

# CENSUS OF IRRIGATION—UNITED STATES SUMMARY

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

[For the 17 western States and Arkansas and Louisiana]

ITEM	1940	1930	1920	ITEM	1940	1930	1920
Enterprises reporting land drained or needing drainage.....number..	3,532	3,853	3,068	Ratio of area drained to area irrigated in—			
Area irrigable in these enterprises..... acres..	9,553,069	10,611,415	8,860,760	(a) Enterprises reporting lands drained and/or needing drainage...percent..	62.0	<sup>2</sup> 34.9	<sup>1</sup> 17.2
Area irrigated in these enterprises.....acres..	6,224,568	(2)	(2)	(b) All irrigation enterprises.....percent..	18.4	19.0	7.9
Area for which drains have been installed..acres..	3,861,305	3,707,354	1,519,853	Ratio of area drained plus area needing drainage to—			
Additional area needing drainage.....acres..	897,912	1,078,566	1,476,771	(a) Irrigable area reporting.....percent..	49.8	45.1	<sup>1</sup> 33.8
				(b) Irrigated area reporting.....percent..	76.5	(2)	(2)

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

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

[For the 17 western States and Arkansas and Louisiana]

ITEM (For definitions and explanations, see text)	TOTAL			MEASURED			NOT MEASURED		
	1939	1929 <sup>1</sup>	1919 <sup>1</sup>	1939	1929 <sup>1</sup>	1919 <sup>1</sup>	1939	1929 <sup>1</sup>	1919 <sup>1</sup>
<b>PRIMARY ENTERPRISES</b>									
From surface sources reported:									
Total water entering canals.....acre-feet..	51,518,947	44,335,802	60,005,556	39,425,558	31,606,035	36,626,781	12,093,389	12,729,767	23,378,775
Area irrigated by these enterprises.....acres.....	11,529,614	10,723,726	10,879,174	8,769,099	7,815,218	7,771,979	2,760,515	2,908,508	3,107,195
Average water per acre irrigated.....acre-feet..	4.5	4.1	5.5	4.5	4.0	4.7	4.4	4.4	7.5
Total water delivered to irrigators.....acre-feet..	45,289,815	17,968,596	15,339,104	21,706,882	14,311,037	8,673,341	23,582,933	3,657,559	6,665,763
Area irrigated by these enterprises.....acres.....	16,349,287	6,474,338	6,059,953	7,722,104	5,054,632	3,980,026	8,627,183	1,419,706	2,079,927
Average water per acre irrigated.....acre-feet..	2.8	2.8	2.5	2.8	2.8	2.2	2.7	2.6	3.2
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	7,692,960	.....	.....	1,142,357	.....	.....	6,550,603	.....	.....
Area irrigated by these enterprises.....acres.....	3,027,777	.....	.....	484,821	.....	.....	2,542,956	.....	.....
Average water per acre irrigated.....acre-feet..	2.5	.....	.....	2.4	.....	.....	2.6	.....	.....
<b>SUPPLEMENTAL ENTERPRISES</b>									
From surface sources reported:									
Total water entering canals.....acre-feet..	2,021,061	.....	.....	1,416,366	.....	.....	604,695	.....	.....
Area irrigated by these enterprises.....acres.....	1,172,497	.....	.....	864,978	.....	.....	307,519	.....	.....
Average water per acre irrigated.....acre-feet..	1.7	.....	.....	1.6	.....	.....	2.0	.....	.....
Total water delivered to irrigators.....acre-feet..	3,251,732	.....	.....	1,740,754	.....	.....	1,510,978	.....	.....
Area irrigated by these enterprises.....acres.....	2,470,026	.....	.....	855,455	.....	.....	1,614,571	.....	.....
Average water per acre irrigated.....acre-feet..	1.3	.....	.....	2.0	.....	.....	0.9	.....	.....
From underground sources reported:									
Total water delivered to irrigators.....acre-feet..	954,800	.....	.....	6,793	.....	.....	948,007	.....	.....
Area irrigated by these enterprises.....acres.....	516,035	.....	.....	5,426	.....	.....	510,609	.....	.....
Average water per acre irrigated.....acre-feet..	1.9	.....	.....	1.3	.....	.....	1.9	.....	.....

<sup>1</sup>Data only for enterprises serving 5 or more units. Water and area for surface and underground sources and water and area for primary and supplemental enterprises were not segregated for 1929 and 1919.

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

[For the 17 western States]

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 <sup>1</sup>				
	Acres	Percent	Acres	Acres	Percent	Acres	Percent
Total <sup>2</sup> .....	20,395,043	100.0	3,284,290	<sup>3</sup> 18,944,856	100.0	<sup>3</sup> 18,592,888	100.0
Appropriation <sup>4</sup> .....	10,216,475	50.1	1,143,582	7,883,564	41.6	<sup>3</sup> 8,541,671	45.9
Riparian.....	604,274	3.0	26,374	530,912	2.8	<sup>3</sup> 346,607	1.9
Appropriation and riparian.....	937,431	4.6	97,071	.....	.....	.....	.....
Underground.....	2,163,315	10.6	503,264	1,755,227	9.3	1,067,606	5.7
Appropriation and underground.....	922,074	4.5	61,700	.....	.....	.....	.....
Riparian and underground.....	122,037	0.6	2,136	.....	.....	.....	.....
Adjudicated by court.....	5,138,337	25.2	1,432,322	7,871,804	41.6	7,159,954	38.5
Other mixed and not reported.....	291,100	1.4	17,841	<sup>3</sup> 903,349	4.8	<sup>3</sup> 1,477,050	7.9

<sup>1</sup>Irrigated areas shown under "Supplemental enterprises" are parts of irrigated areas in "Primary enterprises" (see text).  
<sup>2</sup>Data for Arkansas and Louisiana not included as water rights have no legal status in these States.  
<sup>3</sup>Revised.  
<sup>4</sup>"Appropriation" includes water rights published in the 1930 and 1920 Irrigation Census Reports as "Appropriation and use," "Notice filed and posted," "Permit from State," and "Certificate or license from State."