

# CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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**TABLE 8.—INDEBTEDNESS, ARREARAGE, AND CHARGES, BY TYPE OF ENTERPRISE: CENSUS OF 1940**  
[For the 17 western States and Arkansas and Louisiana]

TYPE OF ENTERPRISE (For definitions and explanations, see text)	INDEBTEDNESS OF ENTERPRISES REPORTING						ARREARAGES OF ENTERPRISES REPORTING <sup>2</sup>				CHARGES OF ENTERPRISES REPORTING		
	Enter-prises 1940	Area		Total indebted-ness 1940	Average per acre assessed 1939 <sup>3</sup>	Average per acre works were capable of supplying with water <sup>4</sup>	Total arrearages			Average per acre assessed 1939 <sup>6</sup>	Area assessed 1939	Charges made 1939	Charges collected 1939
		Irri-gable 1940	Works were capable of supplying with water 1940				Enter-prises 1940	Dec. 31 1939	Dec. 31 1938				
Number	Acres	Acres	Dollars	Dollars	Dollars	Number	Dollars	Dollars	Dollars	Acres	Dollars	Dollars	
Total.....	1,419	16,883,066	14,655,187	386,640,274	32.90	29.94	202	31,080,285	29,352,985	11.29	19,163,180	34,284,667	28,700,362
Partnership.....	41	35,311	33,901	232,914	7.74	6.85	2	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	509,737	867,823	197,001
Cooperative, incorporated..	750	4,210,672	3,947,336	23,008,847	6.32	5.79	58	1,409,193	1,277,294	10.47	6,897,301	9,775,088	8,487,624
Cooperative, unincorporated..	42	172,997	172,797	4,201,664	28.53	24.32	7	1,146,574	975,617	12.50	858,103	561,157	353,319
Irrigation district.....	332	5,276,890	4,656,794	152,639,874	33.80	35.41	90	24,313,110	24,060,076	14.87	5,439,029	12,234,193	12,368,105
Reclamation district.....	5	82,910	82,910	1,412,344	42.12	17.03	1	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	64,648	139,081	137,702
Commercial.....	83	1,882,409	1,331,255	19,962,688	28.85	14.45	23	1,682,906	1,682,906	12.21	1,296,666	4,687,582	3,176,396
Bureau of Reclamation <sup>8</sup> .....	76	4,121,792	3,674,717	148,142,068	64.63	58.54	30	1,276,528	1,087,633	1.76	3,373,760	4,461,271	3,559,275
Office of Indian Affairs <sup>9</sup> .....	72	1,080,283	755,676	106,888,107	61.37	48.81	11	1,045,682	1,042,320	33.81	615,481	1,099,592	288,072
State.....	1	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	.....	.....	.....	.....	5,344	7,250	.....
City and/or sewage.....	7	9,802	9,802	151,768	16.35	15.48	.....	.....	.....	.....	96,314	447,138	115,548
Other.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,797	4,512	320

<sup>1</sup> Only for enterprises serving 5 or more units. Enterprises and areas shown are totals for primary and supplemental enterprises reporting. <sup>2</sup> In payment of principal, interest, and/or other funded obligations. <sup>3</sup> Based on primary enterprises only; average for supplemental enterprises is \$11.63. <sup>4</sup> Based on primary enterprises only; average for supplemental enterprises is \$10.01. <sup>5</sup> Based on primary enterprises only; average for supplemental enterprises is \$0.93. <sup>6</sup> Data are included only in totals because less than 3 enterprises reported in the 1940 Census. <sup>7</sup> Data for 1 "State" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. <sup>8</sup> U. S. Dept. of the Interior. <sup>9</sup> Represents indebtedness and arrearages of irrigation districts and a water-user association to the U. S. Government and to non-Federal agencies. <sup>10</sup> Represents construction costs of irrigation works less cancellations and repayments. <sup>11</sup> Data for less than 3 enterprises shown with permission of the enterprise involved. For explanation of areas and investment, see text.

**TABLE 9.—COST OF MAINTENANCE AND OPERATION, AND PAY ROLL AND NUMBER OF EMPLOYEES, 1939; BY TYPE OF ENTERPRISE**  
[For the 17 western States and Arkansas and Louisiana]

TYPE OF ENTERPRISE (For definitions and explanations, see text)	COST OF MAINTENANCE AND OPERATION						PAY ROLL AND EMPLOYEES, 1939 <sup>1</sup>		
	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.....	20,193,761	43,172,526	2,983,963	2,828,094	2.14	0.95	3,999	16,071,522	24,006
Individual and partnership.....	6,761,064	17,912,563	572,367	1,908,696	2.65	3.33	412	159,329	994
Cooperative, incorporated..	5,705,859	7,321,830	730,043	282,560	1.28	0.39	2,124	3,293,180	8,360
Cooperative, unincorporated..	795,725	596,649	96,841	17,799	0.75	0.18	659	222,518	2,542
Irrigation district.....	3,506,863	8,641,111	195,890	66,328	2.46	0.34	393	5,216,167	5,465
Reclamation district.....	35,766	100,785	22,743	5,323	2.82	0.23	9	28,302	37
Commercial.....	1,016,082	3,626,450	128,238	107,281	3.57	0.64	202	1,716,515	1,859
U. S. Bureau of Reclamation <sup>8</sup> .....	1,022,039	3,855,722	1,230,111	435,148	2.12	0.35	81	3,694,039	3,409
U. S. Office of Indian Affairs.....	497,699	959,648	.....	.....	1.93	.....	89	1,481,825	2,156
State.....	6,059	23,069	.....	.....	3.82	.....	3	760	2
City and/or sewage.....	41,853	126,385	7,730	4,959	3.02	0.64	28	258,887	182
Other.....	4,932	8,314	.....	.....	1.69	.....	1	( <sup>5</sup> )	( <sup>5</sup> )

<sup>1</sup> Only for enterprises serving 5 or more units. <sup>2</sup> Data for 1 "Other" enterprise are included with "Cooperative, unincorporated" enterprises in the 1940 Census. <sup>3</sup> Data for less than 3 enterprises shown with permission of the enterprise involved. For explanation of areas and investment, see text.

**TABLE 10.—IRRIGATION WORKS, BY TYPE OF ENTERPRISE, 1940**  
[For the 17 western States and Arkansas and Louisiana]

TYPE OF ENTERPRISE (For definitions and explanations, see text)	DAMS		CANALS			RESERVOIRS		PIPE LINES	FLOWING WELLS		PUMPED WELLS		PUMPING PLANTS			
	Diver-sion	Stor-age	Capacity at main head-ing	Length <sup>1</sup>		Num-ber	Capacity	Length	Num-ber	Yield	Number	Yield	Prime movers		Pumps	
				Earth	Lined <sup>2</sup>								Number	Rated capac-ity	Number	Rated capac-ity
Number	Number	Sec.-ft.	Miles	Miles	•	Ac.-ft.	Miles	G. p. m.	G. p. m.	G. p. m.	Hp.	Hp.	G. p. m.			
Total.....	34,544	4,607	612,021	122,857	4,576.7	7,709	33,787,382	28,584.9	4,641	555,073	68,279	43,355,271	78,293	1,762,687	78,528	75,802,998
Individual and partnership..	29,728	3,242	189,852	43,659	830.4	5,971	736,070	17,011.3	4,412	510,171	65,097	39,942,106	73,200	1,321,282	73,449	51,215,121
Cooperative, incorporated..	2,272	709	194,390	25,597	617.5	918	4,292,118	5,089.1	165	19,269	1,377	1,172,648	1,908	144,627	1,915	5,318,596
Cooperative, unincorporated..	1,382	83	26,171	5,739	82.2	130	469,621	532.6	31	6,681	354	251,902	452	14,830	449	433,126
Irrigation district.....	464	169	92,300	21,243	2,205.9	213	6,326,964	3,727.6	13	3,625	769	1,120,816	1,461	118,745	1,444	8,547,271
Reclamation district.....	3	1	1,980	205	9.2	2	.....	14.6	.....	.....	.....	.....	59	8,233	60	977,000
Commercial.....	176	109	41,482	7,020	198.7	147	2,931,186	1,044.3	12	12,955	252	237,847	488	78,577	489	6,012,675
Bureau of Reclamation <sup>8</sup> .....	81	89	49,932	12,487	714.2	85	17,292,933	899.9	.....	167	348,000	300	52,351	300	2,502,252	
Office of Indian Affairs <sup>9</sup> .....	339	102	13,486	6,432	70.9	111	1,695,896	292.2	8	982	189	197,748	300	22,976	299	674,656
State.....	42	84	777	132	4.0	105	31,607	42.6	.....	.....	6	28,089	80	4,070	78	94,510
City and/or sewage.....	32	16	1,491	39	3.6	23	9,992	118.2	.....	.....	6	3,635	19	453	19	12,635
Other.....	15	3	260	34	0.1	4	92	12.5	.....	.....	18	12,480	26	563	26	15,156

<sup>1</sup> Includes main and lateral canals but not farm ditches.

<sup>2</sup> Includes flumes.

<sup>3</sup> U. S. Dept. of the Interior.