,130	4
7,693.15	22,566.17	8,900.27	18,779.54	17,049.62	14,671.64	20,077.34	16,092.46	12,312.73	19,781.75	20,660.17	24,040.22	5
28.15	757.62	77.78	16.78	148.13	132.52	96.47	438.67	103.35	4,857.65	177.03	56.03	6
289	4,212	901	125	2,831	2,137	573	3,935	3,702	79	4,287	357	7
751,005	12,728,992	2,945,219	619,090	8,438,263	6,989,605	1,975,820	13,493,607	10,792,349	609,086	13,433,068	1,123,288	8
2,598.63	3,022.08	2,602.91	4,952.72	2,980.67	3,270.76	3,448.20	3,429.13	2,915.28	7,709.95	3,133.44	3,146.46	9
9.04	78.53	22.47	4.25	23.56	29.01	16.12	78.63	23.11	1,802.03	25.90	7.02	10
180	567	523	33	1,469	1,240	401	1,267	1,824	7	1,063	1,459	11
309,200	1,307,510	979,565	98,200	2,516,872	3,309,951	1,173,103	3,618,086	3,686,410	22,064	2,332,019	3,891,935	12
1,717.78	2,306.01	1,872.97	2,975.76	1,713.32	2,669.32	2,925.44	2,855.63	2,021.06	3,152.00	2,193.81	2,667.54	13
9.96	24.29	8.87	6.55	9.10	17.38	2.04	6.66	7.64	424.31	9.96	3.02	14
278	2,581	785	119	2,186	1,831	545	2,393	2,522	70	3,848	333	15
204,870	3,160,313	574,447	172,053	2,654,081	2,628,705	962,160	2,412,543	2,204,096	80,745	6,695,852	753,011	16
736.94	1,224.45	731.78	1,445.82	1,214.13	1,435.67	1,765.43	1,008.17	873.95	1,153.50	1,737.49	2,261.29	17
2.47	19.50	5.50	1.18	7.41	10.91	7.85	14.06	4.72	238.89	12.89	4.71	18
155	292	377	28	959	929	375	695	1,101	7	885	1,175	19
64,142	304,177	260,549	20,234	811,573	755,496	506,893	594,489	844,563	7,500	852,153	1,908,652	20
2.07	5.65	2.36	1.35	2.93	3.97	0.88	1.09	1.75	144.23	3.64	1.48	21
49	1,117	81	122	982	1,575	428	996	1,638	78	2,565	316	22
94	1,035	53	116	1,034	2,083	383	936	776	50	2,572	328	23
96	1,012	64	102	807	1,159	217	622	637	33	1,233	128	24
2,618	137	814	295	249	99	109	154	55	5	162	50	25
1,422	136	877	214	247	68	67	170	117	12	139	44	26
58	112	625	277	281	123	106	296	107	12	263	88	27
42	6	21	190	36	2	37	34	40	.....	5	37	28
306.7	67.9	167.9	59.0	402.3	123.9	46.0	90.3	48.3	.....	759.7	8.1	29
401	64	342	91	510	242	25	118	72	.....	740	11	30
345	155	347	201	431	417	93	171	155	.....	1,977	20	31
338	260	1,755	545	1,322	1,702	97	864	434	.....	3,853	111	32
406	375	511	614	1,720	1,556	29	334	187	.....	3,413	8	33
454	780	657	1,369	2,649	1,937	264	1,291	1,653	.....	2,609	53	34
53.0	1,838.6	31.1	2.2	1,783.0	243.7	116.7	2,308.1	1,984.1	24.4	579.1	131.6	35
23	18	16	1	54	2	6	30	34	.....	.....	12	36
30	58	21	3	158	7	16	140	146	1	2	42	37
15	45	44	2	125	19	7	130	77	.....	8	26	38
25	27	17	1	201	7	19	99	134	.....	25	15	39
134,065	28,512	741,216	33	29,257	214	4,228	73,404	218,565	(4)	(4)	190	40
90,286	3,958	277,215	5,640	25,782	4,620	538	72,957	56,959	.....	92,546	111	41
50,021	1,044	10,112	240	113,996	698	5,996	1,399	22,142	.....	36,037	21	42
.....	1	.....	4	129	.....	2	106	4	.....	1	17	43
2	21	.....	.....	163	4	17	52	1	.....	2	20	44
3	365	.....	6	306	.....	4	124	5	1	3	19	45
.....	(4)	.....	150	12,108	.....	(4)	9,315	115	.....	(4)	2,060	46
270	1,240	.....	.....	21,397	1,400	4,000	13,186	10	.....	3,300	4,010	47
39	34,199	.....	476	69,110	.....	600	20,310	231	.....	180	3,608	48
1	1,368	41	5	1,288	1,793	479	1,156	1,912	62	3,072	303	49
8	1,377	21	2	1,471	2,344	444	1,107	1,319	58	3,037	363	50
5	1,151	31	.....	837	1,433	365	675	1,122	48	1,376	161	51
(4)	864,333	18,438	1,803	842,786	860,425	231,761	753,382	254,027	1,687	1,959,689	146,930	52
1,965	804,155	4,225	25	736,830	954,129	202,077	709,801	213,697	2,376	1,751,843	141,177	53
146	549,010	4,532	.....	378,010	480,229	104,860	400,293	147,860	1,725	630,697	35,862	54
7	1,411	73	8	1,418	2,111	488	1,196	1,939	65	3,408	363	55
16	1,321	40	3	1,361	2,701	410	1,100	996	60	3,212	367	56
8	1,002	44	2	628	1,465	183	583	651	48	1,371	119	57
85	49,997	599	112	30,513	22,655	9,767	53,781	13,635	182	49,494	4,943	58
69	40,961	249	11	30,492	26,202	7,892	43,075	9,013	286	44,440	4,992	59
38	24,495	276	170	15,473	17,283	4,009	20,120	5,190	154	18,987	1,692	60
3,334	918,533	29,079	4,225	846,097	1,468,598	253,596	860,053	297,563	1,637	3,427,855	175,030	61
3,160	837,770	6,875	175	932,097	1,651,959	226,727	731,627	223,812	3,306	2,528,498	199,611	62
464	604,759	8,131	9,000	404,046	788,172	114,360	423,835	161,517	1,807	997,850	63,519	63
54	83	35	30	71	36	76	94	62	92	33	45	64
44	70	44	25	60	34	71	90	58	98	32	37	65
31	51	29	10	58	28	34	82	52	83	28	25	66
(4)	84	35	36	72	38	78	94	62	92	35	52	67
1	78	5	1	68	7	13	145	24	.....	17	2	68
(4)	54,642	28,772	(4)	84,777	9,783	2,481	76,256	30,834	.....	120,024	(4)	69
(4)	167,557	111,395	(4)	290,879	27,451	11,017	220,509	208,451	.....	229,658	(4)	70
(4)	180	73	(4)	400	27	29	309	188	.....	218	(4)	71

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

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

	ITEM (For definitions and explanations, see text)	San Mateo	Santa Barbara	Santa Clara	Santa Cruz	Shasta	Sierra	Siskiyou
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	19,635,055	55,108,479	91,979,956	18,952,530	11,116,599	1,196,985	14,320,652
2	Land and buildings, irrigated farms.....dollars..	7,306,530	35,279,045	64,255,837	8,574,425	8,923,424	1,016,485	12,566,680
	Operated by—							
3	(a) Owners and managers.....dollars..	4,175,975	29,755,245	56,770,514	6,369,735	7,679,330	983,685	10,733,780
4	(b) Tenants.....dollars..	3,130,555	6,523,800	7,485,323	2,204,690	1,244,094	32,800	1,832,900
5	Average, land and buildings, per farm.....dollars..	18,928.83	53,195.08	18,722.56	18,479.36	10,082.96	15,638.23	13,734.08
6	per acre in farms.....dollars..	333.11	176.33	255.46	241.13	22.58	21.69	21.31
7	Buildings, irrigated farms reporting value.....number...	367	622	3,276	444	846	62	903
8	Total reported.....dollars..	1,863,705	5,321,692	11,488,661	1,403,610	1,941,750	264,600	2,662,020
9	Average, per irrigated farm reporting.....dollars..	5,078.22	8,555.77	3,506.92	3,161.28	2,295.21	4,267.74	2,947.97
10	per acre on all irrigated farms.....dollars..	84.97	25.87	45.68	39.47	4.91	5.65	4.51
11	Buildings, nonirrigated farms reporting value.....number...	421	612	2,077	1,215	326	20	286
12	Total reported.....dollars..	3,051,190	2,152,841	7,572,941	2,947,610	468,020	56,350	474,510
13	Average, per nonirrigated farm reporting.....dollars..	7,247.48	3,517.71	3,646.10	2,426.02	1,435.64	2,817.50	1,659.13
14	per acre on all nonirrigated farms.....dollars..	29.59	3.50	21.32	42.41	3.36	4.26	4.32
15	Implements and machinery, irrigated farms reporting value..number...	352	580	2,974	422	730	56	796
16	Total reported.....dollars..	540,114	1,697,041	4,605,776	739,973	570,590	87,126	1,207,004
17	Average, per irrigated farm reporting.....dollars..	1,534.41	2,925.93	1,548.68	1,753.49	781.63	1,555.82	1,516.34
18	per acre, on all irrigated farms.....dollars..	24.62	8.25	18.31	20.81	1.44	1.86	2.05
19	Implements and machinery, nonirrigated farms reporting value.....number...	406	528	1,657	995	262	16	209
20	Total reported.....dollars..	597,546	860,658	1,162,165	528,911	148,327	18,380	156,608
21	Average, per acre, on all nonirrigated farms.....dollars..	5.79	1.40	3.27	7.61	1.06	1.39	1.43
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	265	598	2,215	310	428	34	558
23	1930...number.....	353	516	2,207	182	402	16	383
24	1920...number.....	206	275	1,561	67	336	70	455
25	Average size of enterprise based on irrigable area.....1940...acres.....	48	99	62	42	162	478	215
26	1930...acres.....	26	104	47	36	175	629	321
27	1920[2]..acres.....	46	137	56	40	329	265	287
28	Diversion dams.....1940...number.....	23	13	40	28	259	37	442
29	Main canals and laterals.....1940...length, miles.....	38.1	9.0	31.6	23.2	648.3	21.2	785.1
30	1930...length, miles.....	6	36	27	3	432	14	632
31	1920...length, miles.....	7	38	51	2	701	95	959
32	1940...capacity, c.f.s.[3]....	170	59	338	80	2,161	140	1,878
33	1930...capacity, c.f.s.[3]....	149	96	242	1	1,910	103	2,630
34	1920...capacity, c.f.s.[3]....	13	312	328	7	3,970	282	4,255
35	Pipe lines[4].....1940...length, miles.....	144.4	654.3	657.7	124.9	32.5	5.2	42.1
36	Storage dams.....1940...number.....	36	21	7	13	18	1	22
37	Reservoirs.....1940...number.....	90	69	12	56	22	1	23
38	1930...number.....	44	43	18	5	10	3	8
39	1920...number.....	157	83	8	10	12	1	29
40	1940...capacity, acre-feet..	2,513	7,772	659	74	6,095	(5)	70,204
41	1930...capacity, acre-feet..	223	308	18	189	12,477	14	133,199
42	1920...capacity, acre-feet..	1,244	14,052	21	38	6,312	.....	4,591
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	7	.....	4
44	1930...number.....	2	7	6	.....	5	10	3
45	1920...number.....	17	33	80	1	3	.....	8
46	1940...yield, g.p.m.....	.....	.....	.....	.....	68	.....	47
47	1930...yield, g.p.m.....	9	2,294	1,166	.....	490	98	200
48	1920...yield, g.p.m.....	25,723	4,341	13,075	125	150	.....	1,350
49	Wells, pumped.....1940...number.....	256	736	2,503	295	38	1	51
50	1930...number.....	385	697	2,562	189	39	.....	14
51	1920...number.....	229	296	2,159	44	4	1	26
52	1940...yield, g.p.m.....	19,850	381,899	1,176,537	111,149	12,297	(5)	31,608
53	1930...yield, g.p.m.....	38,678	378,410	1,134,255	60,056	6,029	.....	22,802
54	1920...yield, g.p.m.....	27,009	101,925	649,247	11,076	1,340	500	9,995
55	Pumping plants.....1940...number.....	365	793	2,626	352	122	1	86
56	1930...number.....	463	630	2,516	213	108	.....	42
57	1920...number.....	251	235	1,572	59	51	1	45
58	Prime movers.....1940...capacity, hp.....	3,650	15,152	64,277	5,755	1,008	(5)	2,432
59	1930...capacity, hp.....	4,552	13,917	59,059	2,365	984	.....	3,281
60	1920...capacity, hp.....	2,219	5,657	33,721	685	594	.....	2,903
61	Pumps.....1940...capacity, g.p.m.....	42,267	419,502	1,258,183	131,569	116,470	(5)	151,613
62	1930...capacity, g.p.m.....	81,731	403,885	1,202,581	69,064	72,522	.....	250,081
63	1920...capacity, g.p.m.....	26,400	543,273	780,874	19,378	47,896	500	125,674
64	Pumping lift, from all sources.....1940...average, feet.....	106	91	104	77	18	(5)	37
65	1930...average, feet.....	100	80	100	72	18	.....	39
66	1920...average, feet.....	78	51	56	42	17	6	40
67	from pumped wells.....1940...average, feet.....	122	92	106	82	23	(5)	42
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	6	8	32	2	8	1	15
69	Irrigated area in these enterprises.....acres....	926	1,909	5,487	(5)	9,999	(5)	36,256
70	Wages and salaries paid and payable.....dollars..	3,108	6,960	10,323	(5)	17,048	(5)	36,805
71	Persons employed during week ending April 29.....number...	7	16	45	(5)	26	.....	62

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

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

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

Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba	All other counties[1]	
34,807,542	60,848,296	75,119,376	34,315,852	17,855,708	2,123,765	105,957,416	3,858,081	96,843,976	47,096,429	10,436,780	17,003,913	1
19,862,367	5,477,013	69,109,716	29,721,029	10,572,332	1,202,920	97,090,608	1,152,070	87,060,167	36,654,094	7,920,703	414,167	2
14,618,884	5,124,551	55,841,712	26,802,084	9,483,549	1,012,220	83,530,475	1,068,300	79,926,568	28,788,818	7,144,927	397,897	3
5,243,483	352,462	13,268,004	2,918,945	1,088,783	190,700	13,560,133	83,770	7,133,599	7,865,276	775,776	16,270	4
43,846.28	30,259.74	13,002.77	27,417.92	10,777.10	6,044.82	17,736.68	6,698.08	66,866.49	42,228.22	21,407.31	10,899.13	5
79.43	105.80	146.99	128.88	23.61	20.85	115.35	23.81	257.58	136.50	80.65	27.48	6
443	179	5,190	1,022	906	197	5,174	168	1,218	815	360	35	7
2,620,677	1,225,687	15,172,770	4,140,497	2,217,334	340,355	14,238,796	372,840	8,570,354	4,171,419	1,428,357	77,757	8
5,915.75	6,847.41	2,923.46	4,051.37	2,447.39	1,727.69	2,751.99	2,219.29	7,036.42	5,118.31	3,967.66	2,221.63	9
10.48	23.68	32.27	17.95	4.95	5.90	16.92	7.71	25.36	15.53	14.54	5.16	10
973	5,900	404	296	682	126	789	222	409	433	170	1,175	11
2,729,545	19,238,296	908,665	725,520	1,202,130	190,485	1,718,340	433,290	1,878,105	1,392,716	354,345	3,458,415	12
2,805.29	3,260.73	2,249.17	2,451.08	1,762.65	1,511.79	2,177.87	1,951.76	4,591.94	3,216.43	2,084.38	2,943.33	13
10.10	29.67	4.14	8.39	1.54	1.48	2.73	2.37	15.71	6.67	3.09	7.10	14
406	171	4,753	956	627	169	4,519	154	1,125	792	328	32	15
1,348,795	380,060	5,217,141	2,552,248	742,498	89,795	6,883,211	101,562	3,648,460	3,018,981	573,586	34,706	16
3,322.16	2,222.57	1,097.65	2,669.72	1,184.21	531.33	1,523.17	659.49	3,243.08	3,811.84	1,748.74	1,084.56	17
5.39	7.34	11.10	11.07	1.66	1.56	8.18	2.10	10.79	11.24	5.84	2.30	18
696	4,495	317	275	474	89	551	185	279	379	137	867	19
930,332	3,382,510	376,714	366,193	376,459	45,726	586,709	109,167	405,198	738,745	151,438	927,242	20
3.44	5.22	1.72	4.23	0.48	0.36	0.93	0.60	3.39	3.54	1.32	1.90	21
446	152	127	799	495	189	4,874	50	636	601	163	26	22
314	234	81	1,008	482	185	5,545	85	607	411	175	21	23
251	93	106	487	333	222	3,570	53	130	254	78	13	24
187	33	2,644	200	118	37	116	88	183	426	266	14	25
117	15	4,392	167	104	45	99	304	182	467	454	6	26
144	121	3,540	211	134	68	214	479	390	412	923	63	27
1	9	5	4	56	144	85	24	20	2	14	10	28
203.1	4.2	1,972.9	401.1	300.6	179.9	945.1	51.5	28.7	274.4	218.3	8.0	29
8	.....	935	468	264	172	933	134	65	437	374	.....	30
80	2	1,681	282	419	260	2,022	193	72	294	293	3	31
1,448	82	5,743	1,967	1,004	598	3,800	779	164	3,316	519	32	32
27	.....	5,341	1,116	689	772	3,003	79	116	1,726	1,066	.....	33
111	6	6,150	1,168	1,111	1,536	8,018	251	169	1,641	786	6	34
44.1	30.1	403.9	213.3	158.9	6.8	2,011.0	6.2	1,383.9	80.3	39.5	3.3	35
4	3	6	.....	2	2	63	3	11	1	1	2	36
6	6	8	1	4	5	358	5	68	1	2	2	37
4	6	15	.....	3	6	198	20	44	3	7	1	38
4	4	4	4	14	41	527	15	23	3	9	4	39
1,508	56	112,557	(5)	82	4	3,669	289,019	443	(5)	(5)	(5)	40
8	80	421,763	.....	123	35	4,318	6,583	323	116	1,570	1	41
.....	.....	75,156	2	185	90,458	112,806	5,086	2,749	151	6,651	3	42
.....	.....	5	.....	1	.....	.....	5	4	.....	.....	.....	43
.....	.....	4	.....	1	.....	.....	1	2	.....	.....	.....	44
4	1	1	2	.....	.....	23	.....	42	.....	.....	1	45
.....	.....	1,125	.....	(5)	.....	.....	16	490	.....	.....	.....	46
.....	.....	3,375	.....	25	.....	.....	112	185	.....	.....	.....	47
.....	.....	400	800	.....	.....	7,173	.....	11,435	.....	.....	.....	48
494	138	224	1,162	558	2	7,603	3	838	648	198	3	49
356	210	176	1,425	521	2	8,066	10	824	540	239	13	50
322	78	100	742	281	5	4,515	2	149	285	49	7	51
235,233	68,684	253,546	747,491	223,128	(5)	3,750,828	190	602,832	736,357	182,065	315	52
154,261	73,166	216,418	857,617	255,961	150	3,277,594	693	564,417	405,118	153,486	763	53
145,982	28,381	84,205	319,535	96,585	605	1,776,335	25	86,734	166,698	30,551	308	54
642	197	376	1,279	586	7	7,797	6	970	1,018	208	4	55
411	237	185	1,478	541	8	7,964	19	823	536	232	15	56
281	96	114	628	261	12	3,758	4	105	276	41	4	57
8,722	2,054	14,720	22,568	5,303	43	116,717	35	30,848	23,718	3,373	12	58
5,381	1,885	11,181	24,329	4,995	150	98,590	84	28,589	15,992	3,800	85	59
4,547	614	4,803	10,541	2,190	69	45,032	12	5,592	8,852	2,365	19	60
769,529	105,264	845,316	1,711,239	251,621	3,477	3,932,777	2,090	676,789	1,965,963	222,425	815	61
335,762	99,904	400,616	1,730,400	263,013	8,425	3,310,741	3,148	587,253	1,423,790	212,908	1,558	62
199,892	33,524	232,785	826,630	105,285	3,990	2,331,179	25	94,130	549,814	29,852	325	63
50	34	40	33	34	14	62	40	95	30	31	49	64
46	41	33	26	31	25	65	20	97	30	30	.....	65
34	19	31	21	27	15	43	36	82	26	24	.....	66
56	36	57	34	34	(5)	62	57	95	39	31	30	67
3	.....	8	8	10	.....	64	2	36	8	7	.....	68
378	.....	275,163	58,871	19,966	.....	155,804	(5)	28,869	26,985	16,788	.....	69
322	.....	425,921	91,241	25,709	.....	168,301	(5)	67,646	29,848	17,424	.....	70
2	.....	301	74	37	.....	191	(5)	90	24	19	.....	71

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

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

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	*66,538,880	66,341,120	66,341,120	66,341,120	66,341,120	66,341,120	66,341,120
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	51,436	63,644	59,856	59,934	46,170	24,700	16,389
Land in all farms....acres....	31,527,240	29,978,472	28,876,171	24,462,014	13,532,113	9,474,588	4,598,941
Farms irrigated:[1]							
Farms....number...	29,766	30,321	31,288	28,756	25,857	17,613	9,659
Increase or decrease (-) over preceding census....percent..	[2] -4.9	.....	8.8	11.2	46.8	82.3	.....
Proportion of all farms....percent..	57.9	47.6	52.2	48.0	56.0	71.3	58.9
Land in farms....acres....	12,522,458	(3)	10,390,299	(3)	(3)	(3)	(3)
Proportion of all farm land....percent..	39.7	(3)	36.0	(3)	(3)	(3)	(3)
Area irrigated....acres....	[4] 2,467,548	[5] 1,882,888	[6] 2,291,927	(7)	(7)	1,611,271	890,735
Increase or decrease (-) over preceding census....percent..	[2] 7.7	.....	.....	.....	.....	80.9	.....
Proportion of total land area of State....percent..	3.7	2.8	3.5	.....	.....	2.4	1.3
Proportion of all farm land....percent..	7.8	6.3	7.9	.....	.....	17.0	19.4
Value of irrigated farms (land and buildings)....dollars..	268,377,191	(3)	386,063,889	(3)	(3)	(3)	(3)
Average per farm....dollars..	9,016.23	(3)	12,338.72	(3)	(3)	(3)	(3)
Average per acre....dollars..	21.43	(3)	37.16	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8]....dollars..	25,650,123	(3)	28,127,021	(3)	(3)	(3)	(3)
Average per farm[8]....dollars..	861.73	(3)	898.97	(3)	(3)	(3)	(3)
Average per acre[8]....dollars..	2.05	(3)	2.71	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	8,713	(3)	6,509	6,634	9,065	(3)	(3)
Farms irrigated....number...	41,228	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated....acres....	3,220,685	(3)	3,393,619	3,348,385	2,792,032	(3)	(3)
Area existing works were capable of supplying with water....acres....	3,913,542	(3)	4,078,712	3,855,348	3,990,166	(3)	(3)
Area irrigable....acres....	4,283,250	(3)	4,528,251	[9] 5,220,588	[9] 5,917,457	(3)	(3)
Additional area existing works were capable of supplying with water....acres....	692,857	(3)	685,093	506,963	1,198,134	(3)	(3)
Additional irrigable area in enterprises not supplied with water....acres....	1,062,565	(3)	1,134,632	[9] 1,872,203	[9] 3,125,425	(3)	(3)
Investment in irrigation enterprises....dollars..	106,849,343	(3)	87,603,240	88,302,442	56,636,443	11,758,703	6,368,755
Increase or decrease (-) over preceding census....percent..	[2] 22.0	(3)	-0.8	55.9	381.7	84.6	.....
Average per acre based on area works were capable of supplying with water....dollars..	27.30	(3)	21.48	22.90	14.19	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] 27.1	(3)	-6.2	61.4	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	109,808,466	(3)	91,845,804	95,198,423	76,443,239	(3)	(3)
Average per acre based on irrigable area in enterprises....dollars..	25.64	(3)	20.28	[9] 18.24	[9] 12.92	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	0.81	(3)	0.85	0.87	0.75	(3)	(3)

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

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

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

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—			Quantity delivered per acre[1]	Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost		Per acre	Per acre-foot
	Number	Acres	Acres	Acres	Acres	Acres	Percent	Acres	Acres	Acres	Acre-feet	Dollars	Dollars
Total	8,713	4,283,250	3,913,542	3,220,685	3,393,619	3,348,385	-5.1	3,039,354	3,119,691	2,968,361	2.6	1.10	0.43
Primary sources:													
Streams, gravity	5,185	3,995,460	3,649,834	3,010,172	3,138,966	3,028,787	-4.1	2,858,389	2,939,261	2,796,338	2.4	0.85	0.36
Streams, pumped	68	10,649	8,351	4,691	27,765	12,747	-83.1	2,906	4,388	2,668	1.7	2.13	1.23
Streams, gravity and pumped	23	46,834	36,246	24,334	2,828	9,430	760.5	24,232	24,296	24,194	3.7	2.49	0.66
Wells, pumped	911	80,090	76,587	56,771	12,143	10,114	367.5	56,252	55,993	55,946	2.4	3.86	1.64
Wells, flowing	124	6,506	6,506	6,256	3,786	4,191	65.2	6,052	2,035	2,005	1.7	0.73	0.44
Wells, pumped and flowing	4	902	902	482	.....	85	.....	482	370	370	1.6	0.33	0.21
Lakes, gravity	24	5,686	5,823	5,025	9,857	2,867	-49.0	4,461	4,975	4,411	2.9	0.68	0.23
Lakes, pumped	4	148	138	134	405	871	-66.9	134	134	134	2.6	4.37	1.68
Springs	293	16,258	14,748	12,826	10,606	10,856	20.9	12,046	11,295	10,710	2.8	0.61	0.22
Springs and streams	61	20,574	19,141	16,856	.....	.....	.....	16,131	16,269	15,807	2.8	0.28	0.10
Stored storm water	69	7,226	6,765	4,299	5,675	16,909	-24.2	3,396	3,875	3,011	1.5	0.60	0.41
City water	5	69	53	53	85	11	-37.6	52	48	48	0.9	2.40	2.67
Sewage	1	(2)	(2)	(2)	220	195	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Streams, gravity; wells, pumped	44	18,948	16,486	15,046	8,956	16,258	68.0	11,826	14,895	11,805	3.1	1.82	0.58
Streams, gravity; wells, flowing	21	42,780	42,780	39,094	8,700	67,880	349.4	19,414	19,301	19,301	0.7	0.58	0.80
Streams, pumped; wells, pumped	1	(3)	(3)	(3)	.....	.....	.....	(3)	(3)	(3)	(3)	(3)	(3)
Waste water, seepage or drainage	152	2 9,443	2 9,021	2 7,124	.....	.....	.....	2 6,219	2 5,830	2 5,059	2 2.8	2 0.56	2 0.20
Other mixed	94	3 21,477	3 20,161	3 17,522	158,539	165,825	3 -88.9	3 17,262	3 16,726	3 16,554	3 2.1	3 1.03	3 0.49
Other and not reported	.....	.....	.....	.....	5,088	1,359	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[4]													
Streams, gravity and/or storage	271	606,585	594,754	510,133	.....	.....	.....	472,111	470,922	455,714	0.6	0.41	0.72
Streams, pumped	23	11,624	11,603	8,892	527	.....	(5)	8,844	8,755	8,755	4.1	3.72	0.92
Wells, pumped	1,291	128,503	126,120	104,309	1,343	.....	(5)	104,140	103,738	103,669	1.9	3.05	1.62
Wells, flowing	44	5,875	5,755	4,681	.....	.....	.....	3,205	3,587	2,161	0.4	0.07	0.19

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	INVESTMENT							COST OF MAINTENANCE AND OPERATION[1]						
	1940			1930			Average per acre increase or decrease (-) 1930-40	1939		1929		Average per acre increase or decrease (-) 1930-40	1919	
	Amount	Proportion of total	Average per acre[2]	Amount	Proportion of total	Average per acre[2]		Irrigated area reporting	Average per acre	Irrigated area reporting	Average per acre		Irrigated area reporting	Average per acre
	Dollars	Percent	Dollars	Dollars	Percent	Dollars	Dollars	Acres	Dollars	Acres	Dollars	Dollars	Acres	Dollars
Total	106,849,343	100.0	27.30	87,603,240	100.0	21.48	5.82	3,128,787	0.81	3,235,629	0.85	-0.04	3,030,771	0.87
Primary sources:														
Streams, gravity	85,543,712	80.1	23.44	78,971,382	90.1	20.90	2.54	2,948,272	0.56	2,989,051	0.82	-0.26	2,729,530	0.82
Streams, pumped	142,190	0.1	17.03	5,451,389	6.2	112.79	-95.76	4,406	1.79	27,348	3.89	-2.10	11,617	9.49
Streams, gravity and pumped	3,270,498	3.1	90.23	90,360	0.1	29.80	60.43	24,296	3.29	2,828	2.72	0.57	9,430	2.34
Wells, pumped	1,300,983	1.2	16.99	474,053	0.5	30.86	-13.67	56,002	3.87	11,403	5.36	-1.49	9,350	4.54
Wells, flowing	85,501	0.1	13.14	55,900	0.1	12.20	0.94	2,035	0.72	3,781	0.26	0.46	3,847	0.52
Wells, pumped and flowing	11,630	(3)	12.89	.....	.....	.....	.....	370	0.33	.....	.....	.....	85	4.78
Lakes, gravity	259,453	0.2	44.56	184,943	0.2	17.45	27.11	4,975	0.74	8,506	0.89	-0.15	1,751	1.14
Lakes, pumped	1,575	(3)	11.41	13,100	(3)	31.95	-20.54	134	4.37	401	3.21	1.16	801	3.21
Springs	121,388	0.1	8.23	153,808	0.2	11.67	-3.44	11,295	0.62	8,839	1.06	-0.44	7,695	1.20
Springs and streams	240,685	0.2	12.57	.....	.....	.....	.....	16,289	0.22	.....	.....	.....	.....	.....
Stored storm water	128,817	0.1	19.04	274,852	0.3	25.32	-6.28	3,875	0.59	5,517	0.79	-0.20	14,948	1.25
City water	1,465	(3)	27.64	5,200	(3)	61.18	-33.54	48	2.40	83	12.08	-9.68	11	1.82
Sewage	(4)	(4)	(4)	2,050	(3)	7.32	(4)	(4)	(4)	220	0.55	(4)	95	0.71
Streams, gravity; wells, pumped	209,737	0.2	12.72	212,058	0.2	22.53	-9.81	14,895	1.80	8,956	1.74	0.06	15,913	0.75
Streams, gravity; wells, flowing	967,674	0.9	22.62	241,271	0.3	14.83	7.79	19,301	0.58	8,700	4.80	-4.22	67,880	0.59
Streams, pumped; wells, pumped	(5)	(5)	(5)	.....	.....	.....	.....	(5)	(5)	.....	.....	.....	.....	.....
Waste water, seepage or drainage	4 113,223	4 0.1	4 12.65	.....	.....	.....	.....	4 5,868	4 0.57	.....	.....	.....	.....	.....
Other mixed	5 472,591	5 0.4	5 23.44	1,257,588	1.4	7.70	5 15.74	5 16,726	5 1.03	155,729	0.26	5 0.77	156,697	1.07
Other and not reported	.....	.....	.....	92,936	0.1	18.41	.....	.....	.....	4,167	0.89	.....	1,121	1.69
Supplemental sources:[6]														
Streams, gravity and/or storage	11,046,432	10.3	18.57	.....	.....	.....	.....	492,418	0.28	.....	.....	.....	.....	.....
Streams, pumped	956,433	0.9	82.43	67,000	0.1	123.62	-41.19	8,755	4.84	527	6.15	-1.31	.....	.....
Wells, pumped	1,947,019	1.8	15.44	55,350	0.1	24.83	-9.39	103,738	3.06	1,160	5.17	-2.11	.....	.....
Wells, flowing	26,337	(5)	4.82	.....	.....	.....	.....	3,587	0.10	.....	.....	.....	.....	.....

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

State Table 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

Item and type of enterprise (For definitions and explanations, see text)	Census of— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED					
Total	*Acres* 3,220,685	*Acres* 628,015	*Acres* 3,393,619	*Acres* 3,348,385	*Percent* -5.1
Individual and partnership	907,754	133,143	969,708	1,014,412	-6.4
Cooperative, incorporated	1,795,814	[2] 427,098	1,789,909	1,789,385	8.8
Cooperative, unincorporated	151,956	6,119			
Irrigation district	186,925	.....	230,400	248,409	-18.9
Commercial	66,699	48,581	286,846	212,138	-76.7
Bureau of Reclamation[3] *	83,137	13,074	81,883	[4] 71,145	1.5
Office of Indian Affairs[3]	6,875	.....	4,813	4,266	42.8
State	.....	([2])	.....	80	.....
City and/or sewage	21,068	.....	26,700	5,825	-21.1
Other	457	.....	3,360	2,725	-86.4
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	3,913,542	738,232	4,078,712	3,855,348	-4.0
Individual and partnership	1,110,597	166,538	1,194,132	1,194,422	-7.0
Cooperative, incorporated	2,112,655	[2] 459,265	2,065,779	1,993,361	11.7
Cooperative, unincorporated	194,625	7,522			
Irrigation district	233,841	35,000	344,153	269,504	-32.1
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	97,801	53,581	311,873	226,641	-68.6
Bureau of Reclamation[3] *	121,746	16,336	116,034	[4] 135,265	4.9
Office of Indian Affairs[3]	7,200	.....	15,681	14,900	-54.1
State	.....	([2])	.....	80	.....
City and/or sewage	[2] 34,467	.....	26,700	5,825	29.1
Other	610	.....	4,360	15,350	-86.0
IRRIGABLE AREA[5]					
Total	4,283,250	752,587	4,528,251	5,220,588	-5.4
Individual and partnership	1,170,148	174,383	1,334,545	1,790,635	-12.3
Cooperative, incorporated	2,302,380	[2] 461,765	2,314,837	2,419,267	8.0
Cooperative, unincorporated	198,721	7,522			
Irrigation district	305,486	35,000	383,051	504,973	-20.2
Commercial	103,576	57,581	319,473	358,243	-67.6
Bureau of Reclamation[3] *	150,871	16,336	126,154	[4] 150,515	19.6
Office of Indian Affairs[3]	16,966	.....	15,681	16,100	8.2
State	.....	([2])	.....	80	.....
City and/or sewage	34,492	.....	30,150	6,425	14.4
Other	610	.....	4,360	34,350	-86.0

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

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

Type of enterprise (For definitions and explanations, see text)	Enterprises: Total	Enterprises: Serving 5 or more farms	Areas: Irrigable	Areas: Works were capable of supplying with water	Average cost: Primary enterprises: Works and equipment per acre[2]	Average cost: Primary enterprises: Maintenance and operation per acre[3]	Average cost: Supplemental enterprises: Works and equipment per acre[2]	Average cost: Supplemental enterprises: Maintenance and operation per acre[3]	Area irrigated, 1939[1]: Farms served	Area irrigated, 1939[1]: Total area	Area irrigated, 1939[1]: Cropland: From which crops were harvested	Area irrigated, 1939[1]: Cropland: On which crops failed	Area irrigated, 1939[1]: Irrigated pasture
Total	*Number* 8,713	*Number* 944	*Acres* 4,283,250	*Acres* 3,913,542	*Dollars* 22.57	*Dollars* 0.65	*Dollars* 18.32	*Dollars* 0.82	*Number* 41,228	*Acres* 3,220,685	*Acres* 2,796,075	*Acres* 73,844	*Acres* 350,766
Individual and partnership	7,865	194	1,170,148	1,110,597	7.48	0.68	14.89	2.54	8,592	907,754	713,585	18,941	175,228
Cooperative, incorporated	500	475	2,302,380	2,112,655	22.36	0.53	[4] 17.78	0.23	22,936	1,795,814	1,637,376	38,084	120,354
Cooperative, unincorporated	251	204	198,721	194,625	5.62	0.27	11.51	0.22	2,153	151,956	115,135	1,917	34,904
Irrigation district	21	21	305,486	233,841	58.59	1.00	8.27	.....	2,564	186,925	172,167	10,485	4,273
Commercial	53	34	103,576	97,801	44.84	1.28	21.07	0.54	1,579	66,699	61,786	1,086	3,827
U. S. Bureau of Reclamation*	5	5	150,871	121,746	96.22	1.89	74.27	4.45	2,240	83,137	74,385	200	8,552
U. S. Office of Indian Affairs	[5] 1	1	16,966	7,200	98.75	2.09	.....	.....	149	6,875	3,744	87	3,044
State	1	1	.....	.....	.....	.....	([4])	.....	.....	.....	.....	.....	.....
City and/or sewage	12	9	34,492	34,467	33.99	1.93	.....	.....	1,011	21,068	17,475	3,014	573
Other	4	.....	610	610	5.74	2.96	.....	.....	4	457	422	30	5

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

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

Type of enterprise (For definitions and explanations, see text)	Total investment, to January 1, 1940: Total	1940: Primary enterprises	1940: Supplemental enterprises	1940: Total cost of works and equipment	1940: Investment in water rights	1930	1920	Increase or decrease (-) 1930-40	Average investment per acre works were capable of supplying water: Primary enterprises	Average investment per acre works were capable of supplying water: Supplemental enterprises	Capital expenditures during 1939[1]	Estimated investment required to complete works
Total	*Dollars* 106,849,343	*Dollars* 92,871,122	*Dollars* 13,978,221	*Dollars* 101,848,751	*Dollars* 5,000,592	*Dollars* 87,603,240	*Dollars* 88,302,442	*Percent* 22.0	*Dollars* 23.73	*Dollars* 18.93	*Dollars* 928,667	*Dollars* 2,959,123
Individual and partnership	11,348,304	8,829,100	2,519,204	10,782,796	565,508	10,815,909	11,599,883	4.9	7.95	15.13	4,046	517,557
Cooperative, incorporated	[2] 57,614,846	49,041,375	[2] 8,573,471	[2] 55,405,708	2,209,138	45,651,717	42,911,035	28.8	23.21	[2] 18.67	235,298	869,750
Cooperative, unincorporated	1,214,947	1,126,874	88,073	1,181,013	33,934				5.79	11.71	9,498	20,880
Irrigation district	15,621,957	15,332,373	289,584	13,989,959	1,631,998	12,657,718	16,269,026	23.4	65.57	8.27	390,446	225,000
Commercial	6,228,398	4,933,743	1,294,655	5,674,819	553,579	5,624,989	5,711,887	10.7	50.45	24.16	12,303	10,250
U. S. Bureau of Reclamation*	12,028,239	11,715,005	1,213,234	12,928,239	.....	11,551,307	10,253,231	11.9	96.22	74.27	220,021	595,536
U. S. Office of Indian Affairs	711,032	711,032	.....	711,032	.....	225,025	220,979	216.0	98.75	.....	46,889	720,000
State	([2])	.....	([2])	([2])	.....	.....	3,994	.....	.....	([2])	.....	.....
City and/or sewage	1,177,965	1,177,965	.....	1,171,685	6,280	498,575	117,665	136.3	34.18	.....	10,166	.....
Other	3,655	3,655	.....	3,500	155	578,000	1,214,742	-99.4	5.99	.....	.....	150

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[5]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	207	2,182,747	1,967,944	22,810,607	13.12	12.88	20	1,699,096	1,637,538	6.61	3,098,782	2,491,161	2,293,876
Partnership	2	(6)	(6)	(6)	(6)	(6)	.....	.....	.....	.....	100,335	30,328	9,997
Cooperative, incorporated	165	1,600,985	1,505,448	8,947,155	7.21	6.73	6	326,700	341,873	15.49	2,312,518	1,760,713	1,685,867
Cooperative, unincorporated	8	6 23,608	6 23,608	6 11,615	6 0.42	6 0.49	1	2,000	1,925	.....	142,893	52,985	24,360
Irrigation district	14	289,945	218,500	2,358,201	6.97	11.95	7	876,273	891,669	6.61	273,071	251,133	261,773
Commercial	13	87,805	78,870	397,581	5.15	4.83	3	242,296	238,296	6.78	123,649	137,154	85,139
Bureau of Reclamation[7] *	4	163,438	134,318	8 11,093,457	104.51	83.06	3	8 251,827	8 163,775	2.56	107,845	193,598	169,862
Office of Indian Affairs[7]	9 1	16,966	7,200	10 2,598	0.35	0.36	.....	.....	.....	.....	7,439	2,635	2,680
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31,032	62,615	44,198
Other	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

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

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

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
	Diversion	Storage	Capacity at main heading	Length[1]: Earth	Length[1]: Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Prime movers: Number	Prime movers: Rated capacity	Pumps: Number	Pumps: Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	4,792	1,015	139,780	19,707	157.0	1,071	2,071,522	245.1	886	54,859	2,878	1,929,798	2,806	49,157	2,919	2,263,375
Individual and partnership	4,107	607	39,574	9,572	91.4	646	62,219	97.8	883	53,959	2,841	1,905,573	2,752	44,804	2,761	2,116,410
Cooperative, incorporated	389	[3] 342	79,866	6,858	24.7	[3] 352	[3] 1,300,028	10.9	....	.....	16	5,155	25	1,508	25	48,529
Cooperative, unincorporated	213	14	5,010	890	4.2	17	7,470	6.9	....	.....	17	14,520	17	355	17	15,620
Irrigation district	17	17	6,620	914	5.8	18	345,047	0.8	....	.....	.....	.....	3	30	3	3,000
Commercial	41	29	3,358	484	6.1	30	243,874	69.1	3	900	1	1,700	1	25	1	1,700
Bureau of Reclamation[4]	10	2	3,620	742	18.9	2	110,814	19.0	....	.....	.....	.....	5	2,375	5	75,566
Office of Indian Affairs[4]	4	.....	350	85	1.5	.....	.....	0.6	....	.....	.....	.....	.....	.....	.....	.....
State	.....	(3)	.....	.....	.....	(3)	(3)	.....	....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	11	1	868	156	1.3	3	1,979	10.0	....	.....	.....	.....	.....	.....	.....	.....
Other	.....	3	14	6	0.1	3	91	.....	....	.....	3	2,550	3	60	3	2,550

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

State Table 11.—DAMS, BY MATERIAL: 1940 AND 1930

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

[1] Principally temporary dams, replaced annually.

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

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

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

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

[2] Number of pumping plants.

State Table 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

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

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

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

[3] Percent not shown

BUREAU OF RECLAMATION AREAS AND INVESTMENT

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

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

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

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

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

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	238	301	420
Area irrigable in these enterprises.....acres...	687,246	1,018,260	[1] 1,526,311
Area irrigated in these enterprises.....acres...	466,804	([2])	([2])
Area for which drains have been installed..acres...	119,286	215,600	113,899
Additional area needing drainage.....acres...	35,792	148,693	220,711
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage..percent..	25.6	[3] 21.2	[1] 7.5
(b) All irrigation enterprises.....percent..	3.7	6.4	3.4
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting.....percent..	22.6	35.8	[1] 21.9
(b) Irrigated area reporting.....percent..	33.2	([2])	([2])

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

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

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED[1]			NOT MEASURED		
	1939	1929[1]	1919[1]	1939	1929	1919	1939	1929[1]	1919[1]
PRIMARY ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	5,508,935	5,863,140	13,877,292	4,618,024	3,786,028	4,848,103	890,911	2,077,112	9,029,189
Area irrigated by these enterprises.....acres.....	2,237,327	2,103,937	2,446,702	1,929,547	1,562,291	1,752,587	307,780	541,646	691,115
Average water per acre irrigated.....acre-feet..	2.5	2.8	5.7	2.4	2.4	2.8	2.9	3.8	13.0
Total water delivered to irrigators.....acre-feet..	7,083,593	1,840,805	3,233,531	3,113,469	1,699,100	1,832,530	3,970,124	141,705	1,401,001
Area irrigated by these enterprises.....acres.....	2,961,117	1,001,425	1,504,593	2,006,987	933,468	1,089,659	954,130	67,957	414,934
Average water per acre irrigated.....acre-feet..	2.4	1.8	2.1	1.6	1.8	1.7	4.2	2.1	3.4
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	174,598	.....	.....	584	.....	.....	174,014	.....	.....
Area irrigated by these enterprises.....acres.....	78,237	.....	.....	449	.....	.....	77,788	.....	.....
Average water per acre irrigated.....acre-feet..	2.2	.....	.....	1.3	.....	.....	2.2	.....	.....
SUPPLEMENTAL ENTERPRISES									
From surface sources reported:									
Total water entering canals.....acre-feet..	275,502	.....	.....	186,958	.....	.....	88,544	.....	.....
Area irrigated by these enterprises.....acres.....	352,958	.....	.....	252,600	.....	.....	100,358	.....	.....
Average water per acre irrigated.....acre-feet..	0.8	.....	.....	0.7	.....	.....	0.9	.....	.....
Total water delivered to irrigators.....acre-feet..	302,118	.....	.....	167,841	.....	.....	134,277	.....	.....
Area irrigated by these enterprises.....acres.....	480,955	.....	.....	248,407	.....	.....	232,548	.....	.....
Average water per acre irrigated.....acre-feet..	0.6	.....	.....	0.7	.....	.....	0.6	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	198,149	.....	.....	.....	.....	.....	198,149	.....	.....
Area irrigated by these enterprises.....acres.....	107,345	.....	.....	.....	.....	.....	107,345	.....	.....
Average water per acre irrigated.....acre-feet..	1.8	.....	.....	.....	.....	.....	1.8	.....	.....

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

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

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

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

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

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS					
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 farms and more
1	Enterprises, 1940 ... number	7,084	252	5,000	985	609	165	73
2	Irrigated farms, 1939 ... number	41,228	.....	5,000	2,419	5,971	7,869	19,969
3	Area irrigated, 1939 ... acres	3,220,685	.....	595,627	233,858	522,860	664,814	1,203,526
4	(a) From which crops were harvested ... acres	2,798,075	.....	454,566	188,103	425,241	597,135	1,131,030
5	(b) On which crops failed ... acres	73,844	.....	13,485	4,074	15,255	17,396	23,634
6	(c) Irrigated pasture ... acres	350,766	.....	127,576	41,681	82,364	50,283	48,862
	CAPITAL INVESTMENT, 1940							
7	Total capital investment in all enterprises ... dollars	92,871,122	3,597,667	6,347,413	2,308,061	8,420,524	12,156,666	60,040,791
8	(a) Cost of irrigation works and equipment ... dollars	88,326,799	2,316,917	5,988,422	2,172,738	8,006,416	11,778,633	58,063,673
9	(b) Investment in water rights ... dollars	4,544,323	1,280,750	358,991	135,323	414,108	378,033	1,977,118
10	Area works were capable of supplying with water ... acres	3,913,542	45,148	709,510	287,136	652,752	756,235	1,462,761
11	Average investment per acre irrigated ... dollars	28.84	.....	10.66	9.87	16.10	18.29	49.99
12	Average investment per acre which the works could supply with water ... dollars	23.73	79.69	8.95	8.04	12.90	16.08	41.05
	MAINTENANCE AND OPERATION, AND CHARGES, 1939							
13	Enterprises reporting maintenance and operation ... number	6,345	167	4,452	913	578	162	73
14	(a) Area irrigated in these enterprises ... acres	3,128,787	.....	536,502	221,905	503,800	663,054	1,203,526
15	(b) Cost of maintenance and operation ... dollars	2,035,680	33,192	433,554	115,831	199,316	281,627	972,160
16	(c) Average cost per irrigated acre reporting ... dollars	0.65	.....	0.81	0.52	0.40	0.42	0.81
17	Total annual charges[2] ... dollars	2,278,099	8,771	60	1,043	265,606	517,216	1,485,403
18	Average charge per irrigated acre reporting ... dollars	0.96	.....	0.09	0.45	0.53	0.78	1.23
19	Area against which charges were assessed ... acres	2,637,673	13,700	670	2,310	539,816	802,866	1,278,311
20	Average annual charge per acre assessed ... dollars	0.86	0.64	0.09	0.45	0.49	0.64	1.16
21	Total charges collected[2] ... dollars	2,077,506	8,215	68,734	752	153,539	341,256	1,504,990
	INDEBTEDNESS AND ARREARAGE, 1939							
22	Enterprises reporting indebtedness[3] ... number	182	6	.....	.....	57	68	51
23	(a) Area irrigated in these enterprises ... acres	1,341,131	.....	.....	.....	85,574	260,859	994,698
24	(b) Indebtedness ... dollars	20,851,011	765,759	.....	.....	1,214,921	1,508,357	17,361,974
25	(c) Average indebtedness per acre irrigated ... dollars	15.55	.....	.....	.....	14.20	5.78	17.45
26	(d) Cost of irrigation works and equipment ... dollars	64,074,943	1,204,410	.....	.....	3,168,868	6,641,165	53,060,500
27	(e) Investment in water rights ... dollars	3,128,628	1,251,098	.....	.....	152,637	294,758	1,430,135
28	(f) Total investment ... dollars	67,203,571	2,455,508	.....	.....	3,321,505	6,935,923	54,490,635
29	(g) Maintenance and operation ... dollars	1,104,716	22,321	.....	.....	66,640	171,163	844,592
30	(h) Total annual charges[2] ... dollars	1,691,808	2,587	.....	.....	76,439	328,684	1,284,098
31	(i) Total charges collected[2] ... dollars	1,719,926	70,660	.....	.....	86,720	226,562	1,355,984
32	(j) Area against which annual charges were assessed ... acres	1,533,252	5,320	.....	.....	92,270	322,462	1,113,200
33	(k) Average indebtedness per acre assessed ... dollars	13.12	6.50	.....	.....	13.17	4.67	15.60
34	(l) Average charges per acre assessed ... dollars	1.10	0.49	.....	.....	0.83	1.02	1.15
35	(m) Average charges per acre irrigated ... dollars	1.26	.....	.....	.....	0.89	1.26	1.29
36	Enterprises reporting arrearage[3] ... number	17	2	.....	.....	5	5	5
37	(a) Area assessed in these enterprises ... acres	258,899	.....	.....	.....	4,367	81,770	172,762
38	(b) Total arrearage ... dollars	1,636,240	(4)	.....	.....	370,021	665,224	420,267
39	(c) Average arrearage per acre assessed ... dollars	5.61	.....	.....	.....	84.73	8.11	2.43
40	(d) Indebtedness ... dollars	13,012,967	(4)	.....	.....	989,280	733,116	10,639,369
	TYPE, 1940							
41	Individual and partnership ... number	6,308	231	4,958	937	180	2	.....
42	Cooperative (incorporated and unincorporated) ... number	693	15	26	40	412	145	55
43	Irrigation district ... number	20	4	.....	.....	4	3	9
44	Commercial ... number	44	2	10	7	9	13	3
45	U. S. Bureau of Reclamation ... number	[5]2	.....	.....	.....	.....	.....	2
46	U. S. Office of Indian Affairs ... number	[5]1	.....	.....	.....	.....	.....	1
47	All other ... number	16	.....	6	1	4	2	3
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939							
48	Enterprises reporting pay roll ... number	645	3	3	4	407	160	68
49	Wages and salaries paid and payable for 1939 ... dollars	1,061,194	4,030	10,976	141	110,253	178,721	757,073
50	Persons employed during week ending April 29, 1939 ... number	2,922	2	29	9	1,009	644	1,229
	SOURCE OF WATER SUPPLY, 1939							
51	Streams, gravity ... number	5,185	169	3,349	846	593	160	68
52	Streams, pumped ... number	68	7	57	1	2	1	.....
53	Wells, pumped ... number	911	33	820	58	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing ... number	128	1	126	1	.....	.....	.....
55	Lakes, gravity or pumped ... number	28	2	20	4	2	.....	.....
56	Streams and springs; or springs ... number	354	15	309	24	4	2	.....
57	Mixed, streams and wells ... number	89	10	65	7	3	.....	4
58	Other mixed or stored storm water ... number	321	15	254	44	5	2	1

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

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

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

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

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
252	3,996	1,568	995	210	63	6,264	484	239	84	13	1
.....	4,853	3,166	8,720	8,658	15,831	10,569	3,735	7,807	12,921	6,196	2
.....	145,769	258,114	683,415	726,815	1,406,572	838,007	405,594	557,218	828,288	591,578	3
.....	122,251	215,570	552,846	599,953	1,305,455	674,156	323,190	475,622	762,996	560,111	4
.....	5,274	7,303	15,551	18,850	26,866	18,840	10,764	15,167	20,798	8,275	5
.....	18,244	35,241	115,018	108,012	74,251	145,011	71,640	66,429	44,494	23,192	6
3,597,667	2,968,134	3,293,000	10,174,105	13,187,806	59,650,410	5,904,319	3,819,033	8,556,545	31,333,703	43,257,522	7
2,316,917	2,770,406	3,087,219	9,800,960	12,024,984	58,326,313	5,464,353	3,593,653	8,296,884	27,917,979	43,053,930	8
1,280,750	197,728	205,781	373,145	1,162,822	1,324,097	439,966	225,380	259,661	3,415,724	203,592	9
45,148	222,347	326,092	815,416	820,280	1,684,259	1,047,039	465,155	673,940	968,416	758,992	10
.....	20.36	12.76	14.89	18.14	42.41	7.05	9.42	15.36	37.83	73.12	11
79.69	13.35	10.10	12.48	16.08	35.42	5.64	8.21	12.70	32.36	56.99	12
167	3,513	1,459	938	205	63	5,548	469	231	84	13	13
.....	131,210	240,230	646,320	704,455	1,406,572	754,325	401,472	553,124	828,288	591,578	14
33,192	216,346	202,656	313,388	383,579	886,519	467,520	185,244	317,169	578,413	487,334	15
.....	1.65	0.84	0.48	0.54	0.63	0.62	0.46	0.57	0.70	0.82	16
8,771	2,057	18,178	261,776	500,865	1,486,452	66,334	152,568	388,106	840,444	830,647	17
.....	1.36	0.74	0.74	0.83	1.08	0.34	0.62	0.77	1.02	1.40	18
13,700	2,529	28,223	390,974	626,586	1,575,661	206,830	268,859	560,694	934,662	666,628	19
0.64	0.81	0.64	0.67	0.80	0.94	0.32	0.57	0.69	0.90	1.25	20
8,215	70,004	12,275	185,594	379,867	1,421,551	34,487	75,735	310,595	787,814	868,875	21
6	.....	4	59	68	45	11	28	72	59	12	22
.....	.....	660	57,859	278,836	1,003,776	13,234	42,111	242,363	576,974	466,449	23
765,759	.....	37,850	1,197,432	1,257,175	17,592,795	5,271	49,370	754,700	5,069,522	14,972,148	24
.....	.....	57.35	20.70	4.51	17.53	0.40	1.17	3.11	8.79	32.10	25
1,204,410	.....	166,000	3,019,503	7,501,748	52,183,282	26,935	256,441	3,140,596	19,810,806	40,840,165	26
1,251,098	.....	43,000	131,270	646,163	1,057,097	7,100	5,833	119,512	2,792,591	203,592	27
2,455,508	.....	209,000	3,150,773	8,147,911	53,240,379	34,035	262,274	3,260,108	22,603,397	41,043,757	28
22,321	.....	2,215	65,356	241,446	773,378	3,827	27,198	160,751	443,184	409,756	29
2,587	.....	653	87,844	316,623	1,284,101	5,756	40,977	219,930	611,915	813,230	30
70,660	.....	2,600	76,476	283,127	1,287,063	4,732	27,682	196,696	638,427	852,389	31
5,320	.....	526	67,223	290,720	1,169,463	14,696	50,430	275,636	650,991	541,499	32
6.50	.....	68.16	16.82	4.26	15.04	0.36	0.98	2.06	6.94	27.65	33
0.49	.....	1.24	1.31	1.09	1.10	0.39	0.81	0.80	0.94	1.50	34
.....	.....	1.42	1.44	1.14	1.28	0.43	0.97	0.91	1.06	1.74	35
2	.....	1	5	1	8	.....	1	4	8	4	36
.....	.....	.....	4,367	(4)	248,742	.....	13,943		87,694	157,262	37
(4)	.....	(4)	370,021	(4)	1,083,191	.....	100,821		1,116,052	419,267	38
.....	.....	.....	84.73	(4)	4.35	.....	0.07		11.78	2.67	39
(4)	.....	(4)	989,280	(4)	11,370,185	.....	105,380		2,491,218	10,416,369	40
231	3,927	1,475	627	46	2	5,949	311	48	.....	.....	41
15	49	88	343	150	48	286	160	180	59	8	42
4	.....	.....	5	2	9	3	2	2	11	2	43
2	16	1	13	11	1	18	9	5	11	1	44
.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2	45
.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	46
.....	4	4	7	.....	1	8	2	4	2	.....	47
3	15	74	334	159	60	225	155	173	79	13	48
4,030	11,819	9,932	125,064	228,867	681,482	28,443	50,394	169,581	377,801	434,975	49
2	30	144	1,042	770	934	517	487	536	761	621	50
169	2,531	1,300	930	194	61	4,450	422	221	80	12	51
7	53	7	1	.....	.....	62	3	3	.....	.....	52
33	699	161	18	.....	.....	878	32	1	.....	.....	53
1	113	7	7	.....	.....	126	2	.....	.....	.....	54
2	16	6	4	.....	.....	23	3	1	1	.....	55
15	296	29	11	3	.....	344	4	6	.....	.....	56
10	36	21	10	10	2	76	7	3	2	1	57
15	252	37	14	3	.....	306	11	4	1	.....	58

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
91	985	450	64	22	17	1,513	64	30	22	1
.....	1,083	570	503	797	3,062	2,172	232	875	2,736	2
.....	40,591	71,901	35,564	77,074	402,885	152,226	26,067	76,121	374,601	3
582,844	997,929	1,128,325	1,125,608	1,685,730	8,457,785	1,891,160	467,666	1,303,610	10,315,785	4
581,894	978,855	1,113,368	1,107,077	1,666,520	8,074,238	1,861,277	461,380	1,271,107	9,928,188	5
950	19,074	14,957	18,531	19,210	383,547	29,883	6,286	32,503	387,597	6
42,025	53,390	80,812	44,744	82,949	434,312	180,859	32,714	85,063	439,596	7
.....	24.58	15.69	31.65	21.87	20.99	12.42	17.94	17.35	27.54	8
13.87	18.69	13.96	25.16	20.32	19.47	10.46	14.30	15.33	23.47	9
47	914	443	64	20	16	1,393	63	28	20	10
.....	38,383	70,746	35,564	71,885	391,920	149,048	26,067	72,936	360,447	11
814	142,062	163,711	32,703	30,353	128,797	294,884	35,860	32,463	135,233	12
.....	3.61	2.31	0.92	0.42	0.33	1.98	1.38	0.45	0.38	13
.....	619	300	12,573	52,362	147,208	7,629	3,633	33,293	168,507	14
.....	3.75	0.86	0.79	0.79	0.39	0.77	0.28	0.64	0.43	15
.....	165	350	16,449	67,070	377,075	9,921	14,875	63,801	372,512	16
.....	3.75	0.86	0.76	0.78	0.39	0.77	0.24	0.52	0.45	17
11,087	400	262	11,889	27,152	155,580	1,150	3,844	31,448	169,928	18

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

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

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

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

State Table 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND WEATHER STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
North Platte River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Walden	Jackson	8,100	7.09	(2)	1.52	(2)	1.78	(2)	1.81	(2)	1.98	(2)	38.4	+1.1
South Platte River														
Longs Peak	Larimer	8,956	16.46	-5.33	3.51	+0.06	3.97	-0.03	4.79	-2.03	4.19	-3.33	38.4	+1.1
Kassler	Jefferson	5,492	15.35	-1.94	4.51	+1.45	4.56	+2.04	4.12	-2.44	2.16	-2.99	53.0	+2.4
Denver	Denver	5,221	8.43	-5.62	2.01	-0.32	3.03	+1.06	2.40	-3.25	0.99	-3.11	52.9	+2.9
Fort Collins	Larimer	4,985	9.20	-6.09	2.02	-0.31	2.61	+0.59	3.41	-3.12	1.16	-3.25	49.7	+3.3
Fort Morgan	Morgan	4,319	5.14	-8.72	0.53	-1.08	1.91	+0.77	1.93	-3.99	0.77	-4.42	50.4	+3.0
Julesburg	Sedgwick	3,583	13.90	-4.24	0.64	-1.51	2.38	+0.83	8.21	+0.59	2.67	-4.15	50.8	+2.3
Averages*			11.41	-5.32	2.20	-0.28	3.08	+0.88	4.14	-2.37	1.99	-3.54	49.2	+2.5
Republican River														
Wray	Yuma	3,512	13.02	-5.35	0.28	-1.87	3.18	+1.59	5.81	-2.20	3.75	-2.87	50.9	+0.2
Cheyenne Wells	Cheyenne	4,279	12.38	-5.93	0.21	-1.82	2.86	-1.29	6.28	-0.49	3.03	-3.33	53.3	+3.3
Averages*			12.70	-6.14	0.24	-1.84	3.02	+0.15	6.04	-1.34	3.39	-3.10	52.1	+1.8
Arkansas River														
Leadville	Lake	10,152	16.69	-1.94	4.92	+1.65	5.15	+0.85	2.78	-1.46	3.84	-2.98	37.4	+2.1
Salida	Chaffee	7,035	8.08	-4.25	3.37	+0.92	2.11	+0.13	0.79	-2.29	1.81	-3.01	(2)	(2)
Canon City	Fremont	5,343	6.79	-6.19	1.42	-0.63	2.00	+0.27	2.00	-2.22	1.37	-3.61	53.8	+0.9
Trinidad	Las Animas	6,300	14.36	-2.94	3.02	+0.11	3.05	+0.53	3.21	-2.65	5.08	-0.93	51.8	+0.4
Rocky Ford	Otero	4,177	8.83	-3.30	0.92	-0.78	3.22	+2.25	2.70	-2.39	1.99	-2.38	53.5	+1.3
Springfield	Baca	4,375	12.98	-5.57	2.39	-0.44	3.53	+1.20	4.39	-2.96	2.67	-3.37	(2)	(2)
Holly	Prowers	3,386	9.53	-5.84	0.94	-0.95	3.51	+2.11	4.22	-1.74	0.86	-5.26	54.8	+1.2
Averages*			11.04	-4.29	2.48	-0.02	3.22	+1.05	2.87	-2.24	2.52	-3.08	50.3	+1.2
Rio Grande														
Saguache	Saguache	7,745	6.20	-2.94	2.37	+0.99	1.39	+0.40	0.55	-1.80	1.89	-2.53	41.9	-2.0
Garnett	Alamosa	7,576	6.47	-0.46	1.89	+0.82	1.31	+0.60	1.18	-0.71	2.09	-1.17	(2)	(2)
Manassa	Conejos	7,700	3.49	-3.09	1.41	+0.23	1.01	+0.28	0.14	-1.53	0.93	-2.07	41.7	0.0
Averages*			5.39	-2.16	1.89	+0.68	1.24	+0.43	0.62	-1.35	1.64	-1.92	41.8	-1.0
Colorado River (direct)														
Fraser	Grand	8,560	13.12	-6.95	3.21	-0.73	4.87	-0.18	2.59	-2.74	2.45	-3.30	31.9	-0.1
Gunnison	Gunnison	7,670	9.66	-0.46	2.86	+1.00	2.39	+0.32	1.13	-1.07	3.28	-0.71	39.6	+2.8
Trout Lake	San Miguel	9,800	22.73	-5.07	5.38	+0.04	6.71	-1.11	2.57	-3.05	8.07	-0.95	(2)	(2)
Montrose	Montrose	5,811	7.71	-1.91	2.34	+0.14	1.73	-0.08	0.34	-2.03	3.30	+0.06	49.5	+1.3
Glenwood Springs	Garfield	5,823	19.51	+4.50	3.98	+0.70	7.21	+3.31	3.42	+0.05	4.90	+0.44	48.5	+2.9
Grand Junction	Mesa	4,587	8.20	-0.63	1.49	-0.66	2.82	+0.88	0.50	-1.54	3.39	+0.69	53.7	+1.7
Averages*			13.49	-1.75	3.21	+0.08	4.29	+0.52	1.76	-1.73	4.23	-0.63	44.6	+1.7
Green River														
Steamboat Springs	Routt	6,750	22.18	-0.94	6.17	+0.75	8.05	+1.08	3.93	-1.45	4.03	-1.32	40.0	+2.2
Sunbeam (near)	Moffat	5,472	9.38	-1.05	3.20	+0.59	1.80	+0.03	1.72	-0.95	2.66	-0.72	[3]43.7	(2)
Meeker (near)	Rio Blanco	6,500	[3]16.75	(2)	[3]4.66	(2)	[3]4.68	(2)	[3]2.82	(2)	[3]4.59	(2)	[3]44.0	(2)
Averages*			15.78	-1.00	4.68	+0.67	4.92	+0.56	2.82	-1.20	3.34	-1.02	40.0	+2.2
San Juan River														
Silverton	San Juan	9,415	20.37	-4.65	5.65	+0.35	5.09	-1.24	2.37	-2.19	7.26	-1.57	35.1	+0.3
Durango	La Plata	6,554	12.96	-6.86	2.14	-2.74	4.57	-0.55	0.95	-2.62	5.30	-0.95	45.2	-1.0
Cortez	Montezuma	6,177	10.43	-3.19	2.66	-0.42	3.32	-0.26	0.65	-1.45	3.80	-1.06	48.4	+1.0
Averages*			14.59	-4.90	3.48	-0.94	4.33	-0.68	1.32	-2.09	5.45	-1.19	42.9	+0.1

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

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

ACRES IRRIGATED						COST OF IRRIGATION WORKS AND EQUIPMENT				
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	
[3] 1	...	2	6	7	9	1	5	7	12	19
...	...	(4)	4,237	26,078	251,567	4,437		27,578	250,167	20
166,000	...	(4)	7,362	391,469	1,392,615	2,912		74,200	1,882,484	21
...	...	(4)	1.74	15.01	5.54	0.66		2.69	7.52	22
289,334	...	(4)	128,360	831,986	4,757,014	50,670		335,000	5,631,334	23
250	...	...	100	1,300	269,000	100		500	270,050	24
289,584	...	(4)	128,460	833,286	5,026,014	50,770		335,500	5,901,384	25
1	...	(4)	1,917	20,075	102,544	943		10,422	113,323	26
...	...	(4)	3,460	31,268	121,445	443		21,213	134,567	27
9,985	...	(4)	6,617	21,547	129,936	1,958		21,255	145,109	28
...	...	(4)	3,037	27,078	252,757	3,437		27,668	251,867	29
...	...	(4)	0.58	14.46	5.51	0.09		2.50	6.82	30
...	...	(4)	1.14	1.15	0.48	0.13		0.77	0.53	31
...	...	(4)	1.14	1.20	0.48	0.13		0.78	0.54	32
...	...	...	...	2	1	...		1	2	33
...	...	...	...	(4)	...	...		(4)	(4)	34
...	...	...	...	(4)	(4)	...		(4)	(4)	35
...	...	...	...	(4)	...	...		(4)	(4)	36
...	...	...	...	(4)	(4)	...		(4)	(4)	37
84	983	445	44	1	...	1,500	49	7	1	38
5	2	4	19	14	14	12	13	19	14	39
1	...	...	...	...	...	...	...	...	1	40
1	...	1	1	4	2	1	2	3	3	41
...	...	...	...	2	1	...	...	...	3	42
...	...	...	...	1	...	...	...	1	...	43
4	...	3	19	15	14	2	12	23	18	44
22,330	...	110	4,163	16,547	63,280	1,460		19,099	85,871	45
4	...	2	50	27	63	35		38	73	46
2	16	4	...	...	1	22	...	...	1	47
65	851	391	27	1	...	1,293	40	2	...	48
24	118	55	37	21	16	198	24	28	21	49

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

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

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

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

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

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

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

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER					
			Total	Platte River		North Platte River		
				Total		Total		
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms.....1939...number.....	41,228	15,240	15,176		319		
2	Area irrigated.....1939...acres.....	3,220,685	1,274,309	1,271,419		158,377		
3	(a) Cropland harvested.....1939...acres.....	2,796,075	1,164,707	1,161,891		114,848		
4	(b) Crop failure.....1939...acres.....	73,844	34,632	34,517		.....		
5	(c) Pasture.....1939...acres.....	350,766	75,270	75,011		43,529		
6	Area irrigated.....1929...acres.....	3,393,619	1,351,713	1,348,338		121,915		
7	1919...acres.....	3,348,385	1,331,453	1,322,982		113,102		
8	Increase or decrease (-), 1929-1939.....percent....	-5.1	-5.7	-5.7		26.8		
9	Irrigable area in enterprises.....1940...acres.....	4,283,250	1,483,661	1,478,684		185,348		
10	1930...acres.....	4,528,251	1,681,411	1,676,726		175,580		
11	1920[2]...acres.....	5,220,588	1,858,519	1,843,012		235,628		
12	Excess of irrigable area over the area irrigated..1940...acres.....	1,062,565	209,052	207,265		26,971		
13	1930...acres.....	1,134,632	329,668	328,388		50,665		
14	1920[2]...acres.....	1,872,203	527,096	520,030		92,526		
15	Area works were capable of supplying with water...1940...acres.....	3,913,542	1,431,381	1,426,740		172,583		
16	1930...acres.....	4,078,712	1,545,206	1,540,711		151,550		
17	1920...acres.....	3,855,318	1,446,269	1,435,832		155,485		
18	Increase or decrease (-), 1930-1940.....percent....	-4.0	-7.4	-7.4		13.9		
19	Excess of area works were capable of supplying with water over area irrigated.....1940...acres.....	692,857	156,772	155,321		14,206		
20	1930...acres.....	685,093	193,463	192,373		26,635		
21	1920...acres.....	506,963	114,816	112,850		12,383		
22	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	82.3	89.0	89.1		91.8		
23	1929...percent....	83.2	87.5	87.5		82.4		
24	1919...percent....	86.9	92.1	92.1		92.0		
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises.....1940...dollars....	106,849,343	42,155,132	42,110,190		814,027		
26	(a) Cost of irrigation works and equipment.....1940...dollars....	101,848,751	39,913,729	39,874,362		782,010		
27	(b) Investment in water rights (reported).....1940...dollars....	5,000,592	2,241,403	2,235,828		32,017		
28	Total investment in irrigation enterprises.....1930...dollars....	87,603,240	36,893,486	36,848,126		714,710		
29	1920...dollars....	88,302,442	36,945,712	36,855,049		835,578		
30	Increase or decrease (-), 1930-1940.....percent....	22.0	14.3	14.3		13.9		
31	Average investment based on area works were capable of supplying with water, per acre.....1940...dollars....	27.30	29.45	29.51		4.72		
32	1930...dollars....	21.48	23.88	23.92		4.72		
33	1920...dollars....	22.90	25.55	25.67		5.37		
34	Average investment per acre irrigated.....1939...dollars....	33.18	33.07	33.12		5.14		
35	Estimated final investment in existing enterprises..1940...dollars....	109,808,466	42,344,548	42,298,781		828,902		
36	Average investment based on estimated final investment and irrigable area, per acre.....1940...dollars....	25.64	28.54	28.61		1.47		
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number.....	6,371	1,505	1,538	1,038	1,529	1,038	219	1
38	Area irrigated in these enterprises.....1939...acres.....	3,128,787	609,498	1,261,995	392,471	1,260,955	392,471	156,411	(3)
39	Cost of maintenance and operation.....1939...dollars....	2,035,680	498,440	868,812	343,456	864,648	343,456	51,159	(3)
40	Average cost, per acre irrigated.....1939...dollars....	0.65	0.82	0.69	0.88	0.69	0.88	0.33	(3)
41	Total annual charges (reported)[4 5].....1939...dollars....	2,278,099	213,062	969,144	137,582	968,238	137,582	1,250	.....
42	Average annual charge per acre irrigated.....1939...dollars....	0.96	0.46	0.96	0.44	0.96	0.44	0.08	.....
43	Area against which charges were assessed.....1939...acres.....	2,637,673	461,109	1,060,643	309,287	1,059,381	309,287	18,535	.....
44	Average annual charge per acre assessed.....1939...dollars....	0.86	0.46	0.91	0.44	0.91	0.44	0.07	.....
45	Total charges collected[4].....1939...dollars....	2,077,506	206,370	962,227	127,254	961,364	127,254	.....	.....
46	Indebtedness to December 31 (reported)[5].....1939...dollars....	20,851,011	1,959,596	3,724,928	489,619	3,721,648	489,619	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered.....1939...number.....	6,260	1,505	1,534	1,032	1,506	1,032	225	1
48	Area irrigated by these enterprises.....1939...acres.....	3,039,354	588,300	1,212,742	391,911	1,209,602	391,911	146,358	(3)
49	Water delivered.....1939...acre-feet..	7,258,191	500,267	2,099,075	329,080	2,093,297	329,080	455,324	(3)
50	Average water delivered per acre irrigated.....1939...acre-feet..	2.4	0.9	1.7	0.8	1.7	0.8	3.1	(3)
51	Average cost of water per acre irrigated.....1939...dollars....	0.92	0.94	0.99	1.00	0.99	1.00	0.34	(3)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.39	1.10	0.57	1.19	0.57	1.19	0.11	(3)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage.....1939...number.....	238	.....	81	.....	80	.....	1	.....
54	Irrigable area in these enterprises.....1939...acres.....	687,246	.....	144,395	.....	144,195	.....	(3)	.....
55	Irrigated area in these enterprises.....1939...acres.....	466,804	.....	123,874	.....	123,674	.....	(3)	.....
56	Area for which drains have been installed.....1939...acres.....	119,286	.....	25,439	.....	25,436	.....	(3)	.....
57	Additional area needing drainage.....1939...acres.....	35,792	.....	5,364	.....	5,364	.....	(3)	.....

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

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

MISSOURI RIVER—Continued																
Platte River—Continued																
North Platte River—Continued			South Platte River													
Direct (6)	Laramie River (5)	Total[1]	Direct (32)		Plum Creek (31)		Bear Creek (29)		Cherry Creek (19)	Clear Creek (28)						
303	16	14,857	5,925		29		144		57	2,718						1
154,279	4,098	1,113,042	535,987		1,497		12,032		1,913	78,845						2
111,190	3,658	1,047,043	503,183		1,497		11,189		1,853	76,456						3
.....	.....	34,517	18,432		.....		3		15	1,079						4
43,089	440	31,482	14,372		.....		840		45	1,310						5
7,470	11,075	1,223,423	456,917		.....		12,824		.....	85,376						6
2,520	6,160	1,179,880	345,130		.....		8,778		.....	79,172						7
(*)	-63.0	-9.0	17.3		.....		-6.2		.....	-8.0						8
181,240	4,108	1,293,336	634,361		2,724		12,407		3,729	83,306						9
9,370	12,850	1,501,146	524,025		.....		12,908		.....	148,582						10
23,520	6,425	1,607,384	500,912		.....		12,093		.....	84,450						11
26,961	10	180,294	98,374		1,227		375		1,816	4,461						12
1,900	1,775	277,723	67,108		.....		84		.....	62,906						13
21,000	265	427,504	155,782		.....		3,315		.....	5,278						14
168,475	4,108	1,254,157	624,318		2,724		12,287		3,373	83,194						15
7,870	11,075	1,389,161	488,897		.....		12,908		.....	131,778						16
2,520	6,160	1,280,347	379,720		.....		10,373		.....	79,940						17
(*)	-62.9	-9.7	27.7		.....		-4.8		.....	-36.9						18
14,196	10	141,115	88,331		1,227		255		1,460	4,349						19
400	.....	165,738	31,980		.....		84		.....	46,102						20
.....	.....	100,467	34,590		.....		1,595		.....	768						21
91.6	99.8	88.7	85.9		55.0		97.9		56.7	94.8						22
94.9	100.0	88.1	93.5		.....		99.3		.....	65.0						23
100.0	100.0	92.2	90.9		.....		84.6		.....	99.0						24
789,850	24,177	41,296,163	24,249,996		134,025		962,948		17,735	1,325,105						25
760,935	21,075	39,092,352	22,433,467		134,025		953,610		17,625	1,240,196						26
28,915	3,102	2,203,811	1,816,529		.....		9,338		110	84,909						27
31,550	69,650	36,133,386	17,537,820		.....		839,800		.....	2,771,458						28
41,200	51,800	36,019,471	9,111,900		.....		137,240		.....	862,209						29
(*)	-65.3	14.3	38.3		.....		14.7		.....	-52.2						30
4.69	5.89	32.93	38.84		49.20		78.37		5.26	15.93						31
4.01	6.29	26.01	35.87		.....		65.08		.....	21.03						32
16.35	8.41	28.13	24.00		.....		13.23		.....	10.79						33
5.12	5.90	37.10	45.24		89.53		80.03		9.27	16.81						34
804,725	24,177	41,469,879	24,281,862		134,025		963,288		17,885	1,326,205						35
4.44	5.89	32.06	38.28		49.20		77.64		4.80	15.92						36
Primary	Sup.		Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.		Primary	Sup.			
Enterprises			Enterprises		Enterprises		Enterprises		Enterprises			Enterprises				
204	1	15	1,310	1,037	537	600	29	1	25	1	33	69	54			37
152,343	(3)	4,068	1,104,544	392,371	534,677	179,113	1,337	(3)	11,965	(3)	1,778	77,992	543			38
48,589	(3)	2,570	813,489	343,406	430,004	160,823	2,055	(3)	10,604	(3)	1,862	56,650	3,904			39
0.32	(3)	0.63	0.74	0.88	0.80	0.90	1.54	(3)	0.89	(3)	1.10	0.73	7.19			40
1,250	.....	.....	966,988	137,582	507,226	24,627	.....	.....	9,142	201	.....	56,421	.....			41
0.08	.....	.....	0.97	0.44	1.07	0.20	.....	.....	0.82	0.08	.....	0.74	.....			42
18,535	.....	.....	1,040,846	309,287	509,124	126,084	.....	.....	11,160	2,510	.....	79,238	.....			43
0.07	.....	.....	0.93	0.44	1.00	0.20	.....	.....	0.82	0.08	.....	0.71	.....			44
.....	.....	.....	961,364	127,254	538,702	23,011	.....	.....	6,467	300	.....	71,516	.....			45
.....	.....	.....	3,721,648	489,619	1,908,098	1,250	.....	.....	19,000	.....	.....	110,886	.....			46
209	1	16	1,281	1,031	519	594	27	1	27	1	32	53	53			47
142,260	(3)	4,098	1,063,244	391,811	501,607	179,252	1,497	(3)	10,331	(3)	1,828	71,849	543			48
430,990	(3)	24,334	1,637,973	328,604	920,327	166,471	580	(3)	10,463	(3)	1,957	110,388	805			49
3.0	(3)	5.9	1.5	0.8	1.8	0.9	0.4	(3)	1.0	(3)	1.1	1.5	1.5			50
0.33	(3)	0.63	1.08	1.00	1.12	0.90	1.24	(3)	1.03	(3)	1.09	0.79	7.19			51
0.11	(3)	0.11	0.70	1.20	0.61	0.97	3.19	(3)	1.01	(3)	1.02	0.52	4.85			52
1	.....	.....	79	.....	16	.....	.....	.....	2	.....	1	1	.....			53
(3)	.....	.....	136,195	.....	93,717	.....	.....	.....	(3)	.....	(3)	(3)	.....			54
(3)	.....	.....	117,674	.....	80,422	.....	.....	.....	(3)	.....	(3)	(3)	.....			55
(3)	.....	.....	25,036	.....	8,446	.....	.....	.....	.....	.....	.....	(3)	.....			56
(3)	.....	.....	4,964	.....	3,350	.....	.....	.....	(3)	.....	(3)	(3)	.....			57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		Platte River—Continued							
		South Platte River—Continued							
		St. Vrain Creek						Thompson River	
		Total		Direct (15)		Boulder Creek (20)		(14)	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	2,308		980		1,328		1,097	
2	Area irrigated....1939...acres....	159,855		78,725		81,130		77,893	
3	(a) Cropland harvested....1939...acres....	144,266		74,176		70,090		77,294	
4	(b) Crop failure....1939...acres....	2,872		1,795		1,077		260	
5	(c) Pasture....1939...acres....	12,717		2,754		9,963		339	
6	Area irrigated....1929...acres....	179,569		.....		.....		92,704	
7	1919...acres....	244,831		.....		.....		96,678	
8	Increase or decrease (-), 1929-1939....percent....	-11.0		.....		.....		-16.0	
9	Irrigable area in enterprises....1940...acres....	186,013		83,415		102,598		84,251	
10	1930...acres....	208,295		.....		.....		100,818	
11	1920[4]...acres....	281,467		.....		.....		105,673	
12	Excess of irrigable area over the area irrigated..1940...acres....	26,158		4,690		21,468		6,358	
13	1930...acres....	28,726		.....		.....		8,114	
14	1920[4]...acres....	36,636		.....		.....		8,995	
15	Area works were capable of supplying with water...1940...acres....	190,603		82,915		97,688		80,221	
16	1930...acres....	205,401		.....		.....		100,753	
17	1920...acres....	265,731		.....		.....		98,711	
18	Increase or decrease (-), 1930-1940....percent....	-12.1		.....		.....		-20.4	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	20,748		4,190		16,558		2,328	
20	1930...acres....	25,832		.....		.....		8,049	
21	1920...acres....	20,900		.....		.....		2,033	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	88.5		94.9		83.1		97.1	
23	1929...percent....	87.4		.....		.....		92.0	
24	1919...percent....	92.1		.....		.....		97.9	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	2,149,009		887,983		1,261,026		1,662,449	
26	(a) Cost of irrigation works and equipment....1940...dollars....	2,123,808		867,397		1,256,411		1,423,305	
27	(b) Investment in water rights (reported)....1940...dollars....	25,201		20,586		4,615		239,144	
28	Total investment in irrigation enterprises....1930...dollars....	1,964,750		.....		.....		2,317,830	
29	1920...dollars....	9,298,122		.....		.....		1,102,316	
30	Increase or decrease (-), 1930-1940....percent....	9.4		.....		.....		-28.3	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	11.90		10.71		12.91		20.72	
32	1930...dollars....	9.57		.....		.....		23.01	
33	1920...dollars....	34.99		.....		.....		11.17	
34	Average investment per acre irrigated....1939...dollars....	13.44		11.28		15.54		21.34	
35	Estimated final investment in existing enterprises..1940...dollars....	2,162,824		891,283		1,271,541		1,722,954	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	11.63		10.68		12.39		20.45	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Sup.	Primary	Sup.	Primary	Sup.	Primary	Sup.
		Enterprises		Enterprises		Enterprises		Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	128	35	67	17	61	18	52	11
38	Area irrigated in these enterprises....1939...acres....	156,401	23,875	77,552	15,771	78,849	8,104	77,770	16,295
39	Cost of maintenance and operation....1939...dollars....	57,232	8,820	23,427	6,675	33,805	2,145	45,897	3,280
40	Average cost, per acre irrigated....1939...dollars....	0.37	0.37	0.30	0.42	0.43	0.26	0.59	0.20
41	Total annual charges (reported)[5 6]....1939...dollars....	93,631	18,371	40,750	6,094	52,881	12,277	48,910	3,734
42	Average annual charge per acre irrigated....1939...dollars....	0.62	0.60	0.55	0.39	0.68	0.82	0.65	0.23
43	Area against which charges were assessed....1939...acres....	157,000	30,478	76,264	15,560	80,736	14,918	76,960	16,035
44	Average annual charge per acre assessed....1939...dollars....	0.60	1.66	0.53	0.39	0.65	0.82	0.64	0.23
45	Total charges collected[6]....1939...dollars....	97,459	20,114	34,446	15,551	63,013	4,563	59,907	3,700
46	Indebtedness to December 31 (reported)[6]....1939...dollars....	346,792	78,650	148,780	53,980	198,012	24,670	288,145	1,350
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	137	42	62	20	75	22	56	12
48	Area irrigated by these enterprises....1939...acres....	158,535	22,766	77,557	6,034	80,978	16,732	76,993	16,506
49	Water delivered....1939...acre-feet..	174,611	15,219	86,091	5,586	88,520	9,633	94,254	9,118
50	Average water delivered per acre irrigated....1939...acre-feet..	1.1	0.7	1.1	0.9	1.1	0.6	1.2	0.6
51	Average cost of water per acre irrigated....1939...dollars....	0.63	0.73	0.57	0.43	0.68	0.82	0.67	0.32
52	Average cost of water per acre-foot delivered..1939...dollars....	0.57	1.10	0.51	0.47	0.63	1.42	0.55	0.57
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	13	.....	7	.....	6	.....	6	.....
54	Irrigable area in these enterprises....1939...acres....	19,960	.....	4,600	.....	15,360	.....	1,756	.....
55	Irrigated area in these enterprises....1939...acres....	16,030	.....	4,320	.....	11,710	.....	1,641	.....
56	Area for which drains have been installed....1939...acres....	1,726	.....	125	.....	1,601	.....	263	.....
57	Additional area needing drainage....1939...acres....	1,190	.....	360	.....	830	.....	95	.....

[1] Data for 2 enterprises in Timpas Creek Drainage Basin (51) (number refers to separate map) are included with Arkansas River "Direct" Drainage Basin (33).

[2] Data for 1 enterprise in Smoky Hill River Drainage Basin (71) and 1 enterprise in White Woman Creek Drainage Basin (73) (number refers to separate map) are included with Republican River Drainage Basin total.

[3] Data for 3 enterprises in Frenchman Creek Drainage Basin (82) (number refers to separate map) are included with Arikaree River Drainage Basin (17).

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

MISSOURI RIVER—Continued																			
Platte River—Continued								Kansas River			MISSISSIPPI RIVER (Exclusive of Missouri River)								
South Platte River—Continued								Republican River			Arkansas River								
Cache la Poudre River (4)		Crow Creek (2)		Bijou Creek group (16)		Horsetail Creek (1)		Total[2]	Direct (18)	Arikaree River[3] (17)	Total		Direct[1] (33)		Texas Creek (77)				
2,340		20		206		11		64	8	54	7,837		5,890		43				1
221,924		1,996		20,597		383		3,190	371	2,784	469,535		359,578		3,827				2
211,516		1,908		17,386		380		2,816	301	2,480	416,854		329,780		3,661				3
8,617		88		3,146		.....		115	60	55	17,092		9,191		15				4
1,791		.....		65		3		259	10	249	35,589		20,607		151				5
286,607		996		8,470		.....		3,405	.....	.....	558,072		356,186		.....				6
266,676		1,945		6,429		.....		8,471	.....	.....	641,476		431,452		.....				7
-22.6		100.4		143.2		.....		-6.3	.....	.....	-15.9		1.0		.....				8
252,040		2,603		30,957		765		4,977	784	4,158	672,627		472,543		5,438				9
378,984		1,649		10,520		.....		4,685	.....	.....	762,208		407,657		.....				10
410,429		7,450		11,825		.....		15,537	.....	.....	938,533		502,954		.....				11
30,116		607		10,360		382		1,787	413	1,374	203,092		112,965		1,611				12
92,377		653		2,050		.....		1,280	.....	.....	204,136		51,471		.....				13
143,753		5,505		5,396		.....		7,066	.....	.....	297,057		71,502		.....				14
236,303		2,279		27,910		765		4,641	784	3,822	622,846		439,791		5,272				15
325,980		1,226		10,470		.....		4,495	.....	.....	690,955		384,928		.....				16
283,975		2,250		10,699		.....		10,437	.....	.....	709,068		448,808		.....				17
-27.5		85.9		166.6		.....		3.2	.....	.....	-9.9		14.3		.....				18
14,379		283		7,313		382		1,451	413	1,038	153,311		80,213		1,445				19
39,373		230		2,000		.....		1,090	.....	.....	132,883		28,742		.....				20
17,299		305		4,270		.....		1,966	.....	.....	67,592		17,356		.....				21
93.9		87.6		73.8		50.1		68.7	47.3	72.8	75.4		81.8		72.6				22
87.9		81.2		80.9		.....		75.8	.....	.....	80.8		92.5		.....				23
93.9		86.4		60.1		.....		81.2	.....	.....	90.5		96.1		.....				24
10,057,990		108,313		624,293		3,000		44,942	6,750	36,817	20,370,917		16,317,477		9,623				25
10,030,280		108,313		623,423		3,000		39,367	4,825	33,167	19,615,167		15,812,690		9,005				26
27,710		.....		870		.....		5,575	1,925	3,650	755,750		504,787		618				27
9,529,172		30,475		68,500		.....		45,360	.....	.....	15,756,524		8,727,700		.....				28
10,638,693		51,700		52,600		.....		90,663	.....	.....	19,710,289		11,056,245		.....				29
5.5		255.4		811.4		.....		-0.9	.....	.....	29.3		87.0		.....				30
42.56		47.53		22.37		3.92		9.68	8.61	9.63	32.71		37.10		1.63				31
29.23		24.86		6.54		.....		10.09	.....	.....	22.80		22.67		.....				32
37.46		22.98		4.92		.....		8.69	.....	.....	27.80		24.64		.....				33
45.32		54.27		30.31		7.83		14.09	18.19	13.22	43.39		45.38		2.51				34
[1]10,109,420		109,413		635,253		3,450		45,767	6,750	37,642	20,487,170		16,349,333		9,623				35
40.11		42.03		20.52		4.51		9.20	8.61	9.05	30.46		34.60		1.77				36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.						Primary Enterprises	Sup.	Primary Enterprises	Sup.					
273	258	15	12	144	65	3		29	4	24	1,251	137	551	122	42				37
219,757	159,095	1,888	1,265	20,476	9,075	383		3,140	371	2,764	462,063	19,556	356,627	18,346	3,820				38
142,751	126,719	4,734	5,326	61,210	33,893	290		4,164	580	3,564	359,323	21,858	285,796	20,828	629				39
0.65	0.80	2.51	4.21	2.99	3.73	0.76		1.33	1.56	1.29	0.78	1.12	0.80	1.14	0.16				40
250,043	90,649	.....	.....	1,503	.....	112		906	200	706	557,595	10,980	484,522	10,980	.....				41
1.23	0.68	.....	.....	0.89	.....	0.31		0.73	0.92	0.69	1.50	1.79	1.51	1.79	.....				42
205,324	134,180	.....	.....	1,680	.....	360		1,262	217	1,045	416,223	6,142	357,841	6,142	.....				43
1.22	0.68	.....	.....	0.89	.....	0.31		0.72	0.92	0.66	1.34	1.79	1.35	1.79	.....				44
185,695	80,129	.....	.....	1,408	.....	210		863	.....	863	557,803	1,275	501,148	1,275	.....				45
1,048,227	408,369	.....	.....	500	.....	.....		3,280	.....	3,280	3,863,724	.....	3,261,804	.....	.....				46
270	251	17	12	138	65	3		28	4	23	1,204	132	527	116	44				47
217,558	159,294	1,996	1,265	20,547	9,075	383		3,140	371	2,764	447,738	21,563	347,526	18,353	3,827				48
277,833	112,327	5,130	3,239	42,136	19,065	235		5,778	1,184	4,584	900,286	19,552	773,433	17,704	4,990				49
1.3	0.7	2.6	2.6	2.1	2.1	0.6		1.8	3.2	1.7	2.0	0.9	2.2	1.0	1.3				50
1.37	1.03	2.51	4.21	2.99	3.73	0.46		1.36	1.56	1.32	1.36	1.93	1.46	2.06	0.16				51
1.07	1.47	0.98	1.64	1.46	1.78	0.75		0.74	0.49	0.80	0.68	2.14	0.66	2.14	0.19				52
39	.....	.....	.....	1	.....	.....		1	.....	1	60	.....	36	.....	.....				53
16,845	.....	.....	.....	(7)	.....	.....		(7)	.....	(7)	107,698	.....	102,147	.....	.....				54
15,719	.....	.....	.....	(7)	.....	.....		(7)	.....	(7)	88,299	.....	84,439	.....	.....				55
14,557	.....	.....	.....	(7)	.....	.....		(7)	.....	(7)	18,985	.....	18,876	.....	.....				56
159	.....	.....	.....	.....	.....	.....		.....	.....	.....	2,753	.....	2,523	.....	.....				57

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

Drainage Basin Table I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSISSIPPI RIVER—Continued (Exclusive of Missouri River)							
		Arkansas River—Continued						Huerfano River	
		Grape Creek (46)	Turkey Creek (47)	Fountain Creek (48)		St. Charles River (49)		Total	
	IRRIGATED FARMS AND AREAS								
1	Irrigated farms....1939...number....	417	25	245		102		406	
2	Area irrigated....1939...acres....	18,198	1,498	14,460		6,802		26,776	
3	(a) Cropland harvested....1939...acres....	13,998	1,468	12,866		4,378		22,261	
4	(b) Crop failure....1939...acres....	234	7	811		1,743		2,707	
5	(c) Pasture....1939...acres....	3,966	23	783		681		1,808	
6	Area irrigated....1929...acres....	.....	.....	22,664		10,177		54,193	
7	1919...acres....	.....	.....	20,465		11,855		55,528	
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	-36.2		-33.2		-50.6	
9	Irrigable area in enterprises....1940...acres....	27,811	18,319	23,690		12,429		52,496	
10	1930...acres....	.....	.....	35,736		11,734		97,692	
11	1920[1]...acres....	.....	.....	39,224		22,310		103,554	
12	Excess of irrigable area over the area irrigated..1940...acres....	9,613	16,821	9,230		5,627		25,720	
13	1930...acres....	.....	.....	13,072		1,557		43,499	
14	1920[1]...acres....	.....	.....	18,759		10,455		48,026	
15	Area works were capable of supplying with water...1940...acres....	26,449	17,570	22,949		11,429		40,209	
16	1930...acres....	.....	.....	35,356		11,330		76,051	
17	1920...acres....	.....	.....	24,964		13,791		64,474	
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	-35.1		0.9		-47.1	
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	8,251	16,072	8,489		4,627		13,433	
20	1930...acres....	.....	.....	12,692		1,153		21,858	
21	1920...acres....	.....	.....	4,499		1,936		8,946	
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	68.8	8.5	63.0		59.5		66.6	
23	1929...percent....	.....	.....	64.1		89.8		71.3	
24	1919...percent....	.....	.....	82.0		86.0		86.1	
	CAPITAL INVESTED TO JANUARY 1								
25	Total investment in irrigation enterprises....1940...dollars....	181,981	326,310	571,361		72,630		853,592	
26	(a) Cost of irrigation works and equipment....1940...dollars....	134,911	322,800	558,905		71,205		819,042	
27	(b) Investment in water rights (reported)....1940...dollars....	47,070	3,510	12,456		1,425		34,550	
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	419,889		133,306		1,590,384	
29	1920...dollars....	.....	.....	965,287		241,884		3,204,519	
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	36.1		-45.5		-46.3	
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	6.88	18.57	24.90		6.95		21.23	
32	1930...dollars....	.....	.....	11.88		11.77		20.91	
33	1920...dollars....	.....	.....	38.67		17.54		49.70	
34	Average investment per acre irrigated....1939...dollars....	10.00	217.83	39.51		10.68		31.88	
35	Estimated final investment in existing enterprises..1940...dollars....	183,201	329,310	576,866		84,630		899,182	
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	6.59	17.98	24.35		6.81		17.13	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS			Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	93	13	73	7	69	1	208	2
38	Area irrigated in these enterprises....1939...acres....	16,435	1,476	13,250	727	6,624	(2)	26,236	(2)
39	Cost of maintenance and operation....1939...dollars....	2,994	1,683	10,725	423	2,539	(2)	18,215	(2)
40	Average cost, per acre irrigated....1939...dollars....	0.18	1.14	0.81	0.58	0.38	(2)	0.69	(2)
41	Total annual charges (reported)[3] [4]....1939...dollars....	6,250	400	15,203	.....	10	.....	20,451	.....
42	Average annual charge per acre irrigated....1939...dollars....	3.40	0.50	2.17	.....	0.10	.....	1.53	.....
43	Area against which charges were assessed....1939...acres....	1,840	800	7,464	.....	100	.....	16,873	.....
44	Average annual charge per acre assessed....1939...dollars....	3.40	0.50	2.04	.....	0.10	.....	1.21	.....
45	Total charges collected[3]....1939...dollars....	6,264	400	12,412	.....	.....	.....	12,164	.....
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	38,500	.....	266,050	.....	.....	.....	162,250	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered....1939...number....	94	11	68	8	71	1	190	2
48	Area irrigated by these enterprises....1939...acres....	17,929	1,441	11,321	2,727	6,702	(2)	24,026	(2)
49	Water delivered....1939...acre-feet..	17,984	1,296	16,999	1,549	7,236	(2)	28,325	(2)
50	Average water delivered per acre irrigated....1939...acre-feet..	1.0	0.9	1.5	0.6	1.1	(2)	1.2	(2)
51	Average cost of water per acre irrigated....1939...dollars....	0.53	1.13	1.73	0.58	0.39	(2)	1.08	(2)
52	Average cost of water per acre-foot delivered..1939...dollars....	0.52	1.26	1.16	1.03	0.36	(2)	0.93	(2)
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage....1939...number....	12	1	1	.....	.....	.....	3	.....
54	Irrigable area in these enterprises....1939...acres....	2,642	(2)	(2)	.....	.....	.....	159	.....
55	Irrigated area in these enterprises....1939...acres....	1,507	.....	(2)	.....	.....	.....	159	.....
56	Area for which drains have been installed....1939...acres....	99	.....	(2)	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres....	158	(2)	.....	.....	.....	.....	14	.....

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

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

MISSISSIPPI RIVER—Continued (Exclusive of Missouri River)																		
Arkansas River—Continued																		
Huerfano River—Continued																		
Direct		Cucharas River	Apishapa River	Purgatoire River		Big Sandy Creek		Two Butte and Bear Creeks	Cimarron River	Total		Direct		
(54)		(53)	(52)	(69)		(30)		(50)	(70)			(57)		
318		148	90	465		12		61	21	3,825		1,691		1
18,005		8,771	3,981	30,487		253		3,308	367	560,476		366,823		2
14,663		7,598	3,519	21,080		217		3,288	338	458,761		303,953		3
2,296		411	55	2,285		36		.....	8	11,571		3,082		4
1,046		762	407	7,122		.....		20	21	90,144		55,788		5
.....		.....	5,199	32,799		.....		.....	139	551,142		356,069		6
.....		.....	8,292	43,533		.....		.....	.....	519,563		323,688		7
.....		.....	-23.4	-7.0		.....		.....	164.0	1.7		3.0		8
39,552		12,944	9,781	45,482		438		3,413	787	797,667		502,922		9
.....		.....	28,559	52,509		.....		.....	293	738,197		413,175		10
.....		.....	65,615	51,172		.....		.....	.....	846,338		508,127		11
21,547		4,173	5,800	14,995		185		105	420	237,191		136,099		12
.....		.....	23,350	19,710		.....		.....	154	185,055		57,106		13
.....		.....	57,323	7,639		.....		.....	.....	326,775		181,439		14
28,901		11,308	9,461	45,412		414		3,413	477	726,474		484,118		15
.....		.....	25,509	48,089		.....		.....	140	674,196		379,674		16
.....		.....	11,430	47,402		.....		.....	.....	638,938		420,140		17
.....		.....	-62.9	-5.6		.....		.....	240.7	7.8		27.4		18
10,896		2,537	5,480	14,925		161		105	110	165,998		117,295		19
.....		.....	20,310	15,290		.....		.....	1	123,054		23,805		20
.....		.....	3,138	3,869		.....		.....	.....	119,375		93,452		21
62.3		77.6	42.1	67.1		61.1		96.9	76.9	77.2		75.8		22
.....		.....	20.4	68.2		.....		.....	99.3	81.7		93.7		23
.....		.....	72.5	91.8		.....		.....	.....	81.3		77.8		24
692,640		160,952	223,143	1,178,674		11,842		605,720	18,564	12,650,070		7,771,971		25
688,890		130,152	206,528	1,044,482		11,832		605,720	18,047	11,775,572		7,229,631		26
3,750		30,800	16,615	134,192		10		.....	517	874,498		542,340		27
.....		.....	794,372	1,546,150		.....		.....	9,705	6,778,334		2,364,919		28
.....		.....	1,190,695	491,450		.....		.....	.....	4,538,300		1,526,753		29
.....		.....	-71.9	-23.8		.....		.....	91.3	86.6		228.6		30
23.97		14.23	23.59	25.96		28.60		177.47	38.92	17.41		16.05		31
.....		.....	31.14	32.15		.....		.....	69.32	10.05		6.23		32
.....		.....	104.17	10.37		.....		.....	.....	7.10		3.63		33
38.47		18.35	56.05	38.66		46.81		183.11	50.58	22.57		21.19		34
719,090		180,102	229,243	1,180,774		13,422		606,020	25,556	12,694,478		7,809,504		35
18.18		13.91	23.44	25.96		30.64		177.56	32.47	15.91		15.53		36
Primary	Sup.			Primary	Sup.	Primary	Sup.			Primary	Sup.	Primary	Sup.	
Enterprises				Enterprises		Enterprises				Enterprises		Enterprises		
118	2	90	48	113	4	14	1	7	20	499	191	328	182	37
17,763	(2)	8,473	3,973	29,729	147	253	(2)	3,274	366	547,465	148,836	358,963	118,744	38
12,882	(2)	5,333	2,684	27,528	290	1,063	(2)	3,392	2,075	172,444	78,109	111,513	76,932	39
0.73	(2)	0.63	0.68	0.93	1.97	4.20	(2)	1.04	5.67	0.31	0.52	0.31	0.65	40
18,966	.....	1,485	1,240	25,546	.....	.....	.....	3,973	.....	237,085	20,305	103,801	15,160	41
1.90	.....	0.43	0.82	1.06	.....	.....	.....	1.25	.....	0.50	0.18	0.33	0.14	42
13,458	.....	3,415	1,656	26,471	.....	.....	.....	3,178	.....	595,017	115,715	376,745	105,100	43
1.41	.....	0.43	0.75	0.97	.....	.....	.....	1.25	.....	0.40	5.70	0.28	0.14	44
12,164	.....	.....	.....	20,989	.....	.....	.....	4,426	.....	143,135	17,225	80,701	11,675	45
162,250	.....	.....	16,000	114,770	.....	.....	.....	1,350	.....	2,524,189	318,250	1,611,946	268,150	46
110	2	80	41	116	4	11	1	10	21	561	208	381	202	47
16,626	(2)	7,400	3,731	27,319	147	253	(2)	3,296	367	549,557	128,998	363,767	117,906	48
18,381	(2)	9,944	3,976	35,935	82	245	(2)	9,428	439	827,631	58,467	532,409	51,889	49
1.1	(2)	1.3	1.1	1.3	0.6	1.0	(2)	2.9	1.2	1.5	0.5	1.5	0.4	50
1.28	(2)	0.65	0.65	1.04	1.97	4.19	(2)	1.28	5.67	0.53	0.58	0.41	0.59	51
1.16	(2)	0.48	0.61	0.79	3.54	4.33	(2)	0.45	4.74	0.35	1.27	0.28	1.33	52
.....	.....	3	.....	7	.....	.....	.....	.....	.....	12	.....	6	.....	53
.....	.....	159	.....	2,565	.....	.....	.....	.....	.....	167,599	.....	101,229	.....	54
.....	.....	159	.....	2,184	.....	.....	.....	.....	.....	92,065	.....	73,878	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42,364	.....	38,084	.....	56
.....	.....	14	.....	43	.....	.....	.....	.....	.....	15,570	.....	15,500	.....	57

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

Drainage Basin Table I.—AREA IRRIGATED, 1939, 1929, 1919; CAPITAL INVESTED AND AND OPERATION, CHARGES, INDEBTEDNESS, WATER DELIVERED TO

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	RIO GRANDE—Continued				INDEPENDENT BASINS IN RIO GRANDE BASIN
		Alamosa and La Jara Creeks (65)	Trinchera Creek (66)	Conejos River (67)	Costilla Creek (68)	Total
	IRRIGATED FARMS AND AREAS					
1	Irrigated farms ... 1939 ... number	391	115	988	640	184
2	Area irrigated ... 1939 ... acres	56,723	14,444	89,362	33,104	71,571
3	(a) Cropland harvested ... 1939 ... acres	41,101	12,342	68,483	29,882	53,474
4	(b) Crop failure ... 1939 ... acres	4,281	.....	4,007	201	257
5	(c) Pasture ... 1939 ... acres	11,341	2,102	16,892	3,021	17,840
6	Area irrigated ... 1929 ... acres	39,396	14,838	80,918	.....	76,249
7	1919 ... acres	46,228	12,485	88,676	.....	89,361
8	Increase or decrease (-), 1929-1939 ... percent	44.0	-2.7	10.5	.....	-6.1
9	Irrigable area in enterprises ... 1940 ... acres	69,407	62,310	115,486	47,542	86,179
10	1930 ... acres	54,715	63,536	112,313	.....	87,255
11	1920[1] ... acres	87,952	59,699	115,887	.....	217,318
12	Excess of irrigable area over the area irrigated ... 1940 ... acres	12,684	47,866	26,104	14,438	14,608
13	1930 ... acres	15,319	48,698	31,395	.....	11,006
14	1920[1] ... acres	41,724	47,214	27,211	.....	127,957
15	Area works were capable of supplying with water ... 1940 ... acres	67,491	16,140	111,833	46,892	83,089
16	1930 ... acres	54,215	63,228	99,808	.....	86,006
17	1920 ... acres	52,556	19,319	95,680	.....	107,672
18	Increase or decrease (-), 1930-1940 ... percent	24.5	-74.5	12.0	.....	-3.4
19	Excess of area works were capable of supplying with water over area irrigated ... 1940 ... acres	10,768	1,696	22,451	13,788	11,518
20	1930 ... acres	14,819	48,390	18,890	.....	9,757
21	1920 ... acres	6,328	6,834	7,004	.....	18,311
22	Proportion which area irrigated is of area works were capable of supplying with water ... 1939 ... percent	84.0	89.5	79.9	70.6	86.1
23	1929 ... percent	72.7	23.5	81.1	.....	88.7
24	1919 ... percent	88.0	64.6	92.7	.....	83.0
	CAPITAL INVESTED TO JANUARY 1					
25	Total investment in irrigation enterprises ... 1940 ... dollars	1,132,885	628,730	1,338,053	1,778,431	178,709
26	(a) Cost of irrigation works and equipment ... 1940 ... dollars	1,067,415	628,680	1,128,898	1,720,948	118,802
27	(b) Investment in water rights (reported) ... 1940 ... dollars	65,470	50	209,155	57,483	59,907
28	Total investment in irrigation enterprises ... 1930 ... dollars	819,150	677,000	839,676	.....	132,090
29	1920 ... dollars	587,184	659,890	564,739	.....	287,360
30	Increase or decrease (-), 1930-1940 ... percent	38.3	-7.1	59.4	.....	35.3
31	Average investment based on area works were capable of supplying with water, per acre ... 1940 ... dollars	16.79	38.95	11.96	37.93	2.15
32	1930 ... dollars	15.11	10.71	8.41	.....	1.54
33	1920 ... dollars	11.17	34.16	5.90	.....	2.67
34	Average investment per acre irrigated ... 1939 ... dollars	19.97	43.53	14.97	53.72	2.50
35	Estimated final investment in existing enterprises ... 1940 ... dollars	1,135,160	628,730	1,341,403	1,779,681	180,054
36	Average investment based on estimated final investment and irrigable area, per acre ... 1940 ... dollars	16.36	10.09	11.62	37.43	2.09
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises
37	Enterprises reporting maintenance and operation ... 1939 ... number	67	2	7	69	7	28	94	4
38	Area irrigated in these enterprises ... 1939 ... acres	54,074	(2)	14,202	87,373	22,477	32,853	39,518	3,735
39	Cost of maintenance and operation ... 1939 ... dollars	8,198	(2)	11,666	16,633	233	24,434	6,549	265
40	Average cost, per acre irrigated ... 1939 ... dollars	0.15	(2)	0.82	0.19	0.01	0.74	0.17	0.07
41	Total annual charges (reported)[3] [4] ... 1939 ... dollars	14,368	4,970	56,000	22,357	175	40,559	600	.....
42	Average annual charge per acre irrigated ... 1939 ... dollars	0.36	0.65	5.60	0.30	0.07	1.33	1.00	.....
43	Area against which charges were assessed ... 1939 ... acres	45,850	8,115	56,000	75,528	2,500	40,894	600	.....
44	Average annual charge per acre assessed ... 1939 ... dollars	0.31	0.61	1.00	0.30	0.07	0.99	1.00	.....
45	Total charges collected[3] ... 1939 ... dollars	7,393	4,798	10,476	16,048	552	28,517	600	.....
46	Indebtedness to December 31 (reported)[4] ... 1939 ... dollars	59,992	50,000	659,124	16,700	100	166,427	.....	.....
	WATER DELIVERED TO IRRIGATORS, 1939								
47	Enterprises reporting water delivered ... 1939 ... number	72	2	11	64	4	33	153	8
48	Area irrigated by these enterprises ... 1939 ... acres	55,335	(2)	14,414	82,937	3,477	33,104	50,807	3,809
49	Water delivered ... 1939 ... acre-feet	75,775	(2)	16,530	142,424	3,678	60,493	46,142	1,270
50	Average water delivered per acre irrigated ... 1939 ... acre-feet	1.4	(2)	1.1	1.7	1.1	1.8	0.9	0.3
51	Average cost of water per acre irrigated ... 1939 ... dollars	0.32	(2)	4.04	0.29	0.07	1.24	0.16	0.07
52	Average cost of water per acre-foot delivered ... 1939 ... dollars	0.23	(2)	3.52	0.17	0.06	0.68	0.18	0.21
	DRAINAGE OF IRRIGATED LAND								
53	Enterprises reporting land drained or needing drainage ... 1939 ... number	3	.....	1	2	.....	.....	.....	.....
54	Irrigable area in these enterprises ... 1939 ... acres	4,250	.....	(2)	(2)	.....	.....	.....	.....
55	Irrigated area in these enterprises ... 1939 ... acres	3,632	.....	(2)	(2)	.....	.....	.....	.....
56	Area for which drains have been installed ... 1939 ... acres	3,200	.....	(2)	(2)	.....	.....	.....	.....
57	Additional area needing drainage ... 1939 ... acres	70	.....	.....	.....	.....	.....	.....	.....

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

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

INDEPENDENT BASINS IN RIO GRANDE BASIN—Continued																	
San Luis Creek																	
Total		Direct (45)		Saguache Creek (44)		San Luis Lake (66)	Total		Direct (13)		Fraser River (21)	Williams River (22)	Muddy Creek (12)	Blue River (27)	Eagle River (26)	
179		108		71		5	14,142		3,059		83	36	27	67	184	1
67,561		37,124		30,437		4,010	844,494		132,986		8,929	4,370	6,030	10,855	20,642	2
50,274		28,991		21,283		3,200	702,279		118,948		7,523	3,397	5,610	10,034	16,245	3
257		227		30		.....	10,292		1,024		54	30	40	60	1,332	4
17,030		7,906		9,124		810	131,923		13,014		1,352	943	380	761	3,065	5
57,812		37,591		20,221		.....	856,413		64,855		4,164	.....	6,448	10,725	12,590	6
89,361		51,329		38,032		.....	766,532		71,958		9,331	.....	5,050	10,541	15,118	7
16.9		-1.2		50.5		.....	-1.4		105.1		114.4	.....	-6.5	1.2	64.0	8
79,989		43,164		36,825		6,190	1,243,116		197,242		12,930	7,228	7,005	11,863	22,157	9
68,818		43,157		25,661		.....	1,261,190		124,876		5,882	.....	9,919	15,869	13,677	10
217,318		175,871		41,447		.....	1,359,850		125,422		27,010	.....	7,255	16,297	28,435	11
12,428		6,040		6,388		2,180	398,622		64,256		4,001	2,858	975	1,008	1,515	12
11,006		5,566		5,440		.....	404,767		60,021		1,718	.....	3,471	5,144	1,087	13
127,957		124,542		3,415		.....	593,318		53,464		17,679	.....	2,205	5,756	13,317	14
77,899		43,104		34,795		5,190	1,049,752		175,816		11,296	6,568	7,005	11,653	22,117	15
67,569		42,068		25,501		.....	1,082,349		96,629		4,652	.....	8,509	15,675	13,523	16
107,672		68,309		39,363		.....	953,401		101,249		10,795	.....	5,075	11,771	15,586	17
15.3		2.5		36.4		.....	-3.0		81.9		142.8	.....	-17.7	-25.7	63.6	18
10,338		5,980		4,358		1,180	205,258		42,830		2,367	2,198	975	798	1,475	19
9,757		4,477		5,280		.....	225,936		31,774		488	.....	2,061	4,950	933	20
18,311		16,980		1,331		.....	186,869		29,291		1,464	.....	25	1,230	468	21
86.7		86.1		87.5		77.3	80.4		75.6		79.0	66.5	86.1	93.2	93.3	22
85.6		89.4		79.3		.....	79.1		67.1		89.5	.....	75.8	68.4	93.1	23
83.0		75.1		96.6		.....	80.4		71.1		86.4	.....	99.5	89.6	97.0	24
169,009		60,117		108,892		9,700	31,494,515		6,562,787		117,945	111,503	49,347	133,499	289,593	25
109,102		53,671		55,431		9,700	30,425,481		6,079,318		110,650	105,648	44,900	116,140	266,780	26
59,907		6,446		53,461		.....	1,069,034		483,469		7,295	5,855	4,447	17,359	22,813	27
112,240		56,775		55,465		.....	28,042,806		5,698,045		12,155	.....	110,650	115,210	322,084	28
287,360		184,312		103,048		.....	26,820,781		5,923,482		55,860	.....	33,122	116,608	109,012	29
50.6		5.9		96.3		.....	12.0		15.2		870.3	.....	-55.4	15.9	-10.1	30
2.17		1.39		3.13		1.87	30.00		37.33		10.44	16.98	7.04	11.46	13.09	31
1.66		1.35		2.18		.....	25.91		58.97		2.61	.....	13.00	7.35	23.82	32
2.67		2.70		2.62		.....	28.13		58.50		5.17	.....	6.53	9.91	6.99	33
2.50		1.62		3.58		2.42	37.29		49.35		13.21	25.52	8.18	12.30	14.03	34
169,354		60,412		108,942		10,700	34,102,216		6,881,327		149,120	121,878	57,597	136,759	291,393	35
2.12		1.40		2.96		1.73	27.43		34.89		11.53	16.86	8.22	11.53	13.15	36
Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.						
89	4	41	3	48	1	5	2,969	135	358	13	41	24	26	65	140	37
35,668	3,735	10,504	1,580	25,164	(2)	3,850	815,646	43,900	128,199	10,071	8,924	4,133	6,030	10,655	20,346	38
5,414	265	1,819	125	3,595	(2)	1,135	628,552	54,752	154,306	40,067	4,353	2,312	5,360	9,789	11,633	39
0.15	0.07	0.17	0.08	0.14	(2)	0.29	0.77	1.25	1.20	3.98	0.49	0.56	0.89	0.92	0.57	40
600	.....	600	.....	.....	.....	.....	513,675	44,195	128,286	29,950	1,168	.....	.....	.....	2,090	41
1.00	.....	1.00	.....	.....	.....	.....	1.00	1.58	1.44	3.22	0.55	.....	.....	.....	0.39	42
600	.....	600	.....	.....	.....	.....	565,190	29,965	97,695	10,500	4,605	.....	.....	.....	5,301	43
1.00	.....	1.00	.....	.....	.....	.....	0.91	1.47	1.31	2.85	0.25	.....	.....	.....	0.39	44
600	.....	600	.....	.....	.....	.....	413,741	60,616	98,069	43,349	600	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	10,738,170	1,151,727	2,789,107	818,515	159	.....	.....	.....	.....	46
148	8	83	3	65	5	5	2,808	125	362	12	42	30	26	66	122	47
46,957	3,809	16,520	1,580	30,437	2,229	3,850	778,510	42,019	122,406	10,179	8,929	4,370	6,030	10,855	15,395	48
42,321	1,270	21,622	885	20,699	385	3,821	3,385,057	91,898	591,599	37,616	43,188	15,876	46,522	76,591	169,655	49
0.9	0.3	1.3	0.6	0.7	0.2	1.0	4.3	2.2	4.8	3.7	4.8	3.6	7.7	7.1	11.0	50
0.15	0.07	0.17	0.08	0.14	0.06	0.29	0.86	1.26	1.19	3.03	0.54	0.56	0.89	0.92	0.63	51
0.17	0.21	0.13	0.14	0.21	0.38	0.30	0.20	0.57	0.25	0.82	0.11	0.15	0.12	0.13	0.06	52
.....	.....	.....	.....	.....	.....	.....	85	.....	6	.....	5	1	1	.....	1	53
.....	.....	.....	.....	.....	.....	.....	267,554	.....	42,006	.....	825	(2)	(2)	.....	(2)	54
.....	.....	.....	.....	.....	.....	.....	162,566	.....	20,632	.....	820	(2)	(2)	.....	(2)	55
.....	.....	.....	.....	.....	.....	.....	32,498	.....	12,850	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	12,105	.....	333	.....	70	(2)	(2)	.....	(2)	57

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

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

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

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

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

COLORADO RIVER—Continued																
Gunnison River—Continued												Dolores River				
Direct (40)		Taylor River (42)	Slate River (41)	Tomichi Creek (43)	Smith Fork (38)		North Fork (39)		Uncompahgre River (37)		Salt Creek group (24)	Total		Direct (36)		
1,882		3	44	141	234		1,355		2,189		13	713		232		1
87,931		741	6,506	33,104	20,407		52,779		94,644		984	49,356		11,788		2
65,845		470	5,694	23,889	17,170		43,699		80,866		814	40,099		8,864		3
288		.....	155	53	1,004		287		716		90	333		238		4
21,798		271	657	9,162	2,233		8,793		13,062		80	8,924		2,686		5
20,302		380	.....	17,336	19,329		38,725		69,679		.....	80,436		.....		6
16,813		560	.....	21,752	15,314		31,006		86,119		.....	74,916		.....		7
333.1		95.0	.....	91.0	5.6		36.3		5.5		.....	-38.6		.....		8
104,814		741	8,822	48,069	22,490		70,078		154,106		1,107	133,933		33,245		9
24,451		580	.....	22,839	26,161		53,395		118,174		.....	159,796		.....		10
21,649		620	.....	30,298	31,340		57,189		139,756		.....	180,611		.....		11
16,883		.....	2,316	14,965	2,083		17,299		59,462		123	84,577		21,457		12
4,149		200	.....	5,503	6,832		14,670		28,495		.....	79,360		.....		13
4,836		60	.....	8,546	16,026		26,183		53,637		.....	105,695		.....		14
97,434		741	8,382	47,901	21,104		62,020		129,282		1,107	66,254		16,848		15
22,256		580	.....	22,407	23,876		51,977		109,767		.....	106,457		.....		16
19,909		620	.....	23,068	25,600		33,891		137,756		.....	84,973		.....		17
337.8		27.8	.....	113.8	-11.6		19.3		17.8		.....	-37.8		.....		18
9,503		.....	1,876	14,797	697		9,241		34,638		123	16,898		5,060		19
1,954		200	.....	5,071	4,547		13,252		20,088		.....	26,021		.....		20
3,096		60	.....	1,316	10,286		2,885		51,637		.....	10,057		.....		21
90.2		100.0	77.6	69.1	96.7		85.1		73.2		88.9	74.5		70.0		22
91.2		65.5	.....	77.4	81.0		74.5		81.7		.....	75.6		.....		23
84.4		90.3	.....	94.3	59.8		91.5		62.5		.....	88.2		.....		24
2,052,695		7,200	76,238	118,939	573,039		1,271,099		9,126,156		21,756	1,635,041		843,761		25
1,991,069		7,175	70,793	110,995	563,509		1,244,797		9,105,927		20,598	1,548,747		763,462		26
61,626		25	5,445	7,944	9,530		26,302		20,229		1,158	86,294		80,299		27
784,520		7,700	.....	112,835	484,950		764,243		6,993,474		.....	6,482,945		.....		28
1,001,819		6,900	.....	129,243	396,075		622,647		6,945,702		.....	4,847,569		.....		29
161.6		-6.5	.....	5.4	18.2		66.3		30.5		.....	-74.8		.....		30
21.07		9.72	9.10	2.48	27.15		20.49		70.59		19.65	21.68		50.08		31
35.25		13.28	.....	5.04	20.31		14.70		63.71		.....	60.90		.....		32
50.32		11.13	.....	5.60	15.47		18.37		50.42		.....	57.05		.....		33
23.34		9.72	11.72	3.59	28.08		24.08		96.43		22.11	33.13		71.58		34
2,349,100		7,200	83,038	118,959	573,039		1,423,299		9,374,647		21,806	1,792,831		858,991		35
22.41		9.72	9.41	2.47	25.48		20.31		60.83		19.70	13.39		25.84		36
Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.		Primary Enterprises	Sup.	Primary Enterprises	Sup.	
350	34	3	35	80	32	3	151	23	141	6	9	152	5	95	4	37
83,456	13,076	741	6,506	31,929	20,407	879	52,379	5,385	94,089	684	876	48,703	526	11,235	449	38
48,063	8,027	106	2,610	7,428	4,734	105	36,420	874	129,039	263	1,205	25,745	241	10,813	191	39
0.58	0.61	0.14	0.40	0.23	0.23	0.12	0.70	0.16	1.37	0.38	1.38	0.53	0.46	0.96	0.43	40
41,901	8,318	.....	148	1,870	10,350	.....	43,412	685	135,845	.....	.....	35,385	.....	16,414	.....	41
0.88	0.84	.....	0.30	0.16	0.56	.....	0.98	1.25	1.61	.....	.....	0.91	.....	2.92	.....	42
45,216	10,375	.....	500	11,392	18,872	.....	47,514	550	98,596	.....	.....	42,159	.....	7,790	.....	43
0.93	0.80	.....	0.30	0.16	0.55	.....	0.91	1.25	1.38	.....	.....	0.84	.....	2.11	.....	44
34,171	4,231	.....	.....	720	10,101	.....	41,752	462	111,369	.....	.....	31,625	.....	13,378	.....	45
17,607	167,212	.....	.....	.....	68,000	.....	108,315	.....	7,483,105	.....	.....	106,434	.....	75,500	.....	46
342	34	2	33	82	30	3	150	23	132	7	12	130	4	80	4	47
75,378	13,123	(4)	6,492	32,854	19,860	879	52,501	1,841	91,302	3,873	984	45,304	532	10,424	532	48
404,225	14,609	(4)	41,782	148,293	58,894	1,224	176,284	3,629	481,176	9,827	2,143	126,341	1,145	43,303	1,145	49
5.4	1.1	(4)	6.4	4.5	3.0	1.4	3.4	2.0	5.3	2.5	2.2	2.8	2.2	4.2	2.2	50
0.79	0.79	(4)	0.40	0.22	0.54	0.12	0.92	0.65	1.53	0.38	1.38	0.89	0.42	1.97	0.42	51
0.15	0.71	(4)	0.06	0.05	0.18	0.09	0.27	0.33	0.29	0.15	0.63	0.32	0.20	0.47	0.20	52
20	.....	.....	.....	2	1	.....	7	.....	11	.....	.....	9	.....	1	.....	53
17,589	.....	.....	.....	(4)	(4)	.....	2,931	.....	114,239	.....	.....	8,957	.....	(4)	.....	54
15,778	.....	.....	.....	(4)	(4)	.....	2,621	.....	67,308	.....	.....	7,622	.....	(4)	.....	55
1,748	.....	.....	.....	.....	(4)	.....	5	.....	17,800	.....	.....	80	.....	.....	.....	56
1,582	.....	.....	.....	(4)	(4)	.....	259	.....	5,585	.....	.....	511	.....	(4)	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued					
		Dolores River—Con.			Green River		
							Yampa River
		San Miguel River (58)	Garfield Creek (76)	Little Dolores River (81)	Total	Direct (9)	Total
	IRRIGATED FARMS AND AREAS						
1	Irrigated farms....1939...number....	481	25	24	947	13	683
2	Area irrigated....1939...acres....	37,568	2,004	2,319	99,817	1,272	63,014
3	(a) Cropland harvested....1939...acres....	31,235	1,841	1,701	86,350	408	54,419
4	(b) Crop failure....1939...acres....	95	.....	138	1,066	31	653
5	(c) Pasture....1939...acres....	6,238	163	480	12,401	833	7,942
6	Area irrigated....1929...acres....	.....	.....	.....	103,888	.....	74,753
7	1919...acres....	.....	.....	.....	94,003	.....	68,198
8	Increase or decrease (-), 1929-1939....percent....	.....	.....	.....	-3.9	.....	-15.7
9	Irrigable area in enterprises....1940...acres....	100,688	3,304	4,471	138,168	1,732	93,819
10	1930...acres....	.....	.....	.....	155,944	.....	117,951
11	1920[1]...acres....	.....	.....	.....	165,279	.....	124,598
12	Excess of irrigable area over the area irrigated..1940...acres....	63,120	1,300	2,152	38,351	460	30,805
13	1930...acres....	.....	.....	.....	52,056	.....	43,198
14	1920[1]...acres....	.....	.....	.....	71,276	.....	56,400
15	Area works were capable of supplying with water...1940...acres....	49,406	3,304	4,471	122,226	1,639	79,940
16	1930...acres....	.....	.....	.....	137,120	.....	103,940
17	1920...acres....	.....	.....	.....	115,921	.....	86,503
18	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	-10.9	.....	-23.1
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	11,838	1,300	2,152	22,409	367	16,926
20	1930...acres....	.....	.....	.....	33,232	.....	29,187
21	1920...acres....	.....	.....	.....	21,918	.....	18,305
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	76.0	60.7	51.9	81.7	77.6	78.8
23	1929...percent....	.....	.....	.....	75.8	.....	71.9
24	1919...percent....	.....	.....	.....	81.1	.....	78.8
	CAPITAL INVESTED TO JANUARY 1						
25	Total investment in irrigation enterprises....1940...dollars....	791,260	22,700	41,725	1,356,339	5,031	830,883
26	(a) Cost of irrigation works and equipment....1940...dollars....	785,285	22,500	33,575	1,300,844	4,671	792,553
27	(b) Investment in water rights (reported)....1940...dollars....	5,995	200	8,150	55,495	360	38,330
28	Total investment in irrigation enterprises....1930...dollars....	.....	.....	.....	1,337,707	.....	862,657
29	1920...dollars....	.....	.....	.....	1,372,889	.....	923,673
30	Increase or decrease (-), 1930-1940....percent....	.....	.....	.....	1.4	.....	-3.7
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	16.02	6.87	9.33	11.10	3.07	10.39
32	1930...dollars....	.....	.....	.....	9.76	.....	8.30
33	1920...dollars....	.....	.....	.....	11.84	.....	10.68
34	Average investment per acre irrigated....1939...dollars....	21.06	11.33	17.99	13.59	3.96	13.19
35	Estimated final investment in existing enterprises..1940...dollars....	933,840	22,700	42,725	1,623,119	5,311	1,091,038
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	9.27	6.87	9.56	11.75	3.07	11.63
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises
37	Enterprises reporting maintenance and operation...1939...number....	57 / 1	17	26	485 / 7	11	342 / 4
38	Area irrigated in these enterprises....1939...acres....	37,468 / (2)	2,004	2,319	90,242 / 2,947	1,029	54,644 / 2,371
39	Cost of maintenance and operation....1939...dollars....	14,932 / (2)	336	1,226	56,023 / 346	571	36,387 / 235
40	Average cost, per acre irrigated....1939...dollars....	0.40 / (2)	0.17	0.53	0.62 / 0.12	0.55	0.67 / 0.10
41	Total annual charges (reported)[3] [4]....1939...dollars....	18,971 /	25	.....	14,182 / 150	.....	9,682 / 150
42	Average annual charge per acre irrigated....1939...dollars....	0.57 /	0.06	.....	0.45 / 0.08	.....	0.56 / 0.08
43	Area against which charges were assessed....1939...acres....	34,369 /	412	.....	35,096 / 2,000	.....	18,707 / 2,000
44	Average annual charge per acre assessed....1939...dollars....	0.55 /	0.06	.....	0.40 / 0.08	.....	0.52 / 0.08
45	Total charges collected[3]....1939...dollars....	18,247 /	.....	.....	3,980 / 150	.....	3,202 / 150
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	30,934 /	.....	.....	88,901 /	.....	88,151 / .....
	WATER DELIVERED TO IRRIGATORS, 1939						
47	Enterprises reporting water delivered....1939...number....	50 /	15	21	545 / 11	13	397 / 8
48	Area irrigated by these enterprises....1939...acres....	34,880 /	1,721	2,281	94,091 / 3,057	1,272	57,447 / 2,481
49	Water delivered....1939...acre-feet..	83,038 /	6,110	4,907	323,736 / 3,478	1,956	186,628 / 2,486
50	Average water delivered per acre irrigated....1939...acre-feet..	2.4 /	3.6	2.2	3.4 / 1.1	1.5	3.2 / 1.0
51	Average cost of water per acre irrigated....1939...dollars....	0.58 /	0.18	0.48	0.62 / 0.12	0.55	0.68 / 0.10
52	Average cost of water per acre-foot delivered..1939...dollars....	0.24 /	0.05	0.22	0.18 / 0.10	0.36	0.21 / 0.10
	DRAINAGE OF IRRIGATED LAND						
53	Enterprises reporting land drained or needing drainage....1939...number....	8 /	.....	.....	8 /	.....	4 / .....
54	Irrigable area in these enterprises....1939...acres....	8,897 /	.....	.....	6,850 /	.....	4,375 / .....
55	Irrigated area in these enterprises....1939...acres....	7,562 /	.....	.....	5,480 /	.....	3,520 / .....
56	Area for which drains have been installed....1939...acres....	80 /	.....	.....	2 /	.....	..... / .....
57	Additional area needing drainage....1939...acres....	491 /	.....	.....	1,210 /	.....	745 / .....

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

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

COLORADO RIVER—Continued															
Green River—Continued									San Juan River						
Yampa River—Continued															
Direct (10)		Trout Creek (11)	Elk River (7)	Little Snake River (8)	White River (23)		Total		Direct (64)		Los Pinos River (63)		Animas River (62)		
487		36	100	60	251		2,087		207		580		342		1
42,926		2,748	10,597	6,743	35,531		135,948		14,301		40,822		24,515		2
37,513		2,369	9,043	5,494	31,523		114,672		12,066		32,917		22,096		3
518		4	100	31	382		2,954		164		87		220		4
4,895		375	1,454	1,218	3,626		18,322		2,071		7,818		2,189		5
22,138		.....	.....	7,884	27,773		129,811		2,262		42,881		27,283		6
18,029		.....	.....	9,617	25,625		87,228		1,451		28,762		17,819		7
93.9		.....	.....	-14.5	27.9		4.7		526.7		-4.8		-10.1		8
65,902		4,019	14,051	9,847	42,617		205,571		17,358		55,947		34,765		9
34,996		.....	.....	11,423	36,263		179,781		2,917		63,177		35,214		10
28,221		.....	.....	16,242	40,441		152,934		2,989		52,946		38,043		11
22,976		1,271	3,454	3,104	7,086		69,623		3,057		15,125		10,250		12
12,858		.....	.....	3,539	8,490		49,970		635		20,296		7,931		13
10,192		.....	.....	6,625	14,816		65,706		1,538		24,184		20,224		14
53,848		3,900	12,563	9,629	40,647		164,213		17,229		45,384		29,500		15
28,187		.....	.....	11,003	31,648		159,187		2,876		57,832		29,374		16
18,832		.....	.....	12,449	29,238		103,675		1,634		40,773		19,519		17
91.0		.....	.....	-12.5	28.4		3.2		499.1		-21.5		0.4		18
10,922		1,152	1,966	2,886	5,116		28,265		2,928		4,562		4,985		19
6,049		.....	.....	3,119	3,875		29,376		594		14,951		2,091		20
803		.....	.....	2,832	3,613		16,447		183		12,011		1,700		21
79.7		70.5	84.4	70.0	87.4		82.8		83.0		89.9		83.1		22
78.5		.....	.....	71.7	87.8		81.5		79.3		74.1		92.9		23
95.7		.....	.....	77.3	87.6		84.1		88.8		70.5		91.3		24
656,773		34,730	76,810	62,570	520,425		6,469,019		102,812		1,142,220		589,843		25
633,913		31,850	67,260	59,530	503,620		6,295,947		90,362		1,098,179		509,372		26
22,860		2,880	9,550	3,040	16,805		173,072		12,450		44,041		80,471		27
298,435		.....	.....	108,877	460,500		1,346,440		19,859		559,550		360,177		28
162,768		.....	.....	237,254	447,141		1,166,170		25,200		521,590		323,638		29
120.1		.....	.....	-42.5	13.0		380.5		417.7		104.1		63.8		30
12.20		8.91	6.11	6.50	12.80		39.39		5.97		25.17		19.99		31
10.59		.....	.....	9.90	14.55		8.46		6.91		9.68		12.26		32
8.64		.....	.....	19.06	15.29		11.25		15.42		12.79		16.56		33
15.30		12.64	7.25	9.28	14.65		47.58		7.19		27.98		24.06		34
903,093		36,730	87,385	63,830	526,770		7,514,449		103,797		1,864,315		592,133		35
13.70		9.14	6.22	6.48	12.36		36.55		5.98		33.32		17.03		36
Primary Enterprises	Sup.				Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	
207	4	21	67	47	132	3	427	19	131	2	57	5	72	5	37
35,016	2,371	2,668	10,342	6,618	34,569	576	134,719	2,083	14,159	(2)	40,791	61	23,865	312	38
27,321	236	769	3,913	4,384	19,065	110	98,492	1,455	7,645	(2)	29,561	24	12,183	112	39
0.78	0.10	0.29	0.38	0.66	0.55	0.19	0.73	0.70	0.54	(2)	0.72	0.39	0.51	0.36	40
7,981	150	100	75	1,526	4,500	.....	83,962	1,203	2,276	.....	16,451	.....	12,073	.....	41
0.57	0.08	0.11	0.09	1.05	0.32	.....	0.74	1.07	0.40	.....	0.42	.....	0.57	.....	42
14,379	2,000	937	796	2,595	16,389	.....	127,563	1,470	6,060	.....	41,718	.....	22,425	.....	43
0.56	0.08	0.11	0.09	0.59	0.27	.....	0.66	0.82	0.38	.....	0.39	.....	0.54	.....	44
1,674	150	.....	.....	1,528	778	.....	74,703	10,484	1,990	.....	15,917	.....	13,659	.....	45
87,950	.....	.....	.....	201	750	.....	53,929	166,000	49	.....	6,598	.....	37,650	.....	46
260	8	22	67	48	135	3	255	10	41	1	35	3	51	3	47
38,564	2,481	2,748	9,392	6,743	35,372	576	115,371	1,071	7,453	(2)	34,878	45	20,370	312	48
137,008	2,486	8,954	26,340	14,326	135,152	992	293,496	2,066	14,347	(2)	99,259	35	58,828	1,300	49
3.6	1.0	3.3	2.8	2.1	3.8	1.7	2.5	1.9	1.9	(2)	2.8	0.8	2.9	4.2	50
0.78	0.10	0.29	0.32	0.85	0.54	0.19	0.73	0.85	0.38	(2)	0.43	0.31	0.56	0.35	51
0.22	0.10	0.09	0.11	0.40	0.14	0.11	0.29	0.44	0.20	(2)	0.15	0.40	0.19	0.08	52
3	.....	.....	1	.....	4	.....	10	.....	5	.....	1	.....	1	.....	53
3,635	.....	.....	(2)	.....	2,475	.....	71,247	.....	2,200	.....	(2)	.....	(2)	.....	54
2,840	.....	.....	(2)	.....	1,960	.....	40,315	.....	2,039	.....	(2)	.....	(2)	.....	55
.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	(2)	.....	56
705	.....	.....	(2)	.....	465	.....	2,136	.....	26	.....	(2)	.....	.....	.....	57

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued						
		San Juan River—Continued						
		La Plata River (61)		Mancos River (60)		McElmo Creek (59)		Piedra River (79)
	IRRIGATED FARMS AND AREAS							
1	Irrigated farms....1939...number....	206		165		514		73
2	Area irrigated....1939...acres....	9,908		10,410		32,358		3,634
3	(a) Cropland harvested....1939...acres....	7,126		7,526		29,957		2,984
4	(b) Crop failure....1939...acres....	1,536		775		42		130
5	(c) Pasture....1939...acres....	1,246		2,109		2,359		520
6	Area irrigated....1929...acres....	24,308		13,167		.....		.....
7	1919...acres....	17,174		9,040		.....		.....
8	Increase or decrease (-), 1929-1939....percent....	-59.2		-20.9		.....		.....
9	Irrigable area in enterprises....1940...acres....	26,790		12,540		53,492		4,679
10	1930...acres....	33,255		17,945		.....		.....
11	1920[1]..acres....	20,473		18,149		.....		.....
12	Excess of irrigable area over the area irrigated..1940...acres....	16,882		2,130		21,134		1,045
13	1930...acres....	8,947		4,778		.....		.....
14	1920[1]..acres....	3,299		9,109		.....		.....
15	Area works were capable of supplying with water...1940...acres....	18,212		12,511		36,718		4,659
16	1930...acres....	29,920		16,200		.....		.....
17	1920...acres....	17,935		9,494		.....		.....
18	Increase or decrease (-), 1930-1940....percent....	-39.1		-22.8		.....		.....
19	Excess of area works were capable of supplying with water over area irrigated....1940...acres....	8,304		2,101		4,360		1,025
20	1930...acres....	5,612		3,033		.....		.....
21	1920...acres....	761		454		.....		.....
22	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	54.4		83.2		88.1		78.0
23	1929...percent....	81.2		81.3		.....		.....
24	1919...percent....	95.8		95.2		.....		.....
	CAPITAL INVESTED TO JANUARY 1							
25	Total investment in irrigation enterprises....1940...dollars....	143,217		146,285		4,313,972		30,670
26	(a) Cost of irrigation works and equipment....1940...dollars....	136,302		125,645		4,307,762		28,325
27	(b) Investment in water rights (reported)....1940...dollars....	6,915		20,640		6,210		2,345
28	Total investment in irrigation enterprises....1930...dollars....	120,119		113,355		.....		.....
29	1920...dollars....	94,613		35,477		.....		.....
30	Increase or decrease (-), 1930-1940....percent....	19.2		29.1		.....		.....
31	Average investment based on area works were capable of supplying with water, per acre....1940...dollars....	7.86		11.69		117.49		6.58
32	1930...dollars....	4.01		7.00		.....		.....
33	1920...dollars....	5.28		3.74		.....		.....
34	Average investment per acre irrigated....1939...dollars....	14.45		14.05		133.32		8.44
35	Estimated final investment in existing enterprises..1940...dollars....	246,827		161,685		4,514,622		31,070
36	Average investment based on estimated final investment and irrigable area, per acre....1940...dollars....	9.21		12.89		84.40		6.64
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	Primary Enterprises	Supplemental Enterprises	
37	Enterprises reporting maintenance and operation...1939...number....	42	4	45	1	40	2	40
38	Area irrigated in these enterprises....1939...acres....	9,868	1,002	10,319	(2)	32,220	(2)	3,497
39	Cost of maintenance and operation....1939...dollars....	3,416	559	3,980	(2)	39,949	(2)	1,758
40	Average cost, per acre irrigated....1939...dollars....	0.35	0.56	0.39	(2)	1.24	(2)	0.50
41	Total annual charges (reported)[3] [4]....1939...dollars....	4,159	503	1,754	700	46,849	.....	400
42	Average annual charge per acre irrigated....1939...dollars....	0.47	0.69	0.24	1.75	1.54	.....	0.78
43	Area against which charges were assessed....1939...acres....	15,180	1,070	7,885	400	33,785	.....	510
44	Average annual charge per acre assessed....1939...dollars....	0.27	0.47	0.22	1.75	1.39	.....	0.78
45	Total charges collected[3]....1939...dollars....	4,133	.....	1,327	499	37,427	9,985	250
46	Indebtedness to December 31 (reported)[4]....1939...dollars....	57	.....	700	.....	8,875	166,000	.....
	WATER DELIVERED TO IRRIGATORS, 1939							
47	Enterprises reporting water delivered....1939...number....	32	2	25	1	31	.....	40
48	Area irrigated by these enterprises....1939...acres....	9,693	(2)	8,859	(2)	31,134	.....	2,984
49	Water delivered....1939...acre-feet..	12,544	(2)	13,000	(2)	91,896	.....	3,634
50	Average water delivered per acre irrigated....1939...acre-feet..	1.3	(2)	1.5	(2)	3.0	.....	1.2
51	Average cost of water per acre irrigated....1939...dollars....	0.46	(2)	0.24	(2)	1.53	.....	0.40
52	Average cost of water per acre-foot delivered..1939...dollars....	0.36	(2)	0.16	(2)	0.53	.....	0.33
	DRAINAGE OF IRRIGATED LAND							
53	Enterprises reporting land drained or needing drainage....1939...number....	1	.....	1	.....	1	.....	.....
54	Irrigable area in these enterprises....1939...acres....	(2)	.....	(2)	.....	(2)	.....	.....
55	Irrigated area in these enterprises....1939...acres....	.....	.....	(2)	.....	(2)	.....	.....
56	Area for which drains have been installed....1939...acres....	.....	.....	.....	.....	.....	.....	.....
57	Additional area needing drainage....1939...acres....	(2)	.....	(2)	.....	(2)	.....	.....

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	STATE TOTAL	MISSOURI RIVER						
			Total	Platte River					
				Total	North Platte River			South Platte River	
					Total	Direct (6)	Laramie River (5)	Total[1]	Direct (32)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	[2]8,741	2,781	2,750	231	215	16	2,519	1,190
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	448	515	519	747	784	257	498	525
3	Diversion dams.....1940..total number.....	4,792	1,282	1,258	331	325	6	927	380
4	1930..total number.....	3,672	889	885	208	1	58	677	96
5	1920..total number.....	3,647	1,124	1,099	268	3	32	831	103
6	(a) Concrete and masonry.....1940..number.....	367	147	144	.....	.....	.....	144	30
7	(b) Timber.....1940..number.....	427	62	61	10	10	.....	51	16
8	(c) Earth and rock.....1940..number.....	2,838	851	841	301	296	5	540	223
9	(d) Other, mixed, and not reported..1940..number.....	1,160	222	212	20	19	1	192	112
10	Main canals and laterals.....1940..total length, miles.....	19,864.0	5,991.1	5,936.8	1,193.0	1,193.0	5.0	4,738.8	2,419.7
11	1930..total length, miles.....	21,381	5,934	5,925	673	40	109	5,252	2,078
12	1920..total length, miles.....	27,593	8,093	7,986	896	16	74	7,090	1,725
13	(a) Earth.....1940..length, miles.....	19,707	5,923	5,869	1,198	1,193	5	4,671	2,415
14	(b) Lined.....1940..length, miles.....	157.0	68.1	67.8	.....	.....	.....	67.8	4.7
15	1940..capacity, c.f.s.[3].....	139,780	43,390	43,140	5,943	5,708	235	37,197	18,534
16	1930..capacity, c.f.s.[3].....	123,652	42,439	42,430	4,905	213	693	38,125	16,435
17	1920..capacity, c.f.s.[3].....	119,558	43,121	42,444	5,607	310	478	36,837	12,674
18	Pipe lines[4].....1940..total length, miles.....	245.1	83.5	83.3	0.5	0.5	.....	82.8	20.0
19	1930..total length, miles.....	131.9	23.1	23.0	.....	.....	.....	23.0	3.4
20	1920..total length, miles.....	217.3	46.9	46.8	.....	.....	.....	46.8	9.7
21	(a) Concrete.....1940..length, miles.....	86.7	20.9	20.9	.....	.....	.....	20.9	10.0
22	(b) Metal.....1940..length, miles.....	93.5	42.2	42.0	0.5	0.5	.....	41.5	6.1
23	(c) Wood-stave.....1940..length, miles.....	23.7	1.5	1.5	.....	.....	.....	1.5	0.4
24	(d) Other.....1940..length, miles.....	41.2	18.9	18.9	.....	.....	.....	18.9	3.5
25	Storage dams.....1940..total number.....	1,015	377	372	11	11	.....	361	90
26	1930..total number.....	706	237	235	14	.....	.....	221	20
27	1920..total number.....	803	313	305	11	2	1	294	14
28	(a) Concrete and masonry.....1940..number.....	19	7	7	.....	.....	.....	7	2
29	(b) Earth and rock.....1940..number.....	951	354	349	10	10	.....	339	78
30	(c) Other, mixed, and not reported..1940..number.....	45	16	16	1	1	.....	15	10
31	Reservoirs.....1940..total number.....	[5]1,071	386	380	12	12	.....	368	98
32	(a) 1-99 acre-feet capacity.....1940..number.....	491	133	128	7	7	.....	121	32
33	(b) 100-999 acre-feet capacity....1940..number.....	348	127	126	4	4	.....	122	16
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	229	126	126	1	1	.....	125	50
35	1940..total capacity, ac.-ft.[6]..	2,071,522	763,972	763,497	7,118	7,118	.....	756,379	401,562
36	1930..total number.....	765	279	276	15	.....	.....	261	23
37	1930..total capacity, ac.-ft....	1,924,982	800,263	800,257	16,714	.....	.....	783,543	386,654
38	Wells, flowing.....1940..number.....	886	4	4	.....	.....	.....	4	4
39	1930..number.....	621	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	476	4	4	.....	.....	.....	4	3
41	1940..yield, g.p.m.....	54,859	165	165	.....	.....	.....	165	165
42	1930..yield, g.p.m.....	39,644	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	20,139	230	230	.....	.....	.....	230	170
44	Wells, pumped.....1940..number.....	2,878	1,989	1,982	2	2	.....	1,980	1,022
45	1930..number.....	654	457	457	.....	.....	.....	457	4
46	1920..number.....	527	283	283	.....	.....	.....	283	90
47	1940..yield, g.p.m.....	1,929,798	1,387,043	1,381,325	(7)	(7)	.....	1,381,165	797,199
48	1930..yield, g.p.m.....	237,903	155,912	155,912	.....	.....	.....	155,912	3,415
49	1920..yield, g.p.m.....	210,094	124,338	124,338	.....	.....	.....	124,338	42,452
50	Pumping plants.....1940..total number.....	2,806	1,909	1,899	2	2	.....	1,897	990
51	1930..total number.....	516	334	334	.....	.....	.....	334	11
52	Prime movers.....1940..capacity, hp.....	49,157	32,582	32,269	(7)	(7)	.....	32,239	16,786
53	1930..capacity, hp.....	11,204	4,441	4,441	.....	.....	.....	4,441	220
54	1920..capacity, hp.....	8,635	3,103	3,103	.....	.....	.....	3,103	1,096
55	(a) Electric.....1940..number.....	1,088	902	902	.....	.....	.....	902	386
56	1940..capacity, hp.....	14,196	10,985	10,985	.....	.....	.....	10,985	5,740
57	(b) Internal-combustion.....1940..number.....	1,612	998	989	2	2	.....	987	598
58	1940..capacity, hp.....	32,149	21,525	21,213	(7)	(7)	.....	21,183	10,987
59	(c) Other.....1940..number.....	106	9	8	.....	.....	.....	8	6
60	1940..capacity, hp.....	2,812	72	71	.....	.....	.....	71	59
61	Pumps.....1940..total number.....	2,818	1,919	1,909	2	2	.....	1,907	1,000
62	1930..number.....	540	348	348	.....	.....	.....	348	12
63	1920..number.....	435	241	241	.....	.....	.....	241	78
64	1940..capacity, g.p.m.....	2,263,375	1,473,605	1,463,837	(7)	(7)	.....	1,463,602	833,261
65	1930..capacity, g.p.m.....	437,250	192,615	192,615	.....	.....	.....	192,615	9,364
66	1920..capacity, g.p.m.....	299,726	166,263	166,263	.....	.....	.....	166,263	50,812
67	(a) Centrifugal.....1940..number.....	1,564	968	964	2	2	.....	962	602
68	1940..capacity, g.p.m.....	1,151,926	656,057	652,057	(7)	(7)	.....	651,822	442,786
69	1940..average capacity, g.p.m..	737	678	676	(7)	(7)	.....	678	736
70	(b) Turbine.....1940..number.....	1,118	912	907	.....	.....	.....	907	382
71	1940..capacity, g.p.m.....	1,091,791	808,852	803,102	.....	.....	.....	803,102	386,972
72	1940..average capacity, g.p.m..	977	887	885	.....	.....	.....	885	1,013
73	(c) Plunger.....1940..number.....	102	19	18	.....	.....	.....	18	11
74	1940..capacity, g.p.m.....	1,800	521	503	.....	.....	.....	503	323
75	1940..average capacity, g.p.m..	18	27	28	.....	.....	.....	28	29
76	(d) Other.....1940..number.....	34	20	20	.....	.....	.....	20	5
77	1940..capacity, g.p.m.....	17,858	8,175	8,175	.....	.....	.....	8,175	3,180
78	Pumping lift, from all sources.....1940..average, feet.....	32	36	36	(7)	(7)	.....	36	33
79	1930..average, feet.....	25	24	24	.....	.....	.....	24	20
80	1920..average, feet.....	23	22	22	.....	.....	.....	22	22
81	from pumped wells.....1940..average, feet.....	33	36	36	(7)	(7)	.....	36	34
82	from surface sources...1940..average, feet.....	24	23	22	(7)	(7)	.....	23	15

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	MISSOURI RIVER—Continued							
		Platte River—Continued							
		South Platte River—Continued							
						St. Vrain Creek			
		Plum Creek (31)	Bear Creek (29)	Cherry Creek (19)	Clear Creek (28)	Total	Direct (15)	Boulder Creek (20)	Thompson River (14)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	41	33	37	138	201	95	106	76
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	66	372	91	603	899	673	922	1,056
3	Diversion dams.....1940..total number.....	34	39	21	42	119	59	60	56
4	1930..total number.....	.....	8	.....	17	87	.....	.....	38
5	1920..total number.....	.....	29	.....	81	171	.....	.....	33
6	(a) Concrete and masonry.....1940..number.....	.....	9	.....	14	47	22	25	13
7	(b) Timber.....1940..number.....	.....	4	.....	7	13	9	4	7
8	(c) Earth and rock.....1940..number.....	33	18	21	16	42	22	20	28
9	(d) Other, mixed, and not reported..1940..number.....	1	8	.....	5	17	6	11	8
10	Main canals and laterals.....1940..total length, miles.....	55.0	87.9	47.0	313.4	712.5	307.7	404.8	308.6
11	1930..total length, miles.....	.....	71	.....	324	690	.....	.....	269
12	1920..total length, miles.....	.....	62	.....	271	2,005	.....	.....	387
13	(a) Earth.....1940..length, miles.....	55	82	47	308	708	306	402	306
14	(b) Lined.....1940..length, miles.....	.....	5.9	.....	5.4	4.5	1.7	2.8	2.6
15	1940..capacity, c.f.s.[4].....	175	611	113	3,186	4,758	1,708	3,050	3,515
16	1930..capacity, c.f.s.[4].....	.....	409	.....	2,274	4,113	.....	.....	2,939
17	1920..capacity, c.f.s.[4].....	.....	359	.....	1,806	5,600	.....	.....	2,810
18	Pipe lines[5].....1940..total length, miles.....	0.1	1.9	.....	6.4	4.6	3.1	1.5	11.7
19	1930..total length, miles.....	.....	0.5	.....	6.2	2.3	.....	.....	6.0
20	1920..total length, miles.....	.....	1.0	.....	0.1	12.7	.....	.....	1.9
21	(a) Concrete.....1940..length, miles.....	.....	1.2	.....	0.3	.....	.....	.....	0.7
22	(b) Metal.....1940..length, miles.....	0.1	0.7	.....	5.7	2.4	1.2	1.2	7.2
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	0.1	.....	.....	.....	0.1
24	(d) Other.....1940..length, miles.....	.....	.....	.....	0.3	2.2	1.9	0.3	3.7
25	Storage dams.....1940..total number.....	2	22	3	45	59	35	24	32
26	1930..total number.....	.....	8	.....	30	28	.....	.....	22
27	1920..total number.....	.....	7	.....	5	83	.....	.....	23
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	2	2	.....	2	.....
29	(b) Earth and rock.....1940..number.....	2	22	3	43	56	35	21	31
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	1	.....	1	1
31	Reservoirs.....1940..total number.....	3	20	2	48	63	38	25	24
32	(a) 1-99 acre-feet capacity.....1940..number.....	3	2	2	22	15	9	6	8
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	18	.....	26	33	19	14	6
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	.....	.....	.....	.....	15	10	5	10
35	1940..total capacity, ac.-ft.[6]..	24	5,986	(7)	30,179	64,676	34,567	30,109	79,326
36	1930..total number.....	.....	28	.....	21	37	.....	.....	28
37	1930..total capacity, ac.-ft....	.....	8,670	.....	27,068	45,853	.....	.....	90,758
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	.....	1	7	75	12	5	7	20
45	1930..number.....	.....	.....	.....	7	5	.....	.....	.....
46	1920..number.....	.....	.....	.....	.....	1	.....	.....	1
47	1940..yield, g.p.m.....	.....	(7)	7,200	14,659	7,360	3,800	3,560	10,040
48	1930..yield, g.p.m.....	.....	.....	.....	354	1,050	.....	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	1,200
50	Pumping plants.....1940..total number.....	.....	1	9	75	16	7	9	19
51	1930..total number.....	.....	.....	.....	12	7	.....	.....	3
52	Prime movers.....1940..capacity, hp.....	.....	(7)	233	670	303	187	116	351
53	1930..capacity, hp.....	.....	.....	.....	54	152	.....	.....	85
54	1920..capacity, hp.....	.....	7	.....	.....	100	.....	.....	106
55	(a) Electric.....1940..number.....	.....	1	1	19	5	3	2	3
56	1940..capacity, hp.....	.....	(7)	(7)	117	51	35	(7)	40
57	(b) Internal-combustion.....1940..number.....	.....	.....	8	55	11	4	7	15
58	1940..capacity, hp.....	.....	.....	225	547	252	152	100	305
59	(c) Other.....1940..number.....	.....	.....	.....	1	.....	.....	.....	1
60	1940..capacity, hp.....	.....	.....	.....	(7)	.....	.....	.....	(7)
61	Pumps.....1940..total number.....	.....	1	8	75	16	7	9	20
62	1930..number.....	.....	.....	.....	12	7	.....	.....	3
63	1920..number.....	.....	5	.....	.....	4	.....	.....	6
64	1940..capacity, g.p.m.....	.....	(7)	8,750	17,039	10,940	6,650	4,290	14,190
65	1930..capacity, g.p.m.....	.....	.....	.....	865	7,450	.....	.....	4,290
66	1920..capacity, g.p.m.....	.....	.....	.....	.....	1,000	.....	.....	5,831
67	(a) Centrifugal.....1940..number.....	.....	.....	1	59	12	5	7	14
68	1940..capacity, g.p.m.....	.....	.....	(7)	13,700	8,500	5,250	3,250	10,370
69	1940..average capacity, g.p.m..	.....	.....	(7)	232	708	1,050	464	741
70	(b) Turbine.....1940..number.....	.....	.....	6	11	4	2	2	5
71	1940..capacity, g.p.m.....	.....	.....	6,000	3,075	2,440	(7)	(7)	3,800
72	1940..average capacity, g.p.m..	.....	.....	1,000	280	610	(7)	(7)	760
73	(c) Plunger.....1940..number.....	.....	1	.....	3	.....	.....	.....	1
74	1940..capacity, g.p.m.....	.....	(7)	.....	54	.....	.....	.....	(7)
75	1940..average capacity, g.p.m..	.....	(7)	.....	18	.....	.....	.....	(7)
76	(d) Other.....1940..number.....	.....	.....	1	2	.....	.....	.....	.....
77	1940..capacity, g.p.m.....	.....	.....	(7)	(7)	.....	.....	.....	.....
78	Pumping lift, from all sources.....1940..average, feet.....	.....	(7)	34	27	25	23	26	28
79	1930..average, feet.....	.....	.....	.....	29	23	.....	.....	31
80	1920..average, feet.....	.....	40	.....	.....	22	.....	.....	17
81	from pumped wells.....1940..average, feet.....	.....	(7)	26	28	25	22	27	35
82	from surface sources...1940..average, feet.....	.....	.....	54	19	25	28	22	18

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

WORKS, 1940, 1930, AND 1920—Continued

MISSOURI RIVER—Continued							MISSISSIPPI RIVER (Exclusive of Missouri River)							
Platte River—Continued				Kansas River			Arkansas River							
South Platte River—Continued				Republican River										
Cache la Poudre River (4)	Crow Creek (2)	Bijou Creek group (16)	Horsetail Creek (1)	Total[2]	Direct (18)	Arikaree River[3] (17)	Total	Direct[1] (33)	Texas Creek (77)	Grape Creek (46)	Turkey Creek (47)	Fountain Creek (48)	St. Charles River (49)	
555	30	212	3	31	4	25	1,550	754	44	111	15	93	77	1
426	76	132	255	155	196	153	402	583	120	238	1,171	247	148	2
225	2	9	.....	24	2	22	706	259	12	25	6	51	39	3
126	3	10	.....	4	.....	.....	689	65	.....	.....	.....	4	68	4
98	6	4	.....	25	.....	.....	919	88	.....	.....	.....	6	87	5
30	.....	1	.....	3	.....	3	55	21	.....	1	4	2	6	6
4	.....	.....	.....	1	1	.....	40	26	4	.....	.....	1	1	7
151	1	8	.....	10	1	9	325	119	6	23	2	22	16	8
40	1	.....	.....	10	.....	10	286	93	2	1	.....	26	16	9
726.7	9.0	58.0	1.0	54.3	9.0	44.3	3,589.4	2,285.1	56.0	93.6	4.1	148.0	151.0	10
1,225	6	40	.....	9	.....	.....	4,362	2,318	.....	.....	.....	196	92	11
1,587	17	27	.....	107	.....	.....	6,058	2,957	.....	.....	.....	240	186	12
682	9	58	1	54	9	44	3,565	2,273	56	93	4	148	151	13
44.7	.....	.....	.....	0.3	.....	0.3	24.4	12.1	.....	0.6	0.1	.....	.....	14
5,885	11	404	3	250	59	190	41,217	24,874	134	468	29	684	346	15
5,779	32	819	.....	9	.....	.....	38,431	21,963	.....	.....	.....	619	178	16
8,386	105	226	.....	677	.....	.....	28,647	10,766	.....	.....	.....	1,046	757	17
36.0	0.2	1.9	.....	0.2	.....	0.2	100.1	80.0	0.4	0.2	2.6	10.7	0.9	18
0.6	.....	0.1	.....	0.1	.....	.....	83.3	6.3	.....	.....	.....	0.5	.....	19
18.0	.....	.....	.....	0.1	.....	.....	118.6	13.8	.....	.....	.....	11.7	0.4	20
8.0	.....	0.7	.....	.....	.....	.....	59.5	58.7	0.2	.....	.....	0.5	.....	21
18.7	0.2	0.4	.....	0.2	.....	0.2	18.9	7.9	0.2	0.2	0.1	8.6	0.9	22
0.8	.....	0.1	.....	.....	.....	.....	13.3	9.2	.....	.....	.....	.....	.....	23
8.5	.....	0.7	.....	.....	.....	.....	8.4	4.2	.....	.....	2.5	1.6	.....	24
94	5	9	.....	5	.....	5	210	114	2	4	1	23	1	25
85	2	.....	.....	2	.....	.....	124	11	.....	.....	.....	.....	1	26
90	9	.....	.....	8	.....	.....	154	29	.....	.....	.....	9	12	27
1	.....	.....	.....	.....	.....	.....	6	4	.....	.....	.....	.....	.....	28
91	4	9	.....	5	.....	5	190	100	1	4	1	20	1	29
2	1	.....	.....	.....	.....	.....	14	10	1	.....	.....	3	.....	30
95	5	9	1	6	.....	5	218	123	1	4	1	25	3	31
29	.....	7	1	5	.....	4	148	86	1	.....	.....	18	1	32
16	5	2	.....	1	.....	1	34	14	.....	4	.....	6	2	33
50	.....	.....	.....	.....	.....	.....	36	23	.....	.....	1	1	.....	34
171,337	1,600	1,681	(7)	475	.....	460	736,443	652,245	(7)	2,763	(7)	2,470	953	35
86	4	.....	.....	3	.....	.....	135	17	.....	.....	.....	12	1	36
160,630	1,130	.....	.....	6	.....	.....	701,802	524,801	.....	.....	.....	8,704	900	37
.....	.....	.....	.....	.....	.....	.....	22	18	.....	.....	1	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	39
1	.....	.....	.....	.....	.....	.....	18	2	.....	.....	.....	3	.....	40
.....	.....	.....	.....	.....	.....	.....	2,276	2,175	.....	.....	(7)	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	870	.....	.....	.....	.....	.....	.....	42
60	.....	.....	.....	.....	.....	.....	3,140	315	.....	.....	.....	30	.....	43
536	59	245	2	7	.....	6	449	372	1	2	3	29	2	44
137	9	.....	.....	.....	.....	.....	194	67	.....	.....	.....	1	3	45
143	.....	.....	.....	.....	.....	.....	243	167	.....	.....	.....	19	3	46
291,837	23,375	227,245	(7)	5,718	.....	5,700	173,254	133,763	(7)	(7)	2,100	18,088	(7)	47
37,660	4,200	.....	.....	.....	.....	.....	81,226	25,354	.....	.....	.....	200	250	48
60,611	.....	.....	.....	.....	.....	.....	85,756	66,235	.....	.....	.....	7,700	515	49
502	39	241	2	10	2	7	429	344	1	2	2	33	7	50
63	5	2	.....	.....	.....	.....	145	49	.....	.....	.....	2	4	51
5,428	431	7,960	(7)	313	(7)	225	4,988	3,695	(7)	(7)	(7)	667	177	52
895	104	48	.....	.....	.....	.....	1,854	633	.....	.....	.....	50	73	53
1,558	.....	55	.....	.....	.....	.....	1,936	1,564	.....	.....	.....	126	16	54
392	32	63	.....	.....	.....	.....	114	100	.....	.....	.....	8	1	55
3,601	266	1,159	.....	.....	.....	.....	955	845	.....	.....	.....	67	(7)	56
110	7	178	2	9	2	7	232	182	.....	2	2	20	6	57
1,827	165	6,801	(7)	312	(7)	225	3,731	2,696	.....	(7)	(7)	499	169	58
.....	.....	.....	.....	1	.....	.....	83	62	1	.....	.....	5	.....	59
.....	.....	.....	.....	(7)	.....	.....	302	152	(7)	.....	.....	121	.....	60
500	40	242	2	10	2	7	434	351	1	2	3	32	7	61
63	5	2	.....	.....	.....	.....	149	51	.....	.....	.....	2	4	62
127	.....	6	.....	.....	.....	.....	150	104	.....	.....	.....	8	2	63
312,432	22,675	240,165	(7)	9,768	(7)	7,250	229,179	179,277	(7)	(7)	(7)	22,655	7,730	64
46,240	5,900	2,750	.....	.....	.....	.....	110,336	34,829	.....	.....	.....	10,200	3,150	65
85,103	.....	15,250	.....	.....	.....	.....	105,287	83,836	.....	.....	.....	8,200	475	66
217	11	43	2	4	2	2	289	229	.....	1	2	17	7	67
133,206	5,850	33,210	(7)	4,000	(7)	(7)	168,509	132,785	.....	(7)	(7)	13,180	7,730	68
614	532	772	(7)	1,000	(7)	(7)	626	580	.....	(7)	(7)	775	1,104	69
272	28	197	.....	5	.....	5	74	53	.....	1	1	13	.....	70
176,835	16,225	205,855	.....	5,750	.....	5,750	54,261	40,949	.....	(7)	(7)	9,262	.....	71
650	579	1,045	.....	1,150	.....	1,150	733	773	.....	(7)	(7)	712	.....	72
2	.....	.....	.....	1	.....	.....	79	60	1	.....	.....	1	.....	73
(7)	.....	.....	.....	(7)	.....	.....	1,076	910	(7)	.....	.....	(7)	.....	74
(7)	.....	.....	.....	(7)	.....	.....	14	15	(7)	.....	.....	(7)	.....	75
9	1	2	.....	.....	.....	.....	12	9	.....	.....	.....	1	.....	76
2,335	(7)	(7)	.....	.....	.....	.....	5,333	4,633	.....	.....	.....	(7)	.....	77
33	35	58	(7)	59	(7)	66	27	25	(7)	(7)	(7)	33	18	78
21	25	26	.....	.....	.....	.....	23	26	.....	.....	.....	29	23	79
21	.....	26	.....	.....	.....	.....	24	23	.....	.....	.....	21	32	80
33	35	58	(7)	74	.....	74	27	25	(7)	(7)	(7)	36	(7)	81
30	.....	23	.....	37	11	15	25	26	.....	.....	.....	20	18	82

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

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

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

WORKS, 1940, 1930, AND 1920—Continued

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

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

DRAINAGE BASIN TABLE II.—ENTERPRISES AND IRRIGATION

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unidentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Williams River (22)	Muddy Creek (12)	Blue River (27)	Eagle River (28)	Roaring Fork (34)	Elk Creek (78)	Roan Creek (25)	Plateau River (35)
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	30	26	68	144	244	24	38	171
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	219	269	171	154	186	174	183	178
3	Diversion dams.....1940..total number.....	1	41	55	19	116	5	38	154
4	1930..total number.....	.....	29	7	3	33	.....	.....	34
5	1920..total number.....	.....	49	40	12	17	.....	.....	2
6	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	1	.....	.....	3
7	(b) Timber.....1940..number.....	1	.....	1	.....	6	1	35	8
8	(c) Earth and rock.....1940..number.....	.....	41	12	16	97	1	.....	121
9	(d) Other, mixed, and not reported..1940..number.....	.....	.....	42	3	14	3	3	22
10	Main canals and laterals.....1940..total length, miles.....	58.3	37.0	161.0	281.1	460.7	52.9	63.1	316.2
11	1930..total length, miles.....	.....	94	115	153	463	.....	.....	197
12	1920..total length, miles.....	.....	64	179	212	471	.....	.....	294
13	(a) Earth.....1940..length, miles.....	58	37	161	277	455	52	63	315
14	(b) Lined.....1940..length, miles.....	0.3	.....	.....	4.1	5.7	0.9	0.1	1.2
15	1940..capacity, c.f.s.[1].....	202	318	942	1,096	3,129	138	295	859
16	1930..capacity, c.f.s.[1].....	.....	437	300	342	1,220	.....	.....	386
17	1920..capacity, c.f.s.[1].....	.....	254	467	449	1,314	.....	.....	790
18	Pipe lines[2].....1940..total length, miles.....	0.5	.....	0.2	2.1	10.4	0.2	.....	0.2
19	1930..total length, miles.....	.....	.....	0.8	.....	2.6	.....	.....	1.0
20	1920..total length, miles.....	.....	0.1	1.2	5.2	0.3	.....	.....	0.1
21	(a) Concrete.....1940..length, miles.....	.....	.....	.....	0.5	0.1	.....	.....	.....
22	(b) Metal.....1940..length, miles.....	0.5	.....	0.2	1.6	4.0	.....	.....	.....
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	.....	0.2	0.2	.....	0.2
24	(d) Other.....1940..length, miles.....	.....	.....	.....	.....	6.1	.....	.....	.....
25	Storage dams.....1940..total number.....	7	[3] 3	[3] 1	4	12	2	.....	48
26	1930..total number.....	.....	6	1	.....	1	.....	.....	41
27	1920..total number.....	.....	10	3	4	4	.....	.....	41
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	1	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	7	3	1	4	11	2	.....	45
30	(c) Other, mixed, and not reported..1940..number.....	.....	.....	.....	.....	.....	.....	.....	3
31	Reservoirs.....1940..total number.....	9	.....	.....	5	13	[4] 2	.....	51
32	(a) 1-99 acre-feet capacity.....1940..number.....	8	.....	.....	2	8	.....	.....	21
33	(b) 100-999 acre-feet capacity....1940..number.....	.....	.....	.....	3	4	.....	.....	24
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	1	.....	.....	.....	1	.....	.....	6
35	1940..total capacity, ac.-ft.[6]..	1,356	.....	.....	316	4,774	.....	.....	14,984
36	1930..total number.....	.....	7	3	.....	5	.....	.....	38
37	1930..total capacity, ac.-ft....	.....	2,628	14	.....	1,330	.....	.....	11,969
38	Wells, flowing.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
39	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
42	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	.....	.....	1	.....	.....	.....	.....	.....
45	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number.....	.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.....	.....	.....	(7)	.....	.....	.....	.....	.....
48	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants.....1940..total number.....	.....	.....	1	.....	1	.....	.....	.....
51	1930..total number.....	.....	.....	.....	.....	1	.....	.....	.....
52	Prime movers.....1940..capacity, hp.....	.....	.....	(7)	.....	(7)	.....	.....	.....
53	1930..capacity, hp.....	.....	.....	.....	.....	40	.....	.....	.....
54	1920..capacity, hp.....	.....	.....	.....	33	.....	.....	.....	.....
55	(a) Electric.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
56	1940..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....	.....
57	(b) Internal-combustion.....1940..number.....	.....	.....	1	.....	1	.....	.....	.....
58	1940..capacity, hp.....	.....	.....	(7)	.....	(7)	.....	.....	.....
59	(c) Other.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
60	1940..capacity, hp.....	.....	.....	.....	.....	.....	.....	.....	.....
61	Pumps.....1940..total number.....	.....	.....	1	.....	1	.....	.....	.....
62	1930..number.....	.....	.....	.....	.....	1	.....	.....	.....
63	1920..number.....	.....	.....	.....	2	.....	.....	.....	.....
64	1940..capacity, g.p.m.....	.....	.....	(7)	.....	(7)	.....	.....	.....
65	1930..capacity, g.p.m.....	.....	.....	.....	.....	1,000	.....	.....	.....
66	1920..capacity, g.p.m.....	.....	.....	.....	1,000	.....	.....	.....	.....
67	(a) Centrifugal.....1940..number.....	.....	.....	1	.....	1	.....	.....	.....
68	1940..capacity, g.p.m.....	.....	.....	(7)	.....	(7)	.....	.....	.....
69	1940..average capacity, g.p.m..	.....	.....	(7)	.....	(7)	.....	.....	.....
70	(b) Turbine.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m..	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
74	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
75	1940..average capacity, g.p.m..	.....	.....	.....	.....	.....	.....	.....	.....
76	(d) Other.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
77	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
78	Pumping lift, from all sources.....1940..average, feet.....	.....	.....	(7)	.....	(7)	.....	.....	.....
79	1930..average, feet.....	.....	.....	.....	.....	60	.....	.....	.....
80	1920..average, feet.....	.....	.....	.....	58	.....	.....	.....	.....
81	from pumped wells.....1940..average, feet.....	.....	.....	(7)	.....	.....	.....	.....	.....
82	from surface sources...1940..average, feet.....	.....	.....	.....	.....	(7)	.....	.....	.....

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

WORKS, 1940, 1930, AND 1920—Continued

COLORADO RIVER—Continued														
Gunnison River									Dolores River					
Total	Direct (40)	Taylor River (42)	Slate River (41)	Tomichi Creek (43)	Smith Fork (38)	North Fork (39)	Uncompahgre River (37)	Salt Creek group (24)	Total	Direct (36)	San Miguel River (58)	Garfield Creek (76)	Little Dolores River (81)	
916	409	3	35	85	35	197	152	12	171	111	60	17	27	1
401	238	247	239	564	603	315	851	92	367	152	823	194	166	2
780	316	1	26	192	9	117	119	7	219	178	41	17	30	3
404	7	4	.....	131	4	21	80	.....	107	.....	.....	.....	.....	4
386	14	.....	.....	157	5	19	26	.....	87	.....	.....	.....	.....	5
21	6	.....	.....	2	.....	3	10	.....	7	4	3	.....	3	6
95	22	.....	.....	56	2	7	8	.....	10	7	3	.....	1	7
548	246	1	25	101	4	78	93	3	67	50	17	17	3	8
116	42	.....	1	33	3	29	8	4	135	117	18	.....	23	9
2,840.3	930.2	7.0	84.4	305.1	156.0	430.0	927.6	10.0	433.1	197.3	235.8	28.0	52.0	10
2,348	111	6	.....	163	97	359	858	.....	753	.....	.....	.....	.....	11
2,858	170	6	.....	284	157	382	805	.....	1,039	.....	.....	.....	.....	12
2,827	928	7	84	305	156	429	818	10	432	197	235	28	52	13
13.3	2.2	.....	0.4	0.1	.....	1.0	9.6	.....	1.1	0.3	0.8	.....	.....	14
12,319	3,911	84	537	2,268	806	1,764	2,949	36	2,588	1,504	1,084	73	87	15
10,176	1,405	12	.....	668	472	1,132	3,706	.....	1,990	.....	.....	.....	.....	16
12,419	1,168	15	.....	1,731	562	1,154	2,402	.....	2,622	.....	.....	.....	.....	17
14.0	5.9	.....	0.2	.....	1.0	1.9	5.0	0.2	2.4	0.4	2.0	.....	.....	18
8.3	0.2	.....	.....	0.2	.....	3.8	4.0	.....	1.3	.....	.....	.....	.....	19
18.1	1.0	.....	.....	0.4	5.1	2.8	4.5	.....	1.2	.....	.....	.....	.....	20
3.9	3.0	.....	.....	.....	.....	.....	0.9	.....	0.1	.....	0.1	.....	.....	21
7.6	2.6	.....	0.2	.....	1.0	1.9	1.9	0.1	1.5	0.4	1.1	.....	.....	22
2.3	0.1	.....	.....	.....	.....	.....	2.2	0.1	0.8	.....	0.8	.....	.....	23
0.2	0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
204	142	1	1	.....	4	53	3	.....	15	7	8	.....	4	25
155	.....	.....	.....	.....	6	29	3	.....	15	.....	.....	.....	.....	26
118	1	.....	.....	1	9	17	4	.....	19	.....	.....	.....	.....	27
2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
197	140	1	1	.....	4	48	3	.....	15	7	8	.....	4	29
5	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	30
208	142	[5]1	1	.....	3	55	6	1	18	10	8	.....	3	31
92	54	.....	1	.....	1	34	2	1	4	2	2	.....	3	32
89	66	.....	.....	.....	1	19	3	.....	4	3	1	.....	.....	33
27	22	1	.....	.....	1	2	1	.....	10	5	5	.....	.....	34
164,091	34,437	106,230	(7)	.....	9,172	13,032	1,180	(7)	41,516	32,102	9,414	.....	135	35
151	.....	.....	.....	.....	8	28	4	.....	13	.....	.....	.....	.....	36
48,019	.....	.....	.....	.....	825	9,189	226	.....	26,146	.....	.....	.....	.....	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	265	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
11	10	.....	.....	.....	.....	1	.....	3	6	5	1	.....	.....	50
15	12	.....	.....	1	.....	2	.....	.....	4	.....	.....	.....	.....	51
136	126	.....	.....	.....	.....	(7)	.....	20	128	108	(7)	.....	.....	52
1,421	1,295	.....	.....	6	.....	120	.....	.....	37	.....	.....	.....	.....	53
822	759	.....	.....	.....	.....	8	40	.....	1	.....	.....	.....	.....	54
3	3	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	55
30	30	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	56
5	4	.....	.....	.....	.....	1	.....	.....	5	5	.....	.....	.....	57
100	90	.....	.....	.....	.....	(7)	.....	.....	108	108	.....	.....	.....	58
3	3	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	59
6	6	.....	.....	.....	.....	.....	.....	.....	(7)	.....	(7)	.....	.....	60
8	7	.....	.....	.....	.....	1	.....	3	5	4	1	.....	.....	61
18	15	.....	.....	1	.....	2	.....	.....	4	.....	.....	.....	.....	62
19	15	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	63
8,830	6,450	.....	.....	.....	.....	(7)	.....	1,690	5,900	4,550	(7)	.....	.....	64
47,237	44,337	.....	.....	400	.....	2,500	.....	.....	1,845	.....	.....	.....	.....	65
6,806	5,706	.....	.....	.....	.....	300	.....	.....	.....	.....	.....	.....	.....	66
7	6	.....	.....	.....	.....	1	.....	2	5	4	1	.....	.....	67
4,830	4,450	.....	.....	.....	.....	(7)	.....	(7)	5,900	4,550	(7)	.....	.....	68
861	742	.....	.....	.....	.....	(7)	.....	(7)	1,180	1,138	(7)	.....	.....	69
1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	70
(7)	(7)	.....	.....	.....	.....	.....	.....	(7)	.....	.....	.....	.....	.....	71
(7)	(7)	.....	.....	.....	.....	.....	.....	(7)	.....	.....	.....	.....	.....	72
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
52	45	.....	.....	.....	.....	(7)	.....	17	17	13	(7)	.....	.....	78
65	24	.....	.....	25	.....	388	.....	.....	24	.....	.....	.....	.....	79
22	20	.....	.....	.....	.....	14	53	.....	15	.....	.....	.....	.....	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
52	45	.....	.....	.....	.....	(7)	.....	17	17	13	(7)	.....	.....	82

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

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

	ITEM (For definitions and explanations, see text. Major-basin totals from 1930 and 1920 Censuses include figures for unindentified tributary basins. A map index-number is shown in parentheses for each drainage basin)	COLORADO RIVER—Continued							
		Green River							
		Total	Direct (9)	Yampa River					White River (23)
				Total	Direct (10)	Elk River (7)	Trout Creek (11)	Little Snake River (8)	
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1								
1	Enterprises.....1940..number.....	588	13	426	285	70	22	49	149
2	Average size of enterprise based on area works were capable of supplying with water.....1940..acres.....	208	126	188	189	179	177	197	277
3	Diversion dams.....1940..total number.....	235	.....	114	53	36	16	9	121
4	1930..total number.....	478	.....	291	25	.....	.....	26	183
5	1920..total number.....	144	.....	101	16	.....	.....	2	43
6	(a) Concrete and masonry.....1940..number.....	16	.....	10	9	.....	1	.....	6
7	(b) Timber.....1940..number.....	53	.....	6	3	2	1	.....	47
8	(c) Earth and rock.....1940..number.....	117	.....	89	36	32	12	9	28
9	(d) Other, mixed, and not reported..1940..number.....	49	.....	9	5	2	2	.....	40
10	Main canals and laterals.....1940..total length, miles.....	1,159.0	3.1	747.9	528.4	107.5	43.0	69.0	408.0
11	1930..total length, miles.....	1,314	.....	941	160	.....	.....	102	359
12	1920..total length, miles.....	1,841	.....	1,388	154	.....	.....	144	451
13	(a) Earth.....1940..length, miles.....	1,155	3	746	527	107	43	69	406
14	(b) Lined.....1940..length, miles.....	4.0	0.1	1.9	1.4	0.5	.....	.....	2.0
15	1940..capacity, c.f.s.[1].....	3,683	35	2,326	1,745	341	86	154	1,322
16	1930..capacity, c.f.s.[1].....	3,229	.....	2,260	639	.....	.....	320	930
17	1920..capacity, c.f.s.[1].....	5,333	.....	2,447	498	.....	.....	584	2,883
18	Pipe lines[2].....1940..total length, miles.....	3.9	.....	2.0	1.1	0.5	.....	0.4	1.9
19	1930..total length, miles.....	0.9	.....	0.4	.....	.....	.....	.....	0.5
20	1920..total length, miles.....	0.4	.....	0.2	.....	.....	.....	.....	0.2
21	(a) Concrete.....1940..length, miles.....	0.1	.....	0.1	0.1	.....	.....	.....	.....
22	(b) Metal.....1940..length, miles.....	3.8	.....	1.9	1.0	0.5	.....	0.4	1.9
23	(c) Wood-stave.....1940..length, miles.....	.....	.....	.....	.....	.....	.....	.....	.....
24	(d) Other.....1940..length, miles.....	.....	.....	.....	.....	.....	.....	.....	.....
25	Storage dams.....1940..total number.....	48	6	29	23	[3] 1	3	2	13
26	1930..total number.....	56	.....	40	2	.....	.....	1	14
27	1920..total number.....	73	.....	57	4	.....	.....	6	16
28	(a) Concrete and masonry.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
29	(b) Earth and rock.....1940..number.....	45	6	27	22	1	3	1	12
30	(c) Other, mixed, and not reported..1940..number.....	3	.....	2	1	.....	.....	1	1
31	Reservoirs.....1940..total number.....	65	5	47	34	.....	10	3	13
32	(a) 1-99 acre-feet capacity.....1940..number.....	31	4	21	11	.....	9	1	6
33	(b) 100-999 acre-feet capacity....1940..number.....	29	.....	22	19	.....	1	2	7
34	(c) 1,000 and over acre-feet capacity.....1940..number.....	5	1	4	4	.....	.....	.....	.....
35	1940..total capacity, ac.-ft.[4]..	17,691	1,021	15,373	14,441	.....	648	284	1,297
36	1930..total number.....	43	.....	32	5	.....	.....	.....	9
37	1930..total capacity, ac.-ft....	15,589	.....	9,836	2,180	.....	.....	.....	5,741
38	Wells, flowing.....1940..number.....	7	.....	1	1	.....	.....	.....	6
39	1930..number.....	2	.....	.....	.....	.....	.....	.....	2
40	1920..number.....	.....	.....	.....	.....	.....	.....	.....	.....
41	1940..yield, g.p.m.....	673	.....	(5)	(5)	.....	.....	.....	648
42	1930..yield, g.p.m.....	360	.....	.....	.....	.....	.....	.....	360
43	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
44	Wells, pumped.....1940..number.....	6	.....	6	4	.....	.....	2	.....
45	1930..number.....	.....	.....	.....	.....	.....	.....	.....	.....
46	1920..number.....	.....	.....	.....	.....	.....	.....	.....	.....
47	1940..yield, g.p.m.....	838	.....	838	818	.....	.....	(5)	.....
48	1930..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
49	1920..yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Pumping plants.....1940..total number.....	28	.....	20	15	.....	.....	5	8
51	1930..total number.....	4	.....	3	1	.....	.....	2	1
52	Prime movers.....1940..capacity, hp.....	278	.....	200	153	.....	.....	47	78
53	1930..capacity, hp.....	46	.....	42	2	.....	.....	40	4
54	1920..capacity, hp.....	58	.....	48	48	.....	.....	.....	10
55	(a) Electric.....1940..number.....	2	.....	2	2	.....	.....	.....	.....
56	1940..capacity, hp.....	(5)	.....	(5)	(5)	.....	.....	.....	.....
57	(b) Internal-combustion.....1940..number.....	24	.....	16	13	.....	.....	3	8
58	1940..capacity, hp.....	270	.....	192	147	.....	.....	45	78
59	(c) Other.....1940..number.....	2	.....	2	.....	.....	.....	2	.....
60	1940..capacity, hp.....	(5)	.....	(5)	.....	.....	.....	(5)	.....
61	Pumps.....1940..total number.....	29	.....	20	14	.....	.....	6	9
62	1930..number.....	4	.....	3	1	.....	.....	2	1
63	1920..number.....	5	.....	4	4	.....	.....	.....	1
64	1940..capacity, g.p.m.....	28,878	.....	21,528	16,648	.....	.....	4,880	7,350
65	1930..capacity, g.p.m.....	1,470	.....	720	320	.....	.....	400	750
66	1920..capacity, g.p.m.....	4,100	.....	3,200	3,200	.....	.....	.....	900
67	(a) Centrifugal.....1940..number.....	24	.....	15	12	.....	.....	3	9
68	1940..capacity, g.p.m.....	24,500	.....	17,150	14,540	.....	.....	2,610	7,350
69	1940..average capacity, g.p.m..	1,021	.....	1,143	1,212	.....	.....	870	817
70	(b) Turbine.....1940..number.....	.....	.....	.....	.....	.....	.....	.....	.....
71	1940..capacity, g.p.m.....	.....	.....	.....	.....	.....	.....	.....	.....
72	1940..average capacity, g.p.m..	.....	.....	.....	.....	.....	.....	.....	.....
73	(c) Plunger.....1940..number.....	3	.....	3	1	.....	.....	2	.....
74	1940..capacity, g.p.m.....	28	.....	28	(5)	.....	.....	(5)	.....
75	1940..average capacity, g.p.m..	9	.....	9	(5)	.....	.....	(5)	.....
76	(d) Other.....1940..number.....	2	.....	2	1	.....	.....	1	.....
77	1940..capacity, g.p.m.....	(5)	.....	(5)	(5)	.....	.....	(5)	.....
78	Pumping lift, from all sources.....1940..average, feet.....	14	.....	73	14	.....	.....	11	15
79	1930..average, feet.....	20	.....	23	10	.....	.....	30	12
80	1920..average, feet.....	14	.....	15	15	.....	.....	.....	10
81	from pumped wells.....1940..average, feet.....	20	.....	20	21	.....	.....	(5)	.....
82	from surface sources...1940..average, feet.....	12	.....	11	12	.....	.....	8	15

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

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

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

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

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

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL		Adams		Alamosa	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*						
1	All farms.....1940...number.....	51,436		1,729		608	
2	1930...number.....	59,956		1,912		581	
3	Irrigated farms.....1940...number.....	29,766		955		440	
4	1930...number.....	31,288		1,057		484	
5	Increase or decrease (-), 1930-1940.....percent....	-4.9		-9.6		-9.1	
	Operated by—						
6	(a) Owners and managers.....1940...number.....	18,865		627		290	
7	1930...number.....	20,060		699		296	
8	(b) Tenants.....1940...number.....	10,901		328		150	
9	1930...number.....	11,228		358		188	
10	Land in all farms.....1940...acres.....	31,527,240		599,535		374,326	
11	Land in irrigated farms.....1940...acres.....	12,522,458		124,911		343,825	
12	Average per farm.....1940...acres.....	421		131		781	
13	(a) Operated by owners and managers.....1940...acres.....	10,181,139		74,532		303,145	
14	Average per farm.....1940...acres.....	540		119		1,045	
15	(b) Operated by tenants.....1940...acres.....	2,341,319		50,379		40,680	
16	Average per farm.....1940...acres.....	215		154		271	
17	Approximate land area.....1940...acres.....	66,538,880		798,080		460,800	
	IRRIGATED AND IRRIGABLE AREAS						
18	Area irrigated.....1939...acres.....	3,220,685		68,233		113,941	
19	(a) Cropland harvested.....1939...acres.....	2,796,075		65,235		74,105	
20	(b) Crop failure.....1939...acres.....	73,844		1,846		2,390	
21	(c) Pasture.....1939...acres.....	350,766		1,152		37,446	
22	Area irrigated.....1929...acres.....	3,393,619		66,826		141,489	
23	1919...acres.....	3,348,385		66,407		89,805	
24	Increase or decrease (-), 1929-1939.....percent....	-5.1		2.1		19.5	
25	Irrigable area in enterprises.....1940...acres.....	4,283,250		86,927		184,465	
26	1930...acres.....	4,528,251		131,008		182,069	
27	1920[1]..acres.....	5,220,588		114,266		186,258	
28	Excess of irrigable area over the area irrigated..1940...acres.....	1,062,565		18,694		70,524	
29	1930...acres.....	1,134,632		64,182		40,580	
30	Area works were capable of supplying with water...1940...acres.....	3,913,542		85,724		175,947	
31	1930...acres.....	4,078,712		112,471		156,249	
32	1920...acres.....	3,855,348		68,065		168,625	
33	Increase or decrease (-), 1930-1940.....percent....	-4.0		-23.8		12.6	
34	Excess, capability of works over area irrigated...1940...acres.....	692,857		17,491		62,006	
35	1930...acres.....	685,093		45,645		14,760	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	25.7		54.6		33.1	
37	1929...percent....	32.7		49.2		68.1	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	82.3		79.6		64.8	
39	1929...percent....	83.2		59.4		90.6	
	CAPITAL INVESTED TO JANUARY 1						
40	Total investment in all enterprises.....1940...dollars....	106,849,343		1,929,030		1,512,466	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	101,848,751		1,877,375		1,397,873	
42	(b) Investment in water rights (reported).....1940...dollars....	5,000,592		51,655		114,593	
43	Total investment in all enterprises.....1930...dollars....	87,603,240		2,758,737		586,296	
44	1920...dollars....	88,002,442		2,436,771		416,305	
45	Increase or decrease (-), 1930-1940.....percent....	22.0		-30.1		158.0	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	27.30		22.50		8.60	
47	1930...dollars....	21.48		24.53		3.75	
48	1920...dollars....	22.90		35.80		2.47	
49	Average investment per acre irrigated.....1939...dollars....	33.18		28.27		13.27	
50	Estimated final investment in existing enterprises..1940...dollars....	109,808,466		1,934,497		1,513,516	
51	1930...dollars....	91,845,804		2,759,587		587,296	
52	1920...dollars....	95,198,423		2,557,121		458,952	
53	Increase or decrease (-), 1930-1940.....percent....	19.6		-29.9		157.7	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	25.64		22.25		8.20	
55	1930...dollars....	20.28		21.06		3.23	
56	1920[1]..dollars....	18.24		22.38		2.46	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental	Primary	Supplemental	Primary	Supplemental
		Enterprises		Enterprises		Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	6,454	1,532	147	153	63	19
58	Area irrigated in these enterprises.....1939...acres.....	3,128,787	608,498	68,024	9,571	112,877	2,653
59	Cost of maintenance and operation.....1939...dollars....	2,035,680	498,440	67,967	20,478	32,125	2,189
60	Average cost, per acre irrigated.....1939...dollars....	0.65	0.82	1.00	2.14	0.28	0.83
61	1929...dollars....	0.85	.....	1.63	.....	0.33	.....
62	Total annual charges (reported)[3] [4].....1939...dollars....	2,278,099	213,062	57,775	360	46,862	235
63	Average annual charge per acre irrigated.....1939...dollars....	0.96	0.46	0.92	0.09	0.55	0.13
64	Area against which charges were assessed.....1939...acres.....	2,637,673	461,109	66,987	4,000	131,791	1,808
65	Average annual charge per acre assessed.....1939...dollars....	0.86	0.46	0.86	0.09	0.36	0.13
66	Total charges collected[3].....1939...dollars....	2,077,506	206,370	74,442	238	30,855	240
67	Indebtedness to December 31 (reported)[4].....1939...dollars....	20,851,011	1,959,596	106,159	417	140,567	.....
	WATER DELIVERED TO IRRIGATORS						
68	Enterprises reporting water delivered.....1939...number.....	6,315	1,522	145	144	80	53
69	Area irrigated in these enterprises.....1939...acres.....	3,039,354	588,300	68,157	9,571	111,162	3,807
70	Water delivered in these enterprises.....1939...acre-feet..	7,258,191	500,267	100,417	8,974	134,310	2,587
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.4	0.9	1.5	0.9	1.2	0.7
72	Average cost of water per acre irrigated.....1939...dollars....	0.92	0.94	1.19	2.14	0.52	0.87
	DRAINAGE OF IRRIGATED LAND						
73	Enterprises reporting land drained or needing drainage.....1939...number.....	241	.....	2	.....	3	.....
74	Irrigable area in these enterprises.....1939...acres.....	687,246	.....	(2)	.....	55,647	.....
75	Irrigated area in these enterprises.....1939...acres.....	466,804	.....	(2)	.....	38,296	.....
76	Area for which drains have been installed.....1939...acres.....	119,286	.....	(2)	.....	22,004	.....
77	Additional area needing drainage.....1939...acres.....	35,792	.....	(2)	.....	2,000	.....

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

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

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

Arapahoe	Archuleta	Baca	Bent	Boulder	Chaffee	Clear Creek	Conejos	
1,079	354	906	687	1,352	295	47	1,049	1
1,225	389	1,750	882	1,473	307	34	1,467	2
342	217	60	477	1,169	245	19	862	3
516	163	34	518	1,201	291	16	1,201	4
-33.7	33.1	76.5	-7.9	-2.7	-15.8	18.8	-28.2	5
261	162	46	204	693	173	12	634	6
382	117	29	244	793	204	.....	875	7
81	55	14	273	476	72	7	228	8
134	46	5	274	408	87	.....	326	9
450,344	284,502	1,068,584	583,132	206,916	107,532	18,523	352,850	10
67,250	229,402	113,686	308,312	155,387	98,041	10,960	332,733	11
197	1,057	1,895	646	133	400	578	386	12
53,522	208,306	98,588	250,636	83,190	79,616	2,998	281,914	13
205	1,286	2,143	1,229	120	460	250	445	14
13,728	21,096	15,098	57,676	72,197	18,425	7,982	50,819	15
169	384	1,078	211	152	256	1,140	223	16
529,280	872,960	1,641,600	981,120	481,920	664,960	252,160	813,440	17
22,745	15,425	3,021	60,808	117,078	28,732	354	148,626	18
20,773	13,381	3,021	60,066	103,043	22,624	241	116,991	19
1,844	164	.....	320	2,176	506	.....	6,348	20
128	1,880	.....	222	11,859	5,602	113	25,487	21
29,526	16,225	2,819	64,338	159,428	26,938	.....	119,049	22
25,674	11,933	2,287	128,712	159,781	29,623	.....	139,504	23
-23.0	-4.9	7.2	-5.8	-26.6	6.7	.....	25.0	24
24,999	19,134	3,469	92,470	130,562	36,583	494	188,432	25
33,043	23,480	3,854	68,451	184,185	33,676	.....	164,223	26
62,128	18,188	12,500	145,866	188,485	38,277	.....	207,519	27
2,254	3,709	448	31,862	13,484	7,851	140	39,606	28
3,517	7,255	1,035	4,113	24,757	6,738	.....	45,174	29
24,979	19,040	3,169	72,990	128,452	34,691	359	182,593	30
30,496	19,371	3,779	65,122	181,896	30,797	.....	151,218	31
25,137	13,289	12,020	133,372	174,736	30,113	.....	152,346	32
-18.1	-1.7	-16.1	12.1	-29.4	12.6	.....	20.7	33
2,234	3,615	148	12,382	11,374	5,959	5	33,767	34
970	3,146	960	784	22,468	3,859	.....	32,169	35
33.8	6.7	2.7	19.7	75.3	29.3	3.2	44.7	36
73.6	16.0	10.6	43.6	104.3	39.6	.....	59.8	37
91.1	81.0	95.3	83.0	91.1	82.8	98.6	81.5	38
96.8	83.8	74.6	98.8	87.6	87.5	.....	78.7	39
845,921	126,357	537,447	1,978,190	1,327,014	222,960	6,285	2,158,130	40
819,223	112,742	537,170	1,975,140	1,314,119	215,160	5,960	1,919,227	41
26,698	13,615	277	3,050	12,895	7,800	325	238,903	42
506,503	157,089	408,375	1,123,422	1,703,651	517,909	.....	1,478,246	43
597,099	168,635	572,553	2,773,601	1,774,922	261,368	.....	1,155,162	44
39.5	-19.6	31.6	76.1	-22.1	-56.9	.....	46.0	45
33.87	6.64	169.60	27.10	10.33	6.43	17.51	11.82	46
19.89	8.11	108.06	17.25	9.37	16.82	.....	9.78	47
22.84	12.69	47.63	20.80	10.16	8.68	.....	7.58	48
37.19	8.19	177.90	32.64	11.33	7.76	17.75	14.50	49
846,246	127,492	543,897	1,978,666	1,338,589	222,960	6,385	2,163,755	50
508,003	158,389	408,375	1,126,222	1,790,211	518,909	.....	1,481,096	51
600,299	170,285	572,553	2,797,201	1,850,662	265,083	.....	1,156,632	52
39.2	-19.5	33.2	75.7	-25.2	-57.0	.....	46.1	53
33.85	6.66	156.79	21.40	10.25	6.09	12.93	11.46	54
18.40	6.75	105.96	16.45	9.72	15.41	.....	9.02	55
9.66	9.36	45.80	19.18	9.82	6.93	.....	5.57	56
Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises		
35	6	160	4	10	30	6	108	18	114	1	14	139	16	57
22,723	75	15,258	271	2,986	60,443	223	113,672	15,887	28,194	(2)	292	144,168	28,674	58
33,394	409	8,656	34	3,209	42,006	503	33,750	5,660	5,680	(2)	267	26,060	1,535	59
1.47	5.45	0.57	0.13	1.07	0.69	2.26	0.30	0.36	0.20	(2)	0.91	0.18	0.05	60
1.16	.....	0.51	.....	1.15	0.95	.....	0.69	.....	0.45	.....	.....	0.37	.....	61
45,303	.....	2,675	.....	3,433	69,899	.....	56,854	10,765	2,248	50	.....	35,738	4,910	62
2.06	.....	0.43	.....	1.25	1.18	.....	0.52	0.49	0.13	0.03	.....	0.28	0.59	63
26,976	.....	6,570	.....	2,746	65,979	.....	113,820	21,763	18,125	1,600	.....	139,457	8,807	64
1.68	.....	0.41	.....	1.25	1.06	.....	0.50	0.49	0.12	0.03	.....	0.26	0.56	65
29,576	.....	2,240	.....	3,830	68,870	.....	56,441	11,116	390	.....	.....	22,221	5,110	66
14,351	.....	49	.....	1,166	294,696	.....	164,061	38,677	.....	.....	.....	131,284	50,100	67
34	6	71	3	15	29	7	116	22	83	1	7	139	13	68
21,412	75	8,207	71	3,009	60,528	228	115,168	11,678	20,951	(2)	175	140,993	9,674	69
26,535	163	16,840	85	8,339	112,105	261	125,166	6,491	102,851	(2)	445	221,914	6,559	70
1.2	2.2	2.1	1.2	2.8	1.9	1.1	1.1	0.6	4.9	(2)	2.5	1.6	0.7	71
2.18	5.45	0.43	0.13	1.37	1.24	2.26	0.52	0.55	0.20	(2)	1.47	0.28	0.56	72
1	.....	5	.....	.....	3	.....	10	.....	8	.....	.....	5	.....	73
(2)	.....	2,200	.....	.....	8,868	.....	8,360	.....	2,192	.....	.....	10,370	.....	74
(2)	.....	2,039	.....	.....	8,799	.....	8,020	.....	1,652	.....	.....	8,187	.....	75
(2)	.....	.....	.....	.....	2,200	.....	866	.....	.....	.....	.....	3,680	.....	76
.....	.....	26	.....	.....	.....	.....	1,040	.....	285	.....	.....	70	.....	77

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

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

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

	ITEM (For definitions and explanations, see text)	Costilla	Crowley		Custer	Delta		Denver
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms....1940...number....	523	532		305	1,699		158
2	1930...number....	648	626		406	1,744		257
3	Irrigated farms....1940...number....	478	405		144	1,643		110
4	1930...number....	551	452		158	1,678		133
5	Increase or decrease (-), 1930-1940....percent....	-13.2	-10.4		-8.9	-2.1		-17.3
	Operated by—							
6	(a) Owners and managers....1940...number....	326	141		107	1,120		87
7	1930...number....	381	196		112	1,174		92
8	(b) Tenants....1940...number....	152	264		37	523		23
9	1930...number....	170	256		46	504		41
10	Land in all farms....1940...acres....	392,532	327,163		243,334	220,765		2,280
11	Land in irrigated farms....1940...acres....	364,686	107,411		130,767	206,328		1,037
12	Average per farm....1940...acres....	763	265		908	126		9
13	(a) Operated by owners and managers....1940...acres....	345,259	68,041		102,504	152,673		672
14	Average per farm....1940...acres....	1,059	483		958	136		8
15	(b) Operated by tenants....1940...acres....	19,427	39,370		28,263	53,655		365
16	Average per farm....1940...acres....	128	149		764	103		16
17	Approximate land area....1940...acres....	777,600	513,920		471,680	740,480		37,120
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated....1939...acres....	47,450	44,213		20,544	113,580		921
19	(a) Cropland harvested....1939...acres....	42,126	40,367		16,215	95,287		921
20	(b) Crop failure....1939...acres....	201	828		257	1,511		.....
21	(c) Pasture....1939...acres....	5,123	3,018		4,072	16,782		.....
22	Area irrigated....1929...acres....	48,272	56,271		23,295	107,333		892
23	1919...acres....	36,771	57,789		24,241	93,509		4,000
24	Increase or decrease (-), 1929-1939....percent....	-1.7	-21.4		-11.8	5.8		3.3
25	Irrigable area in enterprises....1940...acres....	108,532	67,666		32,023	153,246		981
26	1930...acres....	112,965	76,248		25,445	141,315		892
27	1920[2]...acres....	102,960	71,974		39,463	156,624		4,877
28	Excess of irrigable area over the area irrigated...1940...acres....	61,082	23,453		11,479	39,666		60
29	1930...acres....	64,693	19,977		2,150	33,982		.....
30	Area works were capable of supplying with water...1940...acres....	61,882	60,534		30,724	134,373		981
31	1930...acres....	109,957	69,971		25,262	135,234		892
32	1920...acres....	43,906	58,736		33,548	127,469		4,000
33	Increase or decrease (-), 1930-1940....percent....	-43.7	-13.5		21.6	-0.6		10.0
34	Excess, capability of works over area irrigated...1940...acres....	14,432	16,321		10,180	20,793		60
35	1930...acres....	61,685	13,700		1,967	27,901		.....
36	Proportion which area irrigated is of all lands in irrigated farms....1939...percent....	13.0	41.2		15.7	55.0		88.8
37	1929...percent....	15.1	56.7		17.9	61.7		50.7
38	Proportion which area irrigated is of area works were capable of supplying with water....1939...percent....	76.7	73.0		66.9	84.5		93.9
39	1929...percent....	43.9	80.4		92.2	79.4		100.0
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises....1940...dollars....	2,402,611	4,829,865		55,593	4,703,890		84,701
41	(a) Cost of irrigation works and equipment....1940...dollars....	2,345,128	4,777,685		52,253	4,652,117		83,868
42	(b) Investment in water rights (reported)....1940...dollars....	57,483	52,180		3,340	51,773		833
43	Total investment in all enterprises....1930...dollars....	1,687,160	1,994,077		86,292	3,439,560		80,095
44	1920...dollars....	1,389,816	2,587,043		75,431	4,168,137		47,386
45	Increase or decrease (-), 1930-1940....percent....	42.4	142.2		-35.6	36.8		5.8
46	Average investment, based on area works were capable of supplying with water, per acre....1940...dollars....	38.83	79.79		1.81	35.01		86.34
47	1930...dollars....	15.34	28.50		3.42	25.43		89.79
48	1920...dollars....	31.65	44.05		2.25	32.70		11.85
49	Average investment per acre irrigated....1939...dollars....	50.63	109.24		2.71	41.41		91.97
50	Estimated final investment in existing enterprises...1940...dollars....	2,403,861	4,841,170		56,813	5,055,312		84,701
51	1930...dollars....	1,692,260	2,043,894		87,142	3,719,185		80,095
52	1920...dollars....	1,403,066	2,593,508		76,596	4,320,091		47,386
53	Increase or decrease (-), 1930-1940....percent....	42.1	136.9		-34.8	35.9		5.8
54	Average investment, based on estimated final investment and irrigable area, per acre....1940...dollars....	22.15	71.55		1.77	32.99		86.34
55	1930...dollars....	14.98	26.81		3.42	26.32		89.79
56	1920[2]...dollars....	13.63	36.03		1.94	27.58		9.72
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS		Primary Enterprises	Supplemental Enterprises		Primary Enterprises	Supplemental Enterprises	
57	Enterprises reporting maintenance and operation...1939...number....	35	14	3	135	293	53	4
58	Area irrigated in these enterprises....1939...acres....	47,055	44,202	8,000	18,775	111,204	14,953	921
59	Cost of maintenance and operation....1939...dollars....	36,100	28,867	3,810	3,245	80,710	7,007	3,180
60	Average cost, per acre irrigated....1939...dollars....	0.77	0.61	0.48	0.17	0.73	0.47	3.45
61	1929...dollars....	1.03	0.65	.....	0.27	0.87	.....	5.07
62	Total annual charges (reported)[4] [6]....1939...dollars....	96,559	166,000	.....	70	99,834	7,743	3,315
63	Average annual charge per acre irrigated....1939...dollars....	2.38	4.13	.....	0.10	1.00	0.96	3.60
64	Area against which charges were assessed....1939...acres....	96,894	56,200	.....	836	107,969	8,070	921
65	Average annual charge per acre assessed....1939...dollars....	1.00	2.95	.....	0.08	0.92	0.96	3.60
66	Total charges collected[4]....1939...dollars....	38,993	164,929	.....	.....	88,537	3,247	2,390
67	Indebtedness to December 31 (reported)[6]....1939...dollars....	825,551	2,300,376	.....	.....	1,822,590	164,212	416
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered....1939...number....	43	15	2	133	298	55	4
69	Area irrigated in these enterprises....1939...acres....	47,450	44,213	(2)	20,275	109,063	12,157	921
70	Water delivered in these enterprises....1939...acre-feet..	77,003	62,773	(2)	16,922	371,049	16,321	6,743
71	Average water delivered per acre irrigated....1939...acre-feet..	1.6	1.4	(2)	0.8	3.4	1.3	7.3
72	Average cost of water per acre irrigated....1939...dollars....	2.09	3.83	.....	0.16	0.97	0.79	3.60
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage....1939...number....	1	2	.....	12	19	.....	1
74	Irrigable area in these enterprises....1939...acres....	(2)	(2)	.....	2,642	33,780	.....	(2)
75	Irrigated area in these enterprises....1939...acres....	(2)	(2)	.....	1,507	22,615	.....	(2)
76	Area for which drains have been installed....1939...acres....	(2)	.....	.....	99	4,400	.....	(2)
77	Additional area needing drainage....1939...acres....	.....	(2)	.....	158	2,502	.....	.....

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

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

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

Dolores[1]	Douglas	Eagle	Elbert	El Paso	Fremont	Garfield	Gilpin	
236	417	329	989	1,310	987	980	51	1
194	438	374	1,241	1,463	1,270	1,015	34	2
17	73	307	9	215	815	871	8	3
16	96	290	7	156	1,015	873	2	4
6.2	-24.0	5.9	28.6	37.8	-19.7	-0.2	300.0	5
16	53	228	8	168	622	651	5	6
13	65	214	5	116	818	626	.....	7
1	20	79	1	47	193	220	3	8
3	31	76	2	40	197	247	.....	9
76,888	365,446	231,881	1,067,187	1,124,896	367,478	344,452	20,315	10
8,802	103,971	217,980	43,730	372,705	259,426	301,694	6,965	11
518	1,424	710	4,859	1,734	318	346	871	12
(2)	75,673	191,817	(2)	341,651	242,647	262,907	6,381	13
(2)	1,428	841	(2)	2,034	390	404	1,276	14
(2)	28,298	26,163	(2)	31,054	16,779	38,787	584	15
(2)	1,415	331	(2)	661	87	176	195	16
657,920	539,520	1,078,400	1,192,960	1,381,120	999,680	1,916,160	95,360	17
579	5,041	39,746	801	13,197	22,000	65,557	150	18
444	4,621	30,800	801	11,856	19,996	56,722	150	19
10	400	1,495	.....	733	784	653	.....	20
125	20	7,451	.....	608	1,220	8,182	.....	21
630	6,474	28,221	2,487	20,693	25,655	69,799	.....	22
1,023	8,696	30,025	1,175	18,143	29,884	73,473	.....	23
-8.1	-22.1	40.8	-67.8	-36.2	-14.2	-6.1	.....	24
2,050	8,922	44,419	1,402	22,675	29,043	83,619	175	25
790	9,978	34,576	6,602	34,046	36,873	99,701	.....	26
23,601	15,089	48,026	6,720	35,450	44,059	117,618	.....	27
1,471	3,881	4,673	601	9,478	7,043	18,062	25	28
160	3,504	6,355	4,115	13,353	11,218	29,902	.....	29
1,165	8,566	43,618	1,342	22,112	28,938	80,430	150	30
710	9,557	31,925	6,282	33,911	31,957	80,472	.....	31
2,361	10,391	31,073	1,790	22,047	35,697	93,814	.....	32
65.9	-10.4	36.6	-78.6	-34.8	-9.4	-0.1	.....	33
606	3,525	3,872	541	8,915	6,938	14,873	.....	34
80	3,083	3,704	3,795	13,218	6,302	10,673	.....	35
6.6	4.8	18.2	1.8	3.5	8.5	21.7	2.2	36
12.4	5.9	20.9	20.0	10.5	13.6	33.4	.....	37
48.9	58.8	91.1	59.7	59.7	76.0	81.5	100.0	38
88.7	67.7	88.4	39.6	61.0	80.3	86.7	.....	39
5,445	295,194	551,222	24,317	593,142	1,711,651	2,025,306	2,850	40
5,235	293,814	497,795	23,782	582,746	1,281,995	1,568,654	2,850	41
210	1,380	53,427	535	10,396	429,656	456,652	.....	42
4,530	392,242	566,620	130,450	411,844	945,663	983,360	.....	43
549,070	207,786	285,282	25,561	901,461	1,761,518	1,134,502	.....	44
20.2	-24.7	-2.7	-81.4	44.0	81.0	106.0	.....	45
4.59	34.46	12.64	18.12	26.82	59.15	25.18	19.00	46
6.38	41.04	17.75	20.77	12.14	29.59	12.22	.....	47
232.56	20.00	9.18	14.28	40.89	49.35	12.09	.....	48
9.40	58.56	13.87	30.36	44.95	77.80	30.89	19.00	49
5,445	295,344	553,472	25,232	602,422	1,713,051	2,078,296	3,850	50
4,530	392,642	607,170	130,450	411,844	951,418	988,835	.....	51
729,020	208,286	307,432	39,961	921,461	1,889,558	1,170,827	.....	52
20.2	-24.8	-8.8	-80.7	46.3	80.1	110.2	.....	53
2.86	33.10	12.46	18.00	26.57	58.98	24.85	22.00	54
5.73	39.35	17.56	19.76	12.10	25.80	9.92	.....	55
30.89	13.80	6.40	5.95	25.99	42.89	9.95	.....	56
Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.		Primary Enterprises / Sup.	Primary Enterprises / Sup.	Primary Enterprises / Sup.		
14 / 2	53 / 1	251 / 1	14	92 / 6	173 / 1	283 / 7	4	57
559 / (2)	4,666 / (2)	38,665 / (2)	751	12,001 / 527	21,845 / (2)	60,758 / 2,403	150	58
734 / (2)	8,288 / (2)	19,195 / (2)	1,434	12,277 / 373	33,439 / (2)	32,597 / 1,106	400	59
1.31 / (2)	1.78 / (2)	0.50 / (2)	1.91	1.02 / 0.71	1.53 / (2)	0.54 / 0.46	2.67	60
0.85 /	2.51 /	0.77 /	1.08	1.21 /	2.90 /	0.91 /	.....	61
..... /	8,210 /	2,963 /	.....	15,203 /	38,195 / 875	35,101 / 700	.....	62
..... /	4.00 /	0.30 /	.....	2.17 /	2.64 / 1.22	0.98 / 0.47	.....	63
..... /	3,550 /	10,019 /	.....	7,464 /	15,112 / 717	40,172 / 1,500	.....	64
..... /	2.31 /	0.30 /	.....	2.04 /	2.53 / 1.22	0.87 / 0.47	.....	65
..... /	4,515 /	120 /	.....	12,412 /	29,519 / 875	19,043 / 700	.....	66
..... /	..... /	11,000 /	.....	266,050 /	68,599 /	37,048 /	.....	67
12 / 1	53 / 1	225 / 1	8	86 / 7	177 / 1	301 / 4	4	68
454 / (2)	4,956 / (2)	34,076 / (2)	661	10,029 / 2,527	18,105 / (2)	61,497 / 1,895	150	69
1,057 / (2)	3,852 / (2)	260,180 / (2)	415	13,790 / 849	54,611 / (2)	281,357 / 5,390	75	70
2.3 / (2)	0.8 / (2)	7.6 / (2)	0.6	1.4 / 0.3	3.0 / (2)	4.6 / 2.8	0.5	71
1.52 / (2)	2.34 / (2)	0.48 / (2)	1.89	2.12 / 0.71	2.05 / (2)	0.78 / 0.42	2.67	72
..... /	..... /	4 /	1	2 /	6 /	2 /	.....	73
..... /	..... /	1,280 /	(2)	(2) /	8,954 /	(2) /	.....	74
..... /	..... /	694 /	(2)	(2) /	5,714 /	(2) /	.....	75
..... /	..... /	..... /	(2)	(2) /	84 /	..... /	.....	76
..... /	..... /	28 /	.....	(2) /	733 /	(2) /	.....	77

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

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

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

	ITEM (For definitions and explanations, see text)	Grand		Gunnison	Hinsdale	Huerfano	Jackson	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*							
1	All farms.....1940...number.....	253		362	34	696	262	
2	1930...number.....	229		370	44	760	203	
3	Irrigated farms.....1940...number.....	231		294	32	280	211	
4	1930...number.....	203		299	34	383	176	
5	Increase or decrease (-), 1930-1940.....percent....	13.8		-1.7	-5.9	-26.9	19.9	
	Operated by—							
6	(a) Owners and managers.....1940...number.....	182		250	29	222	193	
7	1930...number.....	178		264	30	322	159	
8	(b) Tenants.....1940...number.....	49		34	3	58	18	
9	1930...number.....	25		35	4	61	17	
10	Land in all farms.....1940...acres.....	288,150		316,201	18,696	540,908	350,789	
11	Land in irrigated farms.....1940...acres.....	277,893		249,510	18,456	289,579	321,898	
12	Average per farm.....1940...acres.....	1,203		849	577	1,034	1,526	
13	(a) Operated by owners and managers.....1940...acres.....	252,901		235,346	17,876	266,245	299,358	
14	Average per farm.....1940...acres.....	1,390		905	616	1,199	1,551	
15	(b) Operated by tenants.....1940...acres.....	24,992		14,164	580	23,334	22,540	
16	Average per farm.....1940...acres.....	510		417	193	402	1,252	
17	Approximate land area.....1940...acres.....	1,194,880		2,074,880	676,480	1,009,920	1,038,720	
	IRRIGATED AND IRRIGABLE AREAS							
18	Area irrigated.....1939...acres.....	38,939		69,042	4,605	18,816	154,279	
19	(a) Cropland harvested.....1939...acres.....	33,702		46,553	3,712	15,901	111,190	
20	(b) Crop failure.....1939...acres.....	192		278	140	1,507	.....	
21	(c) Pasture.....1939...acres.....	5,045		22,211	753	1,408	43,089	
22	Area irrigated.....1929...acres.....	28,649		41,474	5,212	30,974	113,840	
23	1919...acres.....	39,857		48,280	3,675	29,081	136,942	
24	Increase or decrease (-), 1929-1939.....percent....	35.9		66.5	-11.6	-39.3	35.5	
25	Irrigable area in enterprises.....1940...acres.....	59,410		77,377	4,966	27,456	181,240	
26	1930...acres.....	55,255		49,811	6,603	46,260	162,730	
27	1920[3]..acres.....	85,504		67,925	4,065	43,274	229,203	
28	Excess of irrigable area over the area irrigated..1940...acres.....	20,471		8,335	361	8,640	26,961	
29	1930...acres.....	26,606		8,337	1,391	15,286	48,890	
30	Area works were capable of supplying with water...1940...acres.....	51,685		76,150	4,825	25,169	168,475	
31	1930...acres.....	42,343		48,080	5,984	44,129	140,475	
32	1920...acres.....	43,092		52,467	3,860	32,119	149,325	
33	Increase or decrease (-), 1930-1940.....percent....	22.1		58.4	-19.4	-43.0	19.9	
34	Excess, capability of works over area irrigated...1940...acres.....	12,746		7,108	220	6,353	14,196	
35	1930...acres.....	13,694		6,606	772	13,155	26,635	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	14.0		27.7	25.0	6.5	47.9	
37	1929...percent....	14.3		22.7	33.3	10.3	37.6	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	75.3		90.7	95.4	74.8	91.6	
39	1929...percent....	67.7		86.3	87.1	70.2	81.0	
	CAPITAL INVESTED TO JANUARY 1							
40	Total investment in all enterprises.....1940...dollars....	549,749		549,996	30,925	270,442	789,860	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	514,283		509,236	25,505	236,792	760,945	
42	(b) Investment in water rights (reported).....1940...dollars....	35,466		40,760	5,420	33,650	28,915	
43	Total investment in all enterprises.....1930...dollars....	372,095		358,025	1,269,972	283,324	695,090	
44	1920...dollars....	534,913		462,748	395,752	1,061,777	784,326	
45	Increase or decrease (-), 1930-1940.....percent....	47.7		53.6	-97.6	-4.5	13.6	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	10.64		7.22	6.41	10.75	4.69	
47	1930...dollars....	8.79		7.45	212.23	6.42	4.95	
48	1920...dollars....	12.41		8.82	102.00	33.06	5.25	
49	Average investment per acre irrigated.....1939...dollars....	14.12		7.97	6.72	14.37	5.12	
50	Estimated final investment in existing enterprises..1940...dollars....	605,549		561,691	31,575	290,842	804,735	
51	1930...dollars....	405,045		364,575	1,319,972	287,824	963,030	
52	1920...dollars....	547,713		472,998	395,752	1,083,232	1,043,826	
53	Increase or decrease (-), 1930-1940.....percent....	49.5		54.1	-97.6	1.0	-16.4	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	10.19		7.26	6.36	10.59	4.44	
55	1930...dollars....	7.33		7.32	199.00	6.22	5.92	
56	1920[3]..dollars....	6.41		6.96	97.36	25.03	4.55	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Supplemental				Primary	Supplemental
		Enterprises					Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	190	3	278	32	202	205	1
58	Area irrigated in these enterprises.....1939...acres.....	38,217	655	66,526	4,465	18,276	152,343	(4)
59	Cost of maintenance and operation.....1939...dollars....	25,398	65	25,667	1,761	9,663	48,590	(4)
60	Average cost, per acre irrigated.....1939...dollars....	0.66	0.10	0.39	0.39	0.53	0.32	(4)
61	1929...dollars....	0.37	.....	0.45	4.04	0.63	0.29	.....
62	Total annual charges (reported)[5] [6].....1939...dollars....	2,393	.....	2,732	.....	2,325	1,250	.....
63	Average annual charge per acre irrigated.....1939...dollars....	0.41	.....	0.18	.....	0.41	0.08	.....
64	Area against which charges were assessed.....1939...acres.....	11,170	.....	15,307	.....	5,673	18,535	.....
65	Average annual charge per acre assessed.....1939...dollars....	0.21	.....	0.18	.....	0.41	0.07	.....
66	Total charges collected[5].....1939...dollars....	1,020	.....	389	.....	.....	.....	.....
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	159	.....	.....	.....	.....	.....	.....
	WATER DELIVERED TO IRRIGATORS							
68	Enterprises reporting water delivered.....1939...number.....	195	2	264	28	186	209	1
69	Area irrigated in these enterprises.....1939...acres.....	38,824	(4)	62,685	4,325	16,066	142,260	(4)
70	Water delivered in these enterprises.....1939...acre-feet..	231,408	(4)	444,757	6,027	22,118	430,990	(4)
71	Average water delivered per acre irrigated.....1939...acre-feet..	6.0	(4)	7.1	1.4	1.4	3.0	(4)
72	Average cost of water per acre irrigated.....1939...dollars....	0.69	(4)	0.38	0.36	0.55	0.33	(4)
	DRAINAGE OF IRRIGATED LAND							
73	Enterprises reporting land drained or needing drainage.....1939...number.....	8	.....	3	.....	3	1	.....
74	Irrigable area in these enterprises.....1939...acres.....	1,035	.....	1,278	.....	159	(4)	.....
75	Irrigated area in these enterprises.....1939...acres.....	1,030	.....	1,278	.....	159	(4)	.....
76	Area for which drains have been installed.....1939...acres.....	50	.....	5	.....	.....	(4)	.....
77	Additional area needing drainage.....1939...acres.....	152	.....	235	.....	14	(4)	.....

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

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

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

Jefferson	Kiowa	Lake	La Plata[1]	Larimer	Las Animas	Lincoln	Logan	
1,763	454	29	1,046	1,825	1,281	834	1,575	1
1,817	579	44	1,161	1,838	1,758	1,232	1,845	2
1,254	37	26	777	1,518	482	16	\604	3
1,320	3	27	871	1,499	531	7	617	4
-5.0	(2)	-3.7	-10.8	1.3	-9.2	128.6	-2.1	5
933	29	21	510	865	313	13	223	6
1,052	3	20	565	916	332	5	258	7
321	8	5	267	653	169	3	381	8
268	.....	7	306	583	199	2	359	9
267,316	629,831	16,629	371,522	709,361	1,982,361	1,405,422	1,041,707	10
126,878	38,630	16,187	256,426	568,104	709,917	100,744	324,030	11
101	1,044	623	330	374	1,473	6,296	536	12
98,063	32,566	14,400	199,466	448,475	622,868	88,144	206,713	13
105	1,123	686	391	518	1,990	6,780	927	14
28,815	6,064	1,767	56,960	119,629	87,049	12,600	117,317	15
90	758	357	213	183	515	4,200	308	16
503,040	1,146,880	243,200	1,080,960	1,676,160	3,068,160	1,659,520	1,160,280	17
49,655	104	8,506	75,218	149,652	31,760	244	100,175	18
46,993	63	4,349	62,061	139,588	21,902	119	94,031	19
1,060	41	5	1,843	7,811	2,343	.....	2,327	20
1,602	.....	4,152	11,294	2,253	7,515	125	3,817	21
58,124	270	4,242	94,532	173,078	32,092	185	111,378	22
70,788	418	6,397	63,755	169,356	40,400	.....	85,079	23
-14.6	-61.5	100.5	-20.4	-13.5	-1.0	31.9	-10.1	24
53,421	5,125	9,076	117,510	160,239	50,274	569	115,563	25
60,607	1,485	4,242	131,706	183,571	54,071	930	127,318	26
77,937	17,283	10,449	111,462	196,330	50,967	.....	124,415	27
3,766	5,021	570	42,292	10,587	18,514	325	15,388	28
2,483	1,215	.....	37,174	10,493	21,979	745	15,940	29
53,299	5,125	9,076	93,069	156,820	49,704	569	114,788	30
58,700	1,005	4,242	117,186	180,879	48,153	450	123,616	31
73,635	2,083	7,088	78,227	188,047	43,657	.....	105,916	32
-9.2	410.0	114.0	-20.6	-13.3	3.2	26.4	-7.1	33
3,644	5,021	570	17,851	7,168	17,944	325	14,613	34
576	735	.....	22,654	7,801	16,061	265	12,238	35
39.1	0.3	52.5	29.3	26.3	4.5	0.2	30.9	36
52.4	2.8	28.2	38.6	32.2	5.1	0.2	42.7	37
93.2	2.0	93.7	80.8	95.4	63.9	42.9	87.3	38
99.0	26.9	100.0	80.7	95.7	66.6	41.1	90.1	39
1,585,792	90,755	16,524	1,875,095	6,713,002	1,217,954	14,975	3,528,970	40
1,534,635	90,455	15,770	1,743,643	6,618,175	1,067,857	14,975	3,504,785	41
51,157	300	754	131,452	94,827	150,097	.....	24,185	42
2,500,326	325,800	8,970	1,039,896	7,514,401	2,058,902	2,950	3,072,572	43
1,231,205	251,500	33,696	938,864	6,236,866	401,720	.....	3,503,889	44
-36.6	-72.1	84.2	80.3	-10.7	-40.8	407.6	14.0	45
29.75	17.71	1.82	20.15	42.81	24.50	26.32	30.74	46
42.59	324.18	2.11	8.87	41.54	42.76	6.56	24.86	47
16.72	120.74	4.75	12.00	33.17	9.16	.....	33.93	48
31.94	872.64	1.94	24.93	44.86	38.35	61.37	35.23	49
1,586,057	90,755	16,524	2,703,140	6,729,136	1,221,096	14,975	3,535,220	50
2,510,326	335,800	8,970	1,240,216	7,516,971	2,319,602	2,950	3,081,072	51
1,268,125	337,200	33,696	978,214	6,473,663	455,470	.....	3,596,039	52
-36.8	-73.0	84.2	118.0	-10.5	-47.4	407.6	14.7	53
29.69	17.71	1.82	23.00	41.99	24.29	26.32	30.59	54
41.42	226.13	2.11	9.42	40.95	42.90	3.17	24.20	55
16.27	19.51	3.22	8.78	32.97	8.93	.....	28.90	56
Primary Enterprises / Sup. Enterprises			Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises	Primary Enterprises / Sup. Enterprises		Primary Enterprises / Sup. Enterprises	
58 / 10	20	22	171 / 12	184 / 68	171 / 4	5	58 / 54	57
48,729 / 2,573	104	6,731	74,497 / 1,355	148,895 / 29,407	30,896 / 147	205	99,771 / 30,331	58
42,755 / 515	763	1,647	45,147 / 691	92,801 / 33,231	26,007 / 290	725	89,988 / 14,202	59
0.88 / 0.20	7.34	0.24	0.61 / 0.51	0.62 / 1.13	0.84 / 1.97	3.54	0.90 / 0.47	60
1.93 /	15.56	0.22	0.60 /	1.09 /	1.22 /	2.90	0.66 /	61
41,372 / 201	.....	.....	32,683 / 503	175,063 / 25,484	21,426 /	.....	60,700 / 4,655	62
0.88 / 0.08	.....	.....	0.47 / 0.69	1.29 / 1.00	0.94 /	.....	0.65 / 0.19	63
49,261 / 2,510	.....	.....	79,323 / 1,070	138,450 / 25,470	23,127 /	.....	105,293 / 24,433	64
0.84 / 0.08	.....	.....	0.41 / 0.47	1.26 / 1.00	0.93 /	.....	0.58 / 0.19	65
44,825 / 300	.....	.....	33,210 / 499	180,763 / 25,997	15,649 /	.....	60,000 / 4,144	66
115,349 /	.....	.....	44,305 /	1,137,174 / 171,525	120,770 /	.....	33,793 /	67
49 / 9	16	23	118 / 6	186 / 50	170 / 4	7	56 / 53	68
41,836 / 2,573	104	8,390	64,914 / 600	148,336 / 29,358	30,362 / 147	244	99,762 / 30,411	69
69,383 / 1,420	80	31,670	170,589 / 1,581	193,359 / 26,905	39,281 / 82	979	185,008 / 17,500	70
1.7 / 0.6	0.8	3.8	2.6 / 2.6	1.3 / 0.9	1.3 / 0.6	4.0	1.9 / 0.6	71
1.01 / 0.22	6.72	0.26	0.48 / 0.34	1.27 / 1.25	0.91 / 1.97	3.54	0.67 / 0.51	72
2 /	.....	1	3 /	26 /	7 /	.....	4 /	73
(4) /	.....	(4)	17,067 /	15,574 /	2,565 /	.....	51,324 /	74
(4) /	.....	(4)	6,876 /	14,813 /	2,184 /	.....	39,082 /	75
..... /	.....	.....	1 /	13,442 /	..... /	.....	5,817 /	76
(4) /	.....	(4)	410 /	148 /	43 /	.....	2,600 /	77

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

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

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

	ITEM (For definitions and explanations, see text)	Mesa		Mineral	Moffat	Montezuma		Montrose	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms.....1940...number.....	2,652		49	527	1,043		1,426	
2	1930...number.....	2,665		50	797	978		1,318	
3	Irrigated farms.....1940...number.....	2,472		37	188	708		1,364	
4	1930...number.....	2,413		32	167	626		1,238	
5	Increase or decrease (-), 1930-1940.....percent....	2.4		15.6	12.6	13.1		10.2	
	Operated by—								
6	(a) Owners and managers.....1940...number.....	1,990		33	154	504		880	
7	1930...number.....	1,909		29	131	438		770	
8	(b) Tenants.....1940...number.....	482		4	34	204		484	
9	1930...number.....	504		3	36	188		468	
10	Land in all farms.....1940...acres.....	422,592		27,348	904,008	261,841		281,129	
11	Land in irrigated farms.....1940...acres.....	338,190		23,928	449,558	160,475		267,837	
12	Average per farm.....1940...acres.....	137		647	2,391	227		196	
13	(a) Operated by owners and managers.....1940...acres.....	295,010		22,813	421,293	119,022		214,693	
14	Average per farm.....1940...acres.....	148		691	2,736	236		244	
15	(b) Operated by tenants.....1940...acres.....	43,180		1,115	28,265	41,453		53,144	
16	Average per farm.....1940...acres.....	90		279	831	203		110	
17	Approximate land area.....1940...acres.....	2,120,320		589,440	3,042,560	1,340,800		1,432,960	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated.....1939...acres.....	106,385		6,208	19,384	48,453		86,837	
19	(a) Cropland harvested.....1939...acres.....	91,635		4,226	15,939	42,017		73,957	
20	(b) Crop failure.....1939...acres.....	552		.....	428	840		321	
21	(c) Pasture.....1939...acres.....	14,198		1,982	3,017	5,596		12,559	
22	Area irrigated.....1929...acres.....	136,488		2,563	17,938	62,146		84,058	
23	1919...acres.....	102,607		6,865	17,439	44,083		94,757	
24	Increase or decrease (-), 1929-1939.....percent....	-22.1		142.2	8.1	-22.0		3.3	
25	Irrigable area in enterprises.....1940...acres.....	155,868		7,245	27,828	83,298		138,196	
26	1930...acres.....	209,308		5,015	35,631	98,078		114,648	
27	1920[3]...acres.....	185,177		14,770	32,327	80,216		173,162	
28	Excess of irrigable area over the area irrigated..1940...acres.....	49,483		1,037	8,444	34,845		51,359	
29	1930...acres.....	72,820		2,452	17,693	35,932		30,590	
30	Area works were capable of supplying with water...1940...acres.....	140,395		7,160	24,204	55,495		116,360	
31	1930...acres.....	177,904		3,172	29,821	83,203		105,100	
32	1920...acres.....	140,104		9,950	24,224	44,795		123,905	
33	Increase or decrease (-), 1930-1940.....percent....	-21.1		125.7	-18.8	-33.3		10.7	
34	Excess, capability of works over area irrigated...1940...acres.....	34,010		952	4,820	7,042		29,523	
35	1930...acres.....	41,416		609	11,883	21,057		21,042	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	31.5		25.9	4.3	30.2		33.4	
37	1929...percent....	50.5		12.3	9.5	43.5		42.0	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	75.8		86.7	80.1	87.3		74.6	
39	1929...percent....	76.7		80.8	60.2	74.7		80.0	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises.....1940...dollars....	5,848,890		22,420	304,545	4,883,337		7,926,549	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	5,799,571		22,355	300,790	4,780,954		7,912,762	
42	(b) Investment in water rights (reported).....1940...dollars....	49,319		65	3,755	102,383		13,787	
43	Total investment in all enterprises.....1930...dollars....	6,620,956		24,250	381,417	4,932,595		6,944,017	
44	1920...dollars....	7,319,055		81,683	366,301	1,846,679		6,788,758	
45	Increase or decrease (-), 1930-1940.....percent....	-11.7		-7.5	-20.2	-1.0		14.1	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	41.66		3.13	12.58	88.00		68.12	
47	1930...dollars....	37.22		7.65	12.79	59.28		66.07	
48	1920...dollars....	52.24		8.21	15.12	41.23		54.79	
49	Average investment per acre irrigated.....1939...dollars....	54.98		3.61	15.71	100.79		91.28	
50	Estimated final investment in existing enterprises..1940...dollars....	6,313,115		22,975	327,335	5,100,762		8,160,528	
51	1930...dollars....	7,273,473		32,050	388,497	5,959,445		7,139,617	
52	1920...dollars....	8,155,335		102,243	386,226	2,446,679		7,286,466	
53	Increase or decrease (-), 1930-1940.....percent....	-13.2		-28.3	-15.7	-14.4		14.3	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	40.50		3.17	11.76	61.24		59.05	
55	1930...dollars....	34.75		6.39	10.90	60.76		62.27	
56	1920[3]..dollars....	44.04		6.92	11.95	30.50		42.08	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary	Sup.			Primary	Sup.	Primary	Sup.
		Enterprises				Enterprises		Enterprises	
57	Enterprises reporting maintenance and operation...1939...number.....	254	35	31	119	115	3	100	2
58	Area irrigated in these enterprises.....1939...acres.....	103,678	19,531	3,745	18,391	47,815	457	86,275	(1)
59	Cost of maintenance and operation.....1939...dollars....	138,205	42,326	1,063	18,734	49,966	730	114,194	(1)
60	Average cost, per acre irrigated.....1939...dollars....	1.33	2.17	0.28	1.02	1.04	1.60	1.32	(1)
61	1929...dollars....	1.24	.....	1.83	1.70	1.07	.....	1.76	.....
62	Total annual charges (reported)[5 6].....1939...dollars....	121,685	34,399	25	2,688	63,003	700	123,502	.....
63	Average annual charge per acre irrigated.....1939...dollars....	1.48	2.26	0.25	0.49	1.51	1.75	1.56	.....
64	Area against which charges were assessed.....1939...acres.....	85,247	16,925	100	6,764	45,670	400	91,165	.....
65	Average annual charge per acre assessed.....1939...dollars....	1.43	2.03	0.25	0.40	1.38	1.75	1.35	.....
66	Total charges collected[5].....1939...dollars....	100,477	46,035	.....	3,202	50,191	.....	105,000	9,985
67	Indebtedness to December 31 (reported)[6].....1939...dollars....	2,763,172	821,515	.....	7,701	85,075	.....	5,881,546	165,000
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered.....1939...number.....	245	32	40	129	78	1	90	3
69	Area irrigated in these enterprises.....1939...acres.....	98,280	19,301	6,208	18,146	44,789	(1)	82,470	2,811
70	Water delivered in these enterprises.....1939...acre-feet..	439,172	51,931	10,979	35,434	115,735	(1)	412,512	5,343
71	Average water delivered per acre irrigated.....1939...acre-feet..	4.5	2.7	1.8	2.0	2.6	(1)	5.0	1.9
72	Average cost of water per acre irrigated.....1939...dollars....	1.29	1.90	0.29	1.07	1.44	(1)	1.53	0.11
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage.....1939...number.....	14	.....	.....	1	2	.....	13	.....
74	Irrigable area in these enterprises.....1939...acres.....	53,622	.....	.....	(1)	(1)	.....	94,090	.....
75	Irrigated area in these enterprises.....1939...acres.....	30,788	.....	.....	(1)	(1)	.....	57,245	.....
76	Area for which drains have been installed.....1939...acres.....	14,523	.....	.....	.....	.....	.....	13,437	.....
77	Additional area needing drainage.....1939...acres.....	909	.....	.....	(1)	(1)	.....	4,726	.....

*Census of Agriculture.

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

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

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

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

Morgan	Otero	Ouray	Park	Phillips	Pitkin	Prowers	
1,349	1,189	153	306	626	169	1,022	1
1,569	1,298	178	394	766	180	1,382	2
848	1,037	136	148	2	150	713	3
845	1,120	156	125	.....	154	729	4
0.4	-7.4	-12.8	18.4	.....	-2.6	-2.2	5
369	532	106	119	(1)	128	303	6
388	596	124	104	.....	123	327	7
479	505	30	29	(1)	22	410	8
457	524	32	21	.....	31	402	9
625,903	[2]976,398	133,868	563,129	417,696	70,018	499,935	10
245,929	188,742	126,558	444,559	(1)	66,343	270,535	11
290	182	931	3,004	(1)	442	379	12
153,354	126,924	107,632	404,530	(1)	57,984	169,370	13
416	239	1,015	3,399	(1)	453	559	14
92,575	61,818	18,926	40,029	(1)	8,359	101,165	15
193	122	631	1,380	(1)	380	247	16
820,480	810,880	345,600	1,386,240	435,200	623,360	1,040,640	17
110,293	81,298	16,663	41,881	350	17,761	86,831	18
98,658	71,508	13,618	39,255	330	13,153	83,940	19
11,037	5,013	492	254	.....	158	1,355	20
598	4,777	2,553	2,372	20	4,450	1,536	21
105,277	87,981	20,401	44,038	.....	17,501	111,634	22
132,231	120,198	14,016	49,793	.....	12,994	76,322	23
4.8	-7.6	-18.3	-4.9	.....	1.5	-22.2	24
118,219	87,534	27,741	46,727	450	20,013	103,692	25
126,196	119,646	31,430	46,795	.....	25,612	131,195	26
166,670	183,077	24,017	55,449	.....	21,295	99,213	27
7,926	6,236	11,078	4,846	100	2,252	16,861	28
20,919	31,665	11,029	2,757	.....	8,111	19,561	29
117,143	87,356	22,915	45,438	450	19,984	102,002	30
115,333	106,066	23,431	45,570	.....	25,118	126,955	31
153,796	124,879	23,092	52,029	.....	15,172	81,508	32
1.6	-17.6	-2.2	-0.3	.....	-20.4	-19.7	33
6,850	6,058	6,252	3,557	100	2,223	15,171	34
10,056	18,085	3,030	1,532	.....	7,617	15,321	35
44.8	43.1	13.2	9.4	43.8	26.8	32.1	36
48.7	43.3	21.3	12.1	.....	34.8	66.2	37
94.2	93.1	72.7	92.2	77.8	88.9	85.1	38
91.3	82.9	87.1	96.6	.....	69.7	87.9	39
7,205,136	2,700,860	213,145	199,077	10,667	248,679	3,817,541	40
5,668,690	2,676,649	198,240	194,444	10,667	232,495	3,805,751	41
1,536,446	24,211	14,905	4,633	.....	16,184	11,790	42
2,784,109	2,782,085	213,491	211,435	.....	300,660	2,319,500	43
2,600,735	4,157,535	197,689	175,670	.....	208,924	1,160,422	44
158.8	-2.9	-0.2	-5.8	.....	-17.3	64.6	45
61.51	30.92	9.30	4.38	23.70	12.44	37.43	46
24.14	26.23	9.11	4.64	.....	11.97	18.27	47
16.91	33.29	8.56	3.38	.....	13.73	14.24	48
65.33	33.22	12.79	4.75	30.48	14.00	43.97	49
7,213,096	2,707,360	216,100	203,008	10,667	249,179	3,822,841	50
2,804,109	2,788,085	216,016	211,485	.....	309,060	2,319,825	51
2,604,785	4,438,935	197,758	176,080	.....	214,324	1,163,412	52
157.2	-2.9	(4)	-4.0	.....	-19.4	64.8	53
61.01	30.93	7.79	4.34	23.70	12.45	36.87	54
22.22	23.30	6.87	4.52	.....	12.07	17.68	55
15.63	24.25	8.23	3.18	.....	10.06	11.73	56
Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises	Primary / Sup. Enterprises		Primary / Sup. Enterprises	Primary / Sup. Enterprises	
120 / 122	53 / 93	107 / 5	139 / 2	3	116 / 2	40 / 22	57
110,293 / 83,023	81,287 / 5,767	16,663 / 669	41,593 / (1)	350	17,379 / (1)	86,731 / 2,088	58
115,087 / 64,254	65,026 / 9,812	5,083 / 253	15,334 / (1)	1,251	8,113 / (1)	60,373 / 2,992	59
1.04 / 0.77	0.80 / 1.70	0.31 / 0.38	0.37 / (1)	3.57	0.47 / (1)	0.70 / 1.43	60
1.15 /	0.73 /	0.46 /	0.30 /	.....	0.84 /	0.80 /	61
149,418 / 13,323	77,941 / 4,902	2,533 /	..... / 278	.....	1,765 /	92,851 /	62
1.56 / 0.20	0.97 / 2.85	0.29 /	..... / 0.08	.....	0.49 /	1.08 /	63
96,224 / 66,318	84,423 / 1,720	10,172 /	..... / 3,700	.....	3,570 /	90,116 /	64
1.55 / 0.20	0.92 / 2.85	0.25 /	..... / 0.08	.....	0.49 /	1.03 /	65
152,851 / 12,711	92,957 /	1,723 /	..... /	.....	..... /	97,606 /	66
672,382 /	432,595 /	..... /	..... /	.....	..... /	168,951 /	67
114 / 121	47 / 94	98 / 5	147 / 2	2	109 /	44 / 22	68
110,293 / 83,023	79,298 / 5,771	14,987 / 669	41,876 / (1)	(1)	17,255 /	86,791 / 2,088	69
222,144 / 79,357	205,044 / 4,863	63,290 / 3,289	158,484 / (1)	(1)	119,262 /	133,220 / 2,847	70
2.0 / 1.0	2.6 / 0.8	4.2 / 4.9	3.8 / (1)	(1)	6.9 /	1.5 / 1.4	71
1.72 / 0.78	1.02 / 2.17	0.39 / 0.38	0.37 / (1)	(1)	0.47 /	1.09 / 1.43	72
2 /	3 /	2 /	3 /	1	..... /	8 /	73
(1) /	15,476 /	(1) /	284 /	(1)	..... /	63,231 /	74
(1) /	15,426 /	(1) /	231 /	(1)	..... /	50,428 /	75
(1) /	3,065 /	..... /	..... /	(1)	..... /	13,577 /	76
..... /	500 /	(1) /	150 /	.....	..... /	664 /	77

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

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

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

	ITEM (For definitions and explanations, see text)	Pueblo		Rio Blanco		Rio Grande		Routt	
	FARMS, ACREAGE, AND TENURE OF FARM OPERATORS*								
1	All farms.....1940...number.....	1,193		339		675		829	
2	1930...number.....	1,473		433		730		928	
3	Irrigated farms.....1940...number.....	836		215		619		458	
4	1930...number.....	935		234		692		453	
5	Increase or decrease (-), 1930-1940.....percent....	-10.6		-8.1		-10.5		1.1	
	Operated by—								
6	(a) Owners and managers.....1940...number.....	549		177		392		330	
7	1930...number.....	622		194		419		306	
8	(b) Tenants.....1940...number.....	287		38		227		128	
9	1930...number.....	313		40		273		147	
10	Land in all farms.....1940...acres.....	797,883		468,398		197,941		575,215	
11	Land in irrigated farms.....1940...acres.....	390,433		352,513		184,704		436,214	
12	Average per farm.....1940...acres.....	467		1,640		298		952	
13	(a) Operated by owners and managers.....1940...acres.....	316,250		332,079		127,462		356,991	
14	Average per farm.....1940...acres.....	576		1,876		325		1,082	
15	(b) Operated by tenants.....1940...acres.....	74,183		20,434		57,242		79,223	
16	Average per farm.....1940...acres.....	258		598		252		619	
17	Approximate land area.....1940...acres.....	1,536,640		2,088,320		586,240		1,491,200	
	IRRIGATED AND IRRIGABLE AREAS								
18	Area irrigated.....1939...acres.....	48,828		37,068		176,334		47,524	
19	(a) Cropland harvested.....1939...acres.....	43,923		32,644		159,055		41,272	
20	(b) Crop failure.....1939...acres.....	3,446		381		2,632		594	
21	(c) Pasture.....1939...acres.....	1,459		4,043		14,647		5,658	
22	Area irrigated.....1929...acres.....	69,211		30,526		161,191		58,839	
23	1919...acres.....	75,454		28,045		206,258		50,735	
24	Increase or decrease (-), 1929-1939.....percent....	-29.5		21.4		9.4		-19.2	
25	Irrigable area in enterprises.....1940...acres.....	105,245		45,127		225,700		70,040	
26	1930...acres.....	123,567		39,416		186,267		87,022	
27	1920[5]...acres.....	142,594		45,579		293,162		92,148	
28	Excess of irrigable area over the area irrigated..1940...acres.....	56,417		8,059		49,366		22,516	
29	1930...acres.....	54,356		8,890		25,076		28,183	
30	Area works were capable of supplying with water...1940...acres.....	90,692		42,860		214,774		59,911	
31	1930...acres.....	97,122		34,438		172,997		77,571	
32	1920...acres.....	88,699		32,742		227,167		61,123	
33	Increase or decrease (-), 1930-1940.....percent....	-6.6		24.5		24.1		-22.8	
34	Excess, capability of works over area irrigated...1940...acres.....	41,864		5,792		38,440		12,387	
35	1930...acres.....	27,911		3,912		11,806		18,732	
36	Proportion which area irrigated is of all lands in irrigated farms.....1939...percent....	12.5		10.5		95.5		10.9	
37	1929...percent....	9.2		14.6		82.4		21.4	
38	Proportion which area irrigated is of area works were capable of supplying with water.....1939...percent....	53.8		86.5		82.1		79.3	
39	1929...percent....	71.3		88.6		93.2		75.9	
	CAPITAL INVESTED TO JANUARY 1								
40	Total investment in all enterprises.....1940...dollars....	2,365,651		549,585		4,784,002		594,175	
41	(a) Cost of irrigation works and equipment.....1940...dollars....	2,337,901		531,085		4,490,383		553,109	
42	(b) Investment in water rights (reported).....1940...dollars....	27,750		18,500		293,619		41,066	
43	Total investment in all enterprises.....1930...dollars....	2,459,925		488,770		1,357,907		523,065	
44	1920...dollars....	3,645,462		355,617		981,136		572,873	
45	Increase or decrease (-), 1930-1940.....percent....	-3.8		12.4		252.3		13.6	
46	Average investment, based on area works were capable of supplying with water, per acre.....1940...dollars....	26.08		12.82		22.27		9.92	
47	1930...dollars....	25.33		14.19		7.85		6.74	
48	1920...dollars....	41.10		10.86		4.32		9.37	
49	Average investment per acre irrigated.....1939...dollars....	48.45		14.83		27.13		12.50	
50	Estimated final investment in existing enterprises..1940...dollars....	2,415,045		557,230		4,820,130		833,120	
51	1930...dollars....	2,748,525		515,990		1,358,007		532,240	
52	1920...dollars....	3,919,282		372,882		982,914		613,908	
53	Increase or decrease (-), 1930-1940.....percent....	-12.1		8.0		254.9		56.5	
54	Average investment, based on estimated final investment and irrigable area, per acre.....1940...dollars....	22.95		12.35		21.36		11.89	
55	1930...dollars....	22.24		13.09		7.29		6.12	
56	1920[5]...dollars....	27.49		8.18		3.35		6.66	
	MAINTENANCE AND OPERATION, CHARGES AND INDEBTEDNESS	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.	Primary Enterprises	Sup.
57	Enterprises reporting maintenance and operation...1939...number.....	174	93	142	4	190	148	253	6
58	Area irrigated in these enterprises.....1939...acres.....	48,512	4,527	36,153	576	174,378	88,199	38,742	2,429
59	Cost of maintenance and operation.....1939...dollars....	69,599	10,749	20,152	111	55,352	67,938	19,986	248
60	Average cost, per acre irrigated.....1939...dollars....	1.43	2.37	0.56	0.19	0.32	0.77	0.52	0.10
61	1929...dollars....	1.41	.....	1.23	.....	0.25	.....	0.33	.....
62	Total annual charges (reported)[6] [7].....1939...dollars....	67,554	5,153	4,500	.....	37,105	11,163	9,594	150
63	Average annual charge per acre irrigated.....1939...dollars....	1.88	2.45	0.32	.....	0.24	0.14	0.77	0.08
64	Area against which charges were assessed.....1939...acres.....	45,922	2,105	16,389	.....	160,741	77,300	12,643	2,000
65	Average annual charge per acre assessed.....1939...dollars....	1.47	2.45	0.27	.....	0.23	0.14	0.76	0.08
66	Total charges collected[6].....1939...dollars....	70,825	400	778	.....	31,682	8,548	2,000	150
67	Indebtedness to December 31 (reported)[7].....1939...dollars....	210,521	.....	750	.....	1,327,327	201,150	80,950	.....
	WATER DELIVERED TO IRRIGATORS								
68	Enterprises reporting water delivered.....1939...number.....	171	87	141	3	197	139	306	11
69	Area irrigated in these enterprises.....1939...acres.....	48,600	4,491	36,649	576	175,897	87,613	42,761	2,710
70	Water delivered in these enterprises.....1939...acre-feet..	96,000	4,941	142,797	992	286,673	41,074	158,656	2,874
71	Average water delivered per acre irrigated.....1939...acre-feet..	2.0	1.1	3.9	1.7	1.6	0.5	3.7	1.1
72	Average cost of water per acre irrigated.....1939...dollars....	1.55	2.73	0.55	0.19	0.37	0.70	0.45	0.10
	DRAINAGE OF IRRIGATED LAND								
73	Enterprises reporting land drained or needing drainage.....1939...number.....	7	.....	4	.....	4	.....	3	.....
74	Irrigable area in these enterprises.....1939...acres.....	1,875	.....	2,475	.....	20,433	.....	2,660	.....
75	Irrigated area in these enterprises.....1939...acres.....	949	.....	1,960	.....	14,387	.....	2,520	.....
76	Area for which drains have been installed.....1939...acres.....	.....	.....	2	.....	6,080	.....	.....	.....
77	Additional area needing drainage.....1939...acres.....	130	.....	465	.....	10,000	.....	245	.....

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

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

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

Saguache	San Miguel[1]	Sedgwick	Summit	Teller	Washington	Weld	Yuma	All other counties[2]	
505	178	505	59	246	1,439	4,512	1,765	1,644	1
557	263	560	61	238	1,753	5,457	2,113	2,255	2
422	104	157	55	37	69	3,298	48	2	3
416	115	161	52	12	68	3,512	49	6	4
1.4	-9.6	-2.5	5.8	208.3	1.5	-8.7	-2.0	-66.7	5
268	80	71	43	28	35	1,314	34	.....	6
280	85	64	47	12	37	1,443	37	20	7
154	24	86	12	11	34	1,984	14	(3)	8
136	30	97	5	.....	31	2,169	12	4	9
465,726	169,458	288,736	42,098	145,509	1,301,288	1,934,146	1,440,494	1,746,738	10
420,128	72,389	52,560	39,815	43,087	28,914	654,857	51,087	(3)	11
996	696	335	724	1,165	419	199	1,064	(3)	12
367,751	66,882	32,736	34,546	36,173	23,191	309,632	40,876	.....	13
1,372	836	461	803	1,391	663	236	1,202	.....	14
52,377	5,507	19,824	5,269	6,914	5,723	345,225	10,211	(3)	15
340	229	231	439	629	168	174	729	(3)	16
2,012,160	821,120	348,160	393,600	354,560	1,616,000	2,562,560	1,525,120	2,774,400	17
147,792	24,250	21,741	8,941	905	9,792	418,619	2,726	94	18
123,431	19,465	21,500	8,140	812	9,309	405,852	2,372	94	19
257	180	41	60	53	483	5,139	115	.....	20
24,094	4,605	200	741	40	.....	7,628	239	.....	21
163,815	18,249	22,375	9,204	550	11,120	443,915	2,725	1,164	22
137,581	18,634	21,510	9,831	1,464	9,335	382,701	8,254	794	23
-9.8	32.9	-2.8	-2.9	64.5	-11.9	-5.7	(4)	91.9	24
189,223	82,405	22,200	9,863	1,398	10,150	516,192	4,318	124	25
184,412	53,945	24,580	11,354	695	11,755	568,407	3,970	1,298	26
271,932	44,749	24,050	15,222	1,944	10,095	567,392	15,242	2,324	27
41,441	58,155	459	922	433	358	97,573	1,592	30	28
20,597	35,696	2,205	2,150	145	635	124,492	1,245	134	29
187,128	32,574	22,200	9,673	1,311	10,100	487,778	3,982	121	30
178,052	21,661	23,985	11,354	630	11,705	499,675	3,805	1,273	31
153,391	22,811	23,050	10,986	1,540	10,095	395,444	10,182	1,394	32
5.1	50.4	-7.4	-14.8	108.1	-13.7	-2.4	4.7	90.3	33
39,346	8,324	459	732	406	308	69,159	1,256	30	34
14,237	3,412	1,610	2,150	80	585	65,760	1,080	109	35
35.2	33.5	41.4	22.5	2.1	33.9	63.9	5.3	2.3	36
40.9	19.8	23.8	31.9	4.3	40.4	58.3	7.5	4.2	37
79.0	74.4	97.9	92.4	69.0	97.0	65.8	68.5	75.8	38
92.0	84.2	93.3	81.1	87.3	95.0	88.8	71.6	91.4	39
1,967,656	367,890	655,085	119,259	4,721	379,816	16,483,611	31,570	1,850	40
1,737,503	364,475	630,085	102,440	4,281	341,015	16,146,294	26,120	1,725	41
230,153	3,415	25,000	16,819	440	38,801	337,317	5,450	125	42
587,809	550,484	802,360	84,960	3,965	988,116	12,621,370	43,200	12,350	43
450,609	676,100	716,215	103,581	12,141	78,966	16,417,224	83,908	89,094	44
234.7	-33.2	-18.4	40.4	19.1	-61.6	30.6	-26.9	-85.0	45
10.52	11.29	29.51	12.33	3.60	37.61	33.79	7.93	14.92	46
3.30	25.41	33.45	7.48	5.29	84.42	25.26	11.35	9.70	47
2.94	29.64	31.07	9.43	7.88	7.82	41.52	8.24	63.91	48
13.31	15.17	30.13	13.34	5.22	38.79	39.38	11.68	19.68	49
1,968,801	479,890	656,185	122,519	6,026	381,716	16,600,836	31,895	1,850	50
588,409	672,644	802,860	84,960	3,965	992,116	13,144,670	43,500	12,350	51
531,614	797,700	716,215	103,631	12,141	80,166	18,892,937	89,908	90,994	52
234.6	-28.7	-18.3	44.2	52.0	-61.5	26.3	-26.7	-85.0	53
10.40	5.82	29.56	12.42	4.50	37.61	32.16	7.39	14.92	54
3.19	12.47	32.66	7.48	5.71	84.40	23.13	10.96	9.51	55
1.95	17.83	29.78	6.81	6.25	7.94	33.30	5.11	39.15	56
Primary Enterprises	Sup. Enterprises		Primary Enterprises	Sup. Enterprises			Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises	Primary Enterprises	Sup. Enterprises		
175	12	39	10	9	54	39	10	22	366	502	22	1	2	57
112,225	33,045	24,250	21,696	673	8,741	903	9,792	9,358	416,581	202,719	2,706	(3)	(3)	58
29,620	6,705	5,364	18,809	1,228	7,719	1,044	4,765	8,663	285,529	186,070	2,540	(3)	(3)	59
0.26	0.20	0.22	0.87	1.82	0.88	1.16	0.49	0.93	0.69	0.92	0.94	(3)	(3)	60
0.22	.....	0.57	0.71	.....	0.27	1.80	1.12	.....	0.97	.....	0.86	.....	0.90	61
21,696	3,997	5,723	13,656	.....	.....	.....	4,111	870	351,661	81,646	906	.....	.....	62
0.34	0.14	0.28	0.66	.....	.....	.....	0.44	0.16	0.89	0.52	0.73	.....	.....	63
68,134	27,800	21,540	20,666	.....	.....	.....	9,450	5,364	409,748	155,729	1,262	.....	.....	64
0.32	0.14	0.27	0.66	.....	.....	.....	0.44	0.16	0.86	0.52	0.72	.....	.....	65
20,315	3,327	5,480	11,749	.....	.....	.....	4,083	992	340,345	71,756	863	.....	.....	66
99,440	67,000	3,825	.....	.....	.....	.....	6,333	.....	1,471,630	279,000	3,280	.....	.....	67
251	13	33	9	6	55	35	9	22	356	504	22	1	2	68
127,178	31,713	21,656	20,662	673	8,941	895	6,792	9,358	386,096	206,133	2,706	(3)	(3)	69
157,622	9,517	40,944	28,196	666	61,953	467	10,440	6,505	528,908	172,265	5,135	(3)	(3)	70
1.2	0.3	1.9	1.4	1.0	6.9	0.5	1.5	0.7	1.4	0.8	1.9	(3)	(3)	71
0.32	0.14	0.28	0.65	1.82	0.88	1.08	0.73	0.91	1.10	1.11	0.97	(3)	(3)	72
1	.....	2	.....	.....	.....	.....	.....	.....	26	.....	.....	.....	.....	73
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	27,577	.....	.....	.....	.....	74
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	22,757	.....	.....	.....	.....	75
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	2,558	.....	.....	.....	.....	76
(3)	.....	(3)	.....	.....	.....	.....	.....	.....	856	.....	.....	.....	.....	77

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS,

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

	ITEM (For definitions and explanations, see text)	STATE TOTAL	Adams	Alamosa	Arapahoe	Archuleta	Baca	Bent
	FARM VALUES, 1940*							
1	Land and buildings, all farms....dollars..	388,343,847	13,528,602	4,469,290	10,754,234	1,844,939	4,989,136	5,472,498
2	Land and buildings, irrigated farms....dollars..	268,377,191	8,660,723	4,118,720	4,929,029	1,516,909	450,612	4,740,407
	Operated by—							
3	(a) Owners and managers....dollars..	173,643,424	5,754,707	3,019,500	3,408,402	1,282,142	369,967	2,371,889
4	(b) Tenants....dollars..	94,733,767	2,906,016	1,099,220	1,520,627	234,767	80,645	2,368,518
5	Average, land and buildings, per farm....dollars..	9,016.23	9,068.82	9,360.73	14,412.37	6,990.36	7,510.20	9,937.96
6	per acre in farms....dollars..	21.43	69.34	11.98	73.29	6.61	3.96	15.38
7	Buildings, irrigated farms reporting value....number...	28,812	925	432	332	216	60	467
8	Total reported....dollars..	59,423,593	2,184,210	950,963	1,466,619	295,786	47,610	1,051,550
9	Average, per irrigated farm reporting....dollars..	2,062.46	2,361.31	2,201.30	4,417.53	1,369.38	793.50	2,251.71
10	per acre on all irrigated farms....dollars..	4.75	17.49	2.77	21.81	1.29	0.42	3.41
11	Buildings, nonirrigated farms reporting value....number...	20,248	720	83	716	133	781	196
12	Total reported....dollars..	25,423,820	1,016,160	122,638	2,050,970	61,299	422,623	139,165
13	Average, per nonirrigated farm reporting....dollars..	1,255.62	1,411.33	1,477.57	2,864.48	460.89	541.13	710.03
14	per acre on all nonirrigated farms....dollars..	1.34	2.14	4.02	5.35	1.11	0.44	0.51
15	Implements and machinery, irrigated farms reporting value..number...	26,692	833	404	273	210	57	441
16	Total reported....dollars..	25,650,123	800,062	477,008	274,695	159,682	39,865	461,880
17	Average, per irrigated farm reporting....dollars..	960.97	960.46	1,180.71	1,006.21	760.39	699.39	1,047.35
18	per acre, on all irrigated farms....dollars..	2.05	6.41	1.39	4.08	0.70	0.35	1.50
19	Implements and machinery, nonirrigated farms reporting value....number...	18,137	618	47	555	123	711	146
20	Total reported....dollars..	13,371,491	559,106	20,296	502,977	31,677	552,721	63,869
21	Average, per acre, on all nonirrigated farms....dollars..	0.70	1.18	0.67	1.31	0.57	0.58	0.23
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises....1940...number....	[3] 8,853	319	137	46	177	18	44
23	1930...number....	[3] 6,585	150	49	24	124	4	37
24	1920...number....	6,634	59	57	37	97	7	30
25	Average size of enterprise based on irrigable area....1940...acres....	484	278	1,346	543	108	193	2,102
26	1930...acres....	688	873	3,716	1,377	189	964	1,850
27	1920[4]..acres....	787	1,937	3,268	1,679	188	1,786	4,862
28	Diversion dams....1940...number....	4,792	12	26	9	102	7	10
29	Main canals and laterals....1940...length, miles....	19,864.0	277.5	388.1	124.2	201.4	39.0	193.0
30	1930...length, miles....	21,381	304	548	97	201	29	719
31	1920...length, miles....	27,593	366	355	218	185	27	1,110
32	1940...capacity, c.f.s.[5]....	139,780	2,739	1,125	135	481	133	3,027
33	1930...capacity, c.f.s.[5]....	123,652	2,279	2,492	797	412	213	9,966
34	1920...capacity, c.f.s.[5]....	119,558	2,067	2,073	903	369	271	3,679
35	Pipe lines[6]....1940...length, miles....	245.1	4.0	.....	0.6	0.1	0.6	1.3
36	Storage dams....1940...number....	1,015	31	2	7	6	7	7
37	Reservoirs....1940...number....	1,071	42	2	12	6	9	7
38	1930...number....	765	7	.....	1	3	1	3
39	1920...number....	979	11	2	6	5	4	17
40	1940...capacity, acre-feet..	2,071,522	38,390	(2)	2,559	850	30,104	152,012
41	1930...capacity, acre-feet..	1,924,982	44,245	.....	232	869	35,000	62,756
42	1920...capacity, acre-feet..	2,406,372	68,551	12,527	73,866	665	33,726	339,402
43	Wells, flowing....1940...number....	886	.....	136	4	.....	3	.....
44	1930...number....	621	.....	83	.....	.....	.....	.....
45	1920...number....	476	1	119	2	.....	8	.....
46	1940...yield, g.p.m....	54,859	.....	19,565	165	.....	93	.....
47	1930...yield, g.p.m....	39,644	.....	4,150	.....	.....	.....	.....
48	1920...yield, g.p.m....	20,139	40	5,085	130	.....	1,725	.....
49	Wells, pumped....1940...number....	2,878	321	80	31	.....	4	31
50	1930...number....	654	132	.....	17	.....	.....	3
51	1920...number....	527	28	.....	3	.....	4	11
52	1940...yield, g.p.m....	1,929,798	146,314	61,120	16,470	.....	8,006	14,768
53	1930...yield, g.p.m....	237,903	48,166	.....	2,949	.....	.....	1,090
54	1920...yield, g.p.m....	210,094	8,217	.....	750	.....	52	8,250
55	Pumping plants....1940...number....	2,806	318	56	30	1	4	32
56	1930...number....	516	135	.....	16	1	.....	7
57	1920...number....	406	29	.....	3	2	3	8
58	Prime movers....1940...capacity, hp....	49,157	5,202	1,187	566	(2)	81	493
59	1930...capacity, hp....	11,204	1,677	.....	114	12	.....	132
60	1920...capacity, hp....	8,635	168	.....	22	22	.....	197
61	Pumps....1940...capacity, g.p.m....	2,263,375	163,540	51,570	17,695	(2)	8,006	18,658
62	1930...capacity, g.p.m....	437,250	49,421	.....	3,253	300	.....	5,740
63	1920...capacity, g.p.m....	299,726	8,217	.....	750	1,200	52	8,350
64	Pumping lift, from all sources....1940...average, feet....	32	32	17	45	(2)	68	22
65	1930...average, feet....	25	26	.....	21	132	.....	25
66	1920...average, feet....	23	27	.....	17	85	100	24
67	from pumped wells....1940...average, feet....	33	32	18	45	.....	71	23
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[8]							
68	Enterprises reporting pay roll....number...	786	24	11	9	5	1	6
69	Irrigated area in these enterprises....acres....	2,695,030	66,980	84,748	21,446	5,910	(2)	57,823
70	Wages and salaries paid and payable....dollars..	1,167,624	27,165	14,769	22,968	2,754	(2)	24,017
71	Persons employed during week ending April 29....number...	3,068	34	34	26	16	(2)	36

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

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

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

Boulder	Chaffee	Clear Creek	Conejos	Costilla	Crowley	Custer	Delta	Denver	Dolores[1]	Douglas	Eagle	Elbert	El Paso	
12,120,646	1,998,368	378,270	7,023,576	2,136,129	2,554,458	2,134,357	7,316,921	1,640,900	738,543	4,829,497	3,988,865	6,539,873	8,480,534	1
11,126,963	1,789,718	202,970	6,726,602	2,055,949	2,115,609	1,565,500	7,171,992	1,323,445	81,600	1,633,641	3,896,165	274,950	2,761,296	2
5,993,648	1,413,393	105,570	5,330,272	1,443,334	791,538	1,208,410	5,162,384	1,163,595	(2)	1,149,890	3,102,015	(2)	2,512,006	3
5,133,315	376,325	97,400	1,396,330	612,615	1,324,071	357,090	2,009,608	159,850	(2)	483,751	794,150	(2)	249,290	4
9,518.36	7,304.97	10,682.63	7,803.48	4,301.15	5,223.73	10,871.53	4,365.18	12,031.32	4,800.00	22,378.64	12,691.09	30,550.00	12,843.24	5
71.61	18.25	18.49	20.22	5.64	19.70	11.97	34.76	1,276.22	9.27	15.71	17.87	6.29	7.41	6
1,156	240	18	741	447	394	141	1,566	86	16	72	299	9	202	7
2,652,322	508,000	79,560	1,063,442	351,840	371,250	370,973	1,869,689	661,400	14,400	448,750	685,190	33,000	604,480	8
2,294.40	2,116.67	4,420.00	1,435.14	787.11	942.26	2,631.01	1,193.93	7,690.70	900.00	6,232.64	2,291.61	3,666.67	2,992.48	9
17.07	5.18	7.25	3.20	0.96	3.46	2.84	9.06	637.80	1.64	4.32	3.14	0.75	1.62	10
176	47	27	158	40	118	155	51	36	211	331	20	963	1,031	11
322,551	115,055	69,500	95,465	17,175	54,810	129,955	20,650	185,800	101,580	839,881	19,165	1,377,600	1,594,192	12
1,832.68	2,447.98	2,574.07	604.21	429.38	464.49	838.42	404.90	5,161.11	461.42	2,537.40	958.25	1,430.53	1,546.26	13
6.26	12.12	9.21	4.75	0.62	0.25	1.15	1.43	149.48	1.49	3.21	1.38	1.35	2.12	14
1,072	216	13	763	400	374	135	1,384	68	17	69	295	9	178	15
905,939	178,168	5,070	713,296	333,687	293,772	116,377	741,910	37,757	12,150	96,274	324,569	13,575	170,174	16
845.09	824.85	390.00	934.86	834.22	785.49	862.05	536.06	555.25	714.71	1,395.28	1,100.23	1,506.33	956.03	17
5.83	1.82	0.46	2.14	0.91	2.74	0.89	3.60	36.41	1.38	0.93	1.49	0.31	0.46	18
146	36	17	129	26	115	148	31	26	193	310	16	899	943	19
84,751	12,474	7,925	38,709	6,420	46,210	65,540	9,125	26,926	159,630	268,911	5,430	706,467	520,576	20
1.64	1.31	1.05	1.92	0.23	0.21	0.58	0.63	21.66	2.34	1.03	0.39	0.69	0.69	21
157	130	19	171	43	21	155	386	4	17	73	260	15	108	22
92	118	14	172	103	22	126	276	5	10	95	196	17	93	23
151	157	.....	159	46	24	202	298	4	22	94	186	22	63	24
832	281	26	1,102	2,524	3,222	207	397	245	121	122	171	93	210	25
2,002	285	.....	955	1,097	3,466	202	512	178	79	105	176	388	366	26
1,248	244	.....	1,305	2,238	2,999	195	526	1,219	1,073	161	258	305	563	27
104	64	14	151	43	2	56	209	1	29	55	23	6	49	28
540.8	382.4	3.0	539.1	313.1	160.5	163.1	956.2	11.0	20.0	121.9	508.6	11.0	123.2	29
582	300	.....	662	357	116	238	799	14	13	126	330	54	172	30
1,467	439	.....	683	537	212	338	997	20	58	213	447	62	193	31
4,269	1,080	227	6,239	3,067	2,528	571	3,063	22	956	997	1,853	37	594	32
3,461	770	.....	5,750	1,465	4,342	355	2,971	22	21	235	725	1,881	549	33
4,812	1,090	.....	5,000	997	2,059	784	3,245	70	298	554	885	158	863	34
3.1	0.3	.....	.....	.....	0.1	0.2	7.1	9.0	.....	0.1	4.6	.....	8.3	35
40	4	14	5	5	14	4	168	.....	1	3	9	6	63	36
42	4	12	4	7	14	1	167	.....	[7] 1	3	13	9	67	37
24	2	.....	2	5	19	2	129	.....	.....	9	8	9	16	38
44	3	.....	5	6	18	1	115	.....	4	17	15	5	29	39
57,037	11,647	2,485	39,767	136,125	40,661	(2)	38,766	.....	22,000	24	3,332	214	2,746	40
43,974	11,440	.....	24,000	130,943	66,577	260	35,537	.....	.....	15,335	3,378	4,537	8,741	41
33,282	20	.....	34,968	132,660	8,593	5	39,284	.....	19,630	4,287	1,468	6,755	13,103	42
.....	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	1	.....	3	45
.....	.....	.....	1,010	.....	.....	.....	.....	.....	.....	.....	.....	.....	(2)	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	.....	70	.....	700	.....	.....	.....	.....	.....	.....	.....	30	48
5	.....	.....	39	.....	31	2	.....	.....	.....	1	.....	7	42	49
.....	1	.....	.....	.....	46	1	.....	.....	.....	.....	.....	.....	.....	50
1	.....	.....	.....	.....	48	.....	.....	.....	.....	3	.....	3	1	51
2,160	.....	.....	14,400	.....	7,015	(2)	.....	.....	.....	(2)	.....	3,050	21,358	52
.....	265	.....	.....	.....	16,470	20	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	22,575	.....	.....	.....	.....	405	.....	1,200	.....	54
7	.....	.....	18	.....	18	2	4	1	.....	3	3	7	37	55
3	1	.....	.....	.....	20	1	6	2	.....	2	.....	2	.....	56
2	.....	.....	.....	.....	25	.....	6	.....	.....	3	3	3	1	57
95	.....	.....	293	.....	188	(2)	74	(2)	.....	41	30	42	672	58
42	5	.....	.....	.....	216	2	128	17	.....	11	.....	40	.....	59
30	.....	.....	.....	.....	299	.....	21	.....	.....	21	33	12	.....	60
2,890	.....	.....	16,190	.....	11,235	(2)	980	(2)	.....	800	2,225	3,350	23,675	61
4,400	265	.....	.....	.....	17,220	20	4,187	3,024	.....	370	.....	2,909	.....	62
1,000	.....	.....	.....	.....	23,505	.....	881	.....	.....	412	1,000	1,200	.....	63
25	.....	.....	29	.....	23	(2)	194	(2)	.....	54	19	25	33	64
13	18	.....	.....	.....	17	2	88	8	.....	31	.....	16	.....	65
8	.....	.....	.....	.....	28	.....	13	.....	.....	22	45	29	.....	66
25	.....	.....	30	.....	24	(2)	.....	.....	.....	.....	.....	30	36	67
59	13	1	42	17	3	.....	85	4	.....	3	5	.....	3	68
120,984	15,981	.....	121,069	39,392	48,200	.....	103,335	921	.....	2,050	3,026	.....	6,652	69
25,781	1,136	(2)	11,050	22,349	15,697	.....	75,941	2,445	.....	4,336	1,189	.....	5,840	70
121	49	(2)	63	101	32	.....	523	3	.....	4	17	.....	10	71

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

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

	ITEM (For definitions and explanations, see text)	Fremont	Garfield	Gilpin	Grand	Gunnison	Hinsdale	Huerfano
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	3,843,510	6,721,490	239,765	3,089,056	4,436,514	279,750	2,703,802
2	Land and buildings, irrigated farms.....dollars..	3,428,062	6,401,830	84,490	2,943,316	3,760,778	273,790	1,832,992
	Operated by—							
3	(a) Owners and managers.....dollars..	2,779,857	5,068,324	77,850	2,577,766	3,508,078	254,790	1,615,398
4	(b) Tenants.....dollars..	648,205	1,333,506	6,640	365,550	252,700	19,000	217,594
5	Average, land and buildings, per farm.....dollars..	4,206.21	7,049.98	10,561.25	12,741.63	12,791.76	8,555.94	6,546.40
6	per acre in farms.....dollars..	13.21	21.22	12.13	10.59	15.07	14.83	6.33
7	Buildings, irrigated farms reporting value.....number...	801	858	8	222	291	31	271
8	Total reported.....dollars..	974,640	1,389,603	26,800	686,800	846,955	61,000	234,575
9	Average, per irrigated farm reporting.....dollars..	1,216.78	1,619.58	3,350.00	3,093.69	2,910.50	1,967.74	865.96
10	per acre on all irrigated farms.....dollars..	3.76	4.61	3.85	2.47	3.39	3.31	0.81
11	Buildings, nonirrigated farms reporting value.....number...	164	103	43	22	54	2	394
12	Total reported.....dollars..	120,590	70,620	33,300	20,305	67,390	(2)	144,135
13	Average, per nonirrigated farm reporting.....dollars..	735.30	685.63	774.42	922.95	1,247.96	(2)	365.82
14	per acre on all nonirrigated farms.....dollars..	1.12	1.65	2.49	1.98	1.01	(2)	0.57
15	Implements and machinery, irrigated farms reporting value..number...	744	738	8	212	267	31	267
16	Total reported.....dollars..	295,433	578,854	3,565	229,230	276,374	24,615	132,682
17	Average, per irrigated farm reporting.....dollars..	397.09	784.36	445.63	1,081.27	1,035.11	794.03	496.94
18	per acre, on all irrigated farms.....dollars..	1.14	1.92	0.51	0.82	1.11	1.33	0.46
19	Implements and machinery, nonirrigated farms reporting value.....number...	130	67	35	15	33	1	323
20	Total reported.....dollars..	52,432	21,025	11,860	5,430	11,720	(2)	79,688
21	Average, per acre, on all nonirrigated farms.....dollars..	0.49	0.49	0.89	0.53	0.18	(2)	0.32
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	187	342	4	201	287	34	213
23	1930...number.....	186	291	1	155	227	53	313
24	1920...number.....	179	323	.....	166	382	52	267
25	Average size of enterprise based on irrigable area.....1940...acres.....	155	244	44	296	270	146	129
26	1930...acres.....	198	343	.....	356	219	125	148
27	1920[3]..acres.....	246	364	.....	515	178	78	162
28	Diversion dams.....1940...number.....	74	121	11	147	290	41	129
29	Main canals and laterals.....1940...length, miles.....	263.0	721.4	10.0	391.4	692.2	68.1	303.1
30	1930...length, miles.....	245	736	.....	415	409	51	388
31	1920...length, miles.....	330	1,242	.....	579	736	104	621
32	1940...capacity, c.f.s.[4]....	796	2,499	7	2,399	4,564	203	1,186
33	1930...capacity, c.f.s.[4]....	702	1,911	.....	1,673	1,631	385	1,218
34	1920...capacity, c.f.s.[4]....	901	2,563	.....	2,037	4,236	519	1,907
35	Pipe lines[5].....1940...length, miles.....	66.5	5.3	.....	0.9	2.4	.....	0.1
36	Storage dams.....1940...number.....	16	21	4	18	10	4	25
37	Reservoirs.....1940...number.....	19	21	4	16	11	6	24
38	1930...number.....	20	16	.....	21	3	5	12
39	1920...number.....	31	26	.....	25	6	2	34
40	1940...capacity, acre-feet..	4,318	13,187	75	1,759	107,980	78,876	3,651
41	1930...capacity, acre-feet..	7,260	20,572	.....	3,641	77	126,400	1,446
42	1920...capacity, acre-feet..	6,972	7,594	.....	3,137	460	43,500	12,027
43	Wells, flowing.....1940...number.....	15	.....	.....	.....	.....	.....	.....
44	1930...number.....	5	.....	.....	.....	.....	.....	.....
45	1920...number.....	3	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	1,926	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	870	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	115	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	9	.....	.....	1	.....	.....	4
50	1930...number.....	2	.....	.....	.....	.....	.....	.....
51	1920...number.....	9	.....	.....	.....	.....	.....	2
52	1940...yield, g.p.m.....	919	.....	.....	(2)	.....	.....	1,813
53	1930...yield, g.p.m.....	80	.....	.....	.....	.....	.....	.....
54	1920...yield, g.p.m.....	287	.....	.....	.....	.....	.....	70
55	Pumping plants.....1940...number.....	14	1	.....	2	1	.....	5
56	1930...number.....	5	2	.....	1	2	.....	.....
57	1920...number.....	10	2	.....	.....	4	.....	4
58	Prime movers.....1940...capacity, hp.....	131	(2)	.....	(2)	(2)	.....	22
59	1930...capacity, hp.....	53	42	.....	1	62	.....	.....
60	1920...capacity, hp.....	309	10	.....	.....	112	.....	11
61	Pumps.....1940...capacity, g.p.m.....	5,369	(2)	.....	(2)	.....	.....	1,843
62	1930...capacity, g.p.m.....	4,380	2,000	.....	30	4,000	.....	.....
63	1920...capacity, g.p.m.....	6,962	350	.....	.....	3,800	.....	45
64	Pumping lift, from all sources.....1940...average, feet.....	29	(2)	.....	(2)	.....	.....	25
65	1930...average, feet.....	28	32	.....	6	26	.....	.....
66	1920...average, feet.....	38	29	.....	.....	18	.....	52
67	from pumped wells.....1940...average, feet.....	31	.....	.....	(2)	.....	.....	20
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[6]							
68	Enterprises reporting pay roll.....number...	15	17	.....	3	7	.....	4
69	Irrigated area in these enterprises.....acres....	14,550	22,479	.....	4,100	8,697	.....	2,440
70	Wages and salaries paid and payable.....dollars..	21,334	13,512	.....	980	1,544	.....	1,000
71	Persons employed during week ending April 29.....number...	63	64	.....	1	20	.....	.....

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

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

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

Jackson	Jefferson	Kiowa	Lake	La Plata[1]	Larimer	Las Animas	Lincoln	Logan	Mesa	Mineral	Moffat	Montezuma	Montrose	
4,864,598	16,249,925	2,222,948	207,040	5,025,833	19,867,500	6,122,101	4,708,745	14,078,741	14,006,534	648,780	4,018,916	3,850,283	6,614,604	1
4,639,519	12,620,708	176,650	202,440	4,333,158	18,035,714	3,126,141	285,843	7,441,614	13,239,254	580,210	2,216,378	2,763,090	6,465,143	2
4,246,929	9,435,458	145,110	192,900	3,121,078	10,264,131	2,349,285	270,793	3,061,537	11,193,544	566,310	1,989,118	1,963,171	4,527,773	3
392,590	3,185,250	31,540	9,540	1,212,080	7,771,583	776,856	15,050	4,380,077	2,045,710	13,900	227,260	799,928	1,937,370	4
21,988.24	10,064.36	4,774.32	7,786.15	5,576.78	11,881.23	6,485.77	17,865.19	12,320.55	5,355.69	15,681.35	11,789.24	3,902.68	4,739.84	5
14.41	99.47	4.57	12.51	16.90	31.75	4.40	2.84	22.97	39.15	24.25	4.93	17.22	24.14	6
209	1,221	37	26	761	1,492	456	16	596	2,421	33	179	647	1,314	7
671,500	3,970,833	39,340	56,045	1,135,073	4,261,350	361,545	24,787	1,346,670	3,621,460	207,800	351,182	631,340	1,625,557	8
3,212.92	3,252.12	1,063.24	2,155.58	1,491.55	2,856.13	792.86	1,549.19	2,259.51	1,495.85	6,296.97	1,961.91	975.80	1,237.11	9
2.09	31.30	1.02	3.46	4.43	7.50	0.51	0.25	4.16	10.71	8.68	0.78	3.93	6.07	10
50	502	384	1	256	299	760	731	921	166	9	318	300	58	11
51,825	1,605,196	313,002	(2)	165,470	410,090	354,777	784,500	1,353,582	225,925	35,540	254,178	155,470	46,355	12
1,036.50	3,197.60	815.11	(2)	646.37	1,371.54	466.81	1,073.19	1,469.69	1,360.99	3,948.89	799.30	518.23	799.22	13
1.79	11.43	0.53	(2)	1.44	2.90	0.28	0.60	1.89	2.68	10.39	0.56	1.53	3.49	14
181	1,036	34	24	697	1,464	442	15	586	2,151	21	176	579	1,156	15
300,883	765,679	29,495	31,605	516,492	1,448,606	242,561	14,144	774,465	1,304,087	15,660	176,506	413,175	837,985	16
1,662.34	739.07	867.50	1,316.88	741.02	989.48	548.78	942.93	1,321.65	606.27	745.71	1,002.88	713.60	724.90	17
0.93	6.03	0.76	1.95	2.01	2.55	0.34	0.14	2.39	3.86	0.65	0.39	2.57	3.13	18
22	419	353	1	212	278	621	676	897	129	5	291	281	41	19
6,385	257,476	233,669	(2)	78,374	155,143	183,614	516,727	870,196	57,800	2,040	184,191	325,001	19,225	20
0.22	1.83	0.40	(2)	0.68	1.10	0.14	0.40	1.21	0.68	0.60	0.41	3.21	1.45	21
216	81	20	28	202	275	196	7	117	317	45	134	131	113	22
149	57	5	24	324	228	111	5	39	221	29	101	140	76	23
145	105	6	30	211	171	176	.....	39	213	42	127	102	103	24
839	660	256	324	582	583	256	81	988	492	161	208	636	1,223	25
1,092	1,063	297	177	406	805	487	186	3,265	947	173	353	701	1,509	26
1,581	742	2,880	348	528	1,148	290	.....	3,190	569	352	255	786	1,681	27
325	51	4	13	136	271	169	.....	42	297	3	16	104	67	28
1,208.0	310.1	28.1	62.0	573.6	758.9	388.9	3.0	467.0	862.4	39.0	203.5	408.5	704.3	29
570	269	1	24	769	824	297	20	551	761	37	274	502	841	30
822	381	52	52	704	982	401	.....	511	1,012	82	696	424	813	31
5,858	3,476	8,708	227	2,508	8,675	11,490	4	4,071	4,682	206	777	1,618	2,903	32
3,612	1,779	6	118	2,148	5,318	6,675	7	2,690	3,898	92	721	1,523	3,587	33
5,129	2,093	2,585	298	2,018	6,968	1,618	.....	3,376	4,721	355	868	995	2,437	34
0.5	8.0	.....	2.0	1.6	15.3	4.4	.....	0.2	17.9	1.5	2.1	0.6	3.9	35
11	37	4	1	7	109	17	7	13	80	4	18	8	3	36
12	36	7	1	7	102	11	7	13	88	5	23	10	3	37
15	43	6	2	1	68	6	10	6	58	.....	12	12	14	38
9	25	4	.....	5	69	21	.....	7	60	2	18	9	14	39
7,118	34,478	266,553	(2)	1,751	227,645	20,149	501	112,244	24,342	44,592	3,788	17,238	12,045	40
16,714	35,994	266,202	54,452	30	162,500	47,089	804	107,159	16,584	.....	2,022	16,786	13,144	41
15,159	8,178	32,118	.....	15	181,515	429,105	.....	116,108	19,201	2,311	1,569	17,680	8,335	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	44
.....	.....	.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	673	.....	.....	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	360	.....	.....	47
2	14	21	.....	100	60	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	5	17	.....	1	104	8	12	107	.....	.....	5	.....	.....	49
.....	.....	6	.....	.....	58	1	4	16	.....	.....	.....	.....	.....	50
(2)	1,424	1,217	.....	.....	28	.....	.....	40	.....	.....	.....	.....	.....	51
.....	340	3,125	.....	50	62,428	161	1,900	118,100	.....	.....	830	.....	.....	52
.....	.....	2,985	.....	.....	19,450	120	400	2,385	.....	.....	.....	.....	.....	53
					8,095	.....	.....	6,600	.....	.....	.....	.....	.....	54
2	16	24	.....	1	106	9	4	85	38	1	19	.....	1	55
.....	10	8	.....	1	27	1	1	2	13	.....	3	.....	1	56
.....	1	5	.....	.....	22	1	.....	10	11	.....	4	.....	2	57
(2)	161	91	.....	(2)	1,409	118	90	1,762	4,029	(2)	199	.....	(2)	58
.....	52	64	.....	2	468	3	8	40	4,536	.....	42	.....	10	59
.....	7	57	.....	.....	374	7	.....	241	3,299	.....	48	.....	41	60
(2)	3,404	1,252	.....	(2)	72,978	215	4,200	107,935	119,154	(2)	21,520	.....	(2)	61
.....	850	3,125	.....	17	23,120	120	400	2,385	119,550	.....	720	.....	480	62
.....	.....	2,985	.....	.....	14,376	500	.....	11,600	16,845	.....	3,200	.....	.....	63
(2)	44	64	.....	(2)	29	57	41	28	29	(2)	12	.....	(2)	64
.....	29	26	.....	40	22	.....	20	20	48	.....	23	.....	60	65
.....	40	20	.....	.....	21	7	.....	15	36	.....	15	.....	34	66
(2)	51	60	.....	.....	29	57	41	29	.....	.....	18	.....	.....	67
1	26	.....	.....	43	40	11	.....	16	36	.....	3	17	25	68
(2)	44,505	.....	.....	69,396	161,170	17,114	.....	115,621	94,773	.....	2,639	41,605	78,276	69
(2)	22,154	.....	.....	55,085	69,197	10,723	.....	39,503	91,111	.....	543	67,446	162,650	70
(2)	46	.....	.....	348	110	16	.....	52	227	.....	4	87	233	71

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

County Table II.—FARM VALUES, 1940; ENTERPRISES AND IRRIGATION WORKS, 1940,

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

	ITEM (For definitions and explanations, see text)	Morgan	Otero	Ouray	Park	Phillips	Pitkin	Prowers
	FARM VALUES, 1940*							
1	Land and buildings, all farms.....dollars..	11,969,274	8,433,382	1,389,043	3,642,217	6,206,909	1,372,270	6,618,381
2	Land and buildings, irrigated farms.....dollars..	9,795,006	7,035,747	1,335,653	2,926,687	(3)	1,330,270	5,732,330
	Operated by—							
3	(a) Owners and managers.....dollars..	4,424,061	3,538,027	1,112,245	2,436,447	(3)	1,174,100	2,499,872
4	(b) Tenants.....dollars..	5,370,945	3,497,720	223,408	490,240	(3)	156,170	3,232,358
5	Average, land and buildings, per farm.....dollars..	11,550.71	6,784.71	9,820.98	19,774.91	(3)	8,868.47	8,039.73
6	per acre in farms.....dollars..	39.83	37.28	10.35	6.58	(3)	20.05	21.19
7	Buildings, irrigated farms reporting value.....number...	813	994	134	142	(3)	144	700
8	Total reported.....dollars..	1,815,860	1,671,580	227,925	679,037	(3)	208,680	919,941
9	Average, per irrigated farm reporting.....dollars..	2,233.53	1,681.67	1,700.93	4,781.95	(3)	1,449.17	1,314.20
10	per acre on all irrigated farms.....dollars..	7.38	8.86	1.80	1.53	(3)	3.15	3.40
11	Buildings, nonirrigated farms reporting value.....number...	471	137	14	152	(3)	14	273
12	Total reported.....dollars..	417,090	135,610	13,475	263,213	(3)	12,410	171,852
13	Average, per nonirrigated farm reporting.....dollars..	885.54	989.85	962.50	1,731.66	(3)	886.43	629.49
14	per acre on all nonirrigated farms.....dollars..	1.10	0.17	1.84	2.22	(3)	3.38	0.75
15	Implements and machinery, irrigated farms reporting value..number...	812	927	120	135	(3)	136	671
16	Total reported.....dollars..	1,066,418	799,431	91,544	191,650	(3)	128,839	567,161
17	Average, per irrigated farm reporting.....dollars..	1,313.32	862.39	762.87	1,419.63	(3)	947.35	845.25
18	per acre, on all irrigated farms.....dollars..	4.34	4.24	0.72	0.43	(3)	1.94	2.10
19	Implements and machinery, nonirrigated farms reporting value.....number...	450	91	10	136	(3)	8	250
20	Total reported.....dollars..	280,922	50,950	4,700	51,028	(3)	3,105	140,368
21	Average, per acre, on all nonirrigated farms.....dollars..	0.74	0.06	0.64	0.43	(3)	0.84	0.61
	ENTERPRISES AND IRRIGATION WORKS JANUARY 1							
22	Enterprises.....1940...number.....	245	152	112	151	3	123	67
23	1930...number.....	35	23	152	199	.....	104	30
24	1920...number.....	39	26	96	213	.....	76	29
25	Average size of enterprise based on irrigable area.....1940...acres.....	483	576	248	309	150	163	1,548
26	1930...acres.....	3,606	5,202	207	235	.....	246	3,364
27	1920[4]..acres.....	4,274	7,041	250	260	.....	280	3,421
28	Diversion dams.....1940...number.....	14	8	99	265	.....	104	10
29	Main canals and laterals.....1940...length, miles.....	325.1	295.0	235.2	358.1	.....	248.6	651.2
30	1930...length, miles.....	476	478	255	341	.....	254	910
31	1920...length, miles.....	370	758	213	460	.....	228	489
32	1940...capacity, c.f.s.[5]....	2,183	6,277	771	2,222	.....	2,405	703
33	1930...capacity, c.f.s.[5]....	4,221	4,966	682	2,770	.....	731	4,876
34	1920...capacity, c.f.s.[5]....	3,771	5,537	642	2,705	.....	655	1,573
35	Pipe lines[6].....1940...length, miles.....	0.2	1.0	0.6	0.1	.....	7.8	1.1
36	Storage dams.....1940...number.....	2	2	1	16	.....	3	4
37	Reservoirs.....1940...number.....	3	2	4	10	.....	3	8
38	1930...number.....	4	5	2	2	.....	2	2
39	1920...number.....	10	10	.....	1	.....	3	5
40	1940...capacity, acre-feet..	44,814	(3)	440	5,577	.....	872	8,007
41	1930...capacity, acre-feet..	86,772	35,347	156	26,002	.....	1,011	47,155
42	1920...capacity, acre-feet..	86,680	36,659	.....	8	.....	19	53,613
43	Wells, flowing.....1940...number.....	.....	.....	.....	.....	.....	.....	.....
44	1930...number.....	.....	.....	.....	.....	.....	.....	.....
45	1920...number.....	.....	.....	.....	.....	.....	.....	.....
46	1940...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
47	1930...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
48	1920...yield, g.p.m.....	.....	.....	.....	.....	.....	.....	.....
49	Wells, pumped.....1940...number.....	242	146	.....	.....	3	.....	71
50	1930...number.....	1	22	.....	.....	.....	.....	5
51	1920...number.....	23	12	.....	.....	.....	.....	6
52	1940...yield, g.p.m.....	275,320	61,967	.....	.....	3,700	.....	35,834
53	1930...yield, g.p.m.....	1,750	7,150	.....	.....	.....	.....	1,510
54	1920...yield, g.p.m.....	26,590	11,088	.....	.....	.....	.....	1,205
55	Pumping plants.....1940...number.....	244	148	.....	.....	3	.....	65
56	1930...number.....	4	12	.....	.....	.....	.....	5
57	1920...number.....	17	11	.....	.....	.....	.....	7
58	Prime movers.....1940...capacity, hp.....	6,819	1,177	.....	.....	110	.....	527
59	1930...capacity, hp.....	52	188	.....	.....	.....	.....	37
60	1920...capacity, hp.....	344	188	.....	.....	.....	.....	30
61	Pumps.....1940...capacity, g.p.m.....	281,380	71,187	.....	.....	3,700	.....	47,230
62	1930...capacity, g.p.m.....	4,000	9,400	.....	.....	.....	.....	1,615
63	1920...capacity, g.p.m.....	26,585	10,438	.....	.....	.....	.....	1,470
64	Pumping lift, from all sources.....1940...average, feet.....	50	22	.....	.....	60	.....	20
65	1930...average, feet.....	30	18	.....	.....	.....	.....	18
66	1920...average, feet.....	22	20	.....	.....	.....	.....	18
67	from pumped wells.....1940...average, feet.....	50	23	.....	.....	60	.....	19
	PAY ROLL AND NUMBER OF EMPLOYEES 1939[7]							
68	Enterprises reporting pay roll.....number...	24	10	21	.....	.....	2	8
69	Irrigated area in these enterprises.....acres....	161,380	81,772	8,158	.....	.....	(3)	84,238
70	Wages and salaries paid and payable.....dollars..	39,481	40,817	1,405	.....	.....	(3)	42,296
71	Persons employed during week ending April 29.....number...	62	66	46	.....	.....	(3)	74

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

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

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

Pueblo	Rio Blanco	Rio Grande	Routt	Saguache	San Miguel[1]	Sedgwick	Summit	Teller	Washington	Weld	Yuma	All other counties[2]	
8,712,722	4,044,190	10,048,211	6,810,039	6,333,743	1,060,301	5,241,634	661,620	1,174,001	7,337,381	50,131,511	13,433,150	6,974,794	1
7,084,869	3,292,998	9,811,630	5,184,858	6,171,448	580,165	1,920,070	629,620	326,621	768,153	41,923,227	470,410	(3)	2
5,037,813	2,915,833	6,960,111	3,988,628	5,019,828	502,765	984,080	523,120	260,781	341,503	16,519,148	313,550	.....	3
2,047,056	377,165	2,851,519	1,196,230	1,151,620	77,400	935,990	106,500	65,840	424,650	25,404,079	156,860	(3)	4
8,474.72	15,316.27	15,850.78	11,320.65	14,624.28	5,578.51	12,229.75	11,447.64	8,827.59	11,103.67	12,711.71	9,800.21	(3)	5
18.15	9.34	53.12	11.89	14.69	8.01	36.53	15.81	7.58	26.50	64.02	9.21	(3)	6
820	210	596	451	394	101	149	55	37	69	3,244	46	(3)	7
1,605,095	652,465	2,149,085	920,440	1,042,976	131,035	339,695	174,950	91,050	174,150	8,296,090	76,050	(3)	8
1,957.43	3,106.98	3,605.85	2,040.89	2,647.15	1,297.38	2,279.83	3,180.91	2,460.81	2,523.91	2,557.36	1,653.26	(3)	9
4.11	1.85	11.64	2.11	2.48	1.81	6.46	4.39	2.11	6.02	12.67	1.49	(3)	10
346	118	33	353	51	65	328	3	201	1,341	1,139	1,633	(3)	11
360,925	128,375	62,900	357,230	43,500	32,760	676,192	14,000	267,230	1,333,432	1,502,550	2,291,986	(3)	12
1,100.94	1,087.92	1,906.06	1,011.98	852.94	504.00	2,061.56	4,666.67	1,329.50	994.36	1,319.18	1,403.54	(3)	13
0.93	1.11	4.75	2.57	0.95	0.34	2.86	6.13	2.61	1.05	1.17	1.65	(3)	14
750	200	575	432	368	89	139	51	36	62	3,097	48	(3)	15
707,924	259,132	1,255,191	455,811	495,398	65,265	203,450	56,537	35,323	76,530	4,569,868	50,875	(3)	16
943.90	1,295.66	2,182.94	1,055.12	1,346.19	733.31	1,463.67	1,108.57	981.19	1,234.35	1,475.58	1,059.90	(3)	17
1.81	0.74	6.80	1.04	1.18	0.90	3.87	1.42	0.82	2.65	6.98	1.00	(3)	18
302	86	24	320	40	53	319	3	151	1,267	1,041	1,568	(3)	19
174,465	69,240	15,562	241,904	15,062	40,860	480,195	3,250	71,293	842,176	933,941	1,648,459	(3)	20
0.43	0.60	1.18	1.74	0.33	0.42	2.03	1.42	0.70	0.66	0.73	1.19	(3)	21
303	157	353	335	282	40	21	57	41	32	908	24	3	22
233	166	206	374	196	64	5	64	10	6	225	14	8	23
264	189	159	310	212	67	7	79	25	8	238	26	17	24
347	287	639	209	671	2,060	1,057	173	33	317	568	180	41	25
530	237	904	233	941	843	4,916	177	70	1,959	2,526	284	.....	26
540	241	1,844	297	1,283	668	3,436	193	78	1,262	2,384	586	137	27
80	133	100	146	309	63	5	44	32	2	71	24	.....	28
492.0	471.0	420.3	542.6	397.5	151.4	77.0	144.0	9.0	18.0	1,337.1	53.3	1.0	29
379	400	773	700	630	235	82	99	9	52	1,606	34	14	30
896	506	721	687	863	413	94	157	83	60	1,990	103	31	31
3,692	1,428	5,855	1,702	2,267	937	324	808	56	213	7,687	246	4	32
3,619	1,035	2,409	1,635	3,747	824	624	230	18	914	11,839	84	28	33
5,316	2,908	3,347	1,619	3,757	789	459	437	60	365	9,040	599	158	34
14.6	0.9	0.5	1.1	0.6	1.8	0.1	0.2	.....	0.1	41.7	0.1	.....	35
34	18	6	22	2	8	3	.....	4	.....	72	5	.....	36
33	19	6	34	4	8	2	.....	3	.....	78	5	1	37
27	8	2	30	4	6	.....	1	.....	1	88	7	4	38
61	24	4	50	14	3	2	.....	1	3	103	4	7	39
114,066	4,239	593	5,117	300	9,414	(3)	.....	3,000	.....	202,764	460	(3)	40
56,940	1,116	54	19,951	336	6,046	.....	3	.....	32,300	224,056	261	756	41
109,534	4,028	30,150	5,432	8,854	5,066	27,219	.....	40	268	310,059	30	737	42
3	.....	107	.....	598	.....	.....	.....	.....	.....	.....	.....	.....	43
.....	.....	166	.....	365	.....	.....	.....	.....	.....	.....	.....	.....	44
3	.....	172	.....	156	.....	.....	.....	.....	.....	.....	.....	.....	45
177	.....	3,922	.....	27,248	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	8,300	.....	25,964	.....	.....	.....	.....	.....	.....	.....	.....	47
570	.....	6,666	.....	4,848	.....	.....	.....	.....	.....	.....	.....	.....	48
188	.....	269	1	45	.....	17	.....	2	34	976	3	.....	49
92	.....	.....	.....	1	1	.....	.....	.....	.....	226	.....	2	50
132	.....	.....	.....	1	.....	1	.....	.....	4	149	.....	12	51
68,040	.....	253,243	(3)	39,150	.....	14,380	.....	(3)	35,675	655,205	2,000	.....	52
50,996	.....	.....	.....	450	265	.....	.....	.....	.....	80,858	.....	14	53
37,869	.....	.....	.....	.....	.....	250	.....	.....	1,920	70,311	.....	1,375	54
190	8	264	1	45	4	17	.....	3	28	910	4	2	55
84	1	2	.....	1	3	.....	.....	.....	1	128	.....	2	56
66	1	.....	.....	1	.....	1	.....	.....	2	133	.....	3	57
2,281	78	4,725	(3)	804	23	358	.....	5	645	14,239	105	(3)	58
1,146	4	31	.....	10	27	.....	.....	.....	18	1,908	.....	2	59
801	10	.....	.....	.....	.....	8	.....	.....	30	1,846	.....	37	60
96,073	7,350	285,912	(3)	47,250	3,350	16,980	.....	106	44,200	686,798	3,550	(3)	61
68,051	750	450	.....	450	1,365	.....	.....	.....	1,000	97,868	.....	15	62
49,505	900	.....	.....	.....	.....	250	.....	.....	1,920	99,953	.....	1,475	63
24	15	24	(3)	20	10	30	.....	37	35	37	66	(3)	64
25	12	4	.....	20	12	.....	.....	.....	10	23	.....	29	65
21	10	.....	.....	.....	.....	30	.....	.....	13	22	.....	14	66
24	.....	24	(3)	20	.....	30	.....	(3)	35	37	82	.....	67
14	6	33	5	6	4	3	.....	.....	7	86	2	.....	68
37,940	12,838	231,915	5,170	88,580	20,440	20,666	.....	.....	14,814	540,297	(3)	.....	69
32,959	1,612	21,373	7,839	7,965	3,867	10,556	.....	.....	2,493	137,178	(3)	.....	70
40	12	73	14	17	10	7	.....	.....	4	278	(3)	.....	71

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

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

ITEM (For definitions and explanations, see text)	CENSUS OF— 1940	1935	1930	1920	1910	1900	1890
Approximate land area of State....acres....	*52,997,120	53,346,560	53,346,560	53,346,560	53,346,560	53,346,560	53,346,560
CENSUS OF AGRICULTURE							
All farms (irrigated and nonirrigated)....number...	43,663	45,113	41,674	42,106	30,807	17,471	6,603
Land in all farms....acres....	10,297,745	9,851,661	9,346,908	8,375,873	5,283,604	3,204,903	1,302,256
Farms irrigated:[1]							
Farms....number...	29,898	28,350	27,953	25,283	16,439	9,188	4,323
Increase or decrease (-) over preceding census....percent..	[2] 7.0	.....	10.6	53.8	78.9	112.5	.....
Proportion of all farms....percent..	68.5	62.8	67.1	60.0	53.4	52.6	65.5
Land in farms....acres....	5,680,584	(3)	4,851,440	(3)	(3)	(3)	(3)
Proportion of all farm land....percent..	55.2	(3)	51.9	(3)	(3)	(3)	(3)
Area irrigated....acres....	[4] 1,895,048	[5] 1,388,200	[6] 1,634,321	(7)	(7)	608,718	217,005
Increase or decrease (-) over preceding census....percent..	[2] 16.0	.....	.....	.....	.....	180.5	.....
Proportion of total land area of State....percent..	3.6	2.6	3.1	.....	.....	1.1	0.4
Proportion of all farm land....percent..	18.4	13.9	17.5	.....	.....	19.0	16.7
Value of irrigated farms (land and buildings)....dollars..	236,628,170	(3)	289,343,666	(3)	(3)	(3)	(3)
Average per farm....dollars..	7,914.52	(3)	10,351.08	(3)	(3)	(3)	(3)
Average per acre....dollars..	41.66	(3)	59.64	(3)	(3)	(3)	(3)
Value of farm implements and machinery[8]....dollars..	28,818,258	(3)	27,305,368	(3)	(3)	(3)	(3)
Average per farm[8]....dollars..	963.89	(3)	976.83	(3)	(3)	(3)	(3)
Average per acre[8]....dollars..	5.07	(3)	5.63	(3)	(3)	(3)	(3)
CENSUS OF IRRIGATION							
Irrigation enterprises:							
Enterprises....number...	3,625	(3)	3,222	3,629	3,092	(3)	(3)
Farms irrigated....number...	42,343	(3)	(3)	(3)	(3)	(3)	(3)
Area irrigated....acres....	2,277,857	(3)	2,181,250	2,488,806	1,430,848	(3)	(3)
Area existing works were capable of supplying with water....acres....	2,593,534	(3)	2,617,021	3,092,810	2,388,955	(3)	(3)
Area irrigable....acres....	2,870,023	(3)	2,814,048	[9] 3,760,048	[9] 3,549,573	(3)	(3)
Additional area existing works were capable of supplying with water....acres....	315,677	(3)	435,771	604,004	958,111	(3)	(3)
Additional irrigable area in enterprises not supplied with water....acres....	592,166	(3)	632,798	[9] 1,291,242	[9] 2,118,725	(3)	(3)
Investment in irrigation enterprises....dollars..	102,585,798	(3)	84,500,354	91,501,009	40,977,688	5,120,399	1,029,000
Increase or decrease (-) over preceding census....percent..	[2] 21.4	(3)	-7.7	123.3	700.3	397.6	.....
Average per acre based on area works were capable of supplying with water....dollars..	39.55	(3)	32.29	29.59	17.15	(3)	(3)
Increase or decrease (-) over preceding census....percent..	[2] 22.5	(3)	9.1	72.5	.....	.....	.....
Estimated completed cost of existing enterprises....dollars..	109,513,311	(3)	101,350,250	97,019,717	58,451,106	(3)	(3)
Average per acre based on irrigable area in enterprises....dollars..	38.16	(3)	36.02	[9] 25.67	[9] 16.47	(3)	(3)
Average annual cost per acre irrigated for maintenance and operation of irrigation works....dollars..	1.11	(3)	1.44	1.17	0.63	(3)	(3)

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

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

ITEM (For definitions and explanations, see text)	Farms	Land in farms	CROPLAND HARVESTED 1939		Irrigated pasture 1939	VALUE OF FARMS (land and buildings)		VALUE OF BUILDINGS		VALUE OF IMPLEMENTS AND MACHINERY	
			Total	Irrigated[1]		Total	Average per acre[2]	Total	Average per acre[2]	Total	Average per acre[2]
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
All farms	43,663	10,297,745	2,935,350	1,578,741	316,307	339,194,391	32.94	72,290,733	7.02	42,145,230	4.09
Owners and managers	32,510	8,513,794	2,191,656	1,105,344	246,193	254,908,648	29.94	57,227,870	6.72	32,185,385	3.82
Tenants	11,153	1,783,951	743,694	473,397	70,114	84,285,743	47.25	15,062,863	8.44	9,659,845	5.41
Irrigated farms, total	29,898	5,680,584	1,850,613	1,578,741	316,307	236,628,170	41.66	53,585,575	9.43	28,818,258	5.07
Owners and managers	21,773	4,721,461	1,347,853	1,105,344	246,193	173,589,977	36.77	41,693,049	8.83	21,895,922	4.64
Tenants	8,125	959,123	502,760	473,397	70,114	63,038,193	65.72	11,892,526	12.40	6,922,336	7.22
Wholly irrigated farms	23,917	3,561,121	1,362,963	1,362,963	246,343	188,209,753	52.85	42,594,961	11.96	22,880,993	6.43
Owners and managers	16,801	2,792,079	924,117	924,117	185,616	131,220,245	47.00	32,061,203	11.48	16,663,743	5.97
Tenants	7,116	769,042	438,846	438,846	60,727	56,989,508	74.10	10,533,758	13.70	6,217,250	8.08
Partly irrigated farms	5,981	2,119,463	487,650	215,778	69,964	48,418,417	22.84	10,990,614	5.19	5,937,265	2.80
Owners and managers	4,972	1,929,382	423,736	181,227	60,577	42,369,732	21.96	9,631,846	4.99	5,232,179	2.71
Tenants	1,009	190,081	63,914	34,551	9,387	6,048,685	31.82	1,358,768	7.15	705,086	3.71
Nonirrigated farms, total	13,765	4,617,161	1,084,737	.....	.....	102,566,221	22.21	18,705,158	4.05	13,326,972	2.89

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

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

SOURCE OF WATER SUPPLY (For definitions and explanations, see text)	1940			IRRIGATED AREA				DELIVERY OF WATER TO IRRIGATORS, 1939					
								Irrigated area reporting—				Cost[1]	
	Enterprises	Irrigable area	Area works were capable of supplying with water	1939	1929	1919	Increase or decrease (-) 1929-39	Quantity	Cost	Quantity and cost	Quantity delivered per acre[1]	Per acre	Per acre-foot
	Number	*Acres*	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*	*Acres*	*Acres*	*Acres*	*Acre-feet*	*Dollars*	*Dollars*
Total	3,625	2,870,023	2,593,534	2,277,857	2,181,250	2,488,806	4.4	2,034,989	2,216,851	1,990,119	4.6	1.25	0.27
Primary sources:													
Streams, gravity	2,377	2,059,751	1,883,957	1,628,663	1,848,760	2,274,959	-11.9	1,418,853	1,578,649	1,381,188	4.2	0.89	0.21
Streams, pumped	144	397,611	302,667	294,402	103,362	107,181	184.8	284,876	294,278	284,850	3.9	1.67	0.43
Streams, gravity and pumped	19	247,849	197,391	174,792	76,894	1,870	127.3	167,537	174,792	167,537	4.7	2.20	0.47
Wells, pumped	141	9,792	8,616	5,868	3,546	414	65.5	5,854	5,616	5,611	3.0	2.71	0.91
Wells, flowing	84	2,611	2,308	2,113	1,973	1,131	7.1	1,803	949	885	2.0	1.06	0.54
Wells, pumped and flowing	5	469	419	414	50	.....	728.0	364	413	363	2.4	4.53	1.87
Lakes, gravity	11	5,035	4,905	4,294	2,662	2,492	61.3	4,294	4,294	4,294	1.8	1.69	0.92
Lakes, pumped	7	5,729	5,729	4,334	5,144	4,912	-15.7	4,334	4,334	4,334	3.0	5.14	1.73
Springs	334	28,172	25,670	20,819	24,233	33,337	-14.1	15,205	17,593	13,116	2.7	0.56	0.21
Springs and streams	153	51,346	44,534	37,606	.....	.....	.....	30,237	34,962	28,449	2.1	0.58	0.27
Stored storm water	12	1,505	1,476	941	4,916	2,590	-80.9	786	795	640	1.7	0.90	0.51
City water	4	49	49	40	94	.....	-57.4	28	13	3	2.3	10.00	4.29
Sewage	5	231	231	160	15	80	966.7	116	90	46	4.2	0.46	0.11
Streams, gravity; wells, pumped	10	44,808	42,428	40,100	72,959	357	-45.0	40,100	40,022	40,022	4.1	1.74	0.42
Streams, gravity; wells, flowing	23	3,782	3,755	2,792	1,708	1,927	58.2	2,308	1,861	1,490	3.5	0.55	0.15
Streams, pumped; wells, pumped	7	458	457	323	.....	.....	.....	323	292	292	3.6	3.80	1.07
Waste water, seepage or drainage	47	4,989	4,372	3,113	.....	.....	.....	1,801	2,281	1,737	1.7	0.54	0.33
Other mixed	54	65,836	64,570	57,173	32,796	54,601	74.3	56,170	55,617	55,262	3.5	1.74	0.50
Other and not reported	.....	.....	.....	.....	2,138	2,955	.....	.....	.....	.....	.....	.....	.....
Supplemental sources:[2]													
Streams, gravity and/or storage	79	1,049,882	1,049,082	906,393	.....	.....	.....	892,862	886,238	873,071	1.2	0.21	0.18
Streams, pumped	20	645	605	552	8,915	.....	-93.8	531	552	531	1.7	1.82	1.06
Wells, pumped	58	3,431	3,303	2,517	120	.....	(3)	2,188	2,103	2,059	1.7	2.64	1.57
Wells, flowing	31	650	592	540	12	.....	(3)	419	361	242	2.4	0.33	0.14

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

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

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

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

State Table 5.—AREAS, BY TYPE OF ENTERPRISE: 1940, 1930, AND 1920

Item and type of enterprise (For definitions and explanations, see text)	Census of— 1940 Primary enterprises	1940 Supplemental enterprises[1]	1930 Primary enterprises	1920 Primary enterprises	Increase or decrease (-) 1930-40 primary enterprises
AREA IRRIGATED	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Total	2,277,857	910,002	2,181,250	2,488,806	4.4
Individual and partnership	324,626	8,890	327,488	513,350	-0.9
Cooperative, incorporated	1,162,496	43,325	1,198,482	938,421	2.5
Cooperative, unincorporated	66,547	975			
Irrigation district	334,266	14,097	304,010	355,995	10.0
Commercial	8,719	.....	.....	6,503	.....
Bureau of Reclamation[2]*	344,638	842,715	[3]275,954	[3]253,759	24.9
Office of Indian Affairs[2]	34,965	.....	34,991	36,775	-0.1
State	600	.....	125	10	380.0
City and/or sewage	1,000	.....	.....	160	.....
Carey Act	.....	.....	40,200	383,833	.....
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER					
Total	2,593,534	1,053,582	2,617,021	3,092,810	-0.9
Individual and partnership	388,916	10,522	388,943	639,002	([4])
Cooperative, incorporated	1,270,362	54,332	1,467,327	1,190,422	-8.5
Cooperative, unincorporated	72,149	975			
Irrigation district	362,665	14,097	335,018	400,382	8.3
AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER—Continued	*Acres*	*Acres*	*Acres*	*Acres*	*Percent*
Commercial	8,719	.....	.....	7,747	.....
Bureau of Reclamation[2]*	424,840	973,656	[3]290,248	[3]289,992	46.4
Office of Indian Affairs[2]	64,183	.....	68,950	42,005	-6.9
State	600	.....	125	10	380.0
City and/or sewage	1,100	.....	.....	160	.....
Carey Act	.....	.....	66,400	523,090	.....
IRRIGABLE AREA[5]					
Total	2,870,023	1,054,608	2,814,048	3,780,048	2.0
Individual and partnership	408,403	10,848	419,813	850,215	-2.7
Cooperative, incorporated	1,309,647	55,032	1,505,552	1,442,477	-7.9
Cooperative, unincorporated	76,629	975			
Irrigation district	368,599	14,097	379,510	463,839	-2.9
Commercial	9,119	.....	.....	8,551	.....
Bureau of Reclamation[2]*	625,622	973,656	[3]351,348	[3]295,992	78.1
Office of Indian Affairs[2]	69,869	.....	91,300	54,240	-23.5
State	1,035	.....	125	10	728.0
City and/or sewage	1,100	.....	.....	320	.....
Carey Act	.....	.....	66,400	664,404	.....

[1] Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text). [2] U. S. Dept. of the Interior. [3] Does not include about 650,000 acres to which stored water is supplied under the Warren Act. [4] Less than one-tenth of 1 percent. [5] For 1920 relates to total area. Irrigable area for that year was not reported. * For explanation of areas, see text, p. 237.

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

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

[1] Reported by enterprises in the Census of Irrigation, not by the Census of Agriculture. [2] Based on area works were capable of supplying with water and cost of works and equipment exclusive of water right investment. [3] Based on irrigated area in enterprises reporting maintenance and operation in 1939. [4] Data for less than 3 enterprises shown with permission of the enterprise involved. * For explanation of areas and investment, see text, p. 237.

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

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

[1] Only for enterprises serving 5 or more farms. [2] Percent not shown when more than 1,000. * For explanation of investment, see text, p. 237.

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING[2]				CHARGES OF ENTERPRISES REPORTING		
	Enterprises 1940	Area: Irrigable 1940	Area: Works were capable of supplying with water 1940	Total indebtedness 1940	Average per acre assessed 1939[3]	Average per acre works were capable of supplying with water[4]	Enterprises 1940	Total arrearages: Dec. 31 1939	Total arrearages: Dec. 31 1938	Average per acre assessed 1939[5]	Area assessed 1939	Charges made 1939	Charges collected 1939
	Number	*Acres*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Dollars*	*Dollars*	*Acres*	*Dollars*	*Dollars*
Total	141	2,488,068	2,303,454	26,418,138	18.94	18.13	15	1,259,945	1,263,975	8.95	3,027,179	2,646,004	2,702,591
Partnership	2	(6)	(6)	(6)	(6)	(6)	.....	.....	.....	.....	46,642	13,625	7,540
Cooperative, incorporated	81	542,375	523,115	814,264	1.55	1.52	8	32,730	48,645	1.17	1,274,622	1,168,098	1,098,124
Cooperative, unincorporated	3	[6] 4,240	[6] 4,240	[6] 16,200	[6] 4.22	[6] 3.82	.....	.....	.....	.....	48,055	17,068	10,765
Irrigation district	38	353,570	352,684	4,379,361	12.71	12.47	6	1,154,625	1,128,025	45.50	374,151	635,849	656,817
Commercial	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,011	3,563	3,615
Bureau of Reclamation[7] *	11	1,518,014	1,359,232	[8] 19,255,295	43.94	42.64	[9] 1	[8] 72,590	[8] 87,305	0.83	1,240,543	487,013	923,127
Office of Indian Affairs[7]	6	69,869	64,183	[10] 1,953,018	56.57	30.43	.....	.....	.....	.....	34,055	318,865	700
Reclamation district	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,100	1,903	1,903
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939[1]		
	Primary enterprises: Irrigated area reporting 1939	Primary enterprises: Reported cost 1939	Supplemental enterprises: Irrigated area reporting 1939	Supplemental enterprises: Reported cost 1939	Average cost per irrigated acre: Primary enterprises 1939	Average cost per irrigated acre: Supplemental enterprises 1939	Enterprises reporting pay roll	Wages and salaries paid and payable	Employees during week ending April 29
	Acres	*Dollars*	*Acres*	*Dollars*	*Dollars*	*Dollars*	*Number*	*Dollars*	*Number*
Total	2,219,486	2,256,798	889,254	202,690	1.02	0.23	404	1,316,975	2,275
Individual and partnership	293,769	148,456	6,682	7,067	0.51	1.06	33	7,436	43
Cooperative, incorporated	1,158,196	1,029,064	25,085	9,939	0.89	0.40	[2] 262	[2] 532,782	[2] 1,283
Cooperative, unincorporated	50,102	17,420	675	1,415	0.35	2.10	47	9,664	55
Irrigation district	331,853	466,343	14,097	786	1.41	0.06	48	217,247	395
Commercial	8,011	3,680	.....	.....	0.46	.....	(2)	(2)	(2)
U. S. Bureau of Reclamation*	342,673	540,911	842,715	183,483	1.58	0.22	11	507,154	452
U. S. Office of Indian Affairs	33,282	47,974	.....	.....	1.44	.....	[3] 2	41,882	38
State	600	1,350	.....	.....	2.25	.....	.....	.....	.....
City and/or sewage	1,000	1,600	.....	.....	1.60	.....	[3] 1	810	9
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

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

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
	Diversion	Storage	Capacity at main heading	Length[1]: Earth	Length[1]: Lined[2]	Number	Capacity	Length	Number	Yield	Number	Yield	Prime movers: Number	Prime movers: Rated capacity	Pumps: Number	Pumps: Rated capacity
	Number	*Number*	*Sec.-ft.*	*Miles*	*Miles*		*Ac.-ft.*	*Miles*		*G.p.m.*		*G.p.m.*		*Hp.*		*G.p.m.*
Total	3,209	260	71,510	13,489	113.1	290	3,795,272	299.9	375	40,165	309	225,164	665	44,537	675	3,719,905
Individual and partnership	2,660	197	12,103	3,731	34.6	227	72,753	58.1	341	32,390	239	152,564	426	4,401	433	276,678
Cooperative, incorporated	250	35	36,448	5,386	20.0	36	749,162	38.8	22	4,400	37	32,770	82	8,395	86	574,346
Cooperative, unincorporated	134	3	2,117	420	2.0	5	4,001	4.9	.....	.....	2	1,500	9	571	9	18,450
Irrigation district	130	16	9,759	1,515	36.0	15	208,701	155.6	12	3,375	31	38,330	85	10,470	84	451,526
Commercial	3	.....	298	26	.....	.....	.....	0.1	.....	.....	.....	.....	.....	.....	.....	.....
Bureau of Reclamation[3]	5	8	9,137	2,101	20.4	6	2,560,655	38.7	.....	.....	.....	.....	63	20,700	63	1,398,905
Office of Indian Affairs[3]	26	1	1,508	301	0.1	1	200,000	3.7	.....	.....	.....	.....	.....	.....	.....	.....
State	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
City and/or sewage	1	.....	140	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carey Act	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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

State Table 11.—DAMS, BY MATERIAL: 1940 AND 1930

MATERIAL	1940 Diversion	1940 Storage	1930 Diversion	1930 Storage
	Number	*Number*	*Number*	*Number*
Total	3,209	260	2,305	152
Concrete or masonry	336	44	205	22
Timber	290	.....	227	.....
Earth and rock	1,964	185	.....	80
Other and mixed	[1] 587	19	[1] 1,836	47
Not reported	32	12	37	3

[1] Principally temporary dams, replaced annually.

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

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps
	Number	*Percent*	*G.p.m.*	*Percent*	*Feet*
Total, 1940	675	100.0	2,719,005	100.0	26
Electric motor	484	71.7	2,446,149	89.9	28
Centrifugal	372	55.2	2,205,796	81.1	27
Turbine	84	12.4	171,076	6.3	35
Plunger	3	0.4	153	(1)	49
Other	25	3.7	69,124	2.5	15
Internal-combustion engine	152	22.5	86,669	3.2	21
Centrifugal	101	14.9	51,793	1.9	18
Turbine	20	3.0	19,355	0.7	34
Plunger	4	0.6	91	.....	85
Other	27	4.0	15,430	0.6	14
Other kinds of motive power	17	2.5	17,162	0.6	44
Centrifugal	3	0.4	13,026	0.5	59
Turbine	1	0.1	400	(1)	30
Plunger	3	0.4	13	(1)	108
Other	10	1.6	3,723	0.1	22
Mixed kinds of motive power	22	3.3	169,925	6.2	28
Centrifugal	6	0.9	2,040	0.1	37
Turbine	6	0.9	23,925	0.9	38
Plunger	.....	.....	.....	.....	.....
Other	10	1.5	143,960	5.2	17
Total, 1930	465	.....	2,113,513	.....	32
Increase or decrease (-) 1930-1940	210	.....	606,392	.....	-6

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

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

[2] Number of pumping plants.

State Table 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

MATERIAL AND SIZE (DIAMETER)	Length 1940[1]	Length 1930[2]	Increase or decrease (-) 1930-1940
	Miles	*Miles*	*Percent*
Total	299.9	[3] 263.4	13.9
Concrete:			
1 to 12 inches	43.8	36.2	21.0
13 to 24 inches	21.9	43.8	19.2
Over 24 inches	30.3		
Metal:			
1 to 12 inches	40.2	29.1	38.1
13 to 24 inches	9.2	6.0	205.0
Over 24 inches	9.1		
Wood-stave:			
1 to 12 inches	63.6	55.9	13.8
13 to 24 inches	25.8	74.7	-23.2
Over 24 inches	31.6		
Clay and other:			
1 to 12 inches	17.3	11.0	57.3
13 to 24 inches	4.0	0.1	(4)
Over 24 inches	3.1		

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

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

ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage ... number	192	171	206
Area irrigable in these enterprises ... acres	943,910	920,314	[1] 734,405
Area irrigated in these enterprises ... acres	731,717	(2)	(2)
Area for which drains have been installed ... acres	238,907	202,575	81,187
Additional area needing drainage ... acres	29,042	48,995	94,934
Ratio of area drained to area irrigated in—			
(a) Enterprises reporting lands drained and/or needing drainage ... percent	32.7	[3] 22.0	[1] 11.1
(b) All irrigation enterprises ... percent	10.5	9.3	3.3
Ratio of area drained plus area needing drainage to—			
(a) Irrigable area reporting ... percent	28.4	27.3	[1] 24.0
(b) Irrigated area reporting ... percent	36.6	(2)	(2)

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

State Table 15.—WATER USED, BY SOURCE OF SUPPLY: 1939, 1929, AND 1919

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

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

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

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

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

BUREAU OF RECLAMATION AREAS AND INVESTMENT

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

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

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

	PRIMARY ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940 ... number	3,437	71	2,542	342	292	119	62	9
2	Irrigated farms, 1939 ... number	42,343	.....	2,542	861	3,264	6,099	16,253	13,324
3	Area irrigated, 1939 ... acres	2,277,857	.....	215,072	68,174	244,082	352,816	769,788	627,925
4	(a) From which crops were harvested ... acres	2,026,435	.....	157,612	53,466	205,838	319,497	701,423	588,599
5	(b) On which crops failed ... acres	12,448	.....	1,760	399	1,245	1,450	5,278	2,316
6	(c) Irrigated pasture ... acres	238,974	.....	55,700	14,309	36,999	31,869	63,087	37,010
	CAPITAL INVESTMENT, 1940								
7	Total capital investment in all enterprises ... dollars	89,034,966	53,985	2,187,677	461,728	3,335,532	6,271,606	46,084,882	30,639,556
8	(a) Cost of irrigation works and equipment ... dollars	87,449,139	52,019	2,082,621	445,208	3,201,296	6,205,373	44,890,893	30,571,729
9	(b) Investment in water rights ... dollars	1,585,827	1,966	105,056	16,520	134,236	66,233	1,193,989	67,827
10	Area works were capable of supplying with water ... acres	2,593,534	3,439	261,104	83,719	269,415	395,550	893,188	687,119
11	Average investment per acre irrigated ... dollars	39.09	.....	10.17	6.77	13.62	17.78	57.84	42.93
12	Average investment per acre which the works could supply with water ... dollars	34.33	15.70	8.38	5.52	12.34	15.86	50.08	39.64
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
13	Enterprises reporting maintenance and operation ... number	2,982	36	2,196	306	258	117	60	9
14	(a) Area irrigated in these enterprises ... acres	2,219,486	.....	192,770	61,969	218,063	349,951	768,808	627,925
15	(b) Cost of maintenance and operation ... dollars	2,256,798	3,082	111,272	23,862	131,089	303,206	942,454	741,833
16	(c) Average cost per irrigated acre reporting ... dollars	1.02	.....	0.58	0.39	0.60	0.87	1.21	1.04
17	Total annual charges[2] ... dollars	2,461,470	201	134	254	159,441	363,289	1,103,022	835,129
18	Average charge per irrigated acre reporting ... dollars	1.25	.....	0.28	0.57	0.73	1.04	1.41	1.33
19	Area against which charges were assessed ... acres	2,141,909	300	480	445	229,155	373,241	854,799	683,489
20	Average annual charge per acre assessed ... dollars	1.15	0.67	0.28	0.57	0.70	0.97	1.29	1.22
21	Total charges collected[2] ... dollars	2,635,522	.....	112	89	113,291	322,947	1,140,996	1,059,087
	INDEBTEDNESS AND ARREARAGE, 1939								
22	Enterprises reporting indebtedness[3] ... number	135	.....	.....	.....	38	53	38	6
23	(a) Area irrigated in these enterprises ... acres	1,117,475	.....	.....	.....	42,291	192,977	600,839	281,368
24	(b) Indebtedness ... dollars	23,488,279	.....	.....	.....	505,738	1,175,464	10,198,210	11,608,867
25	(c) Average indebtedness per acre irrigated ... dollars	21.01	.....	.....	.....	11.90	6.09	16.97	41.26
26	(d) Cost of irrigation works and equipment ... dollars	52,162,972	.....	.....	.....	1,032,935	3,312,630	31,097,501	16,719,906
27	(e) Investment in water rights ... dollars	839,242	.....	.....	.....	29,754	39,674	701,987	67,827
28	(f) Total investment ... dollars	53,002,214	.....	.....	.....	1,062,689	3,352,304	31,799,488	16,787,733
29	(g) Maintenance and operation ... dollars	1,340,168	.....	.....	.....	58,539	209,202	706,010	366,417
30	(h) Total annual charges[2] ... dollars	1,615,461	.....	.....	.....	79,675	263,379	837,158	435,259
31	(i) Total charges collected[2] ... dollars	1,855,077	.....	.....	.....	57,603	250,674	889,323	657,477
32	(j) Area against which annual charges were assessed ... acres	1,238,931	.....	.....	.....	45,615	202,767	663,617	326,932
33	(k) Average indebtedness per acre assessed ... dollars	18.94	.....	.....	.....	10.94	5.70	15.37	35.51
34	(l) Average charges per acre assessed ... dollars	1.30	.....	.....	.....	1.75	1.30	1.26	1.33
35	(m) Average charges per acre irrigated ... dollars	1.45	.....	.....	.....	1.92	1.37	1.39	1.55
36	Enterprises reporting arrearage[3] ... number	15	.....	.....	.....	5	7	2	1
37	(a) Area assessed in these enterprises ... acres	140,706	.....	.....	.....	13,686	25,433	101,587	
38	(b) Total arrearage ... dollars	1,259,945	.....	.....	.....	336,560	316,045	607,340	
39	(c) Average arrearage per acre assessed ... dollars	8.95	.....	.....	.....	24.59	12.43	5.98	
40	(d) Indebtedness ... dollars	6,804,253	.....	.....	.....	385,550	442,433	5,976,270	
	TYPE, 1940								
41	Individual and partnership ... number	2,977	69	2,524	322	61	1	.....	.....
42	Cooperative (incorporated and unincorporated) ... number	388	2	17	19	208	101	38	3
43	Irrigation district ... number	49	.....	.....	1	16	13	17	2
44	Commercial ... number	5	.....	.....	.....	4	1	.....	.....
45	U. S. Bureau of Reclamation ... number	10	.....	.....	.....	.....	1	5	4
46	U. S. Office of Indian Affairs ... number	6	.....	.....	.....	3	2	1	.....
47	All other ... number	2	.....	1	.....	.....	.....	1	.....
	PAY ROLL AND NUMBER OF EMPLOYEES, ENTERPRISES REPORTING, 1939								
48	Enterprises reporting pay roll ... number	390	1	2	2	199	116	61	9
49	Wages and salaries paid and payable for 1939 ... dollars	1,306,359	179			61,673	279,828	545,348	419,331
50	Persons employed during week ending April 29, 1939 ... number	2,257	2			399	519	788	549
	SOURCE OF WATER SUPPLY, 1939								
51	Streams, gravity ... number	2,377	27	1,699	246	251	102	47	5
52	Streams, pumped ... number	144	22	95	5	13	5	3	1
53	Wells, pumped ... number	141	7	123	10	1	.....	.....	.....
54	Wells, pumped and flowing; or wells flowing ... number	89	6	81	2	.....	.....	.....	.....
55	Lakes, gravity or pumped ... number	18	.....	7	5	1	2	3	.....
56	Streams and springs; or springs ... number	487	9	401	54	16	7	.....	.....
57	Mixed, streams and wells ... number	59	.....	40	1	6	2	8	2
58	Other mixed or stored storm water ... number	122	.....	96	19	4	1	1	1

	SUPPLEMENTAL ENTERPRISES (For definitions and explanations, see text)	TOTAL	IRRIGATED FARMS						
			No farms[1]	1 farm	2 to 4 farms	5 to 24 farms	25 to 99 farms	100 to 999 farms	1,000 farms and more
1	Enterprises, 1940 ... number	188	13	134	22	7	7	1	4
2	Irrigated farms, 1939 ... number	18,749	.....	134	58	63	402	248	17,844
3	Area irrigated, 1939 ... acres	910,002	.....	6,002	2,708	7,375	43,702		850,215
	CAPITAL INVESTMENT, 1940								
4	Total capital investment in all enterprises ... dollars	13,550,832	23,302	135,149	24,297	54,929	925,950		12,387,205
5	(a) Cost of irrigation works and equipment ... dollars	13,540,022	18,252	131,180	23,456	54,929	925,000		12,387,205
6	(b) Investment in water rights ... dollars	10,810	5,050	3,969	841	.....	950		.....
7	Area works were capable of supplying with water ... acres	1,053,582	2,916	6,888	3,045	7,375	51,202		982,156
8	Average investment per acre irrigated ... dollars	14.89	.....	22.52	8.97	7.10	21.19		14.57
9	Average investment per acre which the works could supply with water ... dollars	12.86	7.99	19.62	7.98	7.10	18.08		12.61
	MAINTENANCE AND OPERATION, AND CHARGES, 1939								
10	Enterprises reporting maintenance and operation ... number	151	8	109	17	6	7	.....	4
11	(a) Area irrigated in these enterprises ... acres	889,254	.....	4,449	2,053	7,075	25,462	.....	850,215
12	(b) Cost of maintenance and operation ... dollars	202,690	27	6,421	778	2,965	6,015	.....	186,484
13	(c) Average cost per irrigated acre reporting ... dollars	0.23	.....	1.44	0.38	0.40	0.24	.....	0.22
14	Total annual charges[2] ... dollars	184,534	.....	.....	.....	2,750	11,766	.....	170,018
15	Average charge per irrigated acre reporting ... dollars	0.21	.....	.....	.....	0.39	0.46	.....	0.20
16	Area against which charges were assessed ... acres	885,270	.....	.....	.....	7,075	27,980	.....	850,215
17	Average annual charge per acre assessed ... dollars	0.21	.....	.....	.....	0.39	0.42	.....	0.20
18	Total charges collected[2] ... dollars	57,069	.....	.....	.....	2,350	12,312	.....	52,407

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

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

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

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
71	2,035	691	462	129	46	3	3,025	207	131	57	17	1
.....	2,316	1,511	5,168	8,169	20,251	4,928	5,148	3,136	6,148	11,215	16,696	2
.....	68,724	114,314	307,482	446,373	994,407	346,557	375,265	194,439	308,108	536,865	863,180	3
.....	54,638	89,186	251,103	388,039	896,912	346,557	288,570	166,252	276,433	483,448	811,732	4
.....	1,117	539	2,346	976	7,470	.....	2,585	534	1,109	4,461	3,759	5
.....	12,969	24,589	54,033	57,358	90,025	.....	84,110	27,653	30,566	48,956	47,689	6
53,985	1,006,343	1,221,905	4,415,647	8,589,807	59,895,456	13,851,823	1,986,042	1,653,438	4,590,202	19,877,641	60,927,643	7
52,019	967,257	1,170,676	4,243,424	8,158,382	59,005,558	13,851,823	1,879,372	1,582,500	4,418,705	19,229,975	60,338,587	8
1,966	39,086	51,229	172,223	431,425	889,898	.....	106,670	70,938	171,497	647,666	589,056	9
3,439	102,204	133,176	346,496	493,311	1,158,351	356,557	441,851	213,347	330,165	613,605	994,566	10
.....	14.64	10.67	14.33	19.24	58.64	32.04	5.28	8.50	14.28	31.22	70.59	11
15.70	9.85	9.16	12.72	17.41	50.53	31.32	4.49	7.75	13.37	27.86	61.26	12
36	1,736	620	418	124	45	3	2,595	190	126	54	17	13
.....	61,093	103,225	278,776	435,428	994,407	346,557	334,199	183,297	304,110	534,700	863,180	14
3,082	67,577	49,263	169,078	321,609	1,270,773	375,416	146,924	85,596	187,742	692,240	1,144,296	15
.....	1.11	0.48	0.61	0.74	1.26	0.87	0.44	0.47	0.59	1.12	1.33	16
201	2,686	5,772	183,039	404,172	1,465,740	399,860	35,546	99,463	235,223	830,421	1,260,817	17
.....	6.47	0.84	0.95	0.95	1.45	1.15	0.34	0.59	0.79	1.51	1.46	18
300	475	7,076	213,667	436,998	1,126,836	356,557	108,090	175,812	310,087	591,516	156,404	19
0.67	5.65	0.82	0.86	0.92	1.30	1.12	0.33	0.57	0.76	1.40	1.32	20
.....	2,551	5,670	143,163	391,400	1,692,128	400,610	20,602	80,839	225,937	885,691	1,422,453	21
.....	.....	4	45	53	33	.....	8	22	57	37	11	22
.....	.....	593	41,072	220,098	855,712	.....	10,007	34,181	157,012	462,157	454,118	23
.....	.....	9,826	630,442	2,093,995	20,754,016	.....	5,352	70,458	539,410	4,961,336	17,911,723	24
.....	.....	12.03	15.35	9.51	24.25	.....	0.53	2.06	3.43	10.74	39.44	25
.....	.....	34,561	1,342,193	4,695,319	46,090,899	.....	22,315	218,600	2,229,099	14,526,440	35,166,518	26
.....	.....	15,000	40,654	362,092	421,496	.....	2,264	16,390	78,474	620,066	122,048	27
.....	.....	49,561	1,382,847	5,057,411	46,512,395	.....	24,579	234,990	2,307,573	15,146,506	35,288,566	28
.....	.....	3,207	57,334	213,790	1,065,837	.....	2,237	21,360	100,380	572,086	644,105	29
.....	.....	1,600	86,214	297,233	1,230,434	.....	7,032	40,738	151,262	714,090	702,359	30
.....	.....	3,120	68,834	313,383	1,469,740	.....	2,972	34,218	151,489	791,097	875,301	31
.....	.....	374	44,634	227,240	966,683	.....	10,324	34,801	164,352	509,270	520,184	32
.....	.....	23.73	13.55	9.21	21.47	.....	0.44	1.86	3.16	9.74	34.43	33
.....	.....	4.28	1.93	1.31	1.27	.....	0.68	1.17	0.92	1.40	1.35	34
.....	.....	5.16	2.17	1.35	1.44	.....	0.72	1.21	0.97	1.55	1.55	35
.....	.....	.....	4	9	2	.....	1	4	5	3	2	36
.....	.....	.....	4,237	136,469		.....	17,270		17,168	106,268		37
.....	.....	.....	255,920	1,004,025		.....	17,135		114,410	1,128,400		38
.....	.....	.....	60.40	7.36		.....	0.99		6.66	10.62		39
.....	.....	.....	387,684	6,416,569		.....	19,250		204,599	6,580,404		40
69	2,012	647	240	8	1	.....	2,868	71	18	.....	.....	41
2	22	41	193	104	23	3	132	129	91	30	6	42
.....	1	1	20	14	13	.....	3	5	14	24	3	43
.....	.....	1	3	1	.....	.....	1	1	3	.....	.....	44
.....	.....	.....	.....	2	8	.....	.....	.....	.....	3	7	45
.....	.....	1	4	.....	1	.....	1	1	3	.....	1	46
.....	.....	.....	2	.....	.....	.....	.....	.....	2	.....	.....	47
1	6	20	197	118	45	3	93	116	110	54	17	48
1,534		6,145	77,935	321,222	687,543	211,980	17,774	43,206	100,206	456,742	688,431	49
9		22	505	560	879	282	174	244	490	516	833	50
27	1,267	555	381	112	33	2	2,063	163	100	41	10	51
22	98	4	11	5	3	1	122	8	7	5	2	52
7	123	6	5	.....	.....	.....	137	3	1	.....	.....	53
6	76	7	.....	.....	.....	.....	85	4	.....	.....	.....	54
.....	4	6	8	.....	.....	.....	11	2	1	4	.....	55
9	353	82	38	5	.....	.....	464	15	8	.....	.....	56
.....	33	6	7	5	8	.....	37	4	9	4	5	57
.....	81	25	12	2	2	.....	106	8	5	3	.....	58

ACRES IRRIGATED							COST OF IRRIGATION WORKS AND EQUIPMENT					
No acres[1]	1 to 99 acres	100 to 299 acres	300 to 1,799 acres	1,800 to 7,499 acres	7,500 to 74,999 acres	75,000 acres and more	Less than $5,000	$5,000 to $14,999	$15,000 to $99,999	$100,000 to $1,499,999	$1,500,000 to $9,999,999	
13	126	27	10	6	3	3	163	15	5	2	3	1
.....	149	65	54	296	1,841	16,344	220	217	1,695	273	16,344	2
.....	2,906	3,938	4,246	22,987	33,810	842,715	7,831	16,169	43,287		842,715	3
23,302	85,518	48,303	58,075	783,429	264,620	12,287,585	109,936	113,187	1,040,124		12,287,585	4
18,252	83,930	45,406	57,500	782,729	264,620	12,287,585	107,561	105,527	1,039,349		12,287,585	5
5,050	1,588	2,897	575	700	.....	.....	2,375	7,660	775		.....	6
2,916	3,749	4,257	4,307	29,887	34,810	973,656	9,392	18,747	51,787		973,656	7
.....	29.43	12.27	12.61	34.99	7.83	14.58	13.42	7.00	24.03		14.58	8
7.99	22.81	11.35	12.44	26.21	7.60	12.62	11.27	6.04	20.08		12.62	9
8	102	23	7	6	2	3	130	12	5	1	3	10
.....	2,251	3,194	3,137	37,957		842,715	5,427	16,065	25,047		842,715	11
27	3,479	3,195	2,277	10,229		183,483	4,840	5,732	8,635		183,483	12
.....	1.55	1.00	0.65	0.27		0.22	0.84	0.36	0.34		0.22	13
.....	38	84	1,335	12,494	3,565	167,018	122	3,604	13,790		167,018	14
.....	0.51	0.80	0.70	0.56	0.23	0.20	0.68	0.24	0.56		0.20	15
.....	75	105	1,900	24,905	15,570	842,715	180	15,130	27,245		842,715	16
.....	0.51	0.80	0.70	0.50	0.23	0.20	0.68	0.24	0.51		0.20	17
.....	.....	84	2,064	12,090	5,424	47,407	584	3,558	15,520		47,407	18

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

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

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

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

State Table 18.—CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES, 1939

DRAINAGE BASIN AND STATION	County	Elevation of station	PRECIPITATION, OCTOBER 1938—SEPTEMBER 1939										TEMPERATURES, 1939	
			Water year		Oct.-Dec.		Jan.-Mar.		Apr.-June		July-Sept.			
			Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Amount	Departure[1]	Annual mean	Departure[1]
Upper Snake River		*Feet*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Inches*	*Degrees F.*	*Degrees F.*
Ashton	Fremont	5,100	20.57	+4.99	7.67	+3.72	6.40	+2.15	3.66	-0.93	2.84	+0.05	43.3	+2.0
Driggs	Teton	6,097	16.54	+1.17	5.11	+1.77	4.73	+1.26	3.86	-1.16	2.84	-0.70	40.2	+1.5
Idaho Falls	Bonneville	4,742	9.73	-1.29	4.14	+1.50	1.79	-1.20	2.10	-1.26	1.70	-0.33	(2)	(2)
Springfield	Bingham	4,420	7.95	-1.94	4.13	+1.50	1.50	-0.86	1.05	-2.08	1.27	-0.50	46.0	+1.0
Lower Snake River														
Rupert	Minidoka	4,204	5.80	-4.45	3.41	+0.45	1.12	-1.79	0.82	-2.05	0.45	-1.06	49.3	+1.0
Oakley	Cassia	4,191	8.93	-1.54	3.61	+1.28	1.06	-1.33	1.81	-1.94	2.45	+0.45	(2)	(2)
Richfield	Lincoln	4,306	8.77	-0.51	4.30	+1.40	1.53	-1.28	1.04	-1.62	1.90	+0.99	45.4	+0.4
Twin Falls	Twin Falls	3,770	7.92	-1.71	3.92	+1.05	0.96	-2.02	1.53	-1.12	1.51	+0.38	50.7	+2.5
Grand View	Owyhee	2,600	4.89	-2.18	2.46	+0.43	1.15	-0.91	0.44	-1.71	0.84	+0.01	(2)	(2)
Boise	Ada	2,705	10.62	-2.48	4.76	+0.67	3.33	-1.19	0.85	-2.68	1.68	+0.72	53.1	+2.2
Kirkham	Boise	3,900	17.86	-4.93	7.64	-0.37	6.23	-2.24	1.93	-2.66	2.06	+0.34	(2)	(2)
Payette	Payette	2,159	6.02	-3.77	2.82	-0.68	2.32	-1.50	0.49	-1.97	1.29	+0.38	52.5	+2.1
Cambridge	Washington	2,651	13.36	-4.73	5.07	-1.18	6.20	-0.59	1.37	-2.24	0.72	-0.72	50.4	+2.6
Salmon River														
Challis	Custer	5,280	5.99	-1.66	1.38	-0.23	0.62	-0.87	1.82	-0.90	2.17	+0.34	46.5	+3.2
Salmon	Lemhi	4,040	9.98	+1.46	2.50	+0.53	2.45	+0.85	2.92	+0.10	2.11	-0.02	44.6	+0.8
Riggins	Idaho	1,685	13.20	-2.19	3.37	-0.52	3.61	-0.41	4.54	-0.71	1.68	-0.55	(2)	(2)
Clearwater River														
Pierce	Clearwater	3,171	39.83	+0.91	13.04	+0.73	17.83	+4.47	6.30	-2.72	2.66	-1.57	44.4	+0.4
Palouse River														
Moscow	Latah	2,628	16.16	-5.68	5.65	-1.65	7.50	+0.21	1.93	-2.83	1.08	-1.41	49.8	+2.8
Coeur d'Alene River														
Wallace	Shoshone	2,770	29.99	-14.21	10.93	-4.55	12.14	-2.16	4.32	-4.64	1.60	-2.86	48.2	+2.2
Coeur d'Alene	Kootenai	2,160	(2)	(2)	(2)	(2)	7.68	-0.36	3.38	-1.70	1.40	-1.22	48.4	+1.2
Priest River														
Sandpoint	Bonner	2,100	23.15	-9.56	8.75	-3.16	9.24	-0.93	4.08	-2.57	1.08	-2.90	47.1	+2.0
Bear River														
Lifton	Bear Lake	5,926	8.97	-0.93	2.70	+0.44	1.50	-0.82	3.79	+0.80	0.98	-1.35	43.2	+1.2
Grace	Bannock	5,400	13.86	-1.01	5.18	+1.98	2.15	-1.56	3.90	-0.15	2.63	-1.28	43.9	+0.7
Malad	Oneida	4,700	14.04	-1.90	5.16	+1.32	2.53	-1.79	3.25	-1.21	3.10	-0.22	46.9	+1.1
Beaver Creek														
Spencer	Clark	5,883	17.53	-1.85	5.60	+1.29	4.39	-0.10	3.93	-2.75	3.61	-0.29	39.9	+1.3
Big Lost River														
Mackay	Custer	5,897	7.11	-1.70	2.57	+0.76	1.42	-0.70	2.04	-0.48	1.08	-1.28	45.2	+2.9

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

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

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

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

CLIMATOLOGICAL INFLUENCES ON WATER SUPPLIES

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

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

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

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

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