

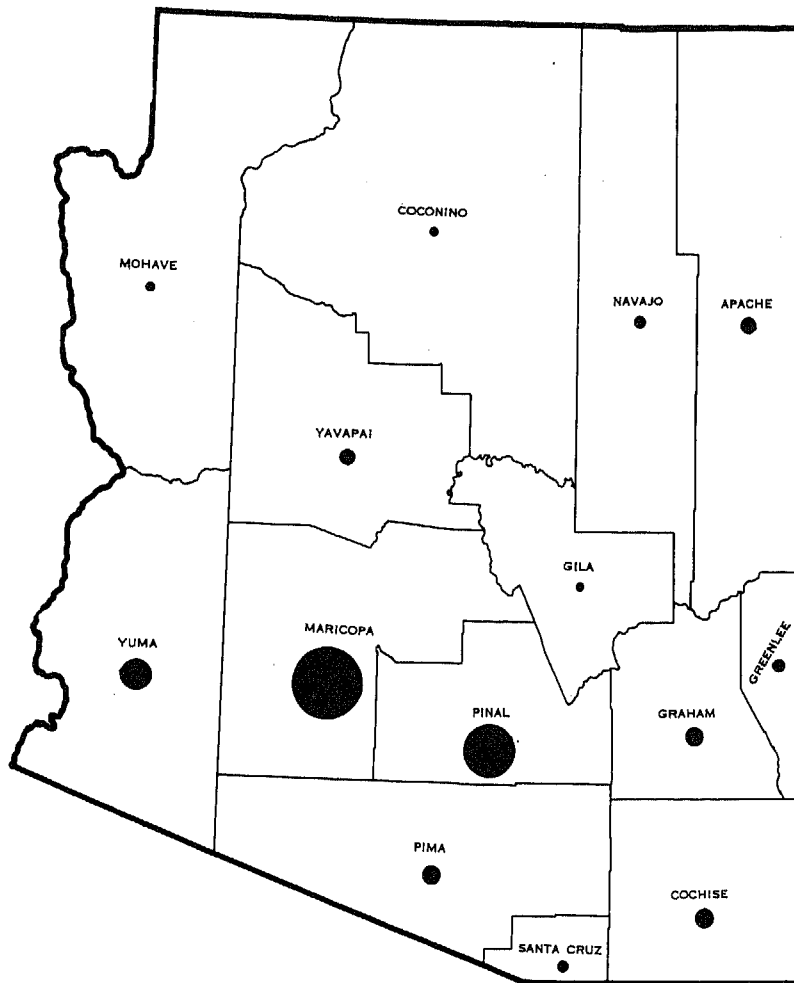
IRRIGATION OF AGRICULTURAL LANDS

ARIZONA

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LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 10,000 - 19,999 ACRES
- 20,000 - 49,999 ACRES
- 50,000 - 99,999 ACRES
- 200,000 - 299,999 ACRES
- 400,000 - 599,999 ACRES

ARIZONA: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ² (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	10,412	39,916,440	7,822 ²	963,560	979,114	2,361	137,575,193
1945.....	13,142	37,856,370	9,634	736,027	(*)	(*)	(*)
1940.....	18,468	25,651,092	10,339	573,464	653,263	1,911	83,526,608
1935.....	18,824	14,018,540	10,050	430,056	(*)	(*)	(*)
1930.....	14,173	10,526,627	8,523	448,806	575,590	1,270	73,428,197
1920.....	9,975	5,802,126	6,605	(**)	467,565	1,388	33,498,094
1910.....	9,227	1,246,613	4,841	(**)	320,051	1,269	17,677,966
1900.....	5,809	1,935,327	2,981	185,396	(*)	(*)	4,438,352
1890.....	1,426	1,297,033	1,075	65,821	(*)	(*)	465,000

* Not available.

** Available data not comparable.

¹ Census of Agriculture.

² Farms reporting irrigated land, 1950, 1945, 1900, and 1890 Censuses; farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; and farms reporting irrigated crops, 1930, 1920, and 1910 Censuses.

³ Irrigated land from which crops were harvested plus 104,092 acres of irrigated land used only for pasture.

⁴ Irrigated land from which crops were harvested.

⁵ Acreage of irrigated crops including some duplication where 2 or more crops were harvested from the same land.

State Table 2.—CHARACTERISTICS OF IRRIGATION ENTERPRISES: 1920 TO 1950

[For interstate enterprises, data represent characteristics within the State.]

Item (For definitions and explanation, see text)	Census of—			
	1950	1940	1930	1920
Enterprises..... total number..	2,361	1,911	1,270	1,388
Enterprises by type:				
Single-farm..... number..	2,198	1,808	1,178	(*)
Mutual:				
Unincorporated..... number..	61	29		(*)
Incorporated..... number..	37	32	42	(*)
Commercial..... number..	1	2	3	(*)
District..... number..	12	14	15	(*)
U.S. Bureau of Reclamation ¹ number..	2	3	3	(*)
U.S. Bureau of Indian Affairs..... number..	48	20	24	(*)
State..... number..		2	4	(*)
City..... number..	2	1	1	(*)
Other..... number..				(*)
Irrigated land total ² acres..	979,114	653,263	575,590	467,565
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres..	497,616	146,867	73,836	80,511
Mutual:				
Unincorporated..... acres..	16,503	11,153		
Incorporated..... acres..	290,663	71,981	58,733	114,482
Commercial..... acres..	(⁴)	⁵ 12,635	32,600	14,500
District..... acres..	131,373	77,164	117,869	300
U.S. Bureau of Reclamation ¹ acres..	⁶ 55,671	323,086	278,584	248,814
U.S. Bureau of Indian Affairs..... acres..	60,758	84,183	13,555	8,733
State..... acres..		(⁵)	111	
City..... acres..	(⁴)	(⁵)	301	200
Other..... acres..			1	25
Acreage irrigated, by source of water: ^{3 7}				
Streams (and lakes)..... acres..	521,721	555,001	464,353	415,292
Springs..... acres..	5,058	3,612	3,056	2,578
Flowing wells..... acres..	4,896	6,213	1,458	2,641
Pumped wells..... acres..	977,309	532,739	399,168	258,051
Sewage..... acres..	629	395	342	195
Other and not reported..... acres..	6,503	6,344	1,917	7,690
Irrigated land artificially drained..... acres..	193,883	93,763	123,013	25,173
Irrigated land in need of drainage..... acres..	65,943	52,126	47,155	71,357
Irrigation works:				
Diversion dams..... total number..	552	602	267	248
Reservoirs..... number..	269	333	378	340
Total capacity (reported)..... acre-feet..	3,625,679	4,860,898	3,410,975	1,510,856
Reservoir dams..... total number..	269	199	78	99
Canals and ditches..... total length, miles..	4,800	4,178	3,974	3,368
Pipe lines..... total length, miles..	316	344	189	104
Flowing wells..... number..	214	268	215	310
Pumped wells..... number..	4,361	1,858	1,398	999
Average pumping lift (reported)..... feet..	134	62	(*)	(*)
Pumps..... number..	4,489	1,969	1,364	1,001
Average pumping lift from all sources..... feet..	(*)	60	46	44
Capital investment, total..... dollars..	137,575,193	83,526,608	73,328,197	33,498,094
Capital investment by type of enterprise:				
Single-farm..... dollars..	32,850,562	5,667,378	5,913,408	5,598,625
Mutual:				
Unincorporated..... dollars..	747,665	215,179		
Incorporated..... dollars..	9,247,089	3,012,125	1,337,982	3,171,406
Commercial..... dollars..	(⁴)	⁵ 3,515,383	4,857,759	3,693,400
District..... dollars..	16,729,212	14,961,006	13,721,792	100,000
U.S. Bureau of Reclamation ¹ dollars..	⁶ 49,409,455	39,708,470	37,691,293	20,277,919
U.S. Bureau of Indian Affairs..... dollars..	24,875,827	16,447,067	9,728,963	585,029
State..... dollars..		(⁵)	27,000	
City..... dollars..	(⁴)	(⁵)	50,000	71,500
Other..... dollars..				215

* Not available.

¹ For 1950, not including Bureau of Reclamation projects operated by water users, which are classified under other types of enterprises.

² Acreage reported by irrigation enterprises. For 1950, acreage supplied primary irrigation; for 1940, acreage irrigated by "primary enterprises"; for 1920 and 1930, "primary" and "supplemental" irrigation not differentiated. (See text.)

³ For 1950, acreage reported by more than 1 type of enterprise, or from more than 1 source is included for each; for 1940, acreage reported by both "primary" and "supplemental" enterprises is included for each type of enterprise and for each source of water.

⁴ Data for less than 3 enterprises not shown separately.

⁵ Data for 2 "State" and 1 "City and/or sewage" enterprises included with "Commercial" enterprises.

⁶ Data for less than 3 enterprises shown with permission of the enterprise.

⁷ Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "City water" and supplemental water from "Streams, pumped" are omitted.

State Table 3 (Part 1 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE: CENSUSES OF 1950 AND 1940

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise.]

Item (For definitions and explanations, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	Operated by U.S. Bureau of Reclamation ^{1 2}	All or part of water from U.S. Bureau of Reclamation projects ^{3 4}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated				
ENTERPRISES: FARMS AND LAND IRRIGATED								
Number of enterprises.....enterprises 1950..	2,361	2,198	61	37	12	2	3	51
.....enterprises 1940..	1,911	1,808	29	32	14	3	(*)	25
Farms irrigated direct per enterprise..... farms 1949..	4.6	1.0	7.7	111.9	78.9	204.5	86.3	51.3
Area irrigated direct.....acres 1949..	1,053,574	497,615	16,503	290,663	131,373	55,671	35,777	61,748
.....acres 1939..	727,069	146,867	11,153	71,981	77,164	323,086	(*)	96,818
Average per enterprise.....acres 1949..	446	226	271	7,856	10,948	27,836	11,926	1,211
CHARACTERISTICS OF ENTERPRISES, 1949								
Multiple-purpose enterprises.....enterprises..	11	.....	1	4	2	1	.....	3
Area irrigated direct.....acres..	330,179	.....	75	225,997	40,716	48,797	.....	14,594
Complete-system enterprises.....enterprises..	2,255	2,118	51	31	8	.....	.....	47
Area irrigated direct.....acres..	649,740	484,938	14,345	66,586	56,814	.....	.....	27,057
Enterprises by origin of water supply:								
No water from other enterprises.....enterprises reporting..	2,303	2,151	60	35	8	1	.....	48
.....acres irrigated..	882,084	488,143	15,003	288,333	56,814	6,874	.....	26,917.
Part of water from other enterprises.....enterprises reporting..	25	20	1	.....	2	.....	3	2
.....acres irrigated..	46,233	8,816	1,500	.....	29,204	.....	35,777	6,713
All water from other enterprises.....enterprises reporting..	33	27	.....	2	2	1	.....	1
.....acres irrigated..	125,257	657	.....	2,330	45,355	48,797	.....	28,118
Enterprises by delivery of irrigation water:								
No water delivered.....enterprises reporting..	31	31	.....	29	.....	1	.....	48
Water delivered direct to farms only.....enterprises reporting..	2,300	2,165	48	29	.....	1	3	48
.....acres irrigated..	725,320	494,411	14,688	59,321	58,110	48,797	35,777	49,993
Water delivered to farms and to other enterprises.....enterprises reporting..	26	2	11	8	3	1	.....	1
.....acres irrigated..	328,254	3,205	1,815	231,342	73,263	6,874	.....	11,755
Water delivered to other enterprises only.....enterprises reporting..	4	.....	2	.....	.....	.....	.....	2
Enterprises by primary and supplemental irrigation: ⁵								
All primary.....enterprises reporting..	2,081	1,944	52	27	8	1	3	49
.....acres irrigated..	782,347	429,440	14,093	170,420	57,849	48,797	35,777	61,748
Part primary, part supplemental.....enterprises reporting..	58	37	6	10	1	.....	.....	.....
Primary irrigation.....acres irrigated..	196,767	10,661	1,774	115,258	63,200	5,874	.....	.....
Supplemental irrigation.....acres irrigated..	29,583	12,638	636	4,985	10,324	1,000	.....	.....
All supplemental.....enterprises reporting..	186	186	.....	.....	.....	.....	.....	.....
.....acres irrigated..	44,877	44,877	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:								
None.....enterprises reporting..	35	31	2	.....	.....	.....	.....	2
1-3.....enterprises reporting..	2,199	2,161	29	5	.....	.....	.....	4
4-9.....enterprises reporting..	29	6	17	3	.....	.....	.....	3
10-29.....enterprises reporting..	41	.....	9	15	3	.....	.....	14
30-99.....enterprises reporting..	44	.....	4	12	6	1	2	21
100-299.....enterprises reporting..	9	.....	.....	1	2	.....	1	6
300-999.....enterprises reporting..	3	.....	.....	.....	1	.....	.....	1
1,000 or more.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....
Enterprises by acres irrigated direct:								
None.....enterprises reporting..	35	31	2	.....	.....	.....	.....	2
1-29.....enterprises reporting..	798	788	8	.....	.....	.....	.....	2
30-99.....enterprises reporting..	519	494	13	3	.....	.....	.....	9
100-499.....enterprises reporting..	682	616	32	7	.....	.....	.....	26
500-999.....enterprises reporting..	192	174	2	7	2	.....	.....	7
1,000-2,999.....enterprises reporting..	103	81	4	12	4	.....	1	2
3,000-9,999.....enterprises reporting..	20	13	.....	4	1	.....	1	1
10,000-29,999.....enterprises reporting..	9	1	.....	3	3	.....	1	2
30,000 or more.....enterprises reporting..	3	.....	.....	1	1	.....	.....	.....
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949								
Surface water:								
Gravity only.....enterprises reporting..	464	366	33	20	3	.....	.....	42
.....acres irrigated..	65,651	10,306	5,128	16,509	8,940	.....	.....	24,768
Pumped only.....enterprises reporting..	57	55	.....	.....	.....	.....	.....	2
.....acres irrigated..	3,398	3,023	.....	.....	.....	.....	.....	375
Gravity and pumped.....enterprises reporting..	11	9	1	.....	.....	1	.....	.....
.....acres irrigated..	7,216	295	47	.....	.....	6,874	.....	.....
Ground water only (pumped from wells).....enterprises reporting..	1,695	1,663	22	5	3	.....	.....	2
.....acres irrigated..	524,435	466,295	7,791	13,654	35,898	.....	.....	797
Surface (gravity or pumped) and ground.....enterprises reporting..	134	105	5	12	6	1	3	5
.....acres irrigated..	452,874	17,697	3,537	260,500	86,535	48,797	35,777	35,808
Stored water:								
None stored.....enterprises reporting..	2,199	2,078	51	29	7	1	1	33
.....acres irrigated..	648,968	484,902	15,593	77,343	41,886	6,874	1,767	22,370
Part stored.....enterprises reporting..	93	71	3	4	4	.....	2	11
.....acres irrigated..	339,779	10,839	413	208,405	82,903	.....	34,010	37,219
All stored.....enterprises reporting..	69	49	7	4	1	1	.....	7
.....acres irrigated..	64,827	1,875	497	4,915	6,584	48,797	.....	2,159

¹ Not available.

² Data for 2 Bureau of Reclamation enterprises operated by water users are included only with other types of enterprises under which they are classified.

³ Data for less than 3 enterprises shown with permission of the enterprise.

⁴ These enterprises also included under "District" or other types of enterprises as the case may be.

⁵ Single-farm enterprises receiving water from Bureau of Reclamation not included.

⁶ For interstate enterprises, data represent characteristics within the State.

State Table 3 (Part 3 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE: CENSUSES OF 1950 AND 1940

[For interstate enterprises, data represent characteristics within the State except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definition and explanation, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	Operated by U.S. Bureau of Reclamation ^{1 2}	All or part of water from U.S. Bureau Reclamation projects ^{3 4}	Commercial, Indian, State, city, and other
			Unincor- porated	Incorporated				
COST OF WATER TO FARMS, 1949 ⁵								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	2,325	2,167	58	37	12	2	3	49
Cost.....dollars..	14,470,293	7,891,122	144,555	3,516,783	1,676,504	1,118,834	353,391	122,495
Area irrigated direct.....acres..	1,053,574	497,616	16,503	290,663	131,373	55,671	35,777	61,748
Cost per acre irrigated direct.....dollars..	13.73	15.66	8.76	12.10	12.76	20.10	9.87	1.98
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	413	374	27	2				10
Cost.....acres irrigated..	59,322	21,414	4,099	901				32,908
\$1.00-\$1.99.....enterprises reporting..	113	66	9	3				35
Cost.....acres irrigated..	29,023	16,717	1,838	725				9,743
\$2.00-\$4.99.....enterprises reporting..	222	197	5	15	2			3
Cost.....acres irrigated..	134,448	40,751	1,795	28,065	45,355			18,482
\$5.00-\$9.99.....enterprises reporting..	356	338	4	9	5		2	
Cost.....acres irrigated..	127,892	80,914	1,823	38,173	6,982		8,340	
\$10.00 or more.....enterprises reporting..	1,221	1,192	13	8	5		1	1
Cost.....acres irrigated..	702,889	337,820	6,948	222,799	79,036	55,671	27,437	615
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	2,139	1,981	58	37	12	2	3	49
Cost.....dollars..	13,657,729	7,341,480	139,964	3,488,503	1,459,201	1,106,136	353,391	122,495
Area supplied primary irrigation.....acres..	979,114	440,101	15,867	285,678	121,049	54,671	35,777	61,748
Cost per acre supplied.....dollars..	13.95	16.68	8.82	12.21	12.05	20.23	9.87	1.98
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	244	223	6	10	4	1		
Cost.....dollars..	812,514	549,642	4,591	28,280	217,303	12,698		
Area supplied supplemental irrigation.....acres..	74,460	57,515	636	4,985	10,324	1,000		
Cost per acre supplied.....dollars..	10.91	9.56	7.22	5.67	21.05	12.70		
Cost to farms for purposes other than operation and maintenance: ⁶								
Enterprises reporting.....enterprises..	29		2	19	6	2		
Cost.....dollars..	952,313		13,925	396,496	369,175	172,717	82,311	
Area irrigated direct.....acres..	402,131		1,802	259,420	85,238	55,671	27,437	
Cost per acre irrigated.....dollars..	2.37		7.73	1.53	4.33	3.10	3.00	
Arrearage in payments by farms, Jan. 1, 1950: ⁶								
Enterprises reporting.....enterprises..	59		3	11	4	1	2	31
Amount.....dollars..	822,169		1,790	310,787	9,147	15,109	10,000	485,336
Area irrigated direct.....acres..	219,093		1,752	115,917	25,997	48,797	8,340	26,630
QUANTITIES OF WATER REPORTED, 1949 ⁶								
Total obtained from all sources ⁷.....enterprises reporting..	150		55	35	12	2	3	46
Cost.....acre-feet..	3,754,337		84,928	1,698,132	622,069	649,795	170,200	699,413
Surface sources.....enterprises reporting..	109		33	28	5	1		42
Cost.....acre-feet..	1,777,046		35,650	1,101,206	37,109	170,634		432,367
Pumped wells.....enterprises reporting..	57		24	18	8	1	3	6
Cost.....acre-feet..	1,104,882		37,173	581,919	335,526	14,151	93,800	136,113
Other enterprises.....enterprises reporting..	10		1	2	4	1	3	2
Cost.....acre-feet..	872,409		12,105	14,927	249,434	465,010	76,400	130,933
Conveyance loss ⁷.....enterprises reporting..	144		50	34	12	2	3	46
Cost.....acre-feet..	1,051,214		17,511	518,345	145,467	163,320	34,040	206,571
Delivered: ⁷								
Direct to farms.....enterprises reporting..	147		53	35	12	2	3	45
Cost.....acre-feet..	2,079,862		62,935	1,006,079	462,961	314,812	134,160	233,075
To other enterprises.....enterprises reporting..	27		12	8	4	1		2
Cost.....acre-feet..	458,865		1,612	121,710	12,641	65,135		257,767
For use other than irrigation.....enterprises reporting..	11		2	6	1	1		1
Cost.....acre-feet..	164,396		2,870	51,998	1,000	106,528	2,000	2,000
Delivered direct to farms for primary irrigation:								
Enterprises reporting.....enterprises..	146		52	35	12	2	3	45
Quantity delivered.....acre-feet..	1,969,948		59,038	983,475	427,370	267,590	134,160	232,475
Area supplied primary irrigation.....acres..	536,836		14,717	285,265	121,049	54,671	35,777	61,134
Quantity per acre supplied.....acre-feet..	3.7		4.0	3.4	3.5	4.9	3.7	3.8
Delivered direct to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	19		5	9	4	1		
Quantity delivered.....acre-feet..	65,858		1,797	17,915	35,591	10,555		
Area supplied supplemental irrigation.....acres..	15,955		596	4,075	10,324	1,000		
Quantity per acre supplied.....acre-feet..	4.1		3.2	4.4	3.4	10.6		
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	6,298,704		124,749	3,486,123	1,459,201	1,106,136	353,391	122,495
Average cost per acre-foot.....dollars..	3.20		2.11	3.55	3.41	4.13	2.63	0.53
Cost for supplemental irrigation.....dollars..	262,746		4,465	28,280	217,303	12,698		
Average cost per acre-foot.....dollars..	3.99		2.48	1.58	6.11	1.20		
Measurement of water to farms:								
No water measured.....enterprises reporting..	109		40	20	3		1	46
Cost.....acres..	82,081		9,265	32,677	7,674		6,573	32,465
Part of water measured.....enterprises reporting..	14		2	7	1	2		2
Cost.....acres..	282,136		1,831	222,514	1,945	55,671		175
All water measured.....enterprises reporting..	40		19	10	8		2	3
Cost.....acres..	191,741		5,407	35,472	121,754		29,204	29,108

1 Data for 2 Bureau of Reclamation enterprises operated by water users are included only with other types of enterprises under which they are classified.

2 Data for less than 3 enterprises shown with permission of the enterprise.

3 These enterprises also included under "District" or other types of enterprises as the case may be.

4 Not including single-farm enterprises receiving water from Bureau of Reclamation projects.

5 Enterprises with reported cost of \$0 in 1949 are included.

6 Not reported by single-farm enterprises.

7 For interstate enterprises, data represent characteristics of the entire enterprise.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4 (Part 1 of 3).—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated by 2 or more enterprises are counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
ENTERPRISES: FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises..	2,255	432	44	1,668	111	1,278	859	112	6
Farms irrigated direct per enterprise.....farms..	2.7	6.9	1.0	1.3	7.3	1.2	3.4	10.5	70.3
Area irrigated.....acres..	649,740	55,031	3,310	520,673	70,726	35,840	293,548	220,577	99,775
Average per enterprise.....acres..	288	127	75	312	637	28	342	1,969	16,629
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	7	6	.....	.....	1	1	.....	4	2
Area irrigated.....acres..	37,430	20,761	.....	.....	16,669	75	.....	8,931	28,424
Type of enterprise:									
Single-farm.....enterprises..	2,118	345	43	1,636	94	1,249	778	90	1
.....acres..	484,938	9,870	2,935	462,533	9,600	34,327	267,101	171,253	12,257
Mutual:									
Unincorporated.....enterprises..	51	26	.....	22	3	16	32	3	.....
.....acres irrigated..	14,345	4,848	.....	7,791	1,706	713	8,000	5,632	.....
Incorporated.....enterprises..	31	17	.....	5	9	2	13	14	2
.....acres irrigated..	66,586	13,189	.....	13,654	39,743	143	5,777	33,151	27,515
Commercial.....enterprises..	1	.....	.....	1	.....	.....	1	.....	.....
District.....enterprises..	8	2	.....	3	3	.....	3	3	2
.....acres irrigated..	56,814	2,356	.....	35,898	18,560	.....	1,879	6,687	48,248
U.S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
U.S. Bureau of Indian Affairs.....enterprises..	45	42	.....	1	2	11	31	2	1
.....acres irrigated..	26,067	24,768	.....	182	1,117	687	9,801	3,854	11,755
State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
City.....enterprises..	1	1	.....	.....	.....	.....	1	.....	.....
.....acres irrigated..	(⁴)	(⁴)	.....	.....	.....	.....	(⁴)	.....	.....
Enterprises by primary and supplemental irrigation: ⁵									
All primary.....enterprises reporting..	2,016	406	42	1,470	98	1,176	745	91	4
.....acres irrigated..	513,118	50,769	3,281	419,786	39,282	31,991	253,291	173,649	54,187
Part primary, part supplemental.....enterprises reporting..	53	5	.....	39	9	5	33	13	2
Primary irrigation.....acres irrigated..	67,092	2,876	.....	41,079	23,137	171	6,655	22,445	37,821
Supplemental irrigation.....acres irrigated..	24,653	985	.....	15,447	8,221	62	7,603	9,221	7,767
All supplemental.....enterprises reporting..	186	21	2	159	4	97	81	8	.....
.....acres irrigated..	44,877	401	29	44,361	86	3,616	25,999	15,262	.....
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	2,142	358	44	1,645	95	1,260	791	90	1
4-9.....enterprises reporting..	28	15	.....	13	.....	10	17	1	.....
10-29.....enterprises reporting..	40	30	.....	5	5	8	24	6	2
30-99.....enterprises reporting..	37	23	.....	4	10	.....	24	13	.....
100-299.....enterprises reporting..	8	6	.....	1	1	.....	3	2	3
300-999.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
1,000 and over.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	772	270	24	441	37	772	.....	.....	.....
30-99.....enterprises reporting..	506	79	14	381	32	506	.....	.....	.....
100-499.....enterprises reporting..	668	58	5	580	25	.....	668	.....	.....
500-999.....enterprises reporting..	191	15	1	171	4	.....	191	.....	.....
1,000-2,999.....enterprises reporting..	97	9	.....	80	8	.....	.....	97	.....
3,000-9,999.....enterprises reporting..	15	.....	.....	12	3	.....	.....	15	.....
10,000-29,999.....enterprises reporting..	5	1	.....	2	2	.....	.....	.....	5
30,000 and over.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....	1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	432	432	.....	.....	.....	348	74	9	1
.....acres irrigated..	55,031	55,031	.....	.....	.....	6,391	22,031	14,854	11,755
Pumped only.....enterprises reporting..	44	.....	44	.....	.....	38	6	.....	.....
.....acres irrigated..	3,310	.....	3,310	.....	.....	1,020	2,290	.....	.....
Gravity and pumped.....enterprises reporting..	5	.....	.....	.....	5	4	1	.....	.....
.....acres irrigated..	240	.....	.....	.....	240	40	200	.....	.....
Ground water only (pumped from wells).....enterprises reporting..	1,668	.....	.....	1,668	.....	823	750	92	3
.....acres irrigated..	520,673	.....	.....	520,673	.....	26,368	260,775	177,880	55,650
Surface (gravity or pumped) and ground.....enterprises reporting..	106	.....	.....	.....	106	65	28	11	2
.....acres irrigated..	70,486	.....	.....	.....	70,486	2,021	8,252	27,843	32,370
Stored water:									
None stored.....enterprises reporting..	2,110	366	36	1,624	84	1,186	813	106	5
.....acres irrigated..	610,466	39,265	2,972	516,019	52,210	33,207	281,764	210,470	85,025
Part stored.....enterprises reporting..	81	25	3	31	22	45	31	4	.....
.....acres irrigated..	30,934	8,419	81	4,034	18,420	1,429	8,675	6,100	14,750
All stored.....enterprises reporting..	64	41	5	13	5	47	15	2	.....
.....acres irrigated..	8,320	1,347	257	620	96	1,204	3,109	4,007	.....

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded.

² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise.

³ Surface water includes water from springs and from flowing wells.

⁴ Data for less than 3 enterprises not shown separately.

⁵ For interstate enterprises, data represent characteristics within the State.

State Table 4 (Part 2 of 3)—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁴									
Screams (and lakes).....enterprises reporting..	466	343	40	83	353	90	20	3	
.....acres irrigated..	123,416	51,026	2,858	69,532	7,625	28,969	42,697	44,125	
Springs.....enterprises reporting..	46	39	2	5	32	13	1	1	
.....acres irrigated..	3,974	3,776	12	186	592	2,227	1,155	1	
Flowing wells.....enterprises reporting..	73	44	1	28	64	7	2	2	
.....acres irrigated..	4,894	937	65	3,892	1,113	1,413	2,368	1	
Drainage water.....enterprises reporting..	17	12	1	4	14	2	1	1	
.....acres irrigated..	4,646	993	80	3,573	405	790	3,451	1	
Sewage.....enterprises reporting..	3	1	1	1	1	2	1	1	
.....acres irrigated..	539	100	375	64	64	475			
Other sources.....enterprises reporting..									
.....acres irrigated..									
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	19	2	1	11	5	7	9	2	
Acreage supplied primary irrigation.....acres..	32,061	12,007	80	2,913	17,061	205	2,492	28,424	
Acreage artificially drained.....acres..	30,993	12,007	80	2,135	16,771	205	1,424	28,424	
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	17	8		8	1	3	10	2	
Acreage supplied primary irrigation.....acres..	36,737	16,661		3,407	16,669	13	3,510	28,424	
Acreage in need of drainage.....acres..	14,453	12,550		903	1,000	10	1,188	12,755	
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	395	311	10	15	59	293	84	15	
.....dams..	509	391	12	18	88	339	140	27	
Diversion dams by material:									
Concrete or masonry.....dams..	56	43		3	10	15	35	4	
Timber.....dams..	9	8		1		8	1		
Earth or rock.....dams..	337	242	12	12	71	225	91	20	
Other, mixed, and not reported.....dams..	107	98	2	2	7	91	13	3	
Reservoirs.....enterprises reporting..	171	109	7	60	34	106	56	8	
.....reservoirs..	249	70	10	72	58	156	75	17	
Reservoirs for which capacity was reported.....reservoirs..	219	95	9	60	55	136	65	17	
.....total capacity, acre-feet..	304,362	112,933	257	3,42	190,830	24,042	18,200	84,120	
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	179	63	8	60	48	131	48		
100-999 acre-feet.....reservoirs..	22	17	1	4	4	12	6		
1,000 acre-feet and over.....reservoirs..	18	15		3	1	5	11	1	
Reservoir dams by material:									
Concrete or masonry.....dams..	31	12	3	8	8	24	4	2	
Earth or rock.....dams..	212	95	7	63	47	127	71	14	
Other, mixed, and not reported.....dams..	6	2		1	3	5	1		
Canals and ditches.....enterprises reporting..	542	309	14	148	71	364	148	25	
.....total length, miles..	2,138	974	12	657	494	343	687	331	
Pipelines and siphons.....enterprises reporting..	116	30	15	55	16	70	37	6	
.....total length, miles..	209	17	4	153	35	67	122	18	
Tunnels.....enterprises reporting..	2	2				1		1	
.....total length, feet..	4,000	4,000				100		3,900	
Flowing wells.....enterprises reporting..	73	44	1	28	64	7	2		
.....wells..	213	137		75	181	15	17		
Pumped wells.....enterprises reporting..	1,772		1	1,668	103	889	774	104	
.....wells..	3,833		1	3,521	311	1,080	1,675	807	
Wells for which pumping lift was reported.....wells..	3,645			3,339	306	995	1,609	770	
Average pumping lift.....feet..	133			135	115	74	149	158	
Irrigation pumps.....enterprises reporting..	1,821	3	44	1,665	109	931	781	104	
.....pumps..	3,916	3	52	3,555	306	1,128	1,730	773	
Electric motors used for pumping.....enterprises reporting..	1,177	1	17	1,116	43	556	532	84	
.....electric motors..	2,574	1	18	2,336	219	678	1,090	533	
Other motors and engines used for pumping.....enterprises reporting..	841	2	30	735	74	403	376	60	
.....other motors and engines..	1,324	2	35	1,180	107	473	588	251	
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	35	21	1	12	1	30	5		
.....acres irrigated..	1,532	806	80	607	39	774	758		
Water delivered before and after July 1.....enterprises reporting..	1,955	274	38	1,541	102	1,031	808	110	
.....acres irrigated..	624,229	50,021	1,824	501,969	70,415	30,667	277,463	216,324	
Water delivered only after July 1.....enterprises reporting..	154	118		31	5	144	8	2	
.....acres irrigated..	9,108	3,076		5,837	195	2,367	2,488	4,253	
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	1,493	125	25	1,259	84	700	686	101	
Amount.....dollars..	36,527,771	6,873,766	53,849	27,526,401	2,073,755	2,478,401	15,244,183	11,109,885	
Area irrigated.....acres..	561,138	42,499	1,238	449,334	68,067	22,517	241,778	197,068	
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	55	35		9	11	8	30	14	
Amount.....dollars..	5,996,213	1,562,070		1,742,401	2,691,742	76,086	1,076,471	821,321	
Area irrigated.....acres..	105,994	15,905		47,745	42,344	425	11,590	34,885	
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	33	28		3	2	7	22	4	
Amount.....dollars..	1,414,843	1,388,305		22,238	4,300	75,566	871,676	467,601	
Area irrigated.....acres..	15,840	8,375		2,846	4,619	398	7,373	8,069	

¹"Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded.
²Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise.
³Surface water includes water from springs and from flowing wells.
⁴Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State.
⁵Not reported by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4 (Part 3 of 3)—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
COST OF WATER TO FARMS⁴									
Total cost of water to farms: enterprises reporting.....	2,255	432	44	1,668	111	1,278	859	112	6
Cost..... dollars.....	9,709,790	150,209	21,100	8,699,812	838,669	492,898	4,640,075	2,899,051	1,677,766
Area irrigated..... acres.....	649,740	55,031	3,310	520,673	70,726	35,840	293,548	220,577	99,775
Cost per acre irrigated..... dollars.....	14.94	2.73	6.37	16.71	11.86	13.75	15.81	13.14	16.82
Enterprises by cost per acre:									
Less than \$1.00..... enterprises reporting.....	402	311	6	70	15	337	62	3	.....
..... acres irrigated.....	30,880	14,661	603	12,928	2,688	5,953	18,365	6,562	.....
\$1.00-\$1.99..... enterprises reporting.....	111	48	1	58	4	47	60	4	.....
..... acres irrigated.....	28,933	11,197	320	16,599	817	2,186	17,272	9,475	.....
\$2.00-\$4.99..... enterprises reporting.....	208	28	8	145	27	102	91	14	.....
..... acres irrigated.....	63,853	21,990	872	34,192	6,799	4,209	26,232	21,657	11,755
\$5.00-\$9.99..... enterprises reporting.....	343	23	8	288	24	179	141	22	.....
..... acres irrigated.....	118,542	6,689	1,166	73,194	37,493	7,022	44,062	50,789	16,669
\$10.00 or more..... enterprises reporting.....	1,591	22	21	1,107	41	613	505	69	4
..... acres irrigated.....	407,532	494	349	383,760	22,929	16,470	187,617	132,094	71,351
Cost of water for primary irrigation:									
Enterprises reporting.....	2,069	411	42	1,509	107	1,181	778	104	6
Cost..... dollars.....	8,930,516	146,271	21,082	8,096,386	666,777	460,721	4,305,449	2,693,301	1,471,045
Area supplied primary irrigation..... acres.....	580,210	53,645	3,281	460,865	62,419	32,162	259,946	196,094	92,008
Cost per acre supplied..... dollars.....	15.39	2.73	6.43	17.57	10.68	14.33	16.56	13.73	15.99
Cost of water for supplemental irrigation:									
Enterprises reporting.....	239	26	2	198	13	102	114	21	2
Cost..... dollars.....	779,274	3,938	18	603,426	171,892	32,177	334,626	205,750	206,721
Area supplied supplemental irrigation..... acres.....	69,530	1,386	29	59,808	8,307	3,678	33,602	24,483	7,767
Cost per acre supplied..... dollars.....	11.21	2.84	0.62	10.09	20.69	8.75	9.96	8.40	26.62
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....	21	6	.....	4	11	.....	6	12	3
Cost..... dollars.....	379,785	21,175	.....	136,829	221,781	.....	10,864	93,867	275,054
Area irrigated..... acres.....	101,268	7,571	.....	36,073	57,624	.....	3,870	32,481	64,917
Cost per acre irrigated..... dollars.....	3.75	2.80	.....	3.79	3.85	.....	2.81	2.89	4.24
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....	43	37	.....	3	3	8	25	8	2
Amount..... dollars.....	489,870	484,431	.....	361	5,078	14,289	229,185	47,757	198,639
Area irrigated..... acres.....	49,201	30,006	.....	326	18,869	488	7,769	13,488	27,456
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶ enterprises reporting.....	125	78	.....	30	17	25	73	22	5
..... acre-feet.....	933,802	282,683	.....	297,354	353,765	6,708	100,965	299,672	526,457
Surface sources..... enterprises reporting.....	95	78	.....	.....	19	54	19	.....	3
..... acre-feet.....	482,166	282,683	.....	.....	199,483	3,932	65,115	218,147	194,972
Pumped wells..... enterprises reporting.....	47	.....	.....	30	.....	6	23	14	.....
..... acre-feet.....	451,636	.....	.....	297,354	154,282	2,776	35,850	81,525	331,485
Other enterprises..... enterprises reporting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
..... acre-feet.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Conveyance loss ⁶ enterprises reporting.....	119	76	.....	26	17	22	70	22	5
..... acre-feet.....	213,651	79,918	.....	46,980	86,753	1,019	19,312	79,665	113,655
Delivered: ⁶									
Direct to farms..... enterprises reporting.....	125	78	.....	30	17	25	73	22	5
..... acre-feet.....	707,107	197,505	.....	243,126	266,476	5,133	76,863	219,007	406,104
To other enterprises..... enterprises reporting.....	6	4	.....	2	2	1	2	3	2
..... acre-feet.....	7,734	4,170	.....	3,028	536	36	190	81	6,698
For use other than irrigation..... enterprises reporting.....	7	3	.....	4	.....	5	1	.....	.....
..... acre-feet.....	5,310	1,090	.....	4,220	.....	520	4,600	190	.....
Delivered to farms for primary irrigation:									
Enterprises reporting.....	124	77	.....	30	17	24	73	22	5
Quantity delivered..... acre-feet.....	653,425	187,027	.....	229,894	236,504	4,533	72,324	201,524	375,044
Acreage supplied primary irrigation..... acres.....	150,574	43,099	.....	54,470	53,005	1,271	23,500	46,052	79,751
Quantity per acre supplied..... acre-feet.....	4.3	4.3	.....	4.2	4.5	3.6	3.1	4.4	4.7
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....	16	4	.....	5	7	.....	6	8	2
Quantity delivered..... acre-feet.....	45,693	3,989	.....	13,232	28,472	.....	3,939	10,694	31,060
Acreage supplied supplemental irrigation..... acres.....	11,971	985	.....	2,915	8,121	.....	932	3,272	7,767
Quantity per acre supplied..... acre-feet.....	3.8	4.3	.....	4.5	3.5	.....	4.2	3.3	4.0
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation..... dollars.....	1,737,992	128,660	.....	1,038,290	571,042	4,223	99,695	353,112	1,280,962
Average cost per acre-foot..... dollars.....	2.66	0.69	.....	4.52	2.41	0.93	1.38	1.75	3.42
Cost for supplemental irrigation..... dollars.....	230,429	3,930	.....	55,252	171,247	.....	6,013	17,695	206,721
Average cost per acre-foot..... dollars.....	5.04	0.99	.....	4.18	6.01	.....	1.53	1.65	6.66
Measurement of water to farms:									
No water measured..... enterprises reporting.....	98	73	.....	18	7	24	62	11	1
..... acres.....	52,333	36,042	.....	5,876	10,415	1,171	19,841	19,566	11,755
Part of water measured..... enterprises reporting.....	7	3	.....	.....	4	.....	2	5	.....
..... acres.....	17,203	2,748	.....	.....	14,455	.....	803	16,400	.....
All water measured..... enterprises reporting.....	32	11	1	14	6	5	17	6	4
..... acres.....	95,266	6,371	375	52,264	36,256	342	5,803	13,358	75,763

¹"Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded.
²Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise.
³Surface water includes water from springs and from flowing wells.
⁴Enterprises with reported cost of \$0 in 1949 are included.
⁵Not reported by single-farm enterprises.
⁶For interstate enterprises, data represent characteristics of the entire enterprise.

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945

[1950 data for items shown in italics are based on reports for only a sample of farms. See text.]

Table with 9 columns: Item, The State, Apache, Cochise, Coconino, Gila, Graham, Greenlee. Rows include irrigated farms, land in irrigated farms, value of land and buildings, irrigated land in farms, and characteristics of wholly irrigated and nonirrigated farms.

See footnote at end of County Table 1.

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted.]

Item (For definitions and explanations, see text)		The State	Apache	Cochise	Coconino	Gila	Graham	Greenlee
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	2,361	46	377	48	60	182	67
2	.....enterprises 1940..	1,911	36	361	36	71	181	62
3	Intercounty enterprises.....enterprises 1950..	20	1	1	.....	3	2	2
4	Irrigated farms ¹.....farms 1950..	7,822	188	409	50	57	341	119
5	Average per enterprise.....farms 1950..	3.3	4.1	1.1	1.0	1.0	1.9	1.8
6	Farms irrigated direct per enterprise ².....farms 1950..	4.6	30.0	1.2	6.5	2.6	3.0	2.2
7	Irrigated land ¹.....acres 1949..	979,114	14,663	25,824	2,645	1,633	35,146	5,749
8	.....acres 1939..	653,263	11,401	11,458	2,065	1,424	36,628	5,124
9	Average per irrigated farm.....acres 1949..	125.2	78.0	63.1	52.9	28.6	103.1	40.3
10	Average per enterprise.....acres 1949..	415	319	68	55	27	193	86
11	Average acreage irrigated direct per enterprise ².....acres 1949..	446	328	70	56	27	250	111
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	2,198	13	375	35	57	156	61
13	.....acres irrigated..	497,616	651	24,882	872	1,207	16,020	3,515
Mutual:								
14	Unincorporated.....enterprises..	61	5	.....	6	.....	11	5
15	.....acres irrigated..	16,503	572	.....	37	.....	3,210	2,421
16	Incorporated.....enterprises..	37	4	(³) 1	(³) 1	(³) 1	14	(³) 1
17	.....acres irrigated..	290,663	6,216	(³)	(³)	(³)	26,319	(³)
18	Commercial.....enterprises..	1	.....	.....	.....	.....	.....	.....
19	.....acres irrigated..	(³)	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	12	.....	(³) 1	.....	.....	.....	.....
21	.....acres irrigated..	131,373	.....	(³)	.....	.....	.....	.....
22	U. S. Bureau of Reclamation ⁴.....enterprises..	2	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	55,671	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	48	24	.....	6	2	1	.....
25	.....acres irrigated..	60,758	7,656	.....	1,192	426	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	2	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	(³)	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	464	38	30	31	44	23	28
31	.....acres irrigated..	65,651	14,830	2,487	2,515	702	4,559	2,077
32	Pumped only.....enterprises reporting..	57	.....	1	15	.....	.....	1
33	.....acres irrigated..	3,398	.....	65	113	.....	.....	11
34	Gravity and pumped.....enterprises reporting..	11	.....	.....	.....	.....	.....	.....
35	.....acres irrigated..	7,216	.....	.....	.....	.....	.....	.....
36	Ground water only (pumped from wells).....enterprises reporting..	1,695	8	331	1	7	137	32
37	.....acres irrigated..	524,435	265	22,656	1	48	16,487	3,196
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	134	.....	15	1	9	22	6
39	.....acres irrigated..	452,874	.....	1,259	40	883	24,503	2,147
Stored water:								
40	None stored.....enterprises reporting..	2,199	27	353	37	54	155	66
41	.....acres irrigated..	648,968	4,334	24,737	1,594	1,582	43,260	7,172
42	Part stored.....enterprises reporting..	93	10	14	4	5	8	1
43	.....acres irrigated..	339,779	5,849	1,240	206	20	1,414	259
44	All stored.....enterprises reporting..	69	9	10	7	1	19	.....
45	.....acres irrigated..	64,827	4,912	490	869	31	875	.....
Sources of surface water, 1949: ⁵								
46	Streams (and lakes).....enterprises reporting..	543	34	11	43	45	24	34
47	.....acres irrigated..	521,721	14,368	2,620	2,213	1,433	28,553	4,165
48	Springs.....enterprises reporting..	49	6	.....	4	6	.....	1
49	.....acres irrigated..	5,058	1,643	.....	455	90	.....	70
50	Flowing wells.....enterprises reporting..	74	.....	32	.....	3	21	.....
51	.....acres irrigated..	4,896	.....	504	.....	172	509	.....
52	Drainage water.....enterprises reporting..	19	.....	3	.....	.....	.....	.....
53	.....acres irrigated..	6,503	.....	687	.....	.....	.....	.....
54	Sewage.....enterprises reporting..	5	.....	.....	.....	.....	.....	.....
55	.....acres irrigated..	629	.....	.....	.....	.....	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁶								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	23	.....	.....	1	1	.....	.....
59	Area supplied primary irrigation.....acres 1949..	283,530	.....	.....	252	180	.....	.....
60	Area artificially drained.....acres 1949..	193,883	.....	.....	252	10	.....	.....
61	.....acres 1939..	93,763	.....	(*)	(*)	(*)	.....	.....
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	20	1	.....	2	.....	.....	.....
63	Area supplied primary irrigation.....acres 1949..	98,691	2,992	.....	820	.....	.....	.....
64	Area in need of drainage.....acres 1949..	65,943	200	.....	352	.....	.....	.....
65	.....acres 1939..	52,126	(*)	.....	.....	.....	.....	.....

See footnotes at end of County Table 2, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Item (For definitions and explanations, see text)	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	430	53	42	282	476	47	191	75
2 1940..	139	79	30	314	263	37	200	103
3 Intercounty enterprises.....enterprises 1950..	9	1	.....	2	9	3	1	1
4 Irrigated farms ¹.....farms 1950..	3,940	72	247	400	1,058	45	303	593
5 Average per enterprise.....farms 1950..	9.2	1.4	5.9	1.4	2.2	1.0	1.6	7.9
6 Farms irrigated direct per enterprise ².....farms 1950..	10.3	1.7	10.4	2.3	2.5	1.0	2.0	8.5
7 Irrigated land ¹.....acres 1949..	464,200	2,183	7,198	33,131	275,282	5,999	14,740	90,721
8 1939..	344,406	1,824	8,528	33,995	117,556	2,842	9,572	66,440
9 Average per irrigated farm.....acres 1949..	117.8	30.3	29.1	82.8	260.2	133.3	48.6	153.0
10 Average per enterprise.....acres 1949..	1,080	41	171	118	578	128	77	1,210
11 Average acreage irrigated direct per enterprise ².....acres 1949..	1,193	41	173	121	597	128	86	1,223
Type of enterprise, 1950:								
12 Single-farm.....enterprises..	406	45	29	275	468	46	173	70
13 acres irrigated..	182,185	1,274	1,087	18,388	216,805	5,999	9,575	15,156
Mutual:								
14 Unincorporated.....enterprises..	10	3	2	2	4	.....	14	.....
15 acres irrigated..	5,760	179	(³)	(³)	424	.....	3,491	.....
16 Incorporated.....enterprises..	7	2	3	1	.....	.....	3	.....
17 acres irrigated..	240,081	(³)	2,491	(³)	.....	.....	1,196	.....
18 Commercial.....enterprises..	1	.....	.....	.....	.....	.....	.....	.....
19 acres irrigated..	(³)	.....	.....	.....	.....	.....	.....	.....
20 District.....enterprises..	4	.....	2	1	1	.....	1	2
21 acres irrigated..	77,452	.....	(³)	(³)	(³)	.....	(³)	(³)
22 U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	2
23 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	55,671
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	2	3	6	2	3	.....	.....	1
25 acres irrigated..	6,727	185	987	3,530	28,300	.....	.....	11,755
26 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28 City.....enterprises..	.....	.....	.....	1	.....	1	.....	.....
29 acres irrigated..	.....	.....	.....	(³)	.....	(³)	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30 Gravity only.....enterprises reporting..	23	36	17	85	46	4	57	3
31 acres irrigated..	1,070	1,622	5,563	3,922	1,691	212	6,042	18,359
32 Pumped only.....enterprises reporting..	1	3	3	3	.....	1	21	6
33 acres irrigated..	250	155	33	479	.....	.....	568	1,724
34 Gravity and pumped.....enterprises reporting..	.....	.....	1	1	1	.....	6	2
35 acres irrigated..	.....	.....	23	4	7	.....	108	7,074
36 Ground water only (pumped from wells).....enterprises reporting..	391	11	19	188	408	36	76	61
37 acres irrigated..	217,394	347	467	27,571	210,011	5,328	4,890	15,774
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	15	3	2	5	21	6	31	1
39 acres irrigated..	294,106	59	1,174	2,022	72,591	459	4,834	48,797
Stored water:								
40 None stored.....enterprises reporting..	423	47	35	276	471	35	160	73
41 acres irrigated..	256,495	1,944	3,698	32,626	216,794	4,971	13,414	36,347
42 Part stored.....enterprises reporting..	7	4	2	3	5	10	22	.....
43 acres irrigated..	256,325	98	1,951	1,300	67,506	991	2,620	.....
44 All stored.....enterprises reporting..	.....	2	5	3	.....	2	9	2
45 acres irrigated..	.....	141	1,611	72	.....	37	408	55,381
Sources of surface water, 1949:⁵								
46 Streams (and lakes).....enterprises reporting..	32	31	21	90	60	8	101	13
47 acres irrigated..	293,385	1,544	6,366	6,041	74,076	577	10,446	75,934
48 Springs.....enterprises reporting..	1	12	5	1	1	2	9	1
49 acres irrigated..	43	695	1,511	4	7	179	341	20
50 Flowing wells.....enterprises reporting..	1	1	1	4	3	.....	8	.....
51 acres irrigated..	43	2	1,168	1,211	458	.....	829	.....
52 Drainage water.....enterprises reporting..	7	.....	.....	1	6	2	.....	.....
53 acres irrigated..	5,449	.....	.....	80	112	175	.....	.....
54 Sewage.....enterprises reporting..	.....	.....	.....	1	1	2	1	.....
55 acres irrigated..	.....	.....	.....	375	100	90	64	.....
56 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶								
Irrigated land drained:								
58 Enterprises reporting.....enterprises 1949..	8	.....	1	5	2	1	.....	4
59 Area supplied primary irrigation.....acres 1949..	214,142	.....	6	338	1,270	6	.....	67,336
60 Area artificially drained.....acres 1949..	132,936	.....	6	338	610	6	.....	59,725
61 acres 1939..	45,435	.....	12	.....	.....	(*)	.....	48,035
Irrigated land in need of drainage:								
62 Enterprises reporting.....enterprises 1949..	4	1	2	4	1	.....	1	4
63 Area supplied primary irrigation.....acres 1949..	23,816	10	527	1,961	432	.....	557	67,576
64 Area in need of drainage.....acres 1949..	4,055	3	140	308	100	.....	100	60,685
65 acres 1939..	1,320	.....	12	.....	.....	.....	.....	50,696

*Not available. ¹Farms or acres irrigated direct by 2 or more enterprises are counted only once. Number of irrigated farms is from the U. S. Census of Agriculture. Acreage irrigated is from the Census of Irrigation and therefore differs from acreage irrigated shown in County Table 1. (See text.) ²Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise. ³Data for less than 3 enterprises not shown separately. ⁴Data for less than 3 enterprises shown with permission of the enterprise. ⁵Enterprises reporting water from more than 1 source are counted for each. ⁶For intercounty and interstate enterprises, data represent characteristics within the county or State.

County Table 2 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises, data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State	COUNTIES					
		Apache	Cochise	Coconino	Gila	Graham	Greenlee
ALL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..	430	32	17	24	36	16	28
2 .....dams 1950..	552	48	24	26	39	19	37
3 .....dams 1940..	602	66	31	13	45	40	27
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..	70	26	1	3	3	2	.....
5 Timber.....dams 1950..	10	1	.....	.....	5	1	2
6 Earth and rock.....dams 1950..	351	17	18	17	28	15	31
7 Other, mixed, and not reported.....dams 1950..	121	4	5	6	3	1	4
8 Reservoirs.....enterprises reporting 1950..	180	21	25	10	6	27	1
9 .....reservoirs 1950..	269	34	34	17	9	51	1
10 .....reservoirs 1940..	333	31	110	22	5	71	.....
11 Reservoirs for which capacity was reported.....reservoirs 1950..	237	26	30	14	9	50	1
12 .....total capacity, acre-feet 1950..	3,625,679	79,949	124	3,015	2,685,024	332	28
13 .....total capacity, acre-feet 1940..	4,860,898	54,460	403	1,478	1,420,006	5,651	.....
Reservoirs by capacity:							
14 1-99 acre-feet.....reservoirs 1950..	186	4	30	12	7	50	1
15 100-199 acre-feet.....reservoirs 1950..	23	11	.....	1	.....	.....	.....
16 1,000 acre-feet and over.....reservoirs 1950..	28	11	.....	1	2	.....	.....
Reservoir dams by material:							
17 Concrete or masonry.....dams 1950..	40	.....	3	.....	2	2	.....
18 Earth and rock.....dams 1950..	222	33	31	17	6	48	1
19 Other, mixed, and not reported.....dams 1950..	7	1	.....	.....	1	1	.....
20 Canals and ditches.....enterprises reporting 1950..	607	41	40	41	43	42	44
21 .....total length, miles 1950..	4,800	259	80	68	54	176	72
22 .....total length, miles 1940..	4,178	352	39	40	18	151	35
23 Pipelines and siphons ¹.....enterprises reporting 1950..	128	1	11	10	11	7	4
24 .....total length, miles 1950..	316	(2)	30	4	13	13	2
25 .....total length, miles 1940..	344	.....	18	3	3	10	.....
26 Tunnels.....enterprises reporting 1950..	4	.....	.....	.....	.....	.....	.....
27 .....total length, feet 1950..	9,915	.....	.....	.....	.....	.....	.....
28 Flowing wells.....enterprises reporting 1950..	74	.....	32	.....	3	21	.....
29 .....wells 1950..	214	.....	116	.....	3	55	.....
30 .....wells 1940..	268	3	142	.....	1	100	.....
31 Pumped wells.....enterprises reporting 1950..	1,823	8	346	2	14	159	39
32 .....wells 1950..	4,361	9	497	2	21	369	51
33 .....wells 1940..	1,858	4	276	3	16	118	21
34 Wells for which pumping lift was reported.....wells 1949..	3,871	6	475	1	21	348	43
35 .....Average pumping lift.....feet 1949..	134	35	76	60	42	69	57
36 .....Average pumping lift.....feet 1939..	62	20	48	8	37	58	31
37 Irrigation pumps.....enterprises reporting 1950..	1,891	8	347	17	14	159	40
38 .....pumps 1950..	4,489	9	493	23	24	348	52
39 .....pumping plants 1940..	1,970	5	288	7	16	122	32
40 Electric motors used for pumping.....enterprises reporting 1950..	1,224	4	227	15	1	58	8
41 .....electric motors 1950..	3,103	5	317	19	6	134	8
42 Other motors and engines used for pumping.....enterprises reporting 1950..	870	4	143	2	13	127	32
43 .....other motors and engines 1950..	1,372	4	180	2	19	222	43
Season of Irrigation, 1949:							
44 Water delivered only before July 1.....enterprises reporting..	36	1	6	2	4	2	.....
45 .....acres irrigated..	1,572	235	92	146	30	245	.....
46 Water delivered before and after July 1.....enterprises reporting..	2,028	39	357	45	52	144	51
47 .....acres irrigated..	1,027,933	14,085	25,285	2,478	1,522	41,530	6,368
48 Water delivered only after July 1.....enterprises reporting..	156	1	5	1	3	12	5
49 .....acres irrigated..	9,198	586	164	45	59	1,730	130
Capital Investment:							
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	83,526,608	1,739,226	858,464	171,134	40,955	1,117,374	93,743
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51 Enterprises reporting.....enterprises 1950..	1,549	29	276	17	28	114	29
52 Amount.....dollars 1950..	54,048,585	660,529	1,364,596	65,642	52,671	1,390,947	153,608
53 Area irrigated direct.....acres 1949..	829,086	12,521	20,666	1,336	793	38,193	5,802
54 Total capital investment Jan. 1, 1950.....dollars 1950..	137,575,193	2,399,755	2,223,060	236,776	93,626	2,508,321	247,351
Indebtedness:³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
55 Enterprises reporting.....enterprises 1950..	66	24	.....	2	.....	12	1
56 Amount.....dollars 1950..	36,193,604	1,233,328	.....	66,583	.....	108,820	6,942
57 .....Amount.....dollars 1940..	42,592,133	235,301	.....	47,341	5,453	31,045	1,368
58 Area irrigated direct.....acres 1949..	347,395	12,131	.....	591	.....	24,864	1,389
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
59 Enterprises reporting.....enterprises 1950..	35	22	.....	2	.....	.....	.....
60 Amount.....dollars 1950..	1,459,124	1,207,328	.....	66,583	.....	.....	.....
61 Area irrigated direct.....acres 1949..	71,511	7,339	.....	591	.....	.....	.....

See footnotes at end of County Table 2, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises, data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)		Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	29	30	15	68	55	4	76	2
2	dams 1950..	37	33	27	88	69	4	99	2
3	dams 1940..	19	5	31	218	13	1	90	3
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	7	2	4	1	7		13	1
5	Timber.....dams 1950..			1					
6	Earth and rock.....dams 1950..	13	30	21	30	51	4	75	1
7	Other, mixed, and not reported.....dams 1950..	17	1	1	57	11		11	
8	Reservoirs.....enterprises reporting 1950..	9	10	8	13	7	14	31	
9	reservoirs 1950..	14	12	13	16	12	20	36	
10	reservoirs 1940..	9	2	9	39	6	9	22	1
11	Reservoirs for which capacity was reported.....reservoirs 1950..	13	9	12	9	10	20	34	
12	total capacity, acre-feet 1950..	809,236	54	9,741	22,535	3,083	86	12,472	
13	total capacity, acre-feet 1940..	2,156,500	(*)	10,952	122	1,200,137	51	11,134	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	6	9	3	7	9	20	28	
15	100-199 acre-feet.....reservoirs 1950..			6	1			4	
16	1,000 acre-feet and over.....reservoirs 1950..	7		3	1	1		2	
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	8	8	7	3		2	5	
18	Earth and rock.....dams 1950..	5	4	6	11	12	18	30	
19	Other, mixed, and not reported.....dams 1950..	1			2			1	
20	Canals and ditches.....enterprises reporting 1950..	62	40	21	95	42	4	87	9
21	total length, miles 1950..	2,301	41	168	131	694	4	161	592
22	total length, miles 1940..	2,115	37	142	143	561	7	169	369
23	Pipelines and siphons ¹.....enterprises reporting 1950..	31	6	2	11	6	2	25	2
24	total length, miles 1950..	143	4	1	12	67	1	14	11
25	total length, miles 1940..	161	2	1	62	52	4	9	19
26	Tunnels.....enterprises reporting 1950..	1			1				2
27	total length, feet 1950..	50			100				9,765
28	Flowing wells.....enterprises reporting 1950..	1	1	1	4	3		8	
29	wells 1950..	1	1	7	5	13		13	
30	wells 1940..			10				12	
31	Pumped wells.....enterprises reporting 1950..	403	14	21	192	422	42	107	63
32	wells 1950..	1,456	21	29	375	1,144	87	163	137
33	wells 1940..	506	22	12	193	446	51	73	117
34	Wells for which pumping lift was reported.....wells 1949..	1,193	18	25	357	1,011	87	157	129
35	Average pumping lift.....feet 1949..	180	32	46	123	174	45	60	50
36	Average pumping lift.....feet 1939..	95	25	32	67	90	36	32	39
37	Irrigation pumps.....enterprises reporting 1950..	405	17	24	197	423	43	134	72
38	pumps 1950..	1,468	26	33	431	1,146	89	191	156
39	pumps 1940..	519	27	17	199	459	51	88	140
40	Electric motors used for pumping.....enterprises reporting 1950..	313	5	15	170	254	33	73	54
41	electric motors 1950..	1,304	5	21	342	637	67	107	131
42	Other motors and engines used for pumping.....enterprises reporting 1950..	124	15	11	35	260	18	72	21
43	other motors and engines 1950..	172	17	13	75	492	23	84	26
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	4	2		2	4	1	6	2
45	acres irrigated..	169	48		150	127	3	127	200
46	Water delivered before and after July 1.....enterprises reporting..	376	48	36	184	428	45	173	65
47	acres irrigated..	502,981	2,084	7,202	32,071	281,442	5,996	15,625	89,264
48	Water delivered only after July 1.....enterprises reporting..	15			77	30		5	2
49	acres irrigated..	3,425			1,196	1,199		534	130
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	50,510,962	35,690	610,878	1,670,469	13,459,075	107,028	707,252	12,404,358
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	329	30	24	138	365	35	115	31
52	Amount.....dollars 1950..	17,534,258	50,965	163,385	1,523,426	14,496,070	203,505	643,825	15,745,158
53	Area irrigated direct.....acres 1949..	468,459	913	6,097	28,726	193,060	5,318	13,433	33,769
54	Total capital investment Jan. 1, 1950.....dollars 1950..	68,045,220	86,655	774,263	3,193,895	27,955,145	310,533	1,351,077	28,149,516
Indebtedness: ³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	9		9	2	2		2	3
56	Amount.....dollars 1950..	27,937,660		234,309	232,835	4,710,152		111,000	1,551,975
57	Amount.....dollars 1940..	26,569,525	37	290,844	137,244	10,849,403		97,250	4,327,322
58	Area irrigated direct.....acres 1949..	189,055		3,496	11,635	39,154		2,825	62,255
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
59	Enterprises reporting.....enterprises 1950..	2		6		1			2
60	Amount.....dollars 1950..	7,741		116,569		16,622			44,281
61	Amount.....dollars 1940..	5,886		1,641		383			55,671

¹Not available. ²Pipelines in farm-distribution systems were included in 1940, not included in 1950. ³Less than 0.5. ⁴Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State	Apache	Cochise	Coconino	Gila	Graham	Greenlee
ALL ENTERPRISES							
Cost of water to farms, 1949:							
Total cost of water to farms:¹							
1	Enterprises reporting.....enterprises..	2,325	44	377	46	58	175
2	Cost.....dollars..	14,470,293	40,768	330,306	6,145	8,014	350,154
3	Area irrigated direct.....acres..	1,053,574	15,095	26,467	2,669	1,633	45,549
4	Cost per acre irrigated direct.....dollars..	13.73	2.70	12.48	2.30	4.91	7.69
5	Total cost per irrigated acre.....dollars..	14.78	2.78	12.79	2.32	4.91	9.96
6	Total cost per acre-foot of water ².....dollars..	3.70	1.03	(³)	1.05	1.53	1.69
Enterprises by cost per acre:							
7	Less than \$1.00.....enterprises reporting..	413	9	46	17	33	31
8	.....acres irrigated..	59,322	914	2,622	1,051	647	3,235
9	\$1.00-\$1.99.....enterprises reporting..	113	25	5	7	4	24
10	.....acres irrigated..	29,023	7,701	284	1,385	504	3,094
11	\$2.00-\$4.99.....enterprises reporting..	222	5	28	6	5	36
12	.....acres irrigated..	134,448	3,280	3,726	131	79	11,165
13	\$5.00-\$9.99.....enterprises reporting..	356	2	73	3	4	25
14	.....acres irrigated..	127,892	3,120	6,352	35	215	16,600
15	\$10.00 and over.....enterprises reporting..	1,221	3	225	13	12	59
16	.....acres irrigated..	702,889	80	13,483	67	188	11,455
Cost of water for primary irrigation:							
17	Enterprises reporting.....enterprises..	2,139	43	358	42	58	111
18	Cost.....dollars..	13,657,779	39,936	327,596	6,075	8,014	282,901
19	Area supplied primary irrigation.....acres..	979,114	14,663	25,824	2,645	1,633	35,146
20	Cost per acre supplied.....dollars..	13.95	2.72	12.69	2.30	4.91	8.05
Cost of water for supplemental irrigation:							
21	Enterprises reporting.....enterprises..	244	2	20	4	.....	78
22	Cost.....dollars..	812,514	832	2,710	70	.....	67,253
23	Area supplied supplemental irrigation.....acres..	74,460	432	643	24	.....	10,403
24	Cost per acre supplied.....dollars..	10.91	1.93	4.21	2.92	.....	6.46
Cost to farms for purposes other than operation and maintenance:⁴							
25	Enterprises reporting.....enterprises..	29	2	1	.....	.....	10
26	Cost.....dollars..	952,313	14,600	500	.....	.....	81,357
27	Area irrigated direct.....acres..	402,131	4,792	906	.....	.....	24,683
28	Cost per acre irrigated.....dollars..	2.37	3.05	0.55	.....	.....	3.30
Arrearage in payments by farms, Jan. 1, 1950:⁴							
29	Enterprises reporting.....enterprises..	50	25	.....	3	.....	2
30	Amount.....dollars..	822,169	260,022	.....	9,222	.....	471
31	Area irrigated direct.....acres..	219,093	13,148	.....	681	.....	2,104
SINGLE-FARM ENTERPRISES, 1950							
32	Single-farm enterprises.....enterprises..	2,198	13	375	35	57	156
33	Area irrigated.....acres..	497,616	651	24,882	872	1,207	16,020
34	Complete-system enterprises ⁵.....enterprises..	2,118	12	374	19	57	147
35	Area irrigated.....acres..	484,938	651	24,861	735	1,207	15,461
Other farms irrigated:							
36	Enterprises reporting.....number..	84	1	5	2	1	8
37	Number of other farms.....farms..	118	2	6	2	1	12
38	Area irrigated in other farms.....acres..	12,358	30	276	31	12	461
Enterprises by origin of water supply:⁵							
39	No water from other enterprises.....enterprises reporting..	2,151	13	374	19	57	153
40	.....acres irrigated..	488,143	651	24,861	735	1,207	15,461
41	Part of water from other enterprises.....enterprises reporting..	20	.....	1	.....	.....	2
42	.....acres irrigated..	8,816	.....	21	40	.....	498
43	All of water from other enterprises.....enterprises reporting..	27	.....	.....	15	.....	1
44	.....acres irrigated..	657	.....	.....	97	.....	61
Enterprises by primary and supplemental irrigation:							
45	All primary.....enterprises reporting..	1,944	11	355	31	57	82
46	.....acres irrigated..	429,440	519	24,219	848	1,207	7,370
47	Part primary, part supplemental.....enterprises reporting..	37	.....	1	.....	.....	4
48	Primary irrigation.....acres irrigated..	10,661	.....	20	.....	.....	1,339
49	Supplemental irrigation.....acres irrigated..	12,638	.....	250	.....	.....	313
50	All supplemental.....enterprises reporting..	186	1	19	4	.....	6
51	.....acres irrigated..	44,877	132	393	24	.....	6,998
Enterprises by number of acres irrigated:⁵							
52	None.....enterprises reporting..	30	1	.....	.....	.....	6
53	1-9 acres.....enterprises reporting..	418	4	72	20	25	16
54	10-29 acres.....enterprises reporting..	370	2	84	5	20	27
55	30-59 acres.....enterprises reporting..	300	2	92	7	7	32
56	60-99 acres.....enterprises reporting..	194	1	54	.....	1	28
57	100-199 acres.....enterprises reporting..	264	3	48	2	4	25
58	200-499 acres.....enterprises reporting..	352	.....	20	1	.....	17
59	500-999 acres.....enterprises reporting..	174	.....	4	.....	.....	3
60	1,000 acres or more.....enterprises reporting..	95	.....	1	.....	.....	2

See footnotes at end of County Table 2, Part 3.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4)—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
ALL ENTERPRISES								
Cost of water to farms, 1949:								
Total cost of water to farms: ¹								
1 Enterprises reporting.....enterprises..	424	53	41	271	471	46	190	75
2 Cost.....dollars..	7,107,193	18,631	28,676	555,681	4,428,059	81,797	104,953	1,374,479
3 Area irrigated direct.....acres..	512,820	2,183	7,260	33,998	284,300	5,999	16,442	91,728
4 Cost per acre irrigated direct.....dollars..	13.86	8.53	3.95	16.34	15.58	13.64	6.38	14.98
5 Total cost per irrigated acre.....dollars..	15.31	8.53	3.98	16.77	16.09	13.64	7.12	15.15
6 Total cost per acre-foot of water ².....dollars..	3.92	2.13	1.66	4.09	6.19	(³)	1.58	2.75
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	37	17	9	90	47	4	44	3
8 Cost.....acres irrigated..	6,964	563	1,616	5,527	32,684	212	2,349	180
9 \$1.00-\$1.99.....enterprises reporting..	11	2	6	1	5	.....	11	2
10 Cost.....acres irrigated..	9,020	94	541	160	1,694	.....	1,991	1,195
11 \$2.00-\$4.99.....enterprises reporting..	45	11	6	5	27	1	23	15
12 Cost.....acres irrigated..	34,221	894	2,288	2,201	47,183	85	4,255	22,313
13 \$5.00-\$9.99.....enterprises reporting..	67	8	8	27	52	12	29	32
14 Cost.....acres irrigated..	60,904	263	2,635	1,338	20,969	1,112	5,034	6,689
15 \$10.00 and over.....enterprises reporting..	264	15	12	148	340	29	83	23
16 Cost.....acres irrigated..	401,711	369	180	24,772	181,770	4,590	2,813	61,351
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	364	53	40	261	458	46	187	75
18 Cost.....dollars..	6,480,298	18,631	28,441	536,156	4,363,751	81,797	95,935	1,361,564
19 Area supplied primary irrigation.....acres..	464,200	2,183	7,198	33,131	275,282	5,999	14,740	90,721
20 Cost per acre supplied.....dollars..	13.96	8.53	3.95	16.18	15.85	13.64	6.51	15.01
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	84	.....	3	10	19	.....	8	2
22 Cost.....dollars..	626,895	.....	235	19,525	64,308	.....	9,018	12,915
23 Area supplied supplemental irrigation.....acres..	48,620	.....	62	867	9,018	.....	1,702	1,007
24 Cost per acre supplied.....dollars..	12.89	.....	3.79	22.52	7.13	.....	5.30	12.83
Cost to farms for purposes other than operation and maintenance:⁴								
25 Enterprises reporting.....enterprises..	8	.....	2	1	.....	.....	2	3
26 Cost.....dollars..	661,660	.....	2,400	789	.....	.....	7,290	183,717
27 Area irrigated direct.....acres..	303,723	.....	2,158	789	.....	.....	2,825	62,255
28 Cost per acre irrigated.....dollars..	2.18	.....	1.11	1.00	.....	.....	2.58	2.95
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29 Enterprises reporting.....enterprises..	6	.....	10	.....	.....	.....	1	3
30 Amount.....dollars..	319,487	.....	19,866	.....	.....	.....	1,500	211,601
31 Area irrigated direct.....acres..	129,391	.....	5,220	.....	.....	.....	1,413	67,136
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	406	45	29	275	468	46	173	70
33 Area irrigated.....acres..	182,185	1,274	1,087	18,388	216,805	5,999	9,575	15,156
34 Complete-system enterprises ⁵.....enterprises..	393	45	24	264	459	45	164	69
35 Area irrigated.....acres..	176,945	1,274	946	18,388	211,236	5,909	9,259	14,716
Other farms irrigated:								
36 Enterprises reporting.....number..	32	1	.....	6	16	.....	6	2
37 Number of other farms.....farms..	51	1	.....	8	22	.....	6	2
38 Area irrigated in other farms.....acres..	6,903	6	.....	67	4,112	.....	214	19
Enterprises by origin of water supply:⁵								
39 No water from other enterprises.....enterprises reporting..	399	45	25	275	464	45	165	69
40 Cost.....acres irrigated..	176,945	1,274	946	18,388	214,441	5,909	9,259	14,716
41 Part of water from other enterprises.....enterprises reporting..	6	.....	2	.....	2	1	2	1
42 Cost.....acres irrigated..	5,214	.....	69	.....	2,104	90	175	440
43 All of water from other enterprises.....enterprises reporting..	1	.....	2	.....	2	.....	6	.....
44 Cost.....acres irrigated..	26	.....	72	.....	260	.....	141	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	319	45	25	254	447	46	166	69
46 Cost.....acres irrigated..	134,295	1,274	965	17,521	208,576	5,999	9,158	15,144
47 Part primary, part supplemental.....enterprises reporting..	21	.....	2	.....	5	.....	3	1
48 Primary irrigation.....acres irrigated..	8,504	.....	60	.....	568	.....	165	5
49 Supplemental irrigation.....acres irrigated..	10,667	.....	36	.....	1,250	.....	115	7
50 All supplemental.....enterprises reporting..	60	.....	1	10	13	.....	3	.....
51 Cost.....acres irrigated..	28,719	.....	26	867	6,411	.....	137	.....
Enterprises by number of acres irrigated:⁵								
52 None.....enterprises reporting..	6	.....	1	11	3	.....	1	.....
53 1-9 acres.....enterprises reporting..	35	14	10	120	29	7	42	7
54 10-29 acres.....enterprises reporting..	36	12	7	70	32	6	50	4
55 30-59 acres.....enterprises reporting..	42	12	5	19	24	4	34	11
56 60-99 acres.....enterprises reporting..	20	7	4	19	18	9	14	14
57 100-199 acres.....enterprises reporting..	59	.....	1	14	56	10	21	12
58 200-499 acres.....enterprises reporting..	111	.....	1	13	160	7	9	15
59 500-999 acres.....enterprises reporting..	59	.....	.....	5	96	2	2	5
60 1,000 acres or more.....enterprises reporting..	38	.....	.....	4	50	1	.....	2

¹Enterprises with reported cost of \$0 in 1949 are included.

²Average cost per irrigated acre divided by calculated average quantity of water per acre. (County Table 2, Part 4, line 66.)

³Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.

⁴Not reported by single-farm enterprises.

⁵For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

County Table 2 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)		The State ¹	Apache	Coconino	Gila	Graham	Greenlee
MULTIPLE-FARM ENTERPRISES, 1950							
1	Multiple-farm enterprises, total number ².....enterprises..	163	33	13	3	26	6
2	Area irrigated direct.....acres..	555,958	14,444	1,797	426	29,529	3,916
3	Multiple-purpose enterprises ².....enterprises..	11	3	.....	2	.....	.....
4	Area irrigated direct.....acres..	330,179	4,222	.....	.....	.....	.....
5	Complete-system enterprises ².....enterprises..	137	33	8	1	22	4
6	Area irrigated direct.....acres..	164,802	14,444	1,772	426	22,199	3,420
Enterprises by origin of water supply:²							
7	No water from other enterprises.....enterprises reporting..	152	33	13	3	23	6
8	acres irrigated..	393,941	14,444	1,797	426	25,699	3,916
9	Part of water from other enterprises.....enterprises reporting..	5	.....	.....	.....	1	.....
10	acres irrigated..	37,417	.....	.....	.....	1,500	.....
11	All water from other enterprises.....enterprises reporting..	6	.....	.....	.....	2	.....
12	acres irrigated..	124,600	.....	.....	.....	2,330	.....
Enterprises by delivery of irrigation water:²							
13	No water delivered.....enterprises reporting..	.....	.....	8	1	23	4
14	Water delivered direct to farms only.....enterprises reporting..	135	33	.....	.....	.....	.....
15	acres irrigated..	230,909	14,444	1,772	426	17,279	3,420
16	Water delivered to farms and to other enterprises.....enterprises reporting..	24	.....	3	1	3	2
17	acres irrigated..	325,049	.....	25	.....	12,250	496
18	Water delivered to other enterprises only.....enterprises reporting..	4	.....	2	1	.....	.....
Enterprises by primary and supplemental irrigation:³							
19	All primary.....enterprises reporting..	137	31	11	1	15	3
20	acres irrigated..	352,907	13,289	1,797	426	10,104	755
21	Part primary, part supplemental.....enterprises reporting..	21	1	.....	.....	10	3
22	Primary irrigation.....acres irrigated..	186,106	855	.....	.....	16,333	2,649
23	Supplemental irrigation.....acres irrigated..	16,945	300	.....	.....	3,092	512
24	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
25	acres irrigated..	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²							
26	None.....enterprises reporting..	4	.....	2	1	.....	.....
27	1-3.....enterprises reporting..	38	3	4	.....	9	2
28	4-9.....enterprises reporting..	23	3	1	.....	5	1
29	10-29.....enterprises reporting..	41	11	2	1	5	2
30	30-99.....enterprises reporting..	44	12	4	1	7	1
31	100-299.....enterprises reporting..	9	4	.....	.....	.....	.....
32	300-999.....enterprises reporting..	3	.....	.....	.....	.....	.....
33	1,000 or more.....enterprises reporting..	1	.....	.....	1	.....	.....
Enterprises by acres irrigated direct:²							
34	None.....enterprises reporting..	4	.....	2	1	.....	.....
35	1-99 acres.....enterprises reporting..	35	6	6	.....	3	.....
36	100-999 acres.....enterprises reporting..	84	23	5	1	14	4
37	1,000-2,999 acres.....enterprises reporting..	22	4	.....	.....	6	2
38	3,000-9,999 acres.....enterprises reporting..	7	.....	.....	.....	3	.....
39	10,000-29,999 acres.....enterprises reporting..	8	.....	.....	.....	.....	.....
40	30,000 acres or more.....enterprises reporting..	3	.....	.....	1	.....	.....
Quantities of water reported, 1949:³							
41	Total obtained from all sources ⁴.....enterprises reporting..	150	32	12	3	25	6
42	percent of all enterprises reporting..	6.4	69.6	25.0	5.0	13.7	9.0
43	acres irrigated..	3,754,337	52,792	5,674	1,547,111	222,285	18,188
44	Surface sources.....enterprises reporting..	109	32	12	3	12	5
45	acres irrigated..	1,777,046	52,792	5,674	1,066,151	163,298	14,282
46	Pumped wells.....enterprises reporting..	57	.....	.....	3	19	4
47	acres irrigated..	1,104,882	.....	.....	480,960	31,955	3,906
48	Other enterprises.....enterprises reporting..	10	.....	.....	.....	3	.....
49	acres irrigated..	872,409	.....	.....	.....	27,032	.....
50	Conveyance loss ⁴.....enterprises reporting..	144	32	12	3	25	6
51	acres irrigated..	1,051,214	13,802	1,373	516,219	57,917	3,610
Delivered:⁴							
52	Direct to farms.....enterprises reporting..	147	32	10	2	25	6
53	acres irrigated..	2,079,862	38,390	3,811	648,769	134,568	13,994
54	To other enterprises.....enterprises reporting..	27	.....	5	.....	3	.....
55	acres irrigated..	458,865	.....	490	332,767	29,800	584
56	For use other than irrigation.....enterprises reporting..	11	1	.....	.....	.....	.....
57	acres irrigated..	164,396	600	.....	49,356	.....	.....
Delivered direct to farms for primary irrigation:³							
58	Enterprises reporting.....enterprises..	146	31	10	1	24	6
59	Quantity delivered.....acre-feet..	1,969,948	36,841	3,811	1,366	118,984	10,840
60	Area supplied primary irrigation.....acres..	536,836	14,069	1,733	426	26,298	3,404
61	Quantity supplied per acre.....acre-feet..	3.7	2.6	2.2	3.2	4.5	3.2
Delivered direct to farms for supplemental irrigation:³							
62	Enterprises reporting.....enterprises..	19	1	.....	.....	9	3
63	Quantity delivered.....acre-feet..	65,858	949	.....	.....	14,218	1,654
64	Area supplied supplemental irrigation.....acres..	15,955	300	.....	.....	3,012	512
65	Quantity supplied per acre.....acre-feet..	4.1	3.2	.....	.....	4.7	3.2
66	Total quantity per irrigated acre ⁵.....acre-feet..	4.0	2.7	2.2	3.2	5.9	4.1
Cost of water to farms for enterprises reporting quantity delivered, 1949:³							
67	Cost for primary irrigation.....dollars..	6,298,704	37,386	1,668	448	172,110	17,070
68	Average cost per acre-foot.....dollars..	3.26	1.01	0.44	0.33	1.45	1.57
69	Cost for supplemental irrigation.....dollars..	262,746	832	.....	.....	19,688	3,916
70	Average cost per acre-foot.....dollars..	3.99	0.88	.....	.....	1.38	2.37
Measurement of water to farms, 1949:³							
71	No water measured.....enterprises reporting..	109	31	12	1	17	1
72	acres irrigated..	82,081	9,652	1,622	426	10,454	1,495
73	Part of water measured.....enterprises reporting..	14	.....	1	2	7	1
74	acres irrigated..	282,136	.....	175	.....	18,833	331
75	All water measured.....enterprises reporting..	40	2	.....	.....	2	4
76	acres irrigated..	191,741	4,792	.....	.....	242	2,090

See footnotes at end of County Table 2, Part 4.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	Maricopa	Mohave	Navajo	Pima	Pinal	Yavapai	Yuma
MULTIPLE-FARM ENTERPRISES, 1950							
1 Multiple-farm enterprises, total number ¹.....enterprises..	24	8	13	7	8	18	5
2 Area irrigated direct.....acres..	330,635	909	6,173	15,610	67,495	6,867	76,572
3 Multiple-purpose enterprises ².....enterprises..	2	1	1	2	2	2	2
4 Area irrigated direct.....acres..	221,850	.....	1,945	2,839	38,771	.....	60,552
5 Complete system enterprises ².....enterprises..	19	8	12	7	5	16	2
6 Area irrigated direct.....acres..	77,601	909	5,163	15,610	606	6,730	14,317
Enterprises by origin of water supply:²							
7 No water from other enterprises.....enterprises reporting..	21	7	13	7	6	18	3
8 acres irrigated..	294,858	769	6,173	15,610	606	6,867	21,191
9 Part of water from other enterprises.....enterprises reporting..	3	1	.....	.....	.....	.....	.....
10 acres irrigated..	35,777	140	.....	.....	.....	.....	.....
11 All water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	2	.....	2
12 acres irrigated..	.....	.....	.....	.....	66,889	.....	55,381
Enterprises by delivery of irrigation water:²							
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	20	7	11	7	6	12	3
15 acres irrigated..	80,529	709	3,238	15,610	28,724	5,230	57,943
16 Water delivered to farms and to other enterprises.....enterprises reporting..	4	1	2	.....	1	6	2
17 acres irrigated..	250,106	200	2,935	.....	38,771	1,637	18,629
18 Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....
Enterprises by primary and supplemental irrigation:³							
19 All primary.....enterprises reporting..	21	8	13	7	5	16	4
20 acres irrigated..	186,618	909	6,173	15,610	41,739	4,204	69,698
21 Part primary, part supplemental.....enterprises reporting..	3	.....	.....	.....	1	2	1
22 Primary irrigation.....acres irrigated..	134,783	.....	.....	.....	24,399	1,213	5,874
23 Supplemental irrigation.....acres irrigated..	9,234	.....	.....	.....	1,357	1,450	1,000
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
25 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²							
26 None.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....
27 1-3.....enterprises reporting..	8	3	.....	2	1	6	.....
28 4-9.....enterprises reporting..	1	3	1	.....	2	7	.....
29 10-29.....enterprises reporting..	7	1	6	2	1	1	1
30 30-99.....enterprises reporting..	4	1	6	2	1	3	2
31 100-299.....enterprises reporting..	3	.....	.....	1	.....	.....	1
32 300-999.....enterprises reporting..	.....	.....	.....	.....	2	.....	1
33 1,000 or more.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:²							
34 None.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....
35 1-99 acres.....enterprises reporting..	1	4	4	2	2	7	.....
36 100-999 acres.....enterprises reporting..	12	3	7	3	3	8	1
37 1,000-2,999 acres.....enterprises reporting..	3	1	2	1	.....	3	.....
38 3,000-9,999 acres.....enterprises reporting..	2	.....	.....	.....	.....	.....	2
39 10,000-29,999 acres.....enterprises reporting..	4	.....	.....	1	2	.....	1
40 30,000 acres or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	1
Quantities of water reported, 1949:							
41 Total obtained from all sources ⁴.....enterprises reporting..	22	5	13	6	7	15	5
42 percent of all enterprises reporting..	5.1	9.4	31.0	2.1	1.5	7.9	6.7
43 Surface sources.....acres-foot..	1,821,745	9,446	24,804	72,945	634,015	36,434	851,695
44 Pumped wells.....acres-foot..	891,165	9,446	23,314	12,979	259,800	35,419	304,634
45 Other enterprises.....acres-foot..	854,180	.....	1,490	59,966	120,248	1,015	32,051
46 Conveyance loss ⁴.....acres-foot..	76,400	.....	.....	.....	253,967	.....	515,010
47 Delivered: ⁴	.....	.....	.....	.....	.....	.....	.....
48 Direct to farms.....enterprises reporting..	22	5	13	6	6	15	5
49 To other enterprises.....enterprises reporting..	4	1	2	.....	2	6	2
50 For use other than irrigation.....enterprises reporting..	94,628	110	400	.....	263,510	408	68,935
51 Delivered direct to farms for primary irrigation: ³	.....	.....	.....	.....	.....	.....	.....
52 Enterprises reporting.....enterprises..	22	5	13	6	6	15	5
53 Quantity delivered.....acres-foot..	1,124,778	1,571	14,586	62,564	164,533	21,939	405,115
54 Area supplied primary irrigation.....acres..	320,673	389	6,173	15,235	66,138	5,141	75,572
55 Quantity supplied per acre.....acres-foot..	3.5	4.0	2.4	4.1	2.5	4.3	5.4
56 Delivered direct to farms for supplemental irrigation: ³	.....	.....	.....	.....	.....	.....	.....
57 Enterprises reporting.....enterprises..	2	.....	.....	.....	1	2	1
58 Quantity delivered.....acres-foot..	32,873	.....	.....	.....	3,135	2,474	10,555
59 Area supplied supplemental irrigation.....acres..	8,324	.....	.....	.....	1,357	1,450	1,000
60 Quantity supplied per acre.....acres-foot..	3.9	.....	.....	.....	2.3	1.7	10.3
61 Total quantity per irrigated acre ⁵.....acres-foot..	3.9	4.0	2.4	4.1	2.6	4.5	5.5
Cost of water to farms for enterprises reporting quantity delivered, 1949:³							
62 Cost for primary irrigation.....dollars..	4,397,401	543	19,961	235,643	144,673	13,455	1,250,751
63 Average cost per acre-foot.....dollars..	3.91	0.34	1.37	3.77	0.88	0.61	3.09
64 Cost for supplemental irrigation.....dollars..	214,653	.....	.....	.....	4,092	6,867	12,698
65 Average cost per acre-foot.....dollars..	6.53	.....	.....	.....	1.30	2.78	1.20
Measurement of water to farms, 1949:³							
66 No water measured.....enterprises reporting..	9	6	12	4	5	8	2
67 Part of water measured.....acres irrigated..	26,090	520	4,228	3,600	606	3,464	18,339
68 All water measured.....enterprises reporting..	1	.....	.....	.....	.....	.....	2
69 acres irrigated..	205,181	.....	1,945	.....	.....	.....	55,671
70	14	2	.....	3	2	10	1
71	99,364	389	.....	12,010	66,889	3,403	2,562

¹Data for less than 3 enterprises in Cochise and Santa Cruz Counties included only in State totals.
²For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.
³For intercounty and interstate enterprises, data represent characteristics within the county or State.
⁴For intercounty and interstate enterprises, data represent characteristics of the entire enterprise.
⁵Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

County Table 3.—ACREAGE IRRIGATED, BY DRAINAGE BASIN ORIGIN OF WATER, AND BY COUNTIES IN WHICH ACREAGE WAS LOCATED: 1950 CENSUS

[Symbols in parentheses refer to drainage basin symbols on map, "Arizona: Location of Irrigated Land, 1949." Tributaries not shown separately are included in the portion of the basin designated "direct"]

Item (For definitions and explanations, see text)	The State							
	The State	Apache	Cochise	Coconino	Gila	Graham	Greenlee	
Irrigated land, 1949.....acres..	979,114	14,663	25,824	2,645	1,633	35,146	5,749	
Area irrigated direct, by drainage basin origin of water, 1949 ¹								
All basins-Gulf of California.....acres..	1,272,502	15,095	26,467	2,669	1,633	45,549	7,431	
Excluding Colorado River (IV-A).....acres..	11,005		8,411					
Yamori (Valahni) Wash (1).....acres..	2,594							
Whitewater Draw (2).....acres..	8,411		8,411					
Colorado River, total.....acres..	1,261,497	15,095	18,056	2,669	1,633	45,549	7,431	
Colorado River below Lees Ferry, excluding Gila River (IV-B).....acres..	106,239	9,180		2,327				
Colorado River direct (1a and 1b).....acres..	88,722			926				
Virgin River (3a).....acres..	684							
Little Colorado River (4a and 4b).....acres..	16,833	9,180		1,401				
Gila River (IV-C).....acres..	1,148,872		18,056	342	1,633	45,549	7,431	
Gila River direct (1a, 1b, 1c, and 1d).....acres..	281,178		1,371		439	43,735	7,431	
Aqua Fria River (2).....acres..	76,378							
Salt River.....acres..	520,899			342	1,194			
Salt River direct (3a).....acres..	310,224				1,089			
Verde River (3b).....acres..	210,675			342	105			
Santa Cruz River (4a and 4b).....acres..	208,840							
Queen Creek (5).....acres..	40,974							
San Pedro River (6).....acres..	6,635		4,193			338		
Willcox Playa (7).....acres..	13,968		12,492			1,476		
Colorado River above Lees Ferry (IV-D): San Juan River (2a).....acres..	6,386	5,915						

Item (For definitions and explanations, see text)	The State							
	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Irrigated land, 1949.....acres..	464,200	2,183	7,198	33,131	275,282	5,999	14,740	90,721
Area irrigated direct, by drainage basin origin of water, 1949 ¹								
All basins-Gulf of California.....acres..	728,268	2,183	7,260	33,998	287,780	5,999	16,442	91,728
Excluding Colorado River (IV-A).....acres..				2,594				
Yamori (Valahni) Wash (1).....acres..				2,594				
Whitewater Draw (2).....acres..								
Colorado River, total.....acres..	728,268	2,183	7,260	31,404	287,780	5,999	16,442	91,728
Colorado River below Lees Ferry, excluding Gila River (IV-B).....acres..		2,183	6,252				1,941	84,356
Colorado River direct (1a and 1b).....acres..		1,499					1,941	84,356
Virgin River (3a).....acres..		684						
Little Colorado River (4a and 4b).....acres..			6,252					
Gila River (IV-C).....acres..	728,268		537	31,404	287,780	5,999	14,501	7,372
Gila River direct (1a, 1b, 1c, and 1d).....acres..	106,396			7	114,124		303	7,372
Aqua Fria River (2).....acres..	75,256						1,122	
Salt River.....acres..	505,750		537				13,076	
Salt River direct (3a).....acres..	308,598		537					
Verde River (3b).....acres..	197,152						13,076	
Santa Cruz River (4a and 4b).....acres..				31,263	171,578	5,999		
Queen Creek (5).....acres..	40,866				108			
San Pedro River (6).....acres..				134	1,970			
Willcox Playa (7).....acres..								
Colorado River above Lees Ferry (IV-D): San Juan River (2a).....acres..			471					

¹Acres irrigated direct by 2 or more irrigation enterprises is counted for each enterprise; acreage supplied a mixture of water from 2 or more basins by a given enterprise is counted for each basin; consequently, the sum of the acreages for a county or a drainage basin may exceed the acreage irrigated direct shown in County Table 2 or Drainage Basin Table 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises,

Item (For definitions and explanations, see text)	The State (Gulf of California)	Excluding Colorado River (IV-A)				Colorado River below Lees Ferry, excluding Gila River (IV-B)				
		Total	Yamori (Valshni) Wash (1)	White- water Draw (2)	Colorado River, total	Colorado River direct				
						Total	Below Imperial Dam (1a)	Above Imperial Dam (1b)		
ALL ENTERPRISES										
Farms and land irrigated:										
1	All irrigation enterprises.....enterprises 1950..	2,361	194	37	157	2,168	214	138	41	98
2	.....enterprises 1940..	1,911	283	136	147	1,628	(*)	(*)	(*)	(*)
3	Interbasin.....enterprises 1950..	26	1	1	.....	26	2	1	1	1
4	Farms irrigated direct per enterprise ¹.....farms 1950..	4.6'	1.8	5.4	1.0	4.8	7.9	5.6	11.8	2.9
5	Irrigated land ².....acres 1949..	979,114	10,966	2,555	8,411	968,148	104,723	87,700	71,255	16,445
6	.....acres 1939..	653,263	8,498	5,243	3,255	644,765	77,646	62,023	53,773	8,250
7	Average per enterprise.....acres 1949..	415	57	69	54	447	489	636	1,738	168
8	Average acreage irrigated direct per enterprise ³.....acres 1949..	446	57	70	54	481	496	643	1,762	168
Type of enterprises, 1950:										
9	Single-farm.....enterprises..	2,198	191	34	157	2,007	172	172	38	90
10	.....acres irrigated..	497,616	8,904	493	8,411	488,712	15,693	13,594	10,007	3,587
Mutual:										
11	Unincorporated.....enterprises..	61	(³) 2	(³) 2	.....	59	11	(³) 2	.....	(³) 2
12	.....acres irrigated..	16,503	(³)	(³)	.....	16,433	1,180	(³)	.....	(³)
13	Incorporated.....enterprises..	37	.....	.....	.....	37	10	(³) 1	.....	(³) 1
14	.....acres irrigated..	290,663	.....	.....	.....	290,663	9,820	(³)	.....	(³)
15	Commercial.....enterprises..	1	.....	.....	.....	1	.....	.....	.....	.....
16	.....acres irrigated..	(³)	.....	.....	.....	(³)	.....	.....	.....	.....
17	District.....enterprises..	12	.....	.....	.....	12	3	1	.....	.....
18	.....acres irrigated..	131,373	.....	.....	.....	131,373	8,940	(³)	(³)	.....
19	U. S. Bureau of Reclamation ⁴.....enterprises..	2	.....	.....	.....	2	2	2	.....	.....
20	.....acres irrigated..	55,671	.....	.....	.....	55,671	55,671	55,671	55,671	.....
21	U. S. Bureau of Indian Affairs ⁴.....enterprises..	48	1	1	.....	48	16	5	.....	5
22	.....acres irrigated..	60,758	2,031	2,031	.....	58,727	14,935	12,115	.....	12,115
23	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	City.....enterprises..	2	.....	.....	.....	2	.....	.....	.....	.....
26	.....acres irrigated..	(³)	.....	.....	.....	(³)	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
27	Gravity only.....enterprises reporting..	464	36	36	.....	429	89	47	1	46
28	.....acres irrigated..	65,651	2,590	2,590	.....	63,061	36,196	20,701	6,584	14,117
29	Pumped only.....enterprises reporting..	57	.....	.....	.....	57	15	11	7	4
30	.....acres irrigated..	3,398	.....	.....	.....	3,398	1,922	1,829	1,719	110
31	Gravity and pumped.....enterprises reporting..	11	.....	.....	.....	11	3	2	2	.....
32	.....acres irrigated..	7,216	.....	.....	.....	7,216	7,097	7,074	7,074	.....
33	Ground water only (pumped from wells).....enterprises reporting..	1,695	158	1	157	1,537	93	66	30	37
34	.....acres irrigated..	524,435	8,415	4	8,411	516,020	10,483	9,751	8,088	1,663
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	134	.....	.....	.....	134	14	12	1	11
36	.....acres irrigated..	452,874	.....	.....	.....	452,874	50,541	49,367	48,797	570
Stored water:										
37	None stored.....enterprises reporting..	2,199	188	35	153	2,012	168	116	39	78
38	.....acres irrigated..	648,968	10,307	2,524	7,783	638,661	37,343	32,138	16,881	15,257
39	Part stored.....enterprises reporting..	93	2	.....	.....	91	19	11	.....	11
40	.....acres irrigated..	339,779	480	.....	480	339,299	7,030	788	.....	788
41	All stored.....enterprises reporting..	69	4	2	.....	65	27	11	2	9
42	.....acres irrigated..	64,827	218	70	148	64,609	61,866	55,796	55,381	415
Sources of surface water, 1949:⁵										
43	Streams (and lakes).....enterprises reporting..	543	36	36	.....	508	98	57	11	46
44	.....acres irrigated..	521,721	2,590	2,590	.....	519,131	93,982	78,486	64,174	14,312
45	Springs.....enterprises reporting..	49	.....	.....	.....	49	29	15	.....	15
46	.....acres irrigated..	5,058	.....	.....	.....	5,058	4,422	523	.....	523
47	Flowing wells.....enterprises reporting..	74	.....	.....	.....	74	3	2	.....	2
48	.....acres irrigated..	4,896	.....	.....	.....	4,896	1,250	82	.....	82
49	Drainage water.....enterprises reporting..	19	.....	.....	.....	19	.....	.....	.....	.....
50	.....acres irrigated..	6,503	.....	.....	.....	6,503	.....	.....	.....	.....
51	Sewage.....enterprises reporting..	5	.....	.....	.....	5	.....	.....	.....	.....
52	.....acres irrigated..	629	.....	.....	.....	629	.....	.....	.....	.....
53	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
54	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶										
Irrigated land drained:										
55	Enterprises reporting.....enterprises 1949..	23	.....	.....	.....	23	6	4	3	1
56	Area supplied primary irrigation.....acres 1949..	283,530	.....	.....	.....	283,530	67,594	67,336	55,581	11,755
57	Area artificially drained.....acres 1949..	193,883	.....	.....	.....	193,883	59,983	59,725	47,970	11,755
58	.....acres 1939..	93,763	.....	.....	.....	93,763	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:										
59	Enterprises reporting.....enterprises 1949..	20	.....	.....	.....	20	10	6	3	3
60	Area supplied primary irrigation.....acres 1949..	98,691	.....	.....	.....	98,691	71,925	68,154	55,821	12,333
61	Area in need of drainage.....acres 1949..	65,943	.....	.....	.....	65,943	61,380	60,788	48,930	11,858
62	.....acres 1939..	52,126	.....	.....	.....	52,126	(*)	(*)	(*)	(*)

See footnotes at end of Drainage Basin Table 1, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the drainage basin or State, except where otherwise noted]

Item (For definitions and explanations, see text)	Gila River (IV-C)—Continued						Colorado River above Lees Ferry (IV-D): San Juan River (2a)	
	Santa Cruz River			Queen Creek (5)	San Pedro River (6)	Willcox Playa (7)		
	Total	Below Hillito (4a)	Above Hillito (4b)					
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	609	419	191	56	102	123	23
2	.....enterprises 1940..	(*)	(*)	(*)	(*)	111	92	(*)
3	Interbasin.....enterprises 1950..	7	7	1	8	1	1	
4	Farms irrigated direct per enterprise ¹.....farms 1950..	1.7	1.8	1.5	3.7	1.5	1.0	47.0
5	Irrigated land ².....acres 1949..	230,277	210,969	19,308	41,038	5,992	13,968	6,386
6	.....acres 1939..	81,663	68,436	13,227	6,981	6,009	4,615	4,000
7	Average per enterprise.....acres 1949..	378	504	101	733	59	114	278
8	Average acreage irrigated direct per enterprise ³.....acres 1949..	385	514	101	852	65	114	278
Type of enterprise, 1950:								
9	Single-farm.....enterprises..	598	412	187	53	100	123	
10	.....acres irrigated..	194,895	177,442	17,453	25,599	5,050	13,968	
Mutual:								
11	Unincorporated.....enterprises..	3	3		1			
12	.....acres irrigated..	424	424		(³)			
13	Incorporated.....enterprises..	1	1		1	1		
14	.....acres irrigated..	(³)	(³)		(³)	(³)		
15	Commercial.....enterprises..							
16	.....acres irrigated..							
17	District.....enterprises..	2	1	1	1	1		
18	.....acres irrigated..	(³)	(³)	(³)	(³)	(³)		
19	U. S. Bureau of Reclamation ⁴.....enterprises..							
20	.....acres irrigated..							
21	U. S. Bureau of Indian Affairs ⁴.....enterprises..	3	2	1				23
22	.....acres irrigated..	1,681	990	691				6,386
23	State.....enterprises..							
24	.....acres irrigated..							
25	City.....enterprises..	2		2				
26	.....acres irrigated..	(³)		(³)				
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
27	Gravity only.....enterprises reporting..	88	82	6		34	6	23
28	.....acres irrigated..	3,014	2,776	238		2,006	774	6,386
29	Pumped only.....enterprises reporting..	3	1	2		2		
30	.....acres irrigated..	455	80	375		89		
31	Gravity and pumped.....enterprises reporting..	1		1		1		
32	.....acres irrigated..	4		4		7		
33	Ground water only (pumped from wells).....enterprises reporting..	501	331	171	54	43	115	
34	.....acres irrigated..	201,052	184,842	16,210	26,135	1,854	13,143	
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	16	5	11	2	22	2	
36	.....acres irrigated..	30,241	27,760	2,481	21,591	2,679	51	
Stored water:								
37	None stored.....enterprises reporting..	591	416	176	54	93	110	16
38	.....acres irrigated..	206,513	189,533	16,980	26,135	5,950	12,176	3,559
39	Part stored.....enterprises reporting..	15	2	13	2	3	10	5
40	.....acres irrigated..	28,214	25,923	2,291	21,591	509	1,626	1,686
41	All stored.....enterprises reporting..	3	1	2		6	3	2
42	.....acres irrigated..	39	2	37		176	166	1,141
Sources of surface water, 1949:⁵								
43	Streams (and lakes).....enterprises reporting..	94	80	14	2	28	7	23
44	.....acres irrigated..	33,022	30,399	2,623	21,591	3,665	790	6,386
45	Springs.....enterprises reporting..	3		3		1		
46	.....acres irrigated..	183		183		7		
47	Flowing wells.....enterprises reporting..	5	2	3		31		
48	.....acres irrigated..	1,218	12	1,206		916		
49	Drainage water.....enterprises reporting..	9	7	2		1	1	
50	.....acres irrigated..	367	192	175		650	35	
51	Sewage.....enterprises reporting..	4	1	3				
52	.....acres irrigated..	565	100	465				
53	Other sources.....enterprises reporting..							
54	.....acres irrigated..							
Drainage of irrigated land:⁶								
Irrigated land drained:								
55	Enterprises reporting.....enterprises 1949..	6	1	5				
56	Area supplied primary irrigation.....acres 1949..	344	80	264				
57	Area artificially drained.....acres 1949..	344	80	264				
58	.....acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:								
59	Enterprises reporting.....enterprises 1949..	4		4				
60	Area supplied primary irrigation.....acres 1949..	1,961		1,961				
61	Area in need of drainage.....acres 1949..	308		308				
62	.....acres 1939..	(*)	(*)	(*)	(*)			(*)

*Not available.

¹Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise.

²Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries.

³Data for less than 3 enterprises not shown separately.

⁴Data for less than 3 enterprises shown with permission of the enterprise.

⁵Enterprises reporting water from more than 1 source are counted for each.

⁶For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises, data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State (Gulf of California)	Excluding Colorado River (IV-A)			Colorado River, total	Colorado River below Lees Ferry, excluding Gila River (IV-B)		
		Total	Yamori (Valshni) Wash (1)	White- water Draw (2)		Total	Colorado River direct	
							Total	Below Imperial Dam (1a)
ALL ENTERPRISES								
Irrigation works:								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
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32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
Season of Irrigation, 1949:								
46								
47								
48								
49								
50								
51								
Capital Investment:								
52								
53								
54								
55								
56								
Indebtedness:¹								
57								
58								
59								
60								
61								
62								
63								

See footnotes at end of Drainage Basin Table 1, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises,

Item (For definitions and explanations, see text)	Colorado River below Lees Ferry, excluding Gila River (IV-B)—Continued				Gila River (IV-C)				
	Virgin River (3a)	Little Colorado River			Total	Gila River direct			
		Total	Below Hunt (4a)	Above Hunt (4b)		Total	Below Gillespie Dam (1a)	Gillespie Dam to Laveen (1b)	
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	4	28	18	10	302	79	16	14
2	dams 1950..	5	43	23	20	389	102	19	22
3	1940..	5	63	(*)	(*)	(*)	(*)	(*)	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..		14	8	6	34	9	2	
5	Timber.....dams 1950..					8	3		
6	Earth and rock.....dams 1950..	4	27	13	14	265	68		22
7	Other, mixed, and not reported.....dams 1950..	1	2			82	22	17	
8	Reservoirs.....enterprises reporting 1950..		27	15	12	117	38		7
9	reservoirs 1950..		45	21	24	183	67		8
10	1940..	2	52	(*)	(*)	(*)	(*)	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..		36	19	17	166	65		8
12	total capacity, acre-feet 1950..		65,059	21,120	43,939	3,509,961	1,288,371		17
13	1940..	(*)	60,690	(*)	(*)	(*)	(*)	(*)	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..		7	5	2	152	63		8
15	100-999 acre-feet.....reservoirs 1950..		16	7	9	2			
16	1,000 acre-feet and over.....reservoirs 1950..		13	7	6	12	2		
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..		7	7		25	3		1
18	Earth and rock.....dams 1950..		38	14	24	153	64		7
19	Other, mixed, and not reported.....dams 1950..					5			
20	Canals and ditches.....enterprises reporting 1950..	4	43	26	17	442	131	20	16
21	total length, miles 1950..	7	306	171	135	3,742	1,199	111	356
22	1940..	20	321	(*)	(*)	(*)	(*)	(*)	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..		4	3	1	110	21		5
24	total length, miles 1950..		1	1	(?)	293	93		8
25	1940..		2	(*)	(*)	(*)	(*)	(*)	(*)
26	Tunnels.....enterprises reporting 1950..					1	1		1
27	total length, feet 1950..					50	50		
28	Flowing wells.....enterprises reporting 1950..		1	1		71	25		1
29	wells 1950..		7			205	60		1
30	1940..		13	(*)	(*)	(*)	(*)	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..		29	21	8	1,557	506	39	112
32	wells 1950..		38	29	9	3,953	1,179	113	258
33	1940..		16	(*)	(*)	(*)	(*)	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..		31	25	6	3,487	1,016	109	249
35	Average pumping lift.....feet 1949..		44	46	35	142	93	113	93
36	1939..		19	(*)	(*)	(*)	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	1	32	24	8	1,609	510	39	115
38	pumps 1950..	1	42	33	9	4,054	1,176	110	274
39	1940..	5	22	(*)	(*)	(*)	(*)	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..		19	15	4	1,016	272	31	90
41	electric motors 1950..		26	21	5	2,786	723	98	230
42	1940..		3	(*)	(*)	(*)	(*)	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	1	15	11	4	776	297	10	33
44	other motors and engines 1950..	1	17	13	4	1,255	455	12	39
45	1940..	5	19	(*)	(*)	(*)	(*)	(*)	(*)
Season of irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..		1		1	31	6	3	2
47	acres irrigated..		235		235	1,179	480	265	53
48	Water delivered before and after July 1.....enterprises reporting..	4	59	43	16	1,672	493	34	110
49	acres irrigated..	640	16,351	9,336	7,015	907,996	242,203	26,219	76,339
50	Water delivered only after July 1.....enterprises reporting..					118	35	15	1
51	acres irrigated..					7,453	2,221	330	7
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	16,918	1,552,636	(*)	(*)	(*)	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	1	37	30	7	1,281	362	22	89
54	Amount.....dollars 1950..	1,000	340,522	250,802	89,720	36,663,707	7,066,466	783,451	1,712,056
55	Area irrigated direct.....acres 1949..	35	13,122	7,940	5,182	766,603	179,916	22,197	71,213
56	Total capital investment Jan. 1, 1950.....dollars 1950..	17,918	1,893,158	(*)	(*)	(*)	(*)	(*)	(*)
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..		14	12	2	29	17		3
58	Amount.....dollars 1950..		443,799	417,799	26,000	33,197,874	3,155,252		1,445,230
59	1940..	37	236,527	(*)	(*)	(*)	(*)	(*)	(*)
60	Area irrigated direct.....acres 1949..		9,783	4,991	4,792	269,376	76,217		36,949
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61	Enterprises reporting.....enterprises 1950..		10	10		3	1		1
62	Amount.....dollars 1950..		390,524	390,524		24,363	3,000		3,000
63	1949..		3,590	3,590		6,269	3,451		3,451

*Not available.

¹Pipelines in farm-distribution systems were included in 1940, not included in 1950.

²Less than 0.5.

³Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Gila River (IV-C)—Continued														
Gila River direct—Con.		Aqua Fria River (2)	Salt River			Santa Cruz River			Queen Creek (5)	San Pedro River (6)	Willcox Playa (7)	Colorado River above Lees Ferry (IV-D): San Juan River (2a)		
Laveen to Coolidge Dam (1c)	Above Coolidge Dam (1d)		Total	Salt River direct (3a)	Verde River (3b)	Total	Below Rillito (4a)	Above Rillito (4b)						
6	43	23	94	30	64	68	59	9		31	7	22	1	
7	54	29	121	47	74	88	76	12		35	14	26	2	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3	
5	2	5	15	5	10	3	2	1		2		17	4	
3	4	18	5	4	1							2	5	
2	44	18	89	35	54	57	46	11		22	11	3	6	
4	5	6	12	3	9	28	28			11	3	4	7	
8	28	8	18	9	10	29	7	22		10	14	7	8	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	20	17	7	9	
6	51	10	31	13	18	38	7	31		45	13	(*)	10	
3,011	1,285,343	9	29	12	17	31	5	26		16	16	6	11	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	119	67	27,623	12	
5	50	8	19	7	12	30	5	25		16	16	2	14	
1	1	1	1	1	1	1	1	1				2	15	
8	2	2	11	7	4	5	2	3		3	1	17	17	
13	49	8	18	4	14	31	5	26		17	15	6	18	
488	82	28	141	63	78	91	70	21		4	24	28	19	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	57	54	99	20	
8	8	6	55	29	26	14	4	10		47	14	(*)	21	
68	17	12	113	101	12	14	3	11		5	9	9	22	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	4	5	31	23	
1	23		10	3	7	5	2	3		11	1	5	24	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	91	1	(*)	25	
133	223	93	228	181	47	513	333	181		65	55	117	26	
348	460	351	792	723	69	1,254	906	348		88	113	176	27	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	43	73	(*)	28	
232	426	342	544	476	68	1,220	887	333		111	84	170	29	
135	64	257	143	152	81	159	188	81		202	49	85	30	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	31	46	(*)	31	
133	224	94	267	182	85	518	334	185		68	117	117	32	
352	440	354	832	716	116	1,310	906	404		91	175	175	33	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	48	75	(*)	34	
74	78	71	184	126	58	386	230	156		20	57	57	35	
226	169	317	713	631	82	828	518	310		35	80	(*)	36	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3	3	(*)	37	
83	171	30	101	68	33	218	178	41		21	49	69	38	
126	278	47	123	87	36	453	377	76		56	95	95	39	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	44	77	(*)	40	
1	4	8	7	1	1	7	5	2			6	46	41	
162	74	174	134	40	40	280	207	73			171	171	42	
133	218	96	338	194	145	506	331	176		54	96	114	43	
91,704	47,941	79,742	287,856	274,297	13,559	2,31,714	213,035	18,679		46,906	6,511	13,064	5,800	
1	18	1	5	4	1	72	69	3		4	1	1	44	
15	1,869	20	3,287	3,259	28	1,793	1,645	148		54	78	586	45	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)			(*)	46	
97	155	72	245	168	77	428	295	134		52	52	91	47	
3,058,780	1,512,179	3,366,871	10,157,440	9,663,627	493,813	13,298,701	12,344,600	954,101		1,931,099	234,636	608,494	524,351	
42,932	43,574	64,144	278,978	267,807	11,171	188,249	173,239	15,010		40,192	4,298	10,826	5,981	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)		725,189	724,616	(*)	56
1	13	3	8	6	2	4	3	1					57	
1,594,260	115,762	3,010,090	22,264,246	22,153,246	111,000	3,348,727	3,326,727	22,000		1,419,559			999,956	
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)				(*)	58
13,015	26,253	22,529	110,729	107,904	2,825	37,774	36,985	789		22,127			5,981	59
1						1	1						20	61
		4,741				16,622	16,622						999,956	62
		2,435				383	383						5,981	63

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data

Item (For definitions and explanations, see text)	The State (Gulf of California)	Excluding Colorado River (IV-A)			Colorado River, total	Colorado River below Lees Ferry, excluding Gila River (IV-B)				
		Total	Vamori (Valshni) Wash	White- water Draw		Total	Colorado River direct			
							Total	Below Imperial Dam (1a)	Above Imperial Dam (1b)	
ALL ENTERPRISES										
Cost of water to farms, 1948: ¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	2,325	189	32	157	2,137	211	138	41	98
2	Cost.....dollars..	14,470,293	126,589	0	126,589	14,343,704	1,360,577	1,293,943	1,204,547	89,396
3	Area irrigated direct.....acres..	1,053,574	11,005	2,594	8,411	1,042,569	106,239	88,722	72,262	16,460
4	Cost per acre irrigated direct.....dollars..	13.73	11.50	0.00	15.05	13.76	12.81	14.58	16.67	5.43
5	Total cost per irrigated acre.....dollars..	14.78	11.54	0.00	15.05	14.82	12.99	14.75	16.90	5.44
6	Total cost per acre-foot of water ².....dollars..	3.70	2.88	0.00	(³)	3.70	2.60	2.73	3.38	0.75
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	413	33	32	1	381	49	28	2	26
8	acres irrigated..	59,322	2,599	2,594	5	56,723	3,753	1,485	120	1,365
9	\$1.00-\$1.99.....enterprises reporting..	113	1	.....	1	112	23	10	1	9
10	acres irrigated..	29,023	77	.....	77	28,946	4,329	1,268	320	948
11	\$2.00-\$4.99.....enterprises reporting..	222	10	.....	10	212	40	26	12	14
12	acres irrigated..	134,448	836	.....	836	133,612	29,069	22,896	10,348	12,548
13	\$5.00-\$9.99.....enterprises reporting..	356	33	.....	33	323	45	35	20	15
14	acres irrigated..	127,892	2,400	.....	2,400	125,492	11,830	6,075	5,510	565
15	\$10.00 and over.....enterprises reporting..	1,221	112	.....	112	1,109	54	39	6	34
16	acres irrigated..	702,889	5,093	.....	5,093	697,796	57,258	56,998	55,964	1,034
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	2,139	180	23	157	1,960	208	137	41	97
18	Cost.....dollars..	13,657,779	126,589	0	126,589	13,531,190	1,346,595	1,281,028	1,191,692	89,396
19	Area supplied primary irrigation.....acres..	979,114	10,966	2,555	8,411	968,148	104,723	87,700	71,255	16,445
20	Cost per acre supplied.....dollars..	13.95	11.54	0.00	15.05	13.98	12.86	14.61	16.72	5.44
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	244	9	9	.....	235	8	3	2	1
22	Cost.....dollars..	812,514	0	0	.....	812,514	13,982	12,915	12,915	0
23	Area supplied supplemental irrigation.....acres..	74,460	39	39	.....	74,421	1,516	1,022	1,007	15
24	Cost per acre supplied.....dollars..	10.91	0.00	0.00	.....	10.92	9.22	12.64	12.83	0.00
Cost to farms for purposes other than operation and maintenance: ⁴										
25	Enterprises reporting.....enterprises..	29	.....	.....	.....	29	7	3	3	.....
26	Cost.....dollars..	952,313	.....	.....	.....	952,313	200,717	183,717	183,717	.....
27	Area irrigated direct.....acres..	402,131	.....	.....	.....	402,131	69,205	62,255	62,255	.....
28	Cost per acre irrigated.....dollars..	2.37	.....	.....	.....	2.37	2.90	2.95	2.95	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴										
29	Enterprises reporting.....enterprises..	50	.....	.....	.....	50	21	3	2	1
30	Amount.....dollars..	822,169	.....	.....	.....	822,169	374,626	211,601	17,109	194,492
31	Area irrigated direct.....acres..	219,093	.....	.....	.....	219,093	80,342	67,136	55,381	11,755
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	2,198	191	34	157	2,007	172	127	38	90
33	Area irrigated.....acres..	497,616	8,904	493	8,411	488,712	15,693	13,594	10,007	3,587
34	Complete-system enterprises ⁶.....enterprises..	2,118	186	29	157	1,932	164	125	37	88
35	Area irrigated.....acres..	484,938	8,904	493	8,411	476,034	15,002	13,044	9,887	3,157
Other farms irrigated:										
36	Enterprises reporting.....number..	84	2	.....	2	82	6	5	2	3
37	Number of other farms.....farms..	118	2	.....	2	116	7	5	2	3
38	Area irrigated in other farms.....acres..	12,358	194	.....	194	12,164	110	80	19	61
Enterprises by origin of water supply: ⁶										
39	No water from other enterprises.....enterprises reporting..	2,151	191	34	157	1,960	166	125	37	88
40	acres irrigated..	488,143	8,904	493	8,411	479,239	15,002	13,044	9,887	3,157
41	Part of water from other enterprises.....enterprises reporting..	20	.....	.....	.....	20	3	1	1	1
42	acres irrigated..	8,816	.....	.....	.....	8,816	509	440	120	320
43	All of water from other enterprises.....enterprises reporting..	27	.....	.....	.....	27	3	1	.....	1
44	acres irrigated..	657	.....	.....	.....	657	182	110	.....	110
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	1,944	177	20	157	1,767	164	125	37	89
46	acres irrigated..	429,440	8,865	454	8,411	420,575	15,412	13,567	9,995	3,572
47	Part primary, part supplemental.....enterprises reporting..	37	.....	.....	.....	37	3	1	1	.....
48	Primary irrigation.....acres irrigated..	10,661	.....	.....	.....	10,661	65	5	5	.....
49	Supplemental irrigation.....acres irrigated..	12,638	.....	.....	.....	12,638	43	7	7	.....
50	All supplemental.....enterprises reporting..	186	9	9	.....	177	3	1	.....	1
51	acres irrigated..	44,877	39	39	.....	44,838	173	15	.....	15
Enterprises by number of acres irrigated: ⁶										
52	None.....enterprises reporting..	31	5	5	.....	26	4	.....	.....	.....
53	1-9 acres.....enterprises reporting..	418	35	13	22	383	22	30	1	29
54	10-29 acres.....enterprises reporting..	370	51	13	38	319	34	25	2	23
55	30-59 acres.....enterprises reporting..	300	49	2	47	251	32	24	4	20
56	60-99 acres.....enterprises reporting..	194	26	.....	26	168	22	17	9	8
57	100-199 acres.....enterprises reporting..	264	21	1	20	243	18	13	6	7
58	200-499 acres.....enterprises reporting..	352	4	.....	4	348	16	14	12	3
59	500-999 acres.....enterprises reporting..	174	.....	.....	.....	174	3	3	3	.....
60	1,000 acres or more.....enterprises reporting..	95	.....	.....	.....	95	1	1	1	.....

See footnotes at end of Drainage Basin Table 1, Part 3.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Colorado River below Lees Ferry, excluding Gila River (IV-B)—Continued				Gila River (IV-C)										
Virgin River	Little Colorado River			Total	Gila River direct					Aqua Fria River	Salt River			
	Total	Below Hunt	Above Hunt		Total	Below Gillespie Dam	Gillespie Dam to Laveen	Laveen to Coolidge Dam	Above Coolidge Dam		Total	Salt River direct	Verde River	
(3a)	(4a)	(4b)		(1a)	(1b)	(1c)	(1d)	(2)	(3a)	(3b)				
5	68	48	20	1,903	575	54	118	139	265	108	364	220	144	1
2,123	64,511	31,399	33,112	12,976,741	2,492,883	235,127	1,143,852	725,641	388,263	1,349,611	3,822,110	3,739,963	82,147	2
684	16,833	9,394	7,439	929,944	251,772	27,989	77,572	93,248	52,963	80,771	294,306	280,629	13,677	3
3.10	3.83	3.34	4.45	13.95	9.90	8.40	14.75	7.78	7.33	16.71	12.99	13.33	6.01	4
3.10	3.95	3.36	4.73	15.14	10.96	8.40	16.11	8.29	9.50	19.37	14.23	14.57	6.87	5
0.65	1.36	1.53	1.31	4.09	2.55	2.40	3.16	3.32	1.64	4.72	4.07	4.42	1.53	6
2	19	10	9	332	91	17	7	10	57	15	77	41	36	7
79	2,189	1,275	914	52,970	34,228	483	734	29,326	3,685	3,779	4,722	2,537	2,185	8
.....	13	12	1	66	40	1	2	3	34	2	15	9	6	9
.....	3,061	3,016	45	18,231	7,478	875	290	1,359	4,954	650	8,955	7,638	1,317	10
3	11	6	5	172	84	4	19	13	48	7	44	24	20	11
605	5,568	2,288	3,280	104,543	48,980	14,636	3,205	17,277	13,862	699	18,537	14,884	3,653	12
.....	10	8	2	278	111	16	27	23	45	12	47	24	23	13
.....	5,755	2,635	3,120	113,662	66,262	5,818	26,776	13,969	19,699	8,203	17,795	13,194	4,601	14
.....	15	12	3	1,055	249	16	63	90	81	72	181	122	59	15
.....	260	180	80	640,538	94,824	6,177	46,567	31,317	10,763	67,440	244,297	242,376	1,921	16
5	66	47	19	1,729	481	54	107	132	189	104	320	182	138	17
2,123	63,444	31,164	32,280	12,178,209	2,276,826	235,127	1,051,245	678,197	312,257	1,128,998	3,592,338	3,519,279	73,059	18
684	16,339	9,332	7,007	857,039	227,444	27,989	71,001	87,576	40,878	69,662	268,658	256,692	11,965	19
3.10	3.88	3.34	4.61	14.21	10.01	8.40	14.81	7.74	7.64	16.21	13.37	13.71	6.11	20
.....	5	3	2	227	117	.....	16	9	93	11	61	51	10	21
.....	1,067	235	832	798,532	216,057	.....	92,607	47,444	76,006	220,613	229,772	220,684	9,080	22
.....	494	62	432	72,905	24,328	.....	6,571	5,672	12,085	11,109	25,648	23,937	1,711	23
.....	2.16	3.79	1.93	10.95	8.88	.....	14.09	8.36	6.29	19.86	8.96	9.22	5.31	24
.....	4	2	2	22	14	.....	4	.....	10	3	6	4	2	25
.....	17,000	2,400	14,600	751,596	242,329	.....	160,972	.....	81,357	121,364	333,736	326,446	7,290	26
.....	6,950	2,158	4,792	332,926	78,301	.....	53,618	.....	24,683	22,529	208,810	205,985	2,825	27
.....	2.45	1.11	3.05	2.26	3.09	.....	3.00	.....	3.30	5.39	1.60	1.58	2.58	28
.....	18	15	3	9	3	.....	1	.....	2	2	7	6	1	29
.....	163,025	158,705	4,320	321,458	720	.....	249	.....	471	15,398	296,186	294,686	1,500	30
.....	13,206	7,259	5,947	132,933	3,055	.....	951	.....	2,104	20,094	103,032	101,619	1,413	31
(5) 1	44	31	13	1,835	542	52	116	134	241	105	332	209	123	32
.....	2,039	1,388	651	473,019	107,545	13,196	23,954	51,303	19,092	58,242	67,720	61,011	6,709	33
(5) 1	38	26	12	1,768	521	49	112	133	228	104	302	203	99	34
.....	1,898	1,247	651	461,032	101,176	9,915	23,374	49,519	18,368	57,465	66,775	60,409	6,366	35
.....	1	.....	1	76	22	.....	4	6	12	7	20	16	4	36
.....	2	.....	2	109	28	.....	4	7	17	12	31	27	4	37
.....	30	.....	30	12,054	1,969	.....	230	1,051	688	2,462	2,181	2,025	156	38
(5) 1	40	27	13	1,794	532	50	114	133	236	104	306	206	100	39
.....	1,898	1,247	651	464,237	101,176	9,915	23,374	49,519	18,368	57,465	66,775	60,409	6,366	40
.....	2	2	.....	17	9	2	2	1	4	1	5	2	3	41
.....	69	69	.....	8,307	6,308	3,281	580	1,784	663	777	791	576	215	42
.....	2	2	.....	24	1	.....	.....	.....	.....	.....	21	1	20	43
.....	72	72	.....	475	61	.....	.....	.....	61	.....	154	26	128	44
(5) 1	38	27	11	1,603	428	51	100	125	153	96	270	156	114	45
.....	1,785	1,266	519	405,163	86,525	13,196	19,061	44,996	9,272	49,595	41,595	35,272	6,323	46
.....	2	2	.....	34	9	.....	3	2	4	5	14	12	2	47
.....	60	60	.....	10,596	3,020	.....	1,045	635	1,339	3,138	2,833	2,712	125	48
.....	36	36	.....	12,595	2,482	.....	1,004	1,165	313	2,484	5,519	5,404	115	49
.....	2	1	.....	174	93	.....	11	7	76	44	38	6	50	50
.....	158	26	132	44,665	15,518	.....	2,843	4,507	8,168	3,025	17,769	17,623	146	51
.....	2	1	1	24	11	1	2	.....	8	.....	4	3	1	52
.....	14	10	4	339	85	8	20	13	44	16	64	29	35	53
.....	9	7	2	285	72	7	14	7	44	14	67	34	33	54
.....	8	6	2	219	87	11	18	8	50	10	48	23	25	55
.....	1	3	1	146	55	5	9	5	36	4	21	12	9	56
.....	4	2	3	225	87	7	18	25	37	11	43	31	12	57
.....	2	2	.....	332	85	5	23	40	18	23	45	36	7	58
.....	.....	.....	.....	171	35	3	7	23	2	13	24	23	1	59
.....	.....	.....	.....	94	25	5	5	13	2	14	16	16	.....	60

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	Gila River (IV-C)—Continued						Colorado River above Lees Ferry (IV-D) San Juan River (2a)	
	Santa Cruz River			Queen Creek (5)	San Pedro River (6)	Willcox Plays (7)		
	Total	Below Willito (4a)	Above Willito (4b)					
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	599	414	186	56	102	123	23
2	Cost.....dollars..	4,394,530	4,091,087	303,443	696,129	48,547	172,931	6,386
3	Area irrigated direct.....acres..	234,766	215,458	19,308	47,726	6,635	13,968	4,386
4	Cost per acre irrigated direct.....dollars..	18.72	18.99	15.72	14.59	7.32	12.38	1.00
5	Total cost per irrigated acre.....dollars..	19.08	19.39	15.72	16.96	8.10	12.38	1.00
6	Total cost per acre-foot of water ².....dollars..	6.15	6.69	(³)	(³)	(³)	(³)	0.56
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	102	85	17	29	18	.....	.....
8	.....acres irrigated..	7,288	5,449	1,839	1,207	1,745	.....	.....
9	\$1.00-\$1.99.....enterprises reporting..	1	1	.....	1	5	2	23
10	.....acres irrigated..	60	60	.....	520	451	117	6,386
11	\$2.00-\$4.99.....enterprises reporting..	15	12	3	1	12	10	.....
12	.....acres irrigated..	31,819	29,819	2,000	1,310	1,741	1,457	.....
13	\$5.00-\$9.99.....enterprises reporting..	65	30	35	8	19	20	.....
14	.....acres irrigated..	12,697	10,588	2,109	4,623	1,929	2,153	.....
15	\$10.00 and over.....enterprises reporting..	416	286	131	46	37	73	.....
16	.....acres irrigated..	182,902	169,542	13,360	41,273	1,307	8,495	.....
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	592	407	186	45	83	123	23
18	Cost.....dollars..	4,329,391	4,025,948	303,443	631,888	45,837	172,931	6,386
19	Area supplied primary irrigation.....acres..	230,277	210,969	19,308	41,038	5,992	13,968	4,386
20	Cost per acre supplied.....dollars..	18.80	19.08	15.72	15.40	7.65	12.38	1.00
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	12	12	.....	14	20	.....	.....
22	Cost.....dollars..	65,139	65,139	.....	64,241	2,710	.....	.....
23	Area supplied supplemental irrigation.....acres..	4,489	4,489	.....	6,688	643	.....	.....
24	Cost per acre supplied.....dollars..	14.51	14.51	.....	9.61	4.21	.....	.....
Cost to farms for purposes other than operation and maintenance:⁴								
25	Enterprises reporting.....enterprises..	1	.....	1	2	1	.....	.....
26	Cost.....dollars..	789	.....	789	52,878	500	.....	.....
27	Area irrigated direct.....acres..	789	.....	789	21,591	906	.....	.....
28	Cost per acre irrigated.....dollars..	1.00	.....	1.00	2.45	0.55	.....	.....
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29	Enterprises reporting.....enterprises..	.....	.....	.....	1	.....	.....	20
30	Amount.....dollars..	.....	.....	.....	9,154	.....	.....	126,085
31	Area irrigated direct.....acres..	.....	.....	.....	6,752	.....	.....	5,818
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	598	412	187	53	100	123	.....
33	Area irrigated.....acres..	194,895	177,442	17,453	25,599	5,050	13,968	.....
34	Complete-system enterprises ⁶.....enterprises..	584	403	182	53	98	123	.....
35	Area irrigated.....acres..	191,290	173,927	17,363	25,599	4,759	13,968	.....
Other farms irrigated:								
36	Enterprises reporting.....number..	18	15	3	6	2	1	.....
37	Number of other farms.....farms..	26	22	4	8	3	1	.....
38	Area irrigated in other farms.....acres..	3,963	3,951	12	1,397	77	5	.....
Enterprises by origin of water supply:⁶								
39	No water from other enterprises.....enterprises reporting..	594	409	186	53	99	123	.....
40	.....acres irrigated..	194,225	176,862	17,363	25,599	5,029	13,968	.....
41	Part of water from other enterprises.....enterprises reporting..	2	1	1	.....	1	.....	.....
42	.....acres irrigated..	410	320	90	.....	21	.....	.....
43	All of water from other enterprises.....enterprises reporting..	2	2	.....	.....	.....	.....	.....
44	.....acres irrigated..	260	260	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	578	396	183	39	80	123	.....
46	.....acres irrigated..	191,312	173,859	17,453	17,781	4,387	13,968	.....
47	Part primary, part supplemental.....enterprises reporting..	4	4	.....	3	1	.....	.....
48	.....acres irrigated..	451	451	.....	1,130	20	.....	.....
49	Supplemental irrigation.....acres irrigated..	400	400	.....	1,460	250	.....	.....
50	All supplemental.....enterprises reporting..	7	7	.....	11	19	.....	.....
51	.....acres irrigated..	2,732	2,732	.....	5,228	393	.....	.....
Enterprises by number of acres irrigated:⁶								
52	None.....enterprises reporting..	9	5	4	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	129	61	68	.....	32	13	.....
54	10-29 acres.....enterprises reporting..	80	39	41	.....	26	24	.....
55	30-59 acres.....enterprises reporting..	30	15	15	1	23	20	.....
56	60-99 acres.....enterprises reporting..	37	18	19	.....	6	23	.....
57	100-199 acres.....enterprises reporting..	51	34	18	5	4	23	.....
58	200-499 acres.....enterprises reporting..	133	119	14	24	6	15	.....
59	500-999 acres.....enterprises reporting..	82	78	4	18	1	4	.....
60	1,000 acres or more.....enterprises reporting..	47	43	4	5	.....	1	.....

¹Enterprises with reported cost of \$0 in 1949 are included.

²Average cost per irrigated acre divided by calculated average quantity of water per acre. (Drainage Basin Table 1, Part 4, line 66.)

³Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.

⁴Not reported by single-farm enterprises.

⁵Data for less than 3 enterprises not shown separately.

⁶For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

Drainage Basin Table 1 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State ¹ (Gulf of California)	Excluding Colorado River (IV-A)			Colorado River below Lees Ferry, excluding Gila River (IV-B)				
		Total	Yamori (Valshni) Wash	White-water Draw	Colorado River total ¹	Total	Colorado River direct		
							Total	Below Imperial Dam	Above Imperial Dam
			(1)	(2)			(1a)	(1b)	
MULTIPLE-FARM ENTERPRISES, 1950									
1 Multiple-farm enterprises, total number ².....enterprises..	163	3	3	.....	161	42	11	3	8
2 Area irrigated direct.....acres..	555,958	2,101	2,101	.....	553,857	90,546	75,128	62,255	12,873
3 Multiple-purpose enterprises ².....enterprises..	11	1	1	.....	11	6	-2	1	1
4 Area irrigated direct.....acres..	330,179	2,031	2,031	.....	328,148	66,719	60,552	48,797	11,755
5 Complete-system enterprises ².....enterprises..	137	3	3	.....	135	37	7	.....	7
6 Area irrigated direct.....acres..	164,802	2,101	2,101	.....	162,701	27,211	12,783	.....	12,783
Enterprises by origin of water supply:²									
7 No water from other enterprises.....enterprises reporting..	152	3	3	.....	150	39	8	1	7
8 Part of water from other enterprises.....acres irrigated..	393,941	2,101	2,101	.....	391,840	35,025	19,607	6,874	12,733
9 All water from other enterprises.....enterprises reporting..	5	.....	.....	.....	5	1	1	.....	1
10 Area irrigated direct.....acres irrigated..	37,417	.....	.....	.....	37,417	140	140	.....	140
11 All water from other enterprises.....enterprises reporting..	6	.....	.....	.....	6	2	2	.....	2
12 Area irrigated direct.....acres irrigated..	124,600	.....	.....	.....	124,600	55,381	55,381	.....	.....
Enterprises by delivery of irrigation water:²									
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....acres irrigated..	135	3	3	.....	133	36	8	2	6
15 Water delivered to farms and to other enterprises.....acres irrigated..	230,909	2,101	2,101	.....	228,808	68,692	56,409	55,381	1,028
16 All water delivered to farms and to other enterprises.....acres irrigated..	24	.....	.....	.....	24	6	3	1	2
17 Water delivered to other enterprises only.....acres irrigated..	325,049	.....	.....	.....	325,049	21,854	18,719	6,874	11,845
18 All water delivered to other enterprises only.....enterprises reporting..	4	.....	.....	.....	4	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:³									
19 All primary.....enterprises reporting..	137	3	3	.....	137	39	10	2	8
20 Part primary, part supplemental.....acres irrigated..	352,907	2,101	2,101	.....	350,806	82,517	68,254	55,381	12,873
21 All primary, part supplemental.....enterprises reporting..	21	.....	.....	.....	21	2	1	.....	.....
22 Part primary, part supplemental.....acres irrigated..	186,106	.....	.....	.....	186,106	6,729	5,874	.....	.....
23 All primary, part supplemental.....acres irrigated..	16,945	.....	.....	.....	16,945	1,300	1,000	.....	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
25 All supplemental.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²									
26 None.....enterprises reporting..	4	.....	.....	.....	4	.....	.....	.....	.....
27 1-3.....enterprises reporting..	38	1	1	.....	37	7	3	.....	3
28 4-9.....enterprises reporting..	23	.....	.....	.....	23	7	2	.....	2
29 10-29.....enterprises reporting..	41	1	1	.....	40	10	1	.....	1
30 30-99.....enterprises reporting..	44	.....	.....	.....	44	16	3	2	1
31 100-299.....enterprises reporting..	9	1	1	.....	9	1	1	.....	1
32 300-999.....enterprises reporting..	3	.....	.....	.....	3	1	1	.....	1
33 1,000 or more.....enterprises reporting..	1	.....	.....	.....	1	.....	.....	.....	.....
Enterprises by acres irrigated direct:²									
34 None.....enterprises reporting..	4	.....	.....	.....	4	.....	.....	.....	.....
35 1-99 acres.....enterprises reporting..	35	2	2	.....	33	11	3	.....	3
36 100-999 acres.....enterprises reporting..	84	.....	.....	.....	84	21	4	.....	4
37 1,000-2,999 acres.....enterprises reporting..	22	1	1	.....	22	6	.....	.....	.....
38 3,000-9,999 acres.....enterprises reporting..	7	.....	.....	.....	7	2	2	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	8	.....	.....	.....	8	1	1	.....	1
40 30,000 acres or more.....enterprises reporting..	3	.....	.....	.....	3	1	1	.....	.....
Quantities of water reported, 1949:³									
41 Total obtained from all sources ⁴.....enterprises reporting..	150	3	.....	.....	148	37	9	3	6
42 percent of all enterprises reporting.....	6.4	1.5	8.1	.....	6.8	17.3	6.5	7.3	6.1
43 Surface sources.....acre-feet..	3,754,337	11,830	11,830	.....	3,752,507	909,857	837,551	699,795	137,756
44 Pumped wells.....acre-feet..	1,777,046	10,039	10,030	.....	1,777,016	379,206	308,390	170,634	137,756
45 Other enterprises.....acre-feet..	57	1	1	.....	56	3	1	.....	.....
46 Conveyance loss ⁴.....acre-feet..	1,104,882	1,800	1,800	.....	1,103,082	15,641	14,151	14,151	.....
47 Delivered ⁴.....acre-feet..	10	.....	.....	.....	10	2	2	.....	.....
48 Direct to farms.....acre-feet..	872,409	.....	.....	.....	872,409	515,010	515,010	515,010	.....
49 To other enterprises.....acre-feet..	144	3	3	.....	142	36	9	3	6
50 For use other than irrigation.....acre-feet..	1,051,214	705	705	.....	1,051,009	241,520	219,572	178,320	41,252
51 Delivered direct to farms for primary irrigation: ³	.....	.....	.....	.....	.....	.....	.....	.....	.....
52 Enterprises reporting.....enterprises..	146	3	3	.....	144	36	9	3	6
53 Quantity delivered.....acre-feet..	1,969,948	8,465	8,465	.....	1,961,483	437,062	395,042	302,590	92,452
54 Area supplied primary irrigation.....acres..	536,836	2,101	2,101	.....	534,735	88,587	73,953	61,255	12,698
55 Quantity supplied per acre.....acre-feet..	3.7	4.0	4.0	.....	3.7	4.9	5.3	4.9	7.3
56 Delivered direct to farms for supplemental irrigation: ³	.....	.....	.....	.....	.....	.....	.....	.....	.....
57 Enterprises reporting.....enterprises..	19	.....	.....	.....	19	2	1	.....	.....
58 Quantity delivered.....acre-feet..	65,858	.....	.....	.....	65,858	11,504	10,555	10,555	.....
59 Area supplied supplemental irrigation.....acres..	15,955	.....	.....	.....	15,955	1,300	1,000	1,000	.....
60 Quantity supplied per acre.....acre-feet..	4.1	.....	.....	.....	4.1	8.8	10.6	10.6	.....
61 Total quantity per irrigated acre ⁵.....acre-feet..	4.0	4.0	4.0	.....	4.0	5.0	5.4	5.0	7.3
Cost of water to farms for enterprises reporting quantity delivered, 1949:³									
62 Cost for primary irrigation.....dollars..	6,298,704	.....	.....	.....	6,298,704	1,240,919	1,188,462	1,135,436	53,026
63 Average cost per acre-foot.....dollars..	3.20	.....	.....	.....	3.21	2.85	3.01	3.75	0.57
64 Cost for supplemental irrigation.....dollars..	262,746	.....	.....	.....	262,746	13,530	12,698	12,698	.....
65 Average cost per acre-foot.....dollars..	3.99	.....	.....	.....	3.99	1.18	1.20	1.20	.....
Measurement of water to farms, 1949:³									
66 No water measured.....enterprises reporting..	100	3	3	.....	107	33	7	1	6
67 Part of water measured.....acres irrigated..	82,081	2,101	2,101	.....	79,980	27,484	19,192	6,584	12,608
68 All water measured.....enterprises reporting..	14	.....	.....	.....	14	4	3	.....	.....
69 Area irrigated direct.....acres irrigated..	282,136	.....	.....	.....	282,136	57,691	55,846	55,671	175
70 All water measured.....acres irrigated..	40	.....	.....	.....	40	5	1	.....	.....
71 Total.....acres irrigated..	191,741	.....	.....	.....	191,741	5,271	90	.....	90

See footnotes at end of Drainage Basin Table 1, Part 4.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only

Item (For definitions and explanations, see text)	Colorado River below Lees Ferry, excluding Gila River (IV-B)—Continued				Gila River (IV-C)			
	Virgin River	Little Colorado River			Total ¹	Gila River direct		
		Total	Below Hunt	Above Hunt		Total	Below Gillespie Dam	Gillespie Dam to Laveen
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ².....enterprises..	4	27	18	9	96	45	3	4
2 Area irrigated direct.....acres..	624	14,794	8,006	6,788	456,925	144,227	14,793	53,618
3 Multiple-purpose enterprises ².....enterprises..		4	1	3	5	4		1
4 Area irrigated direct.....acres..		6,167	1,945	4,222	261,429	29,684		16,669
5 Complete-system enterprises ².....enterprises..	4	26	17	9	75	35	2	4
6 Area irrigated direct.....acres..	624	13,804	7,016	6,788	129,104	83,192	2,717	53,618
Enterprises by origin of water supply: ²								
7 No water from other enterprises.....enterprises reporting..	4	27	18	9	88	40	3	4
8 Area irrigated.....acres irrigated..	624	14,794	8,006	6,788	350,429	99,264	14,793	53,618
9 Part of water from other enterprises.....enterprises reporting..					4	1		
10 Area irrigated.....acres irrigated..					37,277	1,500		
11 All water from other enterprises.....enterprises reporting..					4	4		
12 Area irrigated.....acres irrigated..					69,219	43,463		
Enterprises by delivery of irrigation water: ²								
13 No water delivered.....enterprises reporting..								
14 Water delivered direct to farms only.....enterprises reporting..	3	25	16	9	74	36	2	3
15 Area irrigated.....acres irrigated..	424	11,859	5,071	6,788	153,730	73,843	2,717	21,071
16 Water delivered to farms and to other enterprises.....enterprises reporting..	1	2	2		18	8	1	1
17 Area irrigated.....acres irrigated..	200	2,935	2,935		303,195	70,384	12,076	32,547
18 Water delivered to other enterprises only.....enterprises reporting..					4	1		
Enterprises by primary and supplemental irrigation: ³								
19 All primary.....enterprises reporting..	4	25	18	7	73	29	3	2
20 Area irrigated.....acres irrigated..	624	13,639	8,006	5,633	261,903	88,143	14,793	20,120
21 Part primary, part supplemental.....enterprises reporting..		1		1	19	15		
22 Primary irrigation.....acres irrigated..		855		855	179,377	49,756		30,774
23 Supplemental irrigation.....acres irrigated..		300		300	15,645	6,328		2,724
24 All supplemental.....enterprises reporting..								
25 Area irrigated.....acres irrigated..								
Enterprises by number of farms irrigated direct: ²								
26 None.....enterprises reporting..					4	1		
27 1-3.....enterprises reporting..	1	3		3	30	13	2	
28 4-9.....enterprises reporting..	1	4	2	2	15	6		
29 10-29.....enterprises reporting..	1	8	6	2	20	13	1	2
30 30-99.....enterprises reporting..	1	12	10	2	20	8		
31 100-299.....enterprises reporting..					4	2		2
32 300-999.....enterprises reporting..					2	2		
33 1,000 or more.....enterprises reporting..					1			
Enterprises by acres irrigated direct: ²								
34 None.....enterprises reporting..					4	1		
35 1-99 acres.....enterprises reporting..	2	6	4	2	16	3		
36 100-999 acres.....enterprises reporting..	1	16	12	4	47	22	1	
37 1,000-2,999 acres.....enterprises reporting..	1	5	2	3	15	9	1	
38 3,000-9,999 acres.....enterprises reporting..					5	4		1
39 10,000-29,999 acres.....enterprises reporting..					7	5	1	2
40 30,000 or more.....enterprises reporting..					2	1		1
Quantities of water reported, 1949:								
41 Total obtained from all sources ⁴.....enterprises reporting..	3	25	17	8	88	43	3	4
42 percent of all enterprises reporting..	60.0	35.2	34.7	36.4	4.5	7.3	5.5	3.3
43 Surface sources.....acres-fee..	9,189	63,117	28,750	34,367	2,827,930	1,335,162	83,016	377,826
44 Pumped wells.....acres-fee..	3	24	16	8	51	23	1	3
45 Other enterprises.....acres-fee..	9,189	61,627	27,260	34,367	1,383,090	522,199	3,200	80,141
46 Conveyance loss ⁴.....acres-fee..	2	25	17	8	83	43	3	4
47 Delivered: ⁴	2,254	19,694	9,577	10,117	806,545	354,071	18,242	71,260
48 Direct to farms.....acres-fee..	3	25	17	8	85	42	3	4
49 To other enterprises.....acres-fee..	6,635	41,223	17,573	23,650	1,576,339	671,199	51,974	303,668
50 For use other than irrigation.....acres-fee..	110	400	400		389,168	309,592	12,800	2,898
51 Delivered direct to farms for primary irrigation: ³	190	1,800	1,200	600	55,878	300		
52 Enterprises reporting.....enterprises..	3	24	17	7	85	42	3	4
53 Quantity delivered.....acre-feet..	1,346	39,674	17,573	22,101	1,513,645	526,310	51,974	238,851
54 Area supplied primary irrigation.....acres..	279	14,355	7,942	6,413	439,762	137,568	14,793	50,894
55 Quantity supplied per acre.....acre-feet..	4.8	2.8	2.2	3.4	3.4	3.8	3.5	4.7
56 Delivered direct to farms for supplemental irrigation: ³								
57 Enterprises reporting.....enterprises..	1			1	17	14		2
58 Quantity delivered.....acre-feet..	949			949	54,354	28,577		12,705
59 Area supplied supplemental irrigation.....acres..	300			300	14,655	6,248		2,724
60 Quantity supplied per acre.....acre-feet..	3.2			3.2	3.7	4.6		4.7
61 Total quantity per irrigated acre ⁵.....acre-feet..	4.8	2.9	2.2	3.6	3.7	4.3	3.5	5.1
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³								
62 Cost for primary irrigation.....dollars..	543	51,914	22,184	29,730	5,051,399	1,136,266	122,850	757,628
63 Average cost per acre-foot.....dollars..	0.40	1.31	1.26	1.35	3.34	2.16	2.36	3.17
64 Cost for supplemental irrigation.....dollars..	832			832	249,216	82,566		58,962
65 Average cost per acre-foot.....dollars..	0.88			0.88	4.59	2.89		4.64
Measurement of water to farms, 1949: ³								
66 No water measured.....enterprises reporting..	2	24	17	7	51	23	1	1
67 Area irrigated.....acres irrigated..	235	8,057	6,061	1,996	46,110	28,714	12,076	3,451
68 Part of water measured.....enterprises reporting..		1	1		10	9		
69 Area irrigated.....acres irrigated..		1,945	1,945		224,345	19,164		
70 All water measured.....enterprises reporting..	2	2		2	35	13	2	3
71 Area irrigated.....acres irrigated..	389	4,792		4,792	186,470	96,349	2,717	50,167

¹Data for less than 3 enterprises in San Pedro River Basin (IV-C-6) included only in totals.
²For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.
³For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.
⁴For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.
⁵Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Gila River (IV-C)—Continued													
Gila River direct—Continued		Aqua Fria River (2)	Salt River			Santa Cruz River			Queen Creek (5)	Willcox Playa (7)	Colorado River above Lees Ferry (IV-D): San Juan River (2a)		
Laveen to Coolidge Dam (1c)	Above Coolidge Dam (1d)		Total	Salt River direct (3a)	Verde River (3b)	Total	Below Rillito (4a)	Above Rillito (4b)					
6	33	3	39	15	25	11	7	4	3		23	1	
41,945	33,871	22,529	226,586	219,618	6,968	39,871	38,016	1,855	22,127		6,386	2	
2	1	1	1	1	1	2	2		1			3	
13,015		8,004	190,425	190,425		26,564	26,564		6,752			4	
3	26	2	29	11	18	9	6	3	1		23	5	
812	26,045	14,525	15,151	8,255	6,896	14,115	12,260	1,855	536		6,386	6	
4	30	3	36	12	25	10	6	4	2		23	7	
812	30,041	22,529	205,648	198,680	6,968	14,115	12,260	1,855	7,288		6,386	8	
	1		3	3					1			9	
	1,500		20,938	20,938					14,839			10	
2	2					1	1					11	
41,133	2,330					25,756	25,756					12	
												13	
4	27	2	26	12	14	9	6	3	2		23	14	
28,930	21,125	14,525	34,287	28,891	5,396	14,115	12,260	1,855	15,375		6,386	15	
1	5	1	11	3	9	1	1		1			16	
13,015	12,746	8,004	192,299	190,727	1,572	25,756	25,756		6,752			17	
1	1		2		2	1		1				18	
5	19	1	33	13	20	9	6	3	3		23	19	
41,945	11,285	2,435	133,498	129,193	4,305	14,115	12,260	1,855	22,127		6,386	20	
	13	2	3	1	2	1	1					21	
	18,982	14,494	90,728	89,515	1,213	24,399	24,399					22	
	3,604	5,600	2,360	910	1,450	1,357	1,357					23	
												24	
												25	
1	1		2		2	1		1				26	
	11		15	6	9	2	1	1				27	
	6		8	1	7	1	1				1	28	
3	7	1	5	2	3	2	2				10	29	
	8	1	6	3	3	3	1	2	1		8	30	
			2	2		1	1		1		4	31	
2						1	1					32	
		1	1	1	1				1			33	
1	1		2		2	1		1				34	
	3		11	1	10	2	2				6	35	
3	18		17	8	9	5	2	3	1		16	36	
	8	1	4	1	3	1	1				1	37	
	3		1	1								38	
2		1	2	2	2	2	2		1			39	
		1	2	2	1				1			40	
												41	
5	32	3	36	15	22	9	7	2	2			23	41
3.6	11.7	2.8	9.7	6.7	14.9	1.5	1.7	1.0	3.6		100.0	42	
633,847	618,125	1,244,221	1,648,273	1,610,589	1,205,093	229,545	215,009	14,536	1,287,409		14,720	43	
2	18	2	24	3	22	3	2	1	1		23	44	
261,278	437,370	825,223	863,576	826,907	842,005	12,959	10,010	2,949	805,336		14,720	45	
2	24	3	15	14	14	6	4	2	2			46	
118,602	153,723	418,998	708,297	707,282	363,088	60,552	48,965	11,587	447,073			47	
2	3		3	3		1	1		1			48	
253,967	27,032		76,400	76,400		156,034	156,034		35,000			49	
5	32		32	11	22	8	6	2	2		23	50	
203,042	185,212	401,863	480,116	468,302	403,662	60,908	59,219	1,689	415,848		2,944	51	
												52	
4	31	3	34	15	20	9	7	2	2		23	52	
166,995	148,562	714,200	1,031,105	1,005,881	672,627	158,094	146,247	11,847	743,403		11,776	53	
2	6	1	13	3	11	1	1					54	
263,510	284,351	78,800	82,474	81,828	79,446	9,543	9,543		78,800			55	
1	5	1	5	5	1	1	1	1	1			56	
300		49,358	54,578	54,578	49,358	1,000		1,000	49,358			57	
												58	
4	31	3	33	14	19	9	7	2	2		23	58	
104,295	131,190	59,774	737,460	714,710	22,750	115,819	104,047	11,772	71,262		11,776	59	
41,753	30,128	16,929	223,950	218,708	5,242	38,139	36,659	1,480	21,591		6,386	60	
2.5	4.4	3.5	3.3	3.3	4.3	3.0	2.8	8.0	3.3		1.8	61	
												62	
	12	2	2		2	1	1					63	
	15,872	20,168	2,474		2,474	3,135	3,135					64	
	3,524	5,600	1,450		1,450	1,357	1,357					65	
	4.5	3.6	1.7		1.7	2.3	2.3					66	
2.5	5.8	4.1	3.5	3.3	4.5	3.1	2.9	8.0	3.3		1.8	67	
66,160	189,628	341,001	3,000,867	2,986,950	13,917	314,156	301,806	12,350	251,514		6,386	68	
0.63	1.45	5.70	4.07	4.18	0.61	2.71	2.90	1.05	3.53		0.54	69	
	23,604	155,691	6,867		6,867	4,092	4,092					70	
	1.49	7.72	2.78		2.78	1.31	1.31					71	
3	18		19	4	15	7	5	2	2		23	72	
812	12,375		13,706	10,051	3,655	2,105	1,414	691			6,386	73	
1	9	1	1	1	1				1			74	
	19,164	8,004	190,425	190,425					6,752			75	
6	6	2	19	10	9	4	2	2	2			76	
41,133	2,332	14,525	22,455	19,142	3,313	37,766	36,602	1,164	15,375			77	

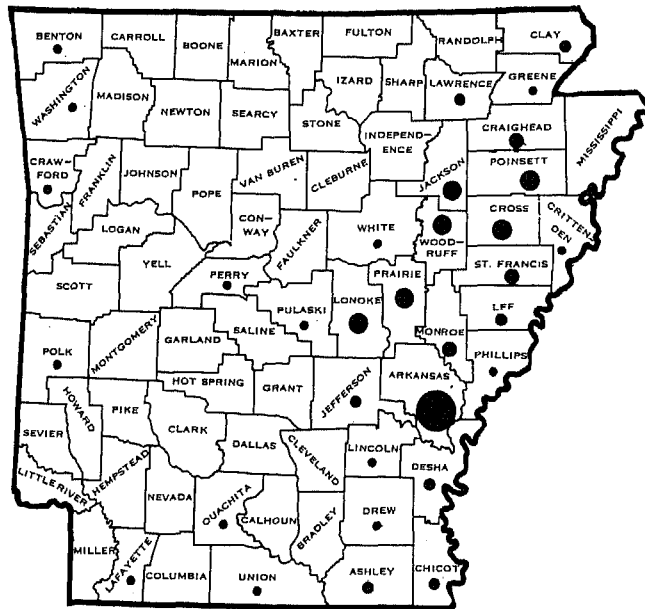
IRRIGATION OF AGRICULTURAL LANDS

ARKANSAS

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LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 10,000 - 19,999 ACRES
- 20,000 - 49,999 ACRES
- 100,000 - 199,999 ACRES

ARKANSAS: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	182,429	18,871,244	3,060	422,107	419,101	2,382	14,171,467
1945.....	198,769	17,455,900	2,229	288,665	(*)	(*)	(*)
1940.....	216,674	18,044,542	1,529	3 159,412	161,601	1,298	5,766,895
1935.....	253,013	17,741,627	1,284	4 135,179	(*)	(*)	(*)
1930.....	242,334	16,052,962	1,096	5 146,910	151,787	1,043	6,836,648
1920.....	232,604	17,456,750	1,166	(**)	143,946	944	7,183,322
1910.....	214,608	17,416,075	232	(**)	27,753	310	587,834
1900.....	178,694	16,636,719	20	25	(*)	(*)	(*)
1890.....	124,760	14,891,356	(*)	9	(*)	(*)	(*)

*Not available.
 **Available data not comparable.
¹Census of Agriculture.
²Farms reporting irrigated land, 1950, 1945, 1900, and 1890 Censuses; farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; and farms reporting irrigated crops, 1930, 1920, and 1910 Censuses.
³Irrigated land from which crops were harvested plus 2,314 acres of irrigated land used only for pasture.
⁴Irrigated land from which crops were harvested.
⁵Acreage of irrigated crops including some duplication where 2 or more crops were harvested from the same land.

State Table 2.—CHARACTERISTICS OF IRRIGATION ENTERPRISES: 1920 TO 1950

[For interstate enterprises, data represent characteristics within the State]

Item (For definitions and explanations, see text)	Census of—			
	1950	1940	1930	1920
Enterprises..... total number..	2,382	1,298	1,043	944
Enterprises by type:				
Single-farm..... number..	2,325	1,294	1,041	(*)
Mutual:				
Unincorporated..... number..	16	2		(*)
Incorporated..... number..	2			(*)
Commercial..... number..	38	2	2	(*)
District..... number..	1			(*)
U. S. Bureau of Reclamation ¹ number..				(*)
U. S. Bureau of Indian Affairs..... number..				(*)
State..... number..				(*)
City..... number..				(*)
Other..... number..				(*)
Irrigated land, total ² acres..	419,101	161,601	151,787	143,946
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres..	397,847	159,091	145,487	140,471
Mutual:				
Unincorporated..... acres..	5,757			1,075
Incorporated..... acres..	(4)	(4)		2,400
Commercial..... acres..	13,153	(4)	6,300	
District..... acres..	(4)			
U. S. Bureau of Reclamation ¹ acres..				
U. S. Bureau of Indian Affairs..... acres..				
State..... acres..				
City..... acres..				
Other..... acres..				
Acreage irrigated, by source of water: ^{3 5}				
Streams (and lakes)..... acres..	43,214	10,676	1,577	6,869
Springs..... acres..	139			
Flowing wells..... acres..	2,539			
Pumped wells..... acres..	398,427	154,026	142,978	135,510
Sewage..... acres..	182			
Other and not reported..... acres..	10,408	623	7,232	1,817
Irrigated land artificially drained..... acres..	94,467	13,987	107,601	27,350
Irrigated land in need of drainage..... acres..	47,996	2,016	1,873	2,821
Irrigation works:				
Diversion dams..... total number..	108	6	1	63
Reservoirs..... number..	86	24	10	16
Total capacity (reported)..... acre-feet..	40,431	31,992	7,342	20
Reservoir dams..... total number..	86	27	6	17
Canals and ditches..... total length, miles..	683	78	51	86
Pipe lines..... total length, miles..	19	13	1	(*)
Flowing wells..... number..	18			
Pumped wells..... number..	3,662	1,534	1,190	1,089
Average pumping lift (reported)..... feet..	58	64	(*)	(*)
Pumps..... number..	4,142	1,633	1,206	1,121
Average pumping lift from all sources..... feet..	(*)	61	68	50
Capital investment, total..... dollars..	14,171,467	5,766,895	6,836,648	7,183,322
Capital investment by type of enterprise:				
Single-farm..... dollars..	13,725,749	5,711,895	6,711,648	7,073,297
Mutual:				
Unincorporated..... dollars..	(4)	(4)		60,013
Incorporated..... dollars..	(*)	(4)	125,000	50,012
Commercial..... dollars..	(4)			
District..... dollars..				
U. S. Bureau of Reclamation ¹ dollars..				
U. S. Bureau of Indian Affairs..... dollars..				
State..... dollars..				
City..... dollars..				
Other..... dollars..				

*Not available. ¹For 1950, not including Bureau of Reclamation projects operated by water users, which are classified under other types of enterprises. ²Acreage reported by irrigation enterprises. For 1950, acreage supplied primary irrigation; for 1940, acreage irrigated by "primary enterprises"; for 1920 and 1930, "primary" and "supplemental" irrigation not differentiated. (See text.) ³For 1950, acreage reported by more than 1 type of enterprise, or from more than 1 source is included for each; for 1940, acreage reported by both "primary" and "supplemental" enterprises is included for each type of enterprise and for each source of water. ⁴Data for less than 3 enterprises not shown separately. ⁵Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "Streams, gravity and pumped," "Stored storm water," and "Waste water, seepage or drainage," and supplemental water from "Streams, pumped" are omitted.

IRRIGATION OF AGRICULTURAL LANDS

State Table 3 (Part 1 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE: CENSUSES OF 1950 AND 1940

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise]

Item (For definitions and explanations, see text)	Type of enterprise			
	All types ¹	Single-farm	Mutual, unincorporated	Commercial, Indian, State, city, and other
ENTERPRISES: FARMS AND LAND IRRIGATED				
Number of enterprises.....enterprises 1950..	2,382	2,325	16	38
.....1940..	1,298	1,294	2	2
Farms irrigated direct per enterprise.....farms 1949..	1.2	1.2	2.8	3.4
Area irrigated direct.....acres 1949..	419,600	397,847	5,757	13,153
.....acres 1939..	161,942	159,091	(²)	(²)
Average per enterprise.....acres 1949..	176	171	360	346
CHARACTERISTICS OF ENTERPRISES, 1949				
Multiple-purpose enterprises.....enterprises..	1			
Area irrigated direct.....acres..	600			
Complete-system enterprises.....enterprises..	2,337	2,284	15	37
Area irrigated direct.....acres..	414,862	397,229	4,877	12,591
Enterprises by origin of water supply:				
No water from other enterprises.....enterprises reporting..	2,373	2,317	15	38
.....acres irrigated..	418,102	397,229	4,877	13,153
Part of water from other enterprises.....enterprises reporting..	6	5	1	
.....acres irrigated..	1,419	539	880	
All water from other enterprises.....enterprises reporting..	3	3		
.....acres irrigated..	79	79		
Enterprises by delivery of irrigation water:				
No water delivered.....enterprises reporting..	33	33		
Water delivered direct to farms only.....enterprises reporting..	2,344	2,290	16	37
.....acres irrigated..	416,079	397,566	5,757	12,591
Water delivered to farms and to other enterprises.....enterprises reporting..	5	2		1
.....acres irrigated..	3,521	281		562
Water delivered to other enterprises.....enterprises reporting..				
Enterprises by primary and supplemental irrigation: ³				
All primary.....enterprises reporting..	2,335	2,279	16	37
.....acres irrigated..	418,103	396,520	5,757	12,983
Part primary, part supplemental.....enterprises reporting..	9	8		1
Primary irrigation.....acres irrigated..	998	918		80
Supplemental irrigation.....acres irrigated..	308	218		90
All supplemental.....enterprises reporting..	5	5		
.....acres irrigated..	191	191		
Enterprises by number of farms irrigated direct:				
None.....enterprises reporting..	33	33		
1-3.....enterprises reporting..	2,297	2,261	12	23
4-9.....enterprises reporting..	49	31	3	14
10-29.....enterprises reporting..	3		1	1
30-99.....enterprises reporting..				
100-299.....enterprises reporting..				
300-999.....enterprises reporting..				
1,000 or more.....enterprises reporting..				
Enterprises by acres irrigated direct:				
None.....enterprises reporting..	33	33		
1-29.....enterprises reporting..	190	187		3
30-99.....enterprises reporting..	553	549	1	3
100-499.....enterprises reporting..	1,499	1,463	12	23
500-999.....enterprises reporting..	95	86	2	6
1,000-2,999.....enterprises reporting..	12	7	1	3
3,000-9,999.....enterprises reporting..				
10,000-29,999.....enterprises reporting..				
30,000 or more.....enterprises reporting..				
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949				
Surface water:				
Gravity only.....enterprises reporting..	10	10		
.....acres irrigated..	836	836		
Pumped only.....enterprises reporting..	136	130	1	4
.....acres irrigated..	17,342	12,996	165	2,103
Gravity and pumped.....enterprises reporting..	7	7		
.....acres irrigated..	2,995	2,995		
Ground water only (pumped from wells).....enterprises reporting..	2,105	2,064	11	28
.....acres irrigated..	367,463	354,520	4,725	7,453
Surface (gravity or pumped) and ground.....enterprises reporting..	124	114	4	6
.....acres irrigated..	30,964	26,500	867	3,597
Stored water:				
None stored.....enterprises reporting..	2,324	2,275	14	32
.....acres irrigated..	402,760	386,474	5,347	8,096
Part stored.....enterprises reporting..	42	37	2	3
.....acres irrigated..	12,110	8,838	410	2,862
All stored.....enterprises reporting..	16	13		3
.....acres irrigated..	4,730	2,535		2,195

¹ Data for less than 3 "Mutual, incorporated" and "District" enterprises included only in totals.

² Data for less than 3 enterprises not shown separately.

³ For interstate enterprises, data represent characteristics within the State.

State Table 3 (Part 2 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE CENSUSES OF 1950 AND 1940

[For interstate enterprises, data represent characteristics within the State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Type of enterprise			
	All types ¹	Single-farm	Mutual, unincorporated	Commercial, Indian, State, city, and other
SOURCES OF SURFACE WATER, 1949²				
Streams (and lakes).....enterprises reporting..	207	191	5	10
.....acres irrigated..	43,214	34,404	1,032	5,700
Springs.....enterprises reporting..	8	8		
.....acres irrigated..	139	139		
Flowing wells.....enterprises reporting..	11	11		
.....acres irrigated..	2,539	2,539		
Drainage water.....enterprises reporting..	66	65		
.....acres irrigated..	9,973	9,793		180
Sewage.....enterprises reporting..	1	1		
.....acres irrigated..	182	182		
Other sources.....enterprises reporting..	1	1		
.....acres irrigated..	435	435		
DRAINAGE OF IRRIGATED LAND, 1949				
Irrigated land drained:				
Enterprises reporting.....enterprises..	577	574	1	2
Area supplied primary irrigation.....acres..	104,770	102,795	250	1,725
Area artificially drained.....acres..	94,467	93,242	100	1,125
Irrigated land in need of drainage:				
Enterprises reporting.....enterprises..	347	342		5
Area supplied primary irrigation.....acres..	66,116	65,251		865
Area in need of drainage.....acres..	47,996	47,493		503
IRRIGATION WORKS, 1950				
Diversion dams.....enterprises reporting..	59	52	3	4
.....dams..	108	97	5	6
Diversion dams by material:				
Concrete or masonry.....dams..	7	5	2	
Timber.....dams..	1	1		
Earth and rock.....dams..	85	76	3	6
Other, mixed, and not reported.....dams..	15	15		
Reservoirs.....enterprises reporting..	80	70	3	7
.....reservoirs..	86	76	3	7
Reservoirs for which capacity was reported.....number..	74	65	2	7
.....total capacity, acre-feet..	40,431	33,856	1,325	5,250
Reservoirs by capacity:				
1-99 acre-feet.....reservoirs..	33	29		4
100-999 acre-feet.....reservoirs..	28	26	2	
1,000 acre-feet and over.....reservoirs..	13	10		3
Reservoir dams by material:				
Concrete or masonry.....dams..	3	3		
Earth and rock.....dams..	78	69	2	7
Other, mixed, and not reported.....dams..	5	4	1	
Canals and ditches.....enterprises reporting..	415	397	13	3
.....total length, miles..	683	618	33	12
Pipelines and siphons.....enterprises reporting..	36	35	1	
.....total length, miles..	19	16	3	
Tunnels.....enterprises reporting..	8			
.....total length, feet..	1,701		1,701	
Flowing wells.....enterprises reporting..	11	11		
.....wells..	18	18		
Pumped wells.....enterprises reporting..	2,228	2,177	15	34
.....wells..	3,562	3,514	41	67
Wells for which pumping lift was reported.....wells..	3,404	3,273	27	64
Average pumping lift.....feet..	58	57	96	67
Irrigation pumps.....enterprises reporting..	2,369	2,312	16	38
.....pumps..	4,142	3,939	58	88
Electric motors used for pumping.....enterprises reporting..	1,034	1,003	11	18
.....electric motors..	1,624	1,527	24	41
Other motors and engines used for pumping.....enterprises reporting..	1,643	1,603	13	25
.....other motors and engines..	2,512	2,404	37	46
SEASON OF IRRIGATION, 1949				
Water delivered only before July 1.....enterprises reporting..	6	6		
.....acres irrigated..	522	522		
Water delivered before and after July 1.....enterprises reporting..	2,205	2,148	16	38
.....acres irrigated..	400,610	378,857	5,757	13,153
Water delivered only after July 1.....enterprises reporting..	61	61		
.....acres irrigated..	4,178	4,178		
CAPITAL INVESTMENT, 1950 AND 1940				
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	5,766,895	5,711,895	(³)	(³)
New capital investment Jan. 1, 1940 to Jan. 1, 1950:				
Enterprises reporting.....enterprises 1950..	1,583	1,536	15	31
Amount.....dollars 1950..	8,404,572	8,013,854	96,050	293,068
Area irrigated direct.....acres 1949..	297,774	282,055	4,332	10,787
Total capital investment Jan. 1, 1950.....dollars 1950..	14,171,467	13,725,749	(*)	(*)
INDEBTEDNESS, 1950⁴				
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:				
Enterprises reporting.....enterprises..				
Amount.....dollars..				
Area irrigated direct.....acres..				
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:				
Enterprises reporting.....enterprises..				
Amount.....dollars..				
Area irrigated direct.....acres..				

¹Not available. ²Data for less than 3 "Mutual, incorporated" and "District" enterprises included only in totals. ³Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State. ⁴Data for less than 3 enterprises not shown separately. ⁵Not reported by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

State Table 3. (Part 3 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE; CENSUSES OF 1950 AND 1940

[For interstate enterprises, data represent characteristics within the State except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definition and explanations, see text)	Type of enterprise			
	All types ¹	Single-farm	Mutual, unincorporated	Commercial, Indian, State, city, and other
COST OF WATER TO FARMS, 1949²				
Total cost of water to farms:				
Enterprises reporting.....enterprises..	2,349	2,292	16	38
Cost.....dollars..	2,827,245	2,688,858	26,200	94,406
Area irrigated direct.....acres..	419,600	397,847	5,757	13,153
Cost per acre irrigated direct.....dollars..	6.74	6.76	4.55	7.18
Enterprises by cost per acre:				
Less than \$1.00.....enterprises reporting..	156	144	6	4
.....acres irrigated..	27,231	23,722	1,335	1,409
\$1.00-\$1.99.....enterprises reporting..	65	64		1
.....acres irrigated..	12,286	12,091		195
\$2.00-\$4.99.....enterprises reporting..	508	498	3	7
.....acres irrigated..	111,499	105,119	1,875	4,505
\$5.00-\$9.99.....enterprises reporting..	1,104	1,084	6	13
.....acres irrigated..	200,678	192,957	1,667	3,976
\$10.00 or more.....enterprises reporting..	516	502	1	13
.....acres irrigated..	67,906	63,958	880	3,068
Cost of water for primary irrigation:				
Enterprises reporting.....enterprises..	2,344	2,287	16	38
Cost.....dollars..	2,824,099	2,686,162	26,200	93,956
Area supplied primary irrigation.....acres..	419,101	397,438	5,757	13,063
Cost per acre supplied.....dollars..	6.74	6.76	4.55	7.19
Cost of water for supplemental irrigation:				
Enterprises reporting.....enterprises..	14	13		1
Cost.....dollars..	3,146	2,696		450
Area supplied supplemental irrigation.....acres..	499	409		90
Cost per acre supplied.....dollars..	6.30	6.59		5.00
Cost to farms for purposes other than operation and maintenance: ³				
Enterprises reporting.....enterprises..				
Cost.....dollars..				
Area irrigated direct.....acres..				
Cost per acre irrigated.....dollars..				
Arrearage in payments by farms, Jan. 1, 1950: ³				
Enterprises reporting.....enterprises..	1		1	
Amount.....dollars..	1,750		1,750	
Area irrigated direct.....acres..	190		190	
QUANTITIES OF WATER REPORTED, 1949³				
Total obtained from all sources ⁴.....enterprises reporting..	54		15	36
.....acre-feet..	31,080		10,659	12,321
Surface sources.....enterprises reporting..	15		5	9
.....acre-feet..	10,304		1,733	3,633
Pumped wells.....enterprises reporting..	48		14	32
.....acre-feet..	19,976		8,126	8,688
Other enterprises.....enterprises reporting..	1		1	
.....acre-feet..	800		800	
Conveyance loss ⁴.....enterprises reporting..	13		13	
.....acre-feet..	1,065		1,065	
Delivered: ⁴				
Direct to farms.....enterprises reporting..	54		15	36
.....acre-feet..	28,790		9,594	12,321
To other enterprises.....enterprises reporting..	2			
.....acre-feet..	1,225			
For use other than irrigation.....enterprises reporting..				
.....acre-feet..				
Delivered direct to farms for primary irrigation:				
Enterprises reporting.....enterprises..	54		15	36
Quantity delivered.....acre-feet..	28,699		9,594	12,230
Area supplied primary irrigation.....acres..	19,351		4,332	12,176
Quantity per acre supplied.....acre-feet..	1.5		2.2	1.0
Delivered direct to farms for supplemental irrigation:				
Enterprises reporting.....enterprises..	1			1
Quantity delivered.....acre-feet..	91			91
Area supplied supplemental irrigation.....acres..	90			90
Quantity per acre supplied.....acre-feet..	1.0			1.0
Cost of water to farms for enterprises reporting quantity delivered:				
Cost for primary irrigation.....dollars..	122,737		20,200	84,756
Average cost per acre-foot.....dollars..	4.28		2.11	6.93
Cost for supplemental irrigation.....dollars..	450			450
Average cost per acre-foot.....dollars..	4.95			4.95
Measurement of water to farms:				
No water measured.....enterprises reporting..	17		11	3
.....acres..	7,838		3,242	1,753
Part of water measured.....enterprises reporting..	23			23
.....acres..	8,726			8,726
All water measured.....enterprises reporting..	7		1	6
.....acres..	1,123		250	873

¹Data for less than 3 "Mutual, incorporated" and "District" enterprises included only in totals.
²Enterprises with reported cost of \$0 in 1949 are included.
³Not reported by single-farm enterprises.
⁴For interstate enterprises, data represent characteristics of the entire enterprise.

State Table 4 (Part 1 of 3)—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated by 2 or more enterprises are counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²		
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999
		All gravity	All pumped					
ENTERPRISES: FARMS AND LAND IRRIGATED								
Number of enterprises.....enterprises..	2,337	10	131	2,069	127	738	1,588	11
Farms irrigated direct per enterprise.....farms..	1.2	1.0	1.2	1.2	1.4	1.1	1.3	3.4
Area irrigated.....acres..	414,862	836	15,264	365,365	33,397	39,048	360,872	14,942
Average per enterprise.....acres..	178	84	117	177	263	53	227	1,358
CHARACTERISTICS OF ENTERPRISES								
Multiple-purpose enterprises.....enterprises..								
Area irrigated.....acres..								
Type of enterprise:								
Single-farm.....enterprises..	2,284	10	126	2,030	118	731	1,546	7
.....acres..	397,229	836	12,996	353,902	29,495	38,760	349,152	9,317
Mutual:								
Unincorporated.....enterprises..	15		1	10	4	1	13	1
.....acres irrigated..	4,877		165	3,845	867	60	3,392	1,425
Incorporated.....enterprises..	1			1			1	
.....acres irrigated..	(4)			(4)			(4)	
Commercial.....enterprises..	37		4	28	5	6	28	3
.....acres irrigated..	12,591		2,103	7,453	3,035	228	8,163	4,200
District.....enterprises..								
.....acres irrigated..								
U. S. Bureau of Reclamation.....enterprises..								
.....acres irrigated..								
U. S. Bureau of Indian Affairs.....enterprises..								
.....acres irrigated..								
State.....enterprises..								
.....acres irrigated..								
City.....enterprises..								
.....acres irrigated..								
Enterprises by primary and supplemental irrigation: ⁵								
All primary.....enterprises reporting..	2,323	10	129	2,058	126	731	1,581	11
.....acres irrigated..	413,373	836	15,161	364,030	33,346	38,754	359,677	14,942
Part primary, part supplemental.....enterprises reporting..	9		2	7		2	7	
.....acres irrigated..	990		63	927		63	927	
Supplemental irrigation.....acres irrigated..	308		40	268		40	268	
All supplemental.....enterprises reporting..	5			4	1	5		
.....acres irrigated..	191			140	51	191		
Enterprises by number of farms irrigated:								
1-3.....enterprises reporting..	2,209	10	128	2,028	123	734	1,548	7
.....acres irrigated..	47		3	40	4	4	39	4
4-9.....enterprises reporting..	1			1			1	
10-29.....enterprises reporting..								
30-99.....enterprises reporting..								
100-299.....enterprises reporting..								
300-999.....enterprises reporting..								
1,000 and over.....enterprises reporting..								
Enterprises by acreage irrigated:								
1-29.....enterprises reporting..	189	6	57	118	8	189		
.....acres irrigated..	549	1	35	491	22	549		
30-99.....enterprises reporting..	1,496	3	31	1,381	81		1,496	
.....acres irrigated..	92		6	74	12		92	
100-499.....enterprises reporting..	11		2	5	4			11
500-999.....enterprises reporting..								
1,000-2,999.....enterprises reporting..								
3,000-9,999.....enterprises reporting..								
10,000-29,999.....enterprises reporting..								
30,000 and over.....enterprises reporting..								
USE OF SURFACE, GROUND, PUMPED AND STORED WATER								
Surface water:								
Gravity only.....enterprises reporting..	10	10				7	3	
.....acres irrigated..	836	836				121	715	
Pumped only.....enterprises reporting..	131		131			92	37	2
.....acres irrigated..	15,264		15,264			2,625	9,819	2,820
Gravity and pumped.....enterprises reporting..	7				7	3	4	
.....acres irrigated..	2,995				2,995	29	2,966	
Ground water only (pumped from wells).....enterprises reporting..								
.....acres irrigated..	2,069			2,069		609	1,455	5
.....acres irrigated..	365,365			365,365		34,760	325,083	5,522
Surface (gravity or pumped) and ground.....enterprises reporting..								
.....acres irrigated..	120				120	27	89	4
.....acres irrigated..	30,402				30,402	1,513	22,289	6,600
Stored water:								
None stored.....enterprises reporting..	2,284	8	119	2,051	106	729	1,546	9
.....acres irrigated..	398,775	715	11,743	361,289	25,028	38,723	348,310	11,742
Part stored.....enterprises reporting..	38		5	17	16	4	33	1
.....acres irrigated..	11,394		969	3,923	6,502	192	9,402	1,800
All stored.....enterprises reporting..	15	2	7	1	5	5	9	1
.....acres irrigated..	4,693	121	2,552	153	1,867	133	3,160	1,400

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded. ² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ³ Surface water includes water from springs and from flowing wells. ⁴ Data for less than 3 enterprises not shown separately. ⁵ For interstate enterprises, data represent characteristics within the State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4 (Part 2 of 3).—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²		
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999
		All gravity	All pumped					
SOURCES OF SURFACE WATER⁴								
Streams (and lakes).....enterprises reporting..	198	7	98	.....	93	90	102	6
.....acres irrigated..	40,574	791	13,256	.....	26,527	2,981	28,173	9,420
Springs.....enterprises reporting..	8	.....	6	.....	2	8	.....	.....
.....acres irrigated..	139	.....	55	.....	84	139	.....	.....
Flowing wells.....enterprises reporting..	10	.....	.....	.....	10	1	9	.....
.....acres irrigated..	2,539	.....	.....	.....	2,539	85	2,454	.....
Drainage water.....enterprises reporting..	65	3	28	.....	34	32	33	.....
.....acres irrigated..	9,876	45	1,971	.....	7,860	1,105	8,771	.....
Sewage.....enterprises reporting..	1	.....	.....	.....	1	.....	1	.....
.....acres irrigated..	182	.....	.....	.....	182	.....	182	.....
Other sources.....enterprises reporting..	1	.....	1	.....	.....	.....	1	.....
.....acres irrigated..	435	.....	435	.....	.....	.....	435	.....
DRAINAGE OF IRRIGATED LAND								
Irrigated land drained:								
Enterprises reporting.....enterprises..	575	.....	41	508	26	163	410	2
.....acres supplied primary irrigation.....acres..	104,058	.....	3,616	94,445	5,997	9,183	92,473	2,402
.....acres artificially drained.....acres..	94,355	.....	3,006	86,785	4,564	7,602	85,023	1,730
Irrigated land in need of drainage:								
Enterprises reporting.....enterprises..	346	.....	5	320	21	74	272	.....
.....acres supplied primary irrigation.....acres..	66,016	.....	1,245	59,448	5,323	4,412	61,604	.....
.....acres in need of drainage.....acres..	47,936	.....	1,030	44,402	2,504	3,868	44,068	.....
IRRIGATION WORKS								
Diversion dams.....enterprises reporting..	57	7	19	8	23	20	34	3
.....dams..	88	7	24	16	41	24	61	3
Diversion dams by material:								
Concrete or masonry.....dams..	7	.....	2	.....	5	3	4	.....
Timber.....dams..	1	.....	.....	.....	1	.....	1	.....
Earth or rock.....dams..	65	7	15	14	29	13	49	3
Other, mixed, and not reported.....dams..	15	.....	7	2	6	8	7	.....
Reservoirs.....enterprises reporting..	77	5	21	23	28	12	62	3
.....reservoirs..	81	5	21	24	31	12	66	3
Reservoirs for which capacity was reported.....reservoirs..	69	5	16	21	27	8	58	3
.....total capacity, acre-feet..	40,161	662	18,479	4,923	16,097	239	32,622	7,300
Reservoirs by capacity:								
1-99 acre-feet.....reservoirs..	28	1	7	11	9	7	21	.....
100-999 acre-feet.....reservoirs..	28	4	2	10	12	1	27	.....
1,000 acre-feet and over.....reservoirs..	13	.....	7	.....	6	.....	10	3
Reservoir dams by material:								
Concrete or masonry.....dams..	3	.....	.....	1	2	.....	3	.....
Earth or rock.....dams..	73	.....	19	23	26	11	59	3
Other, mixed, and not reported.....dams..	5	.....	2	.....	3	.....	4	.....
Canals and ditches.....enterprises reporting..	402	.....	34	322	45	109	291	2
.....total length, miles..	648	(⁵)	35	529	84	104	534	10
Pipelines and siphons.....enterprises reporting..	34	.....	15	14	5	15	19	.....
.....total length, miles..	18	.....	6	10	2	4	14	.....
Tunnels.....enterprises reporting..	8	.....	1	7	.....	.....	7	.....
.....total length, feet..	1,701	.....	32	1,669	.....	14	1,687	.....
Flowing wells.....enterprises reporting..	10	.....	.....	.....	10	.....	9	.....
.....wells..	17	.....	.....	.....	17	.....	16	.....
Pumped wells.....enterprises reporting..	2,191	.....	5	2,069	117	639	1,543	9
.....wells..	3,607	.....	7	3,352	248	692	2,832	83
Wells for which pumping lift was reported.....wells..	3,361	.....	6	3,112	243	609	2,677	75
.....average pumping lift.....feet..	59	.....	57	59	53	56	60	29
Irrigation pumps.....enterprises reporting..	2,325	.....	131	2,070	124	731	1,583	11
.....pumps..	4,068	.....	171	3,580	317	821	3,189	58
Electric motors used for pumping.....electric motors..	1,022	.....	17	958	47	215	800	7
.....other motors and engines..	1,608	.....	28	1,493	87	231	1,349	28
Other motors and engines used for pumping.....enterprises reporting..	1,613	1	117	1,385	110	527	1,077	9
.....other motors and engines..	2,459	1	141	2,082	235	590	1,839	30
SEASON OF IRRIGATION								
Enterprises reporting and acreage irrigated:								
Water delivered only before July 1.....enterprises reporting..	6	.....	2	4	.....	5	1	.....
.....acres irrigated..	522	.....	33	489	.....	173	349	.....
Water delivered before and after July 1.....enterprises reporting..	2,191	6	110	1,955	120	655	1,525	11
.....acres irrigated..	395,572	787	14,657	348,296	31,832	35,915	344,715	14,942
Water delivered only after July 1.....enterprises reporting..	61	1	17	37	6	47	14	.....
.....acres irrigated..	4,178	1	404	3,058	715	1,464	2,714	.....
NEW CAPITAL INVESTMENT								
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
Enterprises reporting.....enterprises..	1,555	2	92	1,361	100	418	1,130	7
.....Amount.....dollars..	8,293,075	1,600	271,268	7,280,812	739,395	1,087,231	7,014,494	191,350
.....Area irrigated.....acres..	295,255	41	9,752	257,011	28,451	23,563	261,595	10,097
INDEBTEDNESS⁶								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
.....Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
.....Area irrigated.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
.....Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
.....Area irrigated.....acres..	.....	.....	.....	.....	.....	.....	.....	.....

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded. ² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ³ Surface water includes water from springs and from flowing wells. ⁴ Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State. ⁵ Less than 0.5. ⁶ Not reported by single-farm enterprises.

State Table 4 (Part 3 of 3).—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Total Complete-system enterprises ¹	Type of water ²				Acres irrigated ²		
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999
		All gravity	All pumped					
COST OF WATER TO FARMS⁴								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	2,337	10	131	2,069	127	738	1,588	11
Cost.....dollars..	2,785,969	1,335	68,674	2,503,132	212,828	342,979	2,381,652	61,338
Area irrigated.....acres..	414,862	836	15,264	365,365	33,397	39,048	360,872	14,942
Cost per acre irrigated.....dollars..	6.72	1.60	4.50	6.85	6.37	8.78	6.60	4.11
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	155	8	19	118	10	68	86	1
.....acres irrigated..	26,631	316	2,543	21,629	2,143	2,737	22,894	1,000
\$1.00-\$1.99.....enterprises reporting..	65	1	12	49	4	23	41	1
.....acres irrigated..	12,286	1	1,618	8,776	1,892	896	9,890	1,500
\$2.00-\$4.99.....enterprises reporting..	507	1	33	446	27	99	403	5
.....acres irrigated..	111,409	470	5,446	97,057	8,436	4,719	99,643	7,047
\$5.00-\$9.99.....enterprises reporting..	1,100	1	37	1,005	57	308	788	4
.....acres irrigated..	198,251	50	4,432	177,843	15,926	18,374	174,482	5,395
\$10.00 or more.....enterprises reporting..	510	1	30	451	29	240	270	1
.....acres irrigated..	66,285	1	1,225	60,060	5,000	12,322	53,963	1
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	2,332	10	131	2,065	126	733	1,588	11
Cost.....dollars..	2,782,823	1,335	68,674	2,500,086	212,728	341,605	2,380,420	61,338
Area supplied primary irrigation.....acres..	414,363	836	15,224	364,957	33,346	38,817	360,604	14,942
Cost per acre supplied.....dollars..	6.72	1.60	4.51	6.85	6.38	8.79	6.60	4.11
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	14	2	11	1	7	7	7	1
Cost.....dollars..	3,146	40	3,046	100	1,914	1,232	268	4.60
Area supplied supplemental irrigation.....acres..	499	40	408	51	231	268	4.60	1
Cost per acre supplied.....dollars..	6.30	7.47	7.47	1.96	8.29	4.60	1	1
Cost to farms for purposes other than operation and maintenance: ⁵								
Enterprises reporting.....enterprises..	1							
Cost.....dollars..	1,750			1,750				
Area irrigated.....acres..	190			190				
Arrearage in payments by farms, Jan. 1, 1950: ⁵								
Enterprises reporting.....enterprises..	1			1			1	
Amount.....dollars..	1,750			1,750			1,750	
Area irrigated.....acres..	190			190			190	
QUANTITIES OF WATER REPORTED⁵								
Total obtained from all sources ⁶.....enterprises reporting..	51	5	37	9	7	41	3	
.....acre-feet..	21,767	2,621	13,344	5,802	421	17,146	4,200	
Surface sources.....enterprises reporting..	14	5	9	2	2	10	2	
.....acre-feet..	5,366	2,621	37	2,745	88	2,978	2,300	
Pumped wells.....enterprises reporting..	46	37	37	9	5	39	2	
.....acre-feet..	16,401	13,344	13,344	3,057	333	14,168	1,900	
Other enterprises.....enterprises reporting..	1	1	1	1	1	1	1	
.....acre-feet..	13	1	8	4	1	12	1	
Conveyance loss ⁶.....enterprises reporting..	1,065	43	508	514	11	1,054	1	
.....acre-feet..	1,065	43	508	514	11	1,054	1	
Delivered: ⁶								
Direct to farms.....enterprises reporting..	51	5	37	9	7	41	3	
.....acre-feet..	20,702	2,578	12,836	5,288	410	16,092	4,200	
To other enterprises.....enterprises reporting..								
.....acre-feet..								
For use other than irrigation.....enterprises reporting..								
.....acre-feet..								
Delivered to farms for primary irrigation:								
Enterprises reporting.....enterprises..	51	5	37	9	7	41	3	
Quantity delivered.....acre-feet..	20,611	2,578	12,745	5,288	410	16,001	4,200	
Acreage supplied primary irrigation.....acres..	15,793	2,268	9,623	3,902	288	11,305	4,200	
Quantity per acre supplied.....acre-feet..	1.3	1.1	1.3	1.4	1.4	1.4	1.0	
Delivered to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	1	1	1	1	1	1	1	
Quantity delivered.....acre-feet..	91	91	91	91	91	91	91	
Acreage supplied supplemental irrigation.....acres..	90	90	90	90	90	90	90	
Quantity per acre supplied.....acre-feet..	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	96,156	8,540	71,386	16,230	2,050	86,306	7,800	
Average cost per acre-foot.....dollars..	4.57	3.31	5.60	3.07	5.00	5.39	1.86	
Cost for supplemental irrigation.....dollars..	450	450	450	450	450	450	450	
Average cost per acre-foot.....dollars..	4.95	4.95	4.95	4.95	4.95	4.95	4.95	
Measurement of water to farms:								
No water measured.....enterprises reporting..	14	1	10	3	2	11	1	
.....acres..	4,280	1,400	2,173	707	88	2,792	1,400	
Part of water measured.....enterprises reporting..	22	1	17	4	2	18	2	
.....acres..	8,164	60	5,264	2,840	86	5,278	2,800	
All water measured.....enterprises reporting..	7	1	5	1	1	6	1	
.....acres..	1,123	28	900	195	28	1,095	1	

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. ² Enterprises that delivered no water in 1949 are excluded. ³ Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ⁴ Surface water includes water from springs and from flowing wells. ⁵ Enterprises with reported cost of \$0 in 1949 are included. ⁶ Not reported by single-farm enterprises. ⁷ For interstate enterprises, data represent characteristics of the entire enterprise.

IRRIGATION OF AGRICULTURAL LANDS

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

[1950 data for items shown in italics are based on reports for only a sample of farms. See text]

Table with columns: Item (For definitions and explanations, see text), Prairie, Pulaski, St. Francis, Sebastian, Washington, White, Woodruff, All other counties. Rows include categories like Irrigated farms, Value of land and buildings, Land in irrigated farms according to use, etc.

¹Less than 0.05.

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Item (For definitions and explanations, see text)		The State	Arkansas	Ashley	Benton	Chicot	Clay	Craighead
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	2,382	548	18	7	19	32	173
2	.....enterprises 1940..	1,298	505	(*)	(*)	(*)	8	85
3	Intercounty enterprises.....enterprises 1950..	18	.....	.....	.....	.....	1	.....
4	Irrigated farms ¹.....farms 1950..	3,060	731	23	10	26	35	197
5	Average per enterprise.....farms 1950..	1.3	1.3	1.3	1.4	1.4	1.1	1.1
6	Farms irrigated direct per enterprise ².....farms 1950..	1.2	1.5	1.2	1.1	1.0	1.0	1.1
7	Irrigated land ¹.....acres 1949..	419,101	103,062	6,715	57	5,314	6,561	18,025
8	.....acres 1939..	161,601	65,316	(*)	(*)	(*)	1,643	6,524
9	Average per irrigated farm.....acres 1949..	137.0	141.0	292.0	5.7	204.4	187.5	91.5
10	Average per enterprise.....acres 1949..	176	188	373	8	280	205	104
11	Average acreage irrigated direct per enterprise ².....acres 1949..	176	188	373	8	280	205	104
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	2,325	494	18	7	19	32	173
13	.....acres irrigated..	397,847	81,960	6,715	57	5,314	6,561	18,025
Mutual:								
14	Unincorporated.....enterprises..	16	16	.....	.....	.....	.....	.....
15	.....acres irrigated..	5,757	5,757	.....	.....	.....	.....	.....
16	Incorporated.....enterprises..	2	1	.....	.....	.....	.....	.....
17	.....acres irrigated..	(3)	(3)	.....	.....	.....	.....	.....
18	Commercial.....enterprises..	38	36	.....	.....	.....	.....	.....
19	.....acres irrigated..	13,153	12,800	.....	.....	.....	.....	.....
20	District.....enterprises..	1	1	.....	.....	.....	.....	.....
21	.....acres irrigated..	(3)	(3)	.....	.....	.....	.....	.....
22	U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs.....enterprises..	.....	.....	.....	.....	.....	.....	.....
25	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	10	4	.....	1	.....	.....	.....
31	.....acres irrigated..	836	753	.....	4	.....	.....	.....
32	Pumped only.....enterprises reporting..	136	30	.....	5	.....	1	6
33	.....acres irrigated..	17,342	9,156	.....	45	1,574	200	112
34	Gravity and pumped.....enterprises reporting..	7	3	.....	.....	.....	.....	1
35	.....acres irrigated..	2,995	2,116	.....	10	.....	.....	15
36	Ground water only (pumped from wells).....enterprises reporting..	2,105	454	17	1	11	29	161
37	.....acres irrigated..	367,463	77,089	6,475	1	2,890	6,096	17,318
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	124	57	1	.....	3	2	5
39	.....acres irrigated..	30,964	14,081	240	.....	850	265	580
Stored water:								
40	None stored.....enterprises reporting..	2,324	520	17	6	18	32	173
41	.....acres irrigated..	402,760	91,636	6,283	56	5,174	6,561	18,025
42	Part stored.....enterprises reporting..	42	18	1	.....	1	.....	.....
43	.....acres irrigated..	12,110	7,415	432	.....	140	.....	.....
44	All stored.....enterprises reporting..	16	10	.....	.....	.....	.....	.....
45	.....acres irrigated..	4,730	4,144	.....	1	.....	.....	.....
Sources of surface water, 1949:⁴								
46	Streams (and lakes).....enterprises reporting..	207	76	.....	4	8	3	4
47	.....acres irrigated..	43,214	22,606	.....	54	2,424	465	239
48	Springs.....enterprises reporting..	8	.....	.....	2	.....	.....	.....
49	.....acres irrigated..	139	.....	.....	19	.....	.....	.....
50	Flowing wells.....enterprises reporting..	11	.....	1	.....	1	.....	.....
51	.....acres irrigated..	2,539	.....	240	.....	300	.....	.....
52	Drainage water.....enterprises reporting..	66	27	.....	1	.....	.....	9
53	.....acres irrigated..	9,973	6,694	.....	1	.....	.....	565
54	Sewage.....enterprises reporting..	1	1	.....	.....	.....	.....	.....
55	.....acres irrigated..	182	182	.....	.....	.....	.....	.....
56	Other sources.....enterprises reporting..	1	.....	.....	.....	1	.....	.....
57	.....acres irrigated..	435	.....	.....	.....	435	.....	.....
Drainage of irrigated land:⁵								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	577	21	1	.....	8	10	53
59	Area supplied primary irrigation.....acres 1949..	104,770	4,503	164	.....	1,775	2,441	7,713
60	Area artificially drained.....acres 1949..	94,467	2,963	164	.....	1,775	2,368	6,752
61	.....acres 1939..	13,987	5,235	(*)	(*)	(*)	(*)	534
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	347	19	3	.....	5	2	22
63	Area supplied primary irrigation.....acres 1949..	66,116	3,492	524	.....	1,355	475	3,069
64	Area in need of drainage.....acres 1949..	47,996	1,348	500	.....	830	380	1,854
65	.....acres 1939..	2,016	400	(*)	(*)	(*)	.....	31

See footnotes at end of County Table 2, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).--IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)	Crawford	Cross	Desha	Drew	Greene	Jackson	Jefferson	Lafayette
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	6	247	28	6	41	114	53	3
2 1940..	(*)	78	(*)	(*)	(*)	51	6	(*)
3 Intercounty enterprises.....enterprises 1950..	3	2	2	2	2	4	1	.....
4 Irrigated farms ¹.....farms 1950..	5	322	43	18	46	158	40	1
5 Average per enterprise.....farms 1950..	0.8	1.3	1.5	3.0	1.1	1.4	0.8	0.3
6 Farms irrigated direct per enterprise ².....farms 1950..	0.8	1.2	0.9	1.0	1.1	1.2	0.8	0.3
7 Irrigated land ³.....acres 1949..	124	38,036	7,329	3,868	4,952	20,689	9,280	640
8 1939..	(*)	9,444	(*)	(*)	(*)	7,992	367	(*)
9 Average per irrigated farm.....acres 1949..	24.8	118.1	170.4	214.9	107.7	130.9	232.0	640.0
10 Average per enterprise.....acres 1949..	21	154	262	645	121	181	175	213
11 Average acreage irrigated direct per enterprise ².....acres 1949..	21	154	262	645	121	181	175	213
Type of enterprise, 1950:								
12 Single-farm.....enterprises..	6	247	28	6	41	114	52	3
13 Mutual:.....acres irrigated..	124	38,066	7,329	3,868	4,952	20,689	8,955	640
14 Unincorporated.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
15 Incorporated.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
16 Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
17 District.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
18 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	(3)	1
19 U. S. Bureau of Indian Affairs.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
20 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
21 City.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30 Gravity only.....enterprises reporting..	.....	3	.....	.....	.....	.....	.....	.....
31 1949..	.....	24	.....	.....	.....	.....	.....	.....
32 Pumped only.....enterprises reporting..	5	23	7	.....	.....	4	9	.....
33 Gravity and pumped.....acres irrigated..	108	1,136	1,130	.....	.....	337	358	.....
34 Ground water only (pumped from wells).....enterprises reporting..	.....	.....	850	.....	.....	.....	.....	.....
35 Surface (gravity or pumped) and ground water.....acres irrigated..	16	36,743	4,089	605	4,952	19,756	8,062	640
36 Stored water:.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
37 None stored.....acres irrigated..	6	245	28	6	41	114	52	1
38 Part stored.....enterprises reporting..	124	37,426	7,329	3,868	4,952	20,689	9,240	640
39 All stored.....acres irrigated..	.....	640	.....	.....	.....	.....	1	2
Sources of surface water, 1949:⁴								
46 Streams (and lakes).....enterprises reporting..	5	15	11	3	.....	7	12	2
47 Springs.....acres irrigated..	108	663	3,130	3,263	.....	933	768	.....
48 Flowing wells.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1
49 Drainage water.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
50 Sewage.....enterprises reporting..	.....	13	1	.....	.....	.....	1	.....
51 Other sources.....acres irrigated..	.....	660	110	.....	.....	.....	450	.....
Drainage of irrigated land:⁵								
Irrigated land drained:								
58 Enterprises reporting.....enterprises 1949..	.....	177	10	.....	23	39	13	1
59 Area supplied primary irrigation.....acres 1949..	.....	26,980	2,804	.....	2,571	6,659	3,371	640
60 Area artificially drained.....acres 1949..	.....	25,807	2,649	.....	2,556	5,943	3,267	440
61 Irrigated land in need of drainage:.....acres 1939..	(*)	1,506	(*)	(*)	(*)	(*)	(*)	(*)
62 Enterprises reporting.....enterprises 1949..	.....	19	5	.....	1	16	4	1
63 Area supplied primary irrigation.....acres 1949..	.....	3,573	907	.....	50	3,402	1,156	640
64 Area in need of drainage.....acres 1939..	(*)	3,360	807	(*)	(*)	2,297	626	200

¹ Not available. ² Farms or acres irrigated direct by 2 or more enterprises are counted only once. ³ Number of irrigated farms is from the U. S. Census of Agriculture. Acreage irrigated is from the Census of Irrigation and therefore differs from acreage irrigated shown in County Table 1. (See text.) ⁴ Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise. ⁵ Data for less than 3 enterprises not shown separately. ⁶ Enterprises reporting water from more than 1 source are counted for each. ⁷ For intercounty and interstate enterprises, data represent characteristics within the county or State.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Lawrence	Lee	Lincoln	Lonoke	Monroe	Phillips	Poinsett	Prairie	Pulaski	St. Francis	Washington	White	Woodruff	All other counties	
23	40	8	24C	78	4	257	275	6	49	7	4	106	8	1
5	10	(*)	128	25	(*)	112	219	(*)	29	(*)	(*)	32	(*)	2
1	2	.....	1	3	.....	4	1	.....	3	.....	.....	5	.....	3
24	63	23	289	95	5	316	327	9	76	20	4	138	.....	4
1.0	1.6	2.9	1.2	1.2	1.3	1.2	1.2	1.5	1.6	2.9	1.0	1.3	2.0	5
1.0	1.3	1.1	1.2	1.3	1.0	1.2	1.1	2.0	1.2	1.1	1.0	1.2	1.0	6
5,168	6,230	4,196	43,948	12,202	1,860	43,615	45,038	334	10,546	147	493	20,028	644	7
688	2,527	(*)	15,608	3,445	(*)	13,217	24,903	(*)	4,814	(*)	(*)	4,655	(*)	8
215.3	98.9	182.4	152.1	128.4	372.0	138.0	137.7	37.1	138.8	7.4	123.3	145.1	40.3	9
225	156	524	183	156	465	170	164	56	215	21	123	189	80	10
225	156	524	183	156	465	170	164	77	215	21	123	190	80	11
23	40	8	238	78	4	257	275	6	49	7	4	106	8	12
5,168	6,246	4,196	43,775	12,202	1,860	43,660	45,097	464	10,546	147	493	20,094	644	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	(³)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
.....	.....	.....	(³)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58	.....	31
.....	.....	.....	9	1	.....	.....	7	2	6	6	1	5	.....	32
.....	.....	.....	188	50	.....	.....	1,288	103	134	143	150	1,086	44	33
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
23	38	8	215	75	4	253	258	4	42	.....	1	96	3	36
5,168	5,900	4,196	40,602	11,639	1,860	43,148	42,232	361	10,352	.....	83	16,590	600	37
.....	.....	.....	16	2	.....	4	10	.....	1	.....	2	3	.....	38
.....	.....	.....	3,178	513	.....	512	1,577	.....	60	.....	260	2,360	.....	39
23	40	8	231	78	4	257	264	6	48	7	4	106	7	40
5,168	6,246	4,196	42,298	12,202	1,860	43,660	42,841	464	10,486	147	493	20,094	642	41
.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	1,710	.....	.....	.....	1,733	.....	.....	.....	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	3	.....	1	.....	.....	.....	.....	44
.....	.....	.....	.....	.....	.....	.....	523	.....	60	.....	.....	.....	.....	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	.....	.....	21	1	.....	2	14	2	2	6	2	7	2	46
.....	.....	.....	2,292	50	.....	27	2,387	103	69	127	350	3,128	28	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24	.....	.....	.....	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
.....	.....	.....	3	1	.....	2	1	.....	.....	.....	.....	.....	.....	51
.....	208	.....	765	433	.....	485	108	.....	.....	.....	.....	.....	.....	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
20	10	.....	79	12	3	2	55	.....	18	.....	.....	23	3	58
4,723	2,618	.....	15,185	1,640	1,785	360	9,727	.....	3,300	.....	.....	5,363	448	59
4,723	2,350	.....	13,123	1,345	1,735	360	9,000	.....	2,230	.....	.....	4,467	448	60
526	.....	(*)	1,224	(*)	(*)	460	521	(*)	.....	(*)	(*)	1,086	(*)	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
5	3	.....	30	26	.....	139	9	.....	6	.....	2	34	.....	62
1,430	575	.....	6,370	4,568	.....	25,118	1,193	.....	1,930	.....	143	6,146	.....	63
1,345	455	.....	3,177	3,081	.....	20,800	963	.....	900	.....	143	4,880	.....	64
.....	.....	(*)	65	.....	(*)	550	312	(*)	.....	(*)	(*)	558	(*)	65

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS.

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises,

Item (For definitions and explanations, see text)		The State	Arkansas	Ashley	Benton	Chicot	Clay	Craighead
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	59	25	.....	2	2	1	2
2	.....dams 1950..	108	43	.....	5	2	1	3
3	.....dams 1940..	6	4	(*)	(*)	(*)	.....	.....
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	7	4	.....	1	.....	.....	.....
5	Timber.....dams 1950..	1	1	.....	.....	.....	.....	.....
6	Earth and rock.....dams 1950..	85	32	.....	4	2	1	.....
7	Other, mixed, and not reported.....dams 1950..	15	6	.....	.....	.....	.....	3
Reservoirs.....enterprises reporting 1950..								
8	.....reservoirs 1950..	80	47	1	1	1	.....	1
9	.....reservoirs 1940..	86	49	1	1	1	.....	1
10	.....reservoirs 1940..	24	21	(*)	(*)	(*)	.....	.....
11	Reservoirs for which capacity was reported.....reservoirs 1950..	74	44	1	1	1	.....	.....
12	.....total capacity, acre-feet 1950..	40,431	35,499	1	2	1	.....	23
13	.....total capacity, acre-feet 1940..	31,992	18,992	(*)	(*)	(*)	.....	.....
Reservoirs by capacity:								
14	1-99 acre-feet.....Reservoirs 1950..	33	17	1	1	1	.....	1
15	100-999 acre-feet.....reservoirs 1950..	28	15	.....	.....	.....	.....	.....
16	1,000 acre-feet and over.....reservoirs 1950..	13	12	.....	.....	.....	.....	.....
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..	3	2	.....	.....	1	.....	.....
18	Earth and rock.....dams 1950..	78	44	1	1	.....	.....	1
19	Other, mixed, and not reported.....dams 1950..	5	3	.....	.....	.....	.....	.....
Canals and ditches.....enterprises reporting 1950..								
20	.....total length, miles 1950..	415	39	4	1	8	12	48
21	.....total length, miles 1940..	683	104	8	(1)	10	21	75
22	.....total length, miles 1940..	78	41	(*)	(*)	(*)	.....	.....
Pipelines and siphons².....enterprises reporting 1950..								
23	.....total length, miles 1950..	36	3	.....	4	2	.....	2
24	.....total length, miles 1950..	19	4	.....	1	1	.....	1
25	.....total length, miles 1940..	13	(1)	(*)	(*)	(*)	.....	.....
Tunnels.....enterprises reporting 1950..								
26	.....total length, feet 1950..	8	8	.....	.....	.....	.....	.....
27	.....total length, feet 1950..	1,701	1,701	.....	.....	.....	.....	.....
Flowing wells.....enterprises reporting 1950..								
28	.....wells 1950..	11	.....	1	.....	1	.....	.....
29	.....wells 1950..	18	.....	1	.....	1	.....	.....
30	.....wells 1940..	.....	.....	(*)	(*)	(*)	.....	.....
Pumped wells.....enterprises reporting 1950..								
31	.....wells 1950..	2,228	510	18	1	15	31	166
32	.....wells 1950..	3,662	866	34	1	22	55	222
33	.....wells 1940..	1,534	597	(*)	(*)	(*)	11	76
34	Wells for which pumping lift was reported.....wells 1949..	3,404	817	34	1	21	52	218
35	.....wells 1949..	58	75	82	65	40	42	37
36	.....wells 1939..	64	83	(*)	(*)	(*)	26	33
Irrigation pumps.....enterprises reporting 1950..								
37	.....pumps 1950..	2,369	543	18	6	19	32	172
38	.....pumps 1950..	4,142	1,043	39	6	28	59	233
39	.....pumps 1940..	1,633	654	(*)	(*)	(*)	12	87
Electric motors used for pumping.....enterprises reporting 1950..								
40	.....electric motors 1950..	1,034	278	5	2	3	14	57
41	.....electric motors 1950..	1,624	454	7	2	5	22	79
Other motors and engines used for pumping.....enterprises reporting 1950..								
42	.....other motors and engines 1950..	1,643	364	16	4	16	27	128
43	.....other motors and engines 1950..	2,512	606	32	4	23	36	150
Season of Irrigation, 1949:								
44	Water delivered only before July 1.....enterprises reporting..	6	.....	.....	.....	.....	.....	.....
45	.....acres irrigated..	522	.....	.....	.....	.....	.....	.....
46	Water delivered before and after July 1.....enterprises reporting..	2,205	534	17	3	.....	31	168
47	.....acres irrigated..	400,610	100,911	6,595	27	5,314	6,401	17,645
48	Water delivered only after July 1.....enterprises reporting..	61	3	1	4	.....	.....	1
49	.....acres irrigated..	4,178	553	120	30	.....	.....	100
Capital Investment:								
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..								
50	.....dollars 1940..	5,766,895	3,193,737	(*)	(*)	(*)	35,700	117,355
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
51	Enterprises reporting.....enterprises 1950..	1,583	329	12	6	15	28	128
52	.....dollars 1950..	8,404,572	1,869,762	147,450	6,775	173,700	380,880	410,858
53	Area irrigated direct.....acres 1949..	297,774	67,331	5,055	51	3,990	6,231	15,608
54	Total capital investment Jan. 1, 1950.....dollars 1950..	14,171,467	5,063,499	(*)	(*)	(*)	416,580	528,213
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....
56	Amount.....dollars 1950..	.....	.....	(*)	(*)	(*)	.....	.....
57	.....dollars 1940..	.....	.....	.....	.....	.....	.....	.....
58	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
59	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....
60	Amount.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....

See footnotes at end of County Table 2, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises, data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Prairie	Pulaski	St. Francis	Washington	White	Woodruff	All other counties
ALL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..	5		2			3	
2 Diversion dams.....dams 1950..	5		4			5	
3 Diversion dams.....dams 1940..	1	(*)		(*)	(*)		(*)
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..	2						
5 Timber.....dams 1950..							
6 Earth and rock.....dams 1950..	3		3			5	
7 Other, mixed, and not reported.....dams 1950..			1				
8 Reservoirs.....enterprises reporting 1950..	10		1				3
9 Reservoirs.....reservoirs 1950..	11		1				3
10 Reservoirs.....reservoirs 1940..		(*)		(*)	(*)		(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	7		1				1
12 Reservoirs.....total capacity, acre-feet 1950..	2,530		7				13
13 Reservoirs.....total capacity, acre-feet 1940..		(*)		(*)	(*)		(*)
Reservoirs by capacity:							
14 1-99 acre feet.....reservoirs 1950..	1		1				1
15 100-999 acre feet.....reservoirs 1950..	5						
16 1,000 acre-feet and over.....reservoirs 1950..	1						
Reservoir dams by material:							
17 Concrete or masonry.....dams 1950..							
18 Earth and rock.....dams 1950..	10		1				2
19 Other, mixed, and not reported.....dams 1950..	1						1
20 Canals and ditches.....enterprises reporting 1950..	47	2	6	1	4	28	3
21 Canals and ditches.....total length, miles 1950..	85	2	9	1	3	58	5
22 Canals and ditches.....total length, miles 1940..	12	(*)	1	(*)	(*)	2	(*)
23 Pipelines and siphons ².....enterprises reporting 1950..	1			2	1	1	3
24 Pipelines and siphons ².....total length, miles 1950..	(1)			1	(1)	1	2
25 Pipelines and siphons ².....total length, miles 1940..		(*)		(*)	(*)	10	(*)
26 Tunnels.....enterprises reporting 1950..							
27 Tunnels.....total length, feet 1950..							
28 Flowing wells.....enterprises reporting 1950..	1						
29 Flowing wells.....wells 1950..	1						
30 Flowing wells.....wells 1940..		(*)		(*)	(*)		(*)
31 Pumped wells.....enterprises reporting 1950..	268	4	43		4	98	3
32 Pumped wells.....wells 1950..	435	5	93		4	152	6
33 Pumped wells.....wells 1940..	275	(*)	40	(*)	(*)	34	(*)
34 Wells for which pumping lift was reported.....wells 1949..	399	3	77		4	144	6
35 Average pumping lift.....feet 1949..	84	25	67		56	34	60
36 Average pumping lift.....feet 1939..	78	(*)	42	(*)	(*)	32	(*)
37 Irrigation pumps.....enterprises reporting 1950..	275	6	49	7	4	103	8
38 Irrigation pumps.....pumps 1950..	455	7	119	7	5	171	13
39 Irrigation pumps.....pumping plants 1940..	283	(*)	41	(*)	(*)	37	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	199	1	13			24	2
41 Electric motors used for pumping.....electric motors 1950..	308	1	20			36	2
42 Other motors and engines used for pumping.....enterprises reporting 1950..	110	5	45	7	4	84	7
43 Other motors and engines used for pumping.....other motors and engines 1950..	148	6	95	7	5	134	11
Season of irrigation, 1949:							
44 Water delivered only before July 1.....enterprises reporting..	1		1				
45 Water delivered only before July 1.....acres irrigated..	40		50				5
46 Water delivered before and after July 1.....enterprises reporting..	268	6	40	5	4	93	613
47 Water delivered before and after July 1.....acres irrigated..	44,228	464	10,289	123	493	19,481	613
48 Water delivered only after July 1.....enterprises reporting..	2		7	2		3	3
49 Water delivered only after July 1.....acres irrigated..	158		207	24		195	31
Capital investment:							
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,019,575	(*)	154,519	(*)	(*)	70,725	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51 Enterprises reporting.....enterprises 1950..	161	2	35	5	4	75	7
52 Amount.....dollars 1950..	810,138	11,251	239,195	5,425	21,200	430,793	44,498
53 Area irrigated direct.....acres 1949..	28,286	322	8,624	63	493	16,077	624
54 Total capital investment Jan. 1, 1950.....dollars 1950..	1,829,713	(*)	393,714	(*)	(*)	501,518	(*)
Indebtedness:¹							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
55 Enterprises reporting.....enterprises 1950..							
56 Amount.....dollars 1950..							
57 Amount.....dollars 1940..		(*)		(*)	(*)		(*)
58 Area irrigated direct.....acres 1949..							
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
59 Enterprises reporting.....enterprises 1950..							
60 Amount.....dollars 1950..							
61 Area irrigated direct.....acres 1949..							

* Not available.
¹ Less than 0.5.
² Pipelines in farm-distribution systems were included in 1940, not included in 1950.
³ Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

	Item (For definitions and explanations, see text)	The State	Arkansas	Ashley	Benton	Chicot	Clay	Craighead
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
1	Total cost of water to farms:							
2	Enterprises reporting.....enterprises..	2,349	546	18	7	19	32	171
3	Cost.....dollars	2,627,245	734,629	30,915	295	37,552	38,317	123,703
4	Area irrigated direct.....acres	419,600	103,195	6,715	57	5,314	6,561	18,025
5	Cost per acre irrigated direct.....dollars	6.74	7.12	4.60	5.18	7.07	5.84	6.86
6	Total cost per irrigated acre.....dollars	6.75	7.13	(3) 4.60	(3) 5.18	(3) 7.07	(3) 5.84	(3) 6.86
6	Total cost per acre-foot of water.....dollars	4.50	4.75	(3)	(3)	(3)	(3)	(3)
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	156	28	6	2	1		5
8	acres irrigated..	27,231	7,426	1,895	7	639		81
9	\$1.00-\$1.99.....enterprises reporting..	65	10		1	1		2
10	acres irrigated..	12,286	1,598		18	110		380
11	\$2.00-\$4.99.....enterprises reporting..	508	97	2	1	7	14	40
12	acres irrigated..	111,499	23,467	1,280	10	2,190	3,421	6,308
13	\$5.00-\$9.99.....enterprises reporting..	1,104	279	10	1	5	13	78
14	acres irrigated..	200,678	51,273	3,540	1	1,605	2,582	7,716
15	\$10.00 and over.....enterprises reporting..	516	132		2	5	5	46
16	acres irrigated..	67,906	19,431		21	770	558	3,540
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	2,344	545	18	7	19	32	171
18	Cost.....dollars	2,824,099	733,891	30,915	295	37,552	38,317	123,703
19	Area supplied primary irrigation.....acres	419,101	103,062	6,715	57	5,314	6,561	18,025
20	Cost per acre supplied.....dollars	6.74	7.12	4.60	5.18	7.07	5.84	6.86
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	14	3					
22	Cost.....dollars	3,146	738					
23	Area supplied supplemental irrigation.....acres	499	133					
24	Cost per acre supplied.....dollars	6.30	5.55					
Cost to farms for purposes other than operation and maintenance:⁴								
25	Enterprises reporting.....enterprises..							
26	Cost.....dollars							
27	Area irrigated direct.....acres							
28	Cost per acre irrigated.....dollars							
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29	Enterprises reporting.....enterprises..	1	1					
30	Amount.....dollars	1,750	1,750					
31	Area irrigated direct.....acres	190	190					
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	2,325	494	18	7	19	32	173
33	Area irrigated.....acres	397,847	81,960	6,715	57	5,314	6,561	18,025
34	Complete-system enterprises ⁵.....enterprises..	2,284	488	18	7	19	32	171
35	Area irrigated.....acres	397,229	81,708	6,715	57	5,314	6,561	18,025
Other farms irrigated:								
36	Enterprises reporting.....number..	330	96	3	1	2	1	12
37	Number of other farms.....farms..	461	153	4	1	2	1	15
38	Area irrigated in other farms.....acres	23,342	9,821	288	3	75	30	466
Enterprises by origin of water supply:⁵								
39	No water from other enterprises.....enterprises reporting..	2,317	490	18	7	19	32	173
40	acres irrigated..	397,229	81,708	6,715	57	5,314	6,561	18,025
41	Part of water from other enterprises.....enterprises reporting..	5	2					
42	acres irrigated..	539	205					
43	All of water from other enterprises.....enterprises reporting..	3	2					
44	acres irrigated..	79	47					
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	2,279	490	18	7	19	32	171
46	acres irrigated..	396,520	81,775	6,715	57	5,314	6,561	18,025
47	Part primary, part supplemental.....enterprises reporting..	8	1					
48	Primary irrigation.....acres irrigated..	918	142					
49	Supplemental irrigation.....acres irrigated..	218	30					
50	All supplemental.....enterprises reporting..	5	1					
51	acres irrigated..	191	13					
Enterprises by number of acres irrigated:⁵								
52	None.....enterprises reporting..	33	2					2
53	1-9 acres.....enterprises reporting..	40	4					7
54	10-29 acres.....enterprises reporting..	147	15					28
55	30-59 acres.....enterprises reporting..	188	44				1	23
56	60-99 acres.....enterprises reporting..	361	97				6	35
57	100-199 acres.....enterprises reporting..	845	203	3		6	10	51
58	200-499 acres.....enterprises reporting..	618	108	10		12	15	27
59	500-999 acres.....enterprises reporting..	86	19	5		1		
60	1,000 acres or more.....enterprises reporting..	7	2					

See footnotes at end of County Table 2, Part 3.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)	Crawford	Cross	Desh#	Drew	Greene	Jackson	Jefferson	Lafayette
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	5	247	28	6	41	112	39	1
2 Cost.....dollars..	1,058	216,949	42,050	31,739	26,109	132,877	44,511	4,845
3 Area irrigated direct.....acres..	124	38,066	7,329	3,868	4,952	20,689	9,280	640
4 Cost per acre irrigated direct.....dollars..	8.53	5.70	5.74	8.21	5.27	6.42	4.80	7.57
5 Total cost per irrigated acre.....dollars..	8.53	5.70	5.74	8.21	5.27	6.42	4.80	7.57
6 Total cost per acre-foot of water ².....dollars..	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	1	15	1	.....	4	10	12	.....
8 .....acres irrigated..	50	1,241	50	.....	465	1,964	2,669	.....
9 \$1.00-\$1.99.....enterprises reporting..	.....	8	2	.....	4	3	1	.....
10 .....acres irrigated..	.....	1,190	700	.....	695	465	340	.....
11 \$2.00-\$4.99.....enterprises reporting..	3	82	8	1	18	25	11	.....
12 .....acres irrigated..	48	16,470	3,568	100	2,261	4,811	3,202	.....
13 \$5.00-\$9.99.....enterprises reporting..	.....	101	11	4	8	47	8	1
14 .....acres irrigated..	.....	15,048	2,011	3,368	765	10,429	2,008	640
15 \$10.00 and over.....enterprises reporting..	1	41	6	1	7	27	7	.....
16 .....acres irrigated..	26	4,117	1,000	400	766	3,020	1,061	.....
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	5	247	28	6	41	112	39	1
18 Cost.....dollars..	1,058	216,801	42,050	31,739	26,109	132,877	44,511	4,845
19 Area supplied primary irrigation.....acres..	124	38,036	7,329	3,868	4,952	20,689	9,280	640
20 Cost per acre supplied.....dollars..	8.53	5.70	5.74	8.21	5.27	6.42	4.80	7.57
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	.....	2	.....	.....	.....	.....	.....	.....
22 Cost.....dollars..	.....	148	.....	.....	.....	.....	.....	.....
23 Area supplied supplemental irrigation.....acres..	.....	30	.....	.....	.....	.....	.....	.....
24 Cost per acre supplied.....dollars..	.....	4.93	.....	.....	.....	.....	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁴								
25 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
26 Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
27 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
30 Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
31 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	6	247	28	6	41	114	52	3
33 Area irrigated.....acres..	124	38,066	7,329	3,868	4,952	20,689	8,955	640
34 Complete-system enterprises ⁵.....enterprises..	5	246	28	6	41	112	38	1
35 Area irrigated.....acres..	124	38,034	7,329	3,868	4,952	20,689	8,955	640
Other farms irrigated:								
36 Enterprises reporting.....number..	.....	36	1	.....	4	16	2	.....
37 Number of other farms.....farms..	.....	46	1	.....	5	22	2	.....
38 Area irrigated in other farms.....acres..	.....	2,150	70	.....	340	889	299	.....
Enterprises by origin of water supply: ⁵								
39 No water from other enterprises.....enterprises reporting..	6	246	28	6	41	114	52	3
40 .....acres irrigated..	124	38,034	7,329	3,868	4,952	20,689	8,955	640
41 Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
42 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	.....	1	.....	.....	.....	.....	.....	.....
44 .....acres irrigated..	.....	32	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	5	245	28	6	41	112	38	1
46 .....acres irrigated..	124	37,703	7,329	3,868	4,952	20,689	8,955	640
47 Part primary, part supplemental.....enterprises reporting..	.....	2	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	333	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	30	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
51 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵								
52 None.....enterprises reporting..	1	.....	.....	.....	.....	2	14	2
53 1-9 acres.....enterprises reporting..	.....	4	1	.....	.....	2	.....	.....
54 10-29 acres.....enterprises reporting..	4	18	1	.....	1	6	4	.....
55 30-59 acres.....enterprises reporting..	1	27	4	.....	6	6	2	.....
56 60-99 acres.....enterprises reporting..	.....	36	1	.....	10	19	2	.....
57 100-199 acres.....enterprises reporting..	.....	90	6	2	16	35	6	.....
58 200-499 acres.....enterprises reporting..	.....	67	9	2	8	38	22	.....
59 500-999 acres.....enterprises reporting..	.....	4	6	.....	.....	5	1	1
60 1,000 acres or more.....enterprises reporting..	.....	1	.....	2	.....	1	.....	.....

¹Enterprises with reported cost of \$0 in 1949 are included.

²Average cost per irrigated acre divided by calculated average quantity of water per acre. (County Table 2, Part 4, line 66.)

³Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.

⁴Not reported by single-farm enterprises.

⁵For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	The State	Arkansas	All other counties
MULTIPLE-FARM ENTERPRISES, 1950			
1 Multiple-farm enterprises, total number ¹.....enterprises..	57	54	3
2 Area irrigated direct.....acres..	21,753	21,235	518
3 Multiple-purpose enterprises.....enterprises..	1	1	.....
4 Area irrigated direct.....acres..	600	600	.....
5 Complete-system enterprises.....enterprises..	53	50	3
6 Area irrigated direct.....acres..	17,633	17,115	518
Enterprises by origin of water supply:¹			
7 No water from other enterprises.....enterprises reporting..	56	53	3
8 acres irrigated.....	20,873	20,355	518
9 Part of water from other enterprises.....enterprises reporting..	1	1	.....
10 acres irrigated.....	880	880	.....
11 All water from other enterprises.....enterprises reporting..	.....	.....	.....
12 acres irrigated.....	.....	.....	.....
Enterprises by delivery of irrigation water:¹			
13 No water delivered.....enterprises reporting..	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	54	51	3
15 acres irrigated.....	18,513	17,995	518
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3	3	.....
17 acres irrigated.....	3,240	3,240	.....
18 Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....
Enterprises by primary and supplemental irrigation:²			
19 All primary.....enterprises reporting..	56	53	3
20 acres irrigated.....	21,583	21,065	518
21 Part primary, part supplemental.....enterprises reporting..	1	1	.....
22 Primary irrigation.....acres irrigated..	80	80	.....
23 Supplemental irrigation.....acres irrigated..	90	90	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....
25 acres irrigated.....	.....	.....	.....
Enterprises by number of farms irrigated direct:¹			
26 None.....enterprises reporting..	.....	.....	.....
27 1-3.....enterprises reporting..	36	33	3
28 4-9.....enterprises reporting..	18	18	.....
29 10-29.....enterprises reporting..	3	3	.....
30 30-99.....enterprises reporting..	.....	.....	.....
31 100-299.....enterprises reporting..	.....	.....	.....
32 300-999.....enterprises reporting..	.....	.....	.....
33 1,000 or more.....enterprises reporting..	.....	.....	.....
Enterprises by acres irrigated direct:¹			
34 None.....enterprises reporting..	.....	.....	.....
35 1-99 acres.....enterprises reporting..	7	6	1
36 100-999 acres.....enterprises reporting..	45	43	2
37 1,000-2,999 acres.....enterprises reporting..	5	5	.....
38 3,000-9,999 acres.....enterprises reporting..	.....	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	.....	.....	.....
Quantities of water reported, 1949:³			
41 Total obtained from all sources ³.....enterprises reporting..	54	52	2
42 percent of all enterprises reporting..	2	9	1
43 acre-feet.....	31,080	30,308	772
44 Surface sources.....enterprises reporting..	15	15	.....
45 acre-feet.....	10,304	10,304	.....
46 Pumped wells.....enterprises reporting..	48	46	2
47 acre-feet.....	19,976	19,204	772
48 Other enterprises.....enterprises reporting..	1	1	.....
49 acre-feet.....	800	800	.....
50 Conveyance loss ³.....enterprises reporting..	13	13	.....
51 acre-feet.....	1,065	1,065	.....
Delivered:³			
52 Direct to farms.....enterprises reporting..	54	52	2
53 acre-feet.....	28,790	28,018	772
54 To other enterprises.....enterprises reporting..	2	2	.....
55 acre-feet.....	1,225	1,225	.....
56 For use other than irrigation.....enterprises reporting..	.....	.....	.....
57 acre-feet.....	.....	.....	.....
Delivered direct to farms for primary irrigation:²			
58 Enterprises reporting.....enterprises..	54	52	2
59 Quantity delivered.....acre-feet..	28,699	27,927	772
60 Area supplied primary irrigation.....acres..	19,351	19,158	193
61 Quantity supplied per acre.....acre-feet..	1.5	1.5	4.0
Delivered direct to farms for supplemental irrigation:²			
62 Enterprises reporting.....enterprises..	1	1	.....
63 Quantity delivered.....acre-feet..	91	91	.....
64 Area supplied supplemental irrigation.....acres..	90	90	.....
65 Quantity supplied per acre.....acre-feet..	1.0	1.0	.....
66 Total quantity per irrigated acre.....acre-feet..	1.5	1.5	4.0
Cost of water to farms for enterprises reporting quantity delivered, 1949:²			
67 Cost for primary irrigation.....dollars..	122,737	122,737	0
68 Average cost per acre-foot.....dollars..	4.28	4.39	0.00
69 Cost for supplemental irrigation.....dollars..	450	450	0
70 Average cost per acre-foot.....dollars..	4.95	4.95	0.00
Measurement of water to farms, 1949:²			
71 No water measured.....enterprises reporting..	17	14	3
72 acres irrigated.....	7,838	7,320	518
73 Part of water measured.....enterprises reporting..	23	23	.....
74 acres irrigated.....	8,726	8,726	.....
75 All water measured.....enterprises reporting..	7	7	.....
76 acres irrigated.....	1,123	1,123	.....

¹For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.
²For intercounty and interstate enterprises, data represent characteristics within the county or State.
³For intercounty and interstate enterprises, data represent characteristics of the entire enterprise.
⁴Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

County Table 3.—ACREAGE IRRIGATED, BY DRAINAGE BASIN ORIGIN OF WATER, AND BY COUNTIES IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950

[Symbols in parentheses refer to drainage basin symbols on map, "Arkansas: Location of Irrigated Land, 1949." Tributaries not shown separately are included in the portion of the basin designated "direct"]

Item (For definitions and explanations, see text)		The State	Arkansas	Ashley	Benton	Chicot	Clay	Craighead	Crawford	Cross
1	Irrigated land, 1949.....acres..	419,101	103,062	6,715	57	5,314	6,561	18,025	124	38,036
	Area irrigated direct, by drainage basin origin of water, 1949: ¹									
2	All basins (Mississippi River).....acres..	419,600	103,195	6,715	57	5,314	6,561	18,025	124	38,066
3	Mississippi River excluding Arkansas River (VI-A).....acres..	312,177	52,830	6,715		5,314	6,561	18,025		38,066
4	Mississippi River direct (1).....acres..	28,229		6,715		5,314				
5	Red River direct (2a).....acres..	649								
6	White River.....acres..	220,634	52,830				6,561	17,556		7,789
7	White River direct (3a).....acres..	43,618	3,526				6,561			
8	Lagru Bayou (3b).....acres..	71,951	49,304							
9	Big Creek (3c).....acres..	19,466								
10	Cache River.....acres..	77,408						17,556		7,789
11	Cache River direct (3d).....acres..	25,972						6,525		
12	Bayou de Vue (3e).....acres..	51,436						11,031		7,789
13	Village River (3f).....acres..	8,191								
14	St. Francis River (4).....acres..	62,665						469		30,277
15	Arkansas River (VI-B): Arkansas River direct (1a).....acres..	107,423	50,365		57				124	

Item (For definitions and explanations, see text)		Desha	Drew	Greene	Jackson	Jefferson	Lafayette	Lawrence	Lee	Lincoln	Lonoke
1	Irrigated land, 1949.....acres..	7,329	3,868	4,952	20,689	9,280	640	5,168	6,230	4,196	43,948
	Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2	All basins (Mississippi River).....acres..	7,329	3,868	4,952	20,689	9,280	640	5,168	6,246	4,196	43,968
3	Mississippi River excluding Arkansas River (VI-A).....acres..	7,329	3,868	4,952	20,689	200	640	5,168	6,246	4,196	5,705
4	Mississippi River direct (1).....acres..	7,329	3,868			200				4,196	
5	Red River direct (2a).....acres..						640				
6	White River.....acres..			4,141	20,689			5,168	6,246		5,705
7	White River direct (3a).....acres..			110	5,757			665			5,705
8	Lagru Bayou (3b).....acres..										
9	Big Creek (3c).....acres..								6,246		
10	Cache River.....acres..			4,031	11,244						
11	Cache River direct (3d).....acres..			3,191	6,696						
12	Bayou de Vue (3e).....acres..			840	4,548						
13	Village River (3f).....acres..				3,688			4,503			
14	St. Francis River (4).....acres..			811							
15	Arkansas River (VI-B): Arkansas River direct (1a).....acres..					9,080					38,263

Item (For definitions and explanations, see text)		Monroe	Phillips	Poinsett	Prairie	Pulaski	St. Francis	Washington	White	Woodruff	All other counties
1	Irrigated land, 1949.....acres..	12,202	1,860	43,615	45,038	334	10,546	147	493	20,020	644
	Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2	All basins (Mississippi River).....acres..	12,202	1,860	43,660	45,097	464	10,546	147	493	20,094	644
3	Mississippi River excluding Arkansas River (VI-A).....acres..	12,202	1,860	43,660	36,202		10,546		493	20,094	616
4	Mississippi River direct (1).....acres..										607
5	Red river direct (2a).....acres..										9
6	White River.....acres..	12,202	1,860	16,907	36,202		6,191		493	20,094	
7	White River direct (3a).....acres..	5,005	700		15,021				493	75	
8	Lagru Bayou (3b).....acres..	1,466			21,181						
9	Big Creek (3c).....acres..	1,134	1,160				6,191				
10	Cache River.....acres..	4,597		16,907							15,284
11	Cache River direct (3d).....acres..	2,702		1,819							5,039
12	Bayou de Vue (3e).....acres..	1,895		15,088							10,245
13	Village River (3f).....acres..										
14	St. Francis River (4).....acres..			26,753			4,355				
15	Arkansas River (VI-B): Arkansas River direct (1a).....acres..				8,895	464		147			28

¹ Acreage irrigated direct by 2 or more irrigation enterprises is counted for each enterprise; acreage supplied a mixture of water from 2 or more basins by a given enterprise is counted for each basin; consequently, the sum of the acreages for a county or a drainage basin may exceed the acreage irrigated direct shown in County Table 2 or Drainage Basin Table 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the drainage basin or State, except where otherwise noted.]

Item (For definitions and explanations, see text)	The State (Mississippi River)	Mississippi River excluding Arkansas River (VI-A)					
		Total	Mississippi River direct	Red River direct	White River		
					Total	White River direct	Laguer Bayou
		(1)	(2a)	(3a)	(3b)		
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	2,382	1,782	83	4	1,316	(*) 241	(*) 411
2 1940..	1,298	878	2	.....	746	.....	.....
3 Interbasin.....enterprises 1950..	20	20	2	.....	18	7	3
4 Farms irrigated direct per enterprise ¹.....farms 1950..	1.2	1.2	1.1	0.5	1.3	1.2	1.5
5 Irrigated land ².....acres 1949..	419,101	312,628	28,229	649	221,160	43,374	72,618
6 1939..	161,601	108,427	14	.....	92,088	11,250	46,462
7 Average per enterprise.....acres 1949..	176	175	340	162	168	180	177
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	176	176	340	162	168	181	177
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	2,325	1,743	83	4	1,277	241	372
10 acres irrigated..	397,847	299,020	28,229	649	207,477	43,433	58,794
Mutual:							
11 Unincorporated.....enterprises..	16	10	.....	.....	10	.....	10
12 acres irrigated..	5,757	3,560	.....	.....	3,560	.....	3,560
13 Incorporated.....enterprises..	2	.....	.....	.....	.....	.....	.....
14 acres irrigated..	(³)	.....	.....	.....	.....	.....	.....
Commercial.....enterprises..							
15	38	28	.....	.....	28	.....	28
16 acres irrigated..	13,153	9,797	.....	.....	9,797	.....	9,797
17 District.....enterprises..	1	1	.....	.....	1	.....	1
18 acres irrigated..	(³)	(³)	.....	.....	(³)	.....	(³)
19 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....
20 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs.....enterprises..	.....	.....	.....	.....	.....	.....	.....
22 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
23 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
24 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
25 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....
26 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
27 Gravity only.....enterprises reporting..	10	9	.....	.....	6	.....	4
28 acres irrigated..	836	835	.....	.....	811	.....	753
29 Pumped only.....enterprises reporting..	136	81	14	1	42	5	17
30 acres irrigated..	17,342	11,758	2,711	9	7,871	587	5,796
31 Gravity and pumped.....enterprises reporting..	7	4	1	.....	3	.....	2
32 acres irrigated..	2,995	2,245	850	.....	1,395	.....	1,380
33 Ground water only (pumped from wells).....enterprises reporting..	2,105	1,619	58	1	1,213	226	361
34 acres irrigated..	367,463	279,617	18,855	640	199,356	40,869	58,590
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	124	69	10	.....	52	10	27
36 acres irrigated..	30,964	18,522	5,813	.....	12,001	1,977	6,232
Stored water:							
37 None stored.....enterprises reporting..	2,324	1,746	80	2	1,278	238	386
38 acres irrigated..	402,760	302,046	27,655	649	211,777	42,890	63,637
39 Part stored.....enterprises reporting..	42	26	2	.....	20	3	17
40 acres irrigated..	12,110	7,672	572	.....	6,460	543	5,917
41 All stored.....enterprises reporting..	16	10	1	.....	8	.....	8
42 acres irrigated..	4,730	3,259	2	.....	3,197	.....	3,197
Sources of surface water, 1949:⁴							
43 Streams (and lakes).....enterprises reporting..	207	116	21	2	81	13	44
44 acres irrigated..	43,214	29,296	9,017	.....	19,650	2,424	13,496
45 Springs.....enterprises reporting..	8	4	2	1	1	.....	.....
46 acres irrigated..	139	96	7	9	80	80	.....
47 Flowing wells.....enterprises reporting..	11	8	2	1	4	.....	1
48 acres irrigated..	2,539	1,774	540	.....	749	.....	108
49 Drainage water.....enterprises reporting..	66	46	1	.....	27	1	13
50 acres irrigated..	9,973	5,208	110	.....	4,313	60	3,174
51 Sewage.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
52 acres irrigated..	182	.....	.....	.....	.....	.....	.....
53 Other sources.....enterprises reporting..	1	1	.....	.....	.....	.....	.....
54 acres irrigated..	435	435	435	.....	.....	.....	.....
Drainage of irrigated land:⁵							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	577	482	21	1	313	74	26
56 Area supplied primary irrigation.....acres 1949..	104,770	85,369	5,183	640	57,463	14,544	4,725
57 Area artificially drained.....acres 1949..	94,467	78,139	5,028	440	52,845	14,444	3,875
58 acres 1939..	13,987	6,784	.....	.....	5,329	(*)	(*)
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	347	303	13	1	211	32	14
60 Area supplied primary irrigation.....acres 1949..	66,116	56,764	2,786	640	37,535	5,747	1,978
61 Area in need of drainage.....acres 1949..	47,996	43,358	2,241	200	27,837	3,626	1,421
62 acres 1939..	2,016	1,264	.....	.....	909	(*)	(*)

See footnotes at end of Drainage Basin Table 1, Part 1.

Drainage Basin Table 1 (Part 1 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940--Continued

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the drainage basin or State, except where otherwise noted]

Item (For definitions and explanations, see text)	Mississippi River excluding Arkansas River (VI-A)--Continued						Arkansas River (VI-B): Arkansas River direct (1a)	
	White River--Continued					St. Francis River (4)		
	Rig Creek (3c)	Cache River			Village River (3f)			
		Total	Cache River direct (3d)	Bayou de Vue (3e)				
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	103	529	157	379	39	385	602
2	..... 1940..	48	(*)	(*)	153	26	130	420
3	Interbasin.....enterprises 1950..	4	8	8	7	3	6	2
4	Farms irrigated direct per enterprise ¹.....farms 1950..	1.3	1.1	1.1	1.2	1.0	1.2	1.2
5	Irrigated land ².....acres 1949..	19,450	77,527	26,157	51,370	8,191	62,590	106,473
6	.....acres 1939..	8,965	20,213	5,785	14,428	5,198	16,325	53,174
7	Average per enterprise.....acres 1949..	189	147	167	136	210	163	177
8	Average acreage irrigated direct per enterprise ¹.....acres 1949..	189	147	167	136	210	163	177
Type of enterprise, 1950:								
9	Single-farm.....enterprises..	103	529	157	379	39	385	584
10	.....acres irrigated..	19,466	77,593	26,157	51,436	8,191	62,665	98,827
Mutual:								
11	Unincorporated.....enterprises.....							6
12	.....acres irrigated.....							2,197
13	Incorporated.....enterprises.....							2
14	.....acres irrigated.....							(3)
Commercial:								
15	.....enterprises.....							10
16	.....acres irrigated.....							3,356
District:								
17	.....enterprises.....							
18	.....acres irrigated.....							
U. S. Bureau of Reclamation:								
19	.....enterprises.....							
20	.....acres irrigated.....							
U. S. Bureau of Indian Affairs:								
21	.....enterprises.....							
22	.....acres irrigated.....							
State:								
23	.....enterprises.....							
24	.....acres irrigated.....							
City:								
25	.....enterprises.....							
26	.....acres irrigated.....							
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
Gravity only:								
27	.....enterprises reporting..		2	1	1		3	1
28	.....acres irrigated..		58	18	40		24	1
Pumped only:								
29	.....enterprises reporting..		19	7	12		24	55
30	.....acres irrigated..		1,479	937	542		1,167	5,584
Gravity and pumped:								
31	.....enterprises reporting..		1	1				3
32	.....acres irrigated..		15	15				750
Ground water only (pumped from wells):								
33	.....enterprises reporting..		100	494	144	39	353	487
34	.....acres irrigated..		19,111	72,595	22,310	50,285	8,191	60,766
Surface (gravity or pumped) and ground water:								
35	.....enterprises reporting..		2	13	4		5	56
36	.....acres irrigated..		346	3,446	2,877	569	708	12,442
Stored water:								
None stored:								
37	.....enterprises reporting..		103	529	157	379	39	382
38	.....acres irrigated..		19,466	77,593	26,157	51,436	8,191	61,965
Part stored:								
39	.....enterprises reporting..						2	16
40	.....acres irrigated..						640	4,438
All stored:								
41	.....enterprises reporting..						1	6
42	.....acres irrigated..						60	1,471
Sources of surface water, 1949:⁴								
Streams (and lakes):								
43	.....enterprises reporting..		1	23	12	11	12	91
44	.....acres irrigated..		9	3,721	3,414	307	629	13,918
Springs:								
45	.....enterprises reporting..							4
46	.....acres irrigated..							43
Flowing wells:								
47	.....enterprises reporting..		1	2	2		1	3
48	.....acres irrigated..		208	433	433		485	765
Drainage water:								
49	.....enterprises reporting..		1	12	1	11	18	21
50	.....acres irrigated..		138	941	97	844	785	4,765
Sewage:								
51	.....enterprises reporting..							1
52	.....acres irrigated..							182
Other sources:								
53	.....enterprises reporting..							
54	.....acres irrigated..							
Drainage of irrigated land:⁵								
Irrigated land drained:								
55	Enterprises reporting.....enterprises 1949..	28	169	55	114	17	149	95
56	Area supplied primary irrigation.....acres 1949..	8,172	25,464	8,395	17,069	4,558	22,083	19,401
57	Area artificially drained.....acres 1949..	6,322	23,646	7,723	15,923	4,558	19,826	16,328
58	.....acres 1939..	564	(*)	(*)	1,471	660	1,455	7,203
Irrigated land in need of drainage:								
59	Enterprises reporting.....enterprises 1949..	25	135	30	107	6	79	44
60	Area supplied primary irrigation.....acres 1949..	4,876	23,304	5,963	17,341	1,630	15,803	9,352
61	Area in need of drainage.....acres 1949..	3,456	17,889	3,912	13,977	1,445	13,080	4,638
62	.....acres 1939..	470	(*)	(*)	294	100	355	752

*Not available. ¹Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise. ²Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries. ³Data for less than 3 enterprises not shown separately. ⁴Enterprises reporting water from more than 1 source are counted for each. ⁵For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises, data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	The State (Mississippi River)	Mississippi River excluding Arkansas River (VI-A)					
		Total	Mississippi River direct (1)	Red River direct (2a)	White River		
					Total	White River direct (3a)	Laguer Bayou (3b)
ALL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..	59	44	3	2	30	4	17
2 Diversion dams.....dams 1950..	108	88	5	20	51	14	23
3 Diversion dams.....dams 1940..	6	3			3	(*)	(*)
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..	7	6			6		6
5 Timber.....dams 1950..	1	1			1		1
6 Earth and rock.....dams 1950..	85	68	5	20	33	13	12
7 Other, mixed, and not reported.....dams 1950..	15	13			11	1	4
8 Reservoirs.....enterprises reporting 1950..	80	47	4	3	36	3	32
9 Reservoirs.....reservoirs 1950..	86	51	4	5	38	3	34
10 Reservoirs.....reservoirs 1940..	24	11			11	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	74	43	2	5	32	3	28
12 Reservoirs.....total capacity, acre-feet 1950..	40,431	23,633	2	213	23,342	430	22,889
13 Reservoirs.....total capacity, acre-feet 1940..	31,992	16,821			16,821	(*)	(*)
Reservoirs by capacity:							
14 1-99 acre-feet.....reservoirs 1950..	33	21	2	5	10	1	8
15 100-999 acre-feet.....reservoirs 1950..	28	13			13	2	11
16 1,000 acre-feet and over.....reservoirs 1950..	13	9			9		9
Reservoir dams by material:							
17 Concrete or masonry.....dams 1950..	3	1	1				
18 Earth and rock.....dams 1950..	78	46	3	4	35	3	31
19 Other, mixed, and not reported.....dams 1950..	5	4		1	3		3
20 Canals and ditches.....enterprises reporting 1950..	415	300	25	2	251	42	62
21 Canals and ditches.....total length, miles 1950..	683	499	42	4	427	78	119
22 Canals and ditches.....total length, miles 1940..	78	41			40	(*)	(*)
23 Pipelines and siphons ¹.....enterprises reporting 1950..	36	21	5		15	4	4
24 Pipelines and siphons ¹.....total length, miles 1950..	19	10	2		8	2	4
25 Pipelines and siphons ¹.....total length, miles 1940..	13	11			10	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	8	4			4		4
27 Tunnels.....total length, feet 1950..	1,701	1,232			1,232		1,232
28 Flowing wells.....enterprises reporting 1950..	11	8	2	1	4		1
29 Flowing wells.....wells 1950..	18	13	2	1	7		1
30 Flowing wells.....wells 1940..						(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	2,228	1,786	69	3	1,263	237	386
32 Pumped wells.....wells 1950..	3,662	2,715	157	5	2,013	370	630
33 Pumped wells.....wells 1940..	1,534	1,048	1		891	(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	3,404	2,526	148	5	1,878	337	592
35 Average pumping lift.....feet 1949..	58	54	46	46	57	59	86
36 Average pumping lift.....feet 1939..	64	(*)	(*)		64	(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	2,369	1,771	83	4	1,309	241	407
38 Irrigation pumps.....pumps 1950..	4,142	2,993	153	6	2,216	398	722
39 Irrigation pumps.....pumps 1940..	1,633	1,102	2		941	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	1,034	696	18	1	575	111	240
41 Electric motors used for pumping.....electric motors 1950..	1,624	1,055	25	3	884	186	360
42 Electric motors used for pumping.....electric motors 1940..	654	425			357	(*)	(*)
43 Other motors and engines used for pumping.....enterprises reporting 1950..	1,643	1,286	70	3	899	161	230
44 Other motors and engines used for pumping.....other motors and engines 1950..	2,512	1,925	128	3	1,324	214	371
45 Other motors and engines used for pumping.....other motors and engines 1940..	979	674	2		581	(*)	(*)
Season of irrigation, 1949:							
46 Water delivered only before July 1.....enterprises reporting..	6	3	1		1	1	
47 Water delivered only before July 1.....acres irrigated..	522	140	50		40	40	
48 Water delivered before and after July 1.....enterprises reporting..	2,205	1,662	71	1	1,235	224	400
49 Water delivered before and after July 1.....acres irrigated..	400,610	297,842	22,733	640	213,739	41,502	70,879
50 Water delivered only after July 1.....enterprises reporting..	61	38	4	1	21	5	3
51 Water delivered only after July 1.....acres irrigated..	4,178	2,361	346	9	1,519	302	649
Capital Investment:							
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	5,766,895	3,607,405	700		3,271,717	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
53 Enterprises reporting.....enterprises 1950..	1,583	1,207	61	2	842	133	242
54 Amount.....dollars 1950..	8,404,572	6,463,928	564,407	18,208	4,424,919	1,056,490	1,312,805
55 Area irrigated direct.....acres 1949..	297,774	225,881	19,931	649	152,387	24,643	47,496
56 Total capital investment Jan. 1, 1950.....dollars 1950..	14,171,467	10,071,333	565,107	18,208	7,696,636	(*)	(*)
Indebtedness:³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
57 Enterprises reporting.....enterprises 1950..							
58 Amount.....dollars 1950..							
59 Amount.....dollars 1940..						(*)	(*)
60 Area irrigated direct.....acres 1949..							
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
61 Enterprises reporting.....enterprises 1950..							
62 Amount.....dollars 1950..							
63 Area irrigated direct.....acres 1949..							

See footnotes at end of Drainage Basin Table 1, Part 2.

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises, data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	Mississippi River excluding Arkansas River (VI-A)—Continued						Arkansas River (VI-B): Arkansas River direct (1a)
	White River—Continued					St. Francis River (4)	
	Big Creek (3c)	Cache River			Village River (3f)		
		Total	Cache River direct (3d)	Bayou de Vue (3e)			
ALL ENTERPRISES							
Irrigation works:							
1	Diversion dams.....enterprises reporting 1950..	1	8	4	4	9	15
2	.....dams 1950..	3	11	6	5	12	20
3	.....1940..	(*)	(*)				3
Diversion dams by material:							
4	Concrete or masonry.....dams 1950..						1
5	.....dams 1950..						17
6	Earth and rock.....dams 1950..	3	5	5		10	17
7	Other, mixed, and not reported.....dams 1950..		6	1	5	2	2
8	Reservoirs.....enterprises reporting 1950..		1		1	4	33
9	.....reservoirs 1950..		1		1	4	35
10	.....1940..	(*)	1	(*)		3	13
11	Reservoirs for which capacity was reported.....reservoirs 1950..		1		1	4	31
12	.....total capacity, acre-feet 1950..		23		23	76	16,798
13	.....1940..	(*)	(*)			13,000	15,171
Reservoirs by capacity:							
14	1-99 acre-feet.....reservoirs 1950..		1		1	4	12
15	100-999 acre-feet.....reservoirs 1950..						15
16	1,000 acre-feet and over.....reservoirs 1950..						4
Reservoir dams by material:							
17	Concrete or masonry.....dams 1950..						2
18	Earth and rock.....dams 1950..		1		1	4	32
19	Other, mixed, and not reported.....dams 1950..						1
20	Canals and ditches.....enterprises reporting 1950..	22	111	26	85	14	25
21	.....total length, miles 1950..	29	180	37	143	21	26
22	.....1940..	7	(*)	(*)		6	1
23	Pipelines and siphons ¹.....enterprises reporting 1950..	3	4	1	3	1	15
24	.....total length, miles 1950..	1	1	(²)	1	(²)	9
25	.....1940..	(²)	(*)	(*)			2
26	Tunnels.....enterprises reporting 1950..						4
27	.....total length, feet 1950..						469
28	Flowing wells.....enterprises reporting 1950..	1	2	2		1	3
29	.....wells 1950..	2	4	4		3	5
30	.....1940..	(*)	(*)				
31	Pumped wells.....enterprises reporting 1950..	102	505	146	366	39	543
32	.....wells 1950..	182	756	209	547	75	947
33	.....1940..	67	(*)	(*)	170	37	486
34	Wells for which pumping lift was reported.....wells 1949..	164	716	189	527	69	878
35	.....Average pumping lift.....feet 1949..	53	36	31	38	34	70
36	.....1939..	39	(*)	(*)	36	30	71
37	Irrigation pumps.....enterprises reporting 1950..	103	524	153	378	39	600
38	.....pumps 1950..	201	816	232	584	79	1,149
39	.....1940..	66	(*)	(*)	181	37	531
40	Electric motors used for pumping.....enterprises reporting 1950..	35	172	41	134	20	339
41	.....electric motors 1950..	52	257	64	193	29	569
42	.....1940..	36	(*)	(*)	48	14	229
43	Other motors and engines used for pumping.....enterprises reporting 1950..	79	404	121	287	27	358
44	.....other motors and engines 1950..	144	542	162	380	53	587
45	.....1940..	31	(*)	(*)	135	22	305
Season of Irrigation, 1949:							
46	Water delivered only before July 1.....enterprises reporting.....					1	3
47	.....acres irrigated.....					50	382
48	Water delivered before and after July 1.....enterprises reporting.....					32	544
49	.....acres irrigated.....	18,955	74,983	25,240	49,743	7,420	102,768
50	Water delivered only after July 1.....enterprises reporting.....					12	23
51	.....acres irrigated.....	85	483	160	323	487	1,817
Capital Investment:							
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	216,750	(*)	(*)	297,745	70,250	334,988
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
53	Enterprises reporting.....enterprises 1950..	76	373	109	261	26	308
54	.....dollars 1950..	431,017	1,528,182	650,536	877,646	96,425	1,456,394
55	.....dollars 1940..	16,902	58,284	20,214	38,070	5,062	71,893
56	Area irrigated direct.....acres 1949..	647,767	(*)	(*)	1,175,391	166,675	1,791,382
Indebtedness:³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
57	Enterprises reporting.....enterprises 1950..						
58	.....dollars 1950..						
59	.....dollars 1940..		(*)	(*)			
60	Area irrigated direct.....acres 1949..						
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
61	Enterprises reporting.....enterprises 1950..						
62	.....dollars 1950..						
63	.....dollars 1940..						

¹Not available

²Pipelines in farm-distribution systems were included in 1940, not included in 1950.

³Less than 0.5.

³Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	The State (Mississippi River)	Mississippi River excluding Arkansas River (VI-A)						
		Total	Mississippi River direct (1)	Red River direct (2a)	White River			
					Total	White River direct (3a)	Laguer Bayou (3b)	
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	2,349	1,766	83	2	1,303	240	408
2	Cost.....dollars..	2,827,245	2,071,007	167,534	4,860	1,490,364	289,861	528,305
3	Area irrigated direct.....acres..	419,600	312,977	28,229	649	221,434	43,433	72,751
4	Cost per acre irrigated direct.....dollars..	6.74	6.62	5.93	7.49	6.73	6.67	7.26
5	Total cost per irrigated acre.....dollars..	6.75	6.62	5.93	7.49	6.74	6.68	7.28
6	Total cost per acre-foot of water.....dollars..	4.50	4.73	(³)	(³)	4.81	(³)	5.20
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	156	112	9	.....	87	19	24
8	.....acres irrigated..	27,231	18,473	2,744	.....	13,576	4,130	4,859
9	\$1.00-\$1.99.....enterprises reporting..	65	51	3	1	32	7	7
10	.....acres irrigated..	12,286	10,320	810	9	7,967	904	1,986
11	\$2.00-\$4.99.....enterprises reporting..	508	407	23	.....	286	52	68
12	.....acres irrigated..	111,499	91,634	10,021	.....	62,483	10,277	18,006
13	\$5.00-\$9.99.....enterprises reporting..	1,104	807	34	1	597	111	198
14	.....acres irrigated..	200,678	141,930	12,182	640	98,267	20,109	31,483
15	\$10.00 and over.....enterprises reporting..	516	389	14	.....	301	51	111
16	.....acres irrigated..	67,906	50,620	2,472	.....	39,141	8,013	16,417
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	2,344	1,761	83	2	1,299	239	407
18	Cost.....dollars..	2,824,099	2,068,259	167,534	4,860	1,488,409	289,699	527,567
19	Area supplied primary irrigation.....acres..	419,101	312,628	28,229	649	221,160	43,374	72,618
20	Cost per acre supplied.....dollars..	6.74	6.62	5.93	7.49	6.73	6.68	7.26
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	14	10	.....	.....	7	2	3
22	Cost.....dollars..	3,146	2,748	.....	.....	1,955	162	738
23	Area supplied supplemental irrigation.....acres..	499	349	.....	.....	274	59	133
24	Cost per acre supplied.....dollars..	6.30	7.87	.....	.....	7.14	2.75	5.55
Cost to farms for purposes other than operation and maintenance: ⁴								
25	Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....
26	Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....
27	Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....
28	Cost per acre irrigated.....dollars..	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29	Enterprises reporting.....enterprises..	1	1	.....	.....	1	.....	1
30	Amount.....dollars..	1,750	1,750	.....	.....	1,750	.....	1,750
31	Area irrigated direct.....acres..	190	190	.....	.....	190	.....	190
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	2,325	1,743	83	4	1,277	241	372
33	Area irrigated.....acres..	397,847	299,020	28,229	649	207,477	43,433	58,794
34	Complete-system enterprises ⁵.....enterprises..	2,284	1,721	83	2	1,259	240	365
35	Area irrigated.....acres..	397,229	298,492	28,229	649	206,981	43,433	58,398
Other farms irrigated:								
36	Enterprises reporting.....number..	330	237	6	.....	181	26	55
37	Number of other farms.....farms..	461	332	6	.....	262	40	92
38	Area irrigated in other farms.....acres..	23,342	16,194	733	.....	12,467	1,972	5,020
Enterprises by origin of water supply: ⁵								
39	No water from other enterprises.....enterprises reporting..	2,317	1,737	83	4	1,272	241	368
40	.....acres irrigated..	397,229	298,492	28,229	649	206,981	43,433	58,398
41	Part of water from other enterprises.....enterprises reporting..	5	4	.....	.....	4	.....	3
42	.....acres irrigated..	539	459	.....	.....	459	.....	359
43	All of water from other enterprises.....enterprises reporting..	3	2	.....	.....	1	.....	1
44	.....acres irrigated..	79	69	.....	.....	37	.....	37
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	2,279	1,718	83	2	1,258	238	367
46	.....acres irrigated..	396,520	298,068	28,229	649	206,933	43,156	58,609
47	Part primary, part supplemental.....enterprises reporting..	8	4	.....	.....	2	1	1
48	.....acres irrigated..	918	693	.....	.....	360	218	142
49	Supplemental irrigation.....acres irrigated..	218	68	.....	.....	38	8	30
50	All supplemental.....enterprises reporting..	5	5	.....	.....	4	1	1
51	.....acres irrigated..	191	191	.....	.....	146	51	13
Enterprises by number of acres irrigated: ⁵								
52	None.....enterprises reporting..	33	16	.....	2	13	1	3
53	1-9 acres.....enterprises reporting..	40	29	3	1	21	2	4
54	10-29 acres.....enterprises reporting..	147	106	1	.....	78	14	9
55	30-59 acres.....enterprises reporting..	188	149	4	.....	107	9	33
56	60-99 acres.....enterprises reporting..	361	277	1	.....	217	32	81
57	100-199 acres.....enterprises reporting..	845	645	21	.....	491	98	163
58	200-499 acres.....enterprises reporting..	618	450	33	.....	307	77	65
59	500-999 acres.....enterprises reporting..	86	65	18	1	40	8	13
60	1,000 acres or more.....enterprises reporting..	7	6	2	.....	3	.....	1

See footnotes at end of Drainage Basin Table 1, Part 3.

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Table with columns for Item (For definitions and explanations, see text), Mississippi River excluding Arkansas River (VI-A)—Continued, White River—Continued, Cache River, Big Creek, Total, Cache River direct, Bayou de Vue, Village River, St. Francis River, and Arkansas River (VI-R): Arkansas River direct. Rows include ALL ENTERPRISES, SINGLE-FARM ENTERPRISES, 1950, and various cost and acreage metrics.

1Enterprises with reported cost of \$0 in 1949 are included. 2Average cost per irrigated acre divided by calculated average quantity of water per acre. (Drainage Basin Table 1, Part 4, line 66.) 3Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data. 4Not reported by single-farm enterprises. 5For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	The State (Mississippi River)	Mississippi River excluding Arkansas River (VI-A): Lagrué Bayou	Arkansas River (VI-B): Arkansas River direct
		(3b)	(1a)
MULTIPLE-FARM ENTERPRISES, 1950			
1 Multiple-farm enterprises, total number ¹.....enterprises..	57	39	18
2 Area irrigated direct.....acres..	21,753	13,957	7,796
3 Multiple-purpose enterprises ¹.....enterprises..	1	1	.....
4 Area irrigated direct.....acres..	600	600	.....
5 Complete-system enterprises ¹.....enterprises..	53	38	15
6 Area irrigated direct.....acres..	17,633	13,397	4,276
Enterprises by origin of water supply: ¹			
7 No water from other enterprises.....enterprises reporting..	56	39	17
8 acres irrigated.....	20,873	13,957	6,916
9 Part of water from other enterprises.....enterprises reporting..	1	.....	1
10 acres irrigated.....	880	.....	880
11 All water from other enterprises.....enterprises reporting..	.....	.....	.....
12 acres irrigated.....	.....	.....	.....
Enterprises by delivery of irrigation water: ¹			
13 No water delivered.....enterprises reporting..	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	54	38	16
15 acres irrigated.....	18,513	13,357	5,156
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3	1	2
17 acres irrigated.....	3,240	600	2,640
18 Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....
Enterprises by primary and supplemental irrigation: ²			
19 All primary.....enterprises reporting..	56	38	18
20 acres irrigated.....	21,583	13,787	7,796
21 Part primary, part supplemental.....enterprises reporting..	1	1	.....
22 Primary irrigation.....acres irrigated..	80	80	.....
23 Supplemental irrigation.....acres irrigated..	90	90	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....
25 acres irrigated.....	.....	.....	.....
Enterprises by number of farms irrigated direct: ¹			
26 None.....enterprises reporting..	.....	.....	.....
27 1-3.....enterprises reporting..	36	23	13
28 4-9.....enterprises reporting..	18	15	3
29 10-29.....enterprises reporting..	3	1	2
30 30-99.....enterprises reporting..	.....	.....	.....
31 100-299.....enterprises reporting..	.....	.....	.....
32 300-999.....enterprises reporting..	.....	.....	.....
33 1,000 or more.....enterprises reporting..	.....	.....	.....
Enterprises by acres irrigated direct: ¹			
34 None.....enterprises reporting..	.....	.....	.....
35 1-99 acres.....enterprises reporting..	7	4	3
36 100-999 acres.....enterprises reporting..	45	32	13
37 1,000-2,999 acres.....enterprises reporting..	5	3	2
38 3,000-9,999 acres.....enterprises reporting..	.....	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	.....	.....	.....
Quantities of water reported, 1949: ²			
41 Total obtained from all sources ³.....enterprises reporting..	54	38	16
42 percent of all enterprises reporting..	2	2	3
43 acre-feet.....	31,080	17,888	13,192
44 Surface sources.....enterprises reporting..	15	11	4
45 acre-feet.....	10,304	4,570	5,734
46 Pumped wells.....enterprises reporting..	48	33	15
47 acre-feet.....	19,976	13,318	6,658
48 Other enterprises.....enterprises reporting..	1	.....	1
49 acre-feet.....	800	.....	800
50 Conveyance loss ³.....enterprises reporting..	13	8	5
51 acre-feet.....	1,065	521	544
Delivered: ³			
52 Direct to farms.....enterprises reporting..	54	38	16
53 acre-feet.....	28,790	16,942	11,848
54 To other enterprises.....enterprises reporting..	2	1	1
55 acre-feet.....	1,225	425	800
56 For use other than irrigation.....enterprises reporting..	.....	.....	.....
57 acre-feet.....	.....	.....	.....
Delivered direct to farms for primary irrigation: ²			
58 Enterprises reporting.....enterprises..	54	38	16
59 Quantity delivered.....acre-feet..	28,699	16,851	11,848
60 Area supplied primary irrigation.....acres..	19,351	12,442	6,909
61 Quantity supplied per acre.....acre-feet..	1.5	1.4	1.7
Delivered direct to farms for supplemental irrigation: ²			
62 Enterprises reporting.....enterprises..	1	1	.....
63 Quantity delivered.....acre-feet..	91	91	.....
64 Area supplied supplemental irrigation.....acres..	90	90	.....
65 Quantity supplied per acre.....acre-feet..	1.0	1.0	.....
66 Total quantity per irrigated acre ⁴.....acre-feet..	1.5	1.4	1.7
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²			
67 Cost for primary irrigation.....dollars..	122,737	72,046	50,691
68 Average cost per acre-foot.....dollars..	4.28	4.28	4.28
69 Cost for supplemental irrigation.....dollars..	450	450	.....
70 Average cost per acre-foot.....dollars..	4.95	4.95	.....
Measurement of water to farms, 1949: ²			
71 No water measured.....enterprises reporting..	17	8	9
72 acres irrigated.....	7,838	3,560	4,278
73 Part of water measured.....enterprises reporting..	23	18	5
74 acres irrigated.....	8,726	6,214	2,512
75 All water measured.....enterprises reporting..	7	5	2
76 acres irrigated.....	1,123	688	435

¹For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State. ²For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State. ³For interbasin and interstate enterprises, data represent characteristics of the entire enterprise. ⁴Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

IRRIGATION OF AGRICULTURAL LANDS

OKLAHOMA

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LEGEND

- LESS THAN 5,000 ACRES
- 20,000 - 49,999 ACRES

OKLAHOMA: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	142,246	36,006,603	466	34,071	44,209	166	13,076,010
1945.....	164,790	36,161,822	74	2,237	(*)	(*)	(*)
1940.....	179,687	34,803,317	275	34,437	4,160	120	272,186
1935.....	213,325	35,334,870	184	41,361	(*)	(*)	(*)
1930.....	203,866	33,790,817	99	52,109	1,573	77	160,099
1920.....	191,988	31,951,934	73	(**)	2,969	33	151,325
1910.....	190,192	28,859,353	137	(**)	4,388	114	47,200
1900.....	108,000	22,988,339	124	2,759	(*)	(*)	21,872
1890.....	8,826	1,606,423	(*)	(*)	(*)	(*)	(*)

*Not available. **Available data not comparable. ¹Census of Agriculture. ²Farms reporting irrigated land, 1950, 1945, 1900, and 1890 Censuses; farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; and farms reporting irrigated crops, 1930, 1920, and 1910 Censuses. ³Irrigated land from which crops were harvested plus 406 acres of irrigated land used only for pasture. ⁴Irrigated land from which crops were harvested. ⁵Acres of irrigated crops including some duplication where 2 or more crops were harvested from the same land.

State Table 2.—CHARACTERISTICS OF IRRIGATION ENTERPRISES: 1920 TO 1950

[For interstate enterprises, data represent characteristics within the State]

Item (For definitions and explanations, see text)	Census of—			
	1950	1940	1930	1920
1 Enterprises..... total number..	166	120	77	33
Enterprises by type:				
2 Single-farm..... number..	164	101	76	(*)
Mutual:				
3 Unincorporated..... number..	1			(*)
4 Incorporated..... number..			1	(*)
5 Commercial..... number..				(*)
6 District..... number..				(*)
7 U.S. Bureau of Reclamation ¹ number..	1			(*)
8 U.S. Bureau of Indian Affairs..... number..		18		(*)
9 State..... number..				(*)
10 City..... number..				(*)
11 Other..... number..		1		(*)
12 Irrigated land, total ² acres..	44,209	4,160	1,573	2,969
Acres irrigated, by type of enterprise: ³				
13 Single-farm..... acres..	11,653	3,816	1,453	969
Mutual:				
14 Unincorporated..... acres..	(⁴)		120	2,000
15 Incorporated..... acres..				
16 Commercial..... acres..				
17 District..... acres..				
18 U.S. Bureau of Reclamation ¹ acres..	532,256			
19 U.S. Bureau of Indian Affairs..... acres..		334		
20 State..... acres..				
21 City..... acres..				
22 Other..... acres..		10		
Acres irrigated, by source of water: ^{3 6}				
23 Streams (and lakes)..... acres..	35,282	2,911	729	2,710
24 Springs..... acres..	98	21	5	6
25 Flowing wells..... acres..				18
26 Pumped wells..... acres..	9,368	792	63	107
27 Sewage..... acres..				
28 Other and not reported..... acres..	39	340	776	128
29 Irrigated land artificially drained..... acres..	2,060	429	95	
30 Irrigated land in need of drainage..... acres..	700	106	50	1,020
Irrigation works:				
31 Diversion dams..... total number..	20	8	4	7
32 Reservoirs..... number..	29	20	7	8
33 Total capacity (reported)..... acre-feet..	140,945	400	293	52
34 Reservoir dams..... total number..	29	21	3	3
35 Canals and ditches..... total length, miles..	354	42	24	57
36 Pipe lines..... total length, miles..	19	24	1	4
37 Flowing wells..... number..				19
38 Pumped wells..... number..	160	77	18	
39 Average pumping lift (reported)..... feet..	63	48	(*)	(*)
40 Pumps..... number..	226	116	30	26
41 Average pumping lift from all sources..... feet..	(*)	36	33	59
42 Capital investment, total..... dollars..	13,076,010	272,186	160,099	151,325
Capital investment by type of enterprise:				
43 Single-farm..... dollars..	903,321	180,892	85,099	110,658
Mutual:				
44 Unincorporated..... dollars..	(⁴)		75,000	40,667
45 Incorporated..... dollars..				
46 Commercial..... dollars..				
47 District..... dollars..				
48 U.S. Bureau of Reclamation ¹ dollars..	512,081,395			
49 U.S. Bureau of Indian Affairs..... dollars..	89,655	89,655		
50 State..... dollars..				
51 City..... dollars..				
52 Other..... dollars..	1,639	1,639		

*Not available. ¹For 1950, not including Bureau of Reclamation projects operated by water users, which are classified under other types of enterprises. ²Acres reported by irrigation enterprises. For 1950, acreage supplied primary irrigation; for 1940, acreage irrigated by "primary enterprises"; for 1920 and 1930, "primary" and "supplemental" irrigation not differentiated. (See text.) ³For 1950, acreage reported by more than 1 type of enterprise, or from more than 1 source is included for each; for 1940, acreage reported by both "primary" and "supplemental" enterprises is included for each type of enterprise and for each source of water. ⁴Data for less than 3 enterprises not shown separately. ⁵Data for less than 3 enterprises shown with permission of the enterprise. ⁶Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City water" and "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "Lakes, gravity" and "Streams pumped, wells pumped" are omitted.

State Table 3 of the standard series for Oklahoma omitted because of the small number of reports.

State Table 4 (Part 1 of 3).—COMPLETE SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated by 2 or more enterprises are counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²			Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped					
ENTERPRISES: FARMS AND LAND IRRIGATED								
1 Number of enterprises.....enterprises..	165	9	46	100	10	137	25	3
2 Farms irrigated direct per enterprise.....farms..	2.6	29.0	1.1	1.0	0.9	1.0	1.3	83.7
3 Area irrigated.....acres..	44,299	33,187	1,604	8,790	628	4,082	5,410	34,717
4 Average per enterprise.....acres..	268	3,687	35	88	63	30	216	11,572
CHARACTERISTICS OF ENTERPRISES								
5 Multiple-purpose enterprises.....enterprises..	1	1						1
6 Area irrigated.....acres..	32,256	32,256						32,256
Type of enterprise:								
7 Single-farm.....enterprises..	163	8	45	100	10	137	24	2
8 Area.....acres..	11,653	931	1,304	8,790	628	4,082	5,110	(4)
Mutual:								
9 Unincorporated.....enterprises..	1		1					
10 Area.....acres irrigated..	(4)		(4)				(4)	1
11 Incorporated.....enterprises..								
12 Area.....acres irrigated..								
13 Commercial.....enterprises..								
14 Area.....acres irrigated..								
15 District.....enterprises..								
16 Area.....acres irrigated..								
17 U.S.Bureau of Reclamation ⁵.....enterprises..	1	1						1
18 Area.....acres irrigated..	32,256	32,256						32,256
19 U.S.Bureau of Indian Affairs.....enterprises..								
20 Area.....acres irrigated..								
21 State.....enterprises..								
22 Area.....acres irrigated..								
23 City.....enterprises..								
24 Area.....acres irrigated..								
Enterprises by primary and supplemental irrigation:⁶								
25 All primary.....enterprises reporting..	165	9	46	100	10	137	25	3
26 Area.....acres irrigated..	44,209	33,187	1,604	8,790	628	4,082	5,410	34,717
27 Part primary, part supplemental.....enterprises reporting..								
28 Primary irrigation.....acres irrigated..								
29 Supplemental irrigation.....acres irrigated..								
30 All supplemental.....enterprises reporting..								
31 Area.....acres irrigated..								
Enterprises by number of farms irrigated:								
32 1-3.....enterprises reporting..	162	7	45	100	10	137	23	2
33 4-9.....enterprises reporting..	2	1	1				2	
34 10-29.....enterprises reporting..								
35 30-99.....enterprises reporting..								
36 100-299.....enterprises reporting..								
37 300-999.....enterprises reporting..	1	1						1
38 1,000 and over.....enterprises reporting..								
Enterprises by acreage irrigated:								
39 1-29.....enterprises reporting..	73	4	30	37	2	73		
40 30-99.....enterprises reporting..	64	2	13	42	7	64		
41 100-499.....enterprises reporting..	23	1	3	19				
42 500-999.....enterprises reporting..	2	1						
43 1,000-2,999.....enterprises reporting..	2				1		2	
44 3,000-9,999.....enterprises reporting..				2				2
45 10,000-29,999.....enterprises reporting..								
46 30,000 and over.....enterprises reporting..	1	1						1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER								
Surface water:								
47 Gravity only.....enterprises reporting..	9	9				6	2	1
48 Area.....acres irrigated..	33,187	33,187				119	012	32,256
49 Pumped only.....enterprises reporting..	46		46			43	3	
50 Area.....acres irrigated..	1,604		1,604			938	666	
51 Gravity and pumped.....enterprises reporting..	50				2	2		
52 Area.....acres irrigated..					50	50		
53 Ground water only (pumped from wells).....enterprises reporting..	100			100		79	19	2
54 Area.....acres irrigated..	8,790			8,790		2,497	3,832	2,461
55 Surface (gravity or pumped) and ground.....enterprises reporting..	8				8	7	1	
56 Area.....acres irrigated..	578				578	478	100	
Stored water:								
57 None stored.....enterprises reporting..	142	5	36	93	8	120	20	2
58 Area.....acres irrigated..	9,877	234	1,516	7,549	578	3,778	3,638	2,461
59 Part stored.....enterprises reporting..	11	1	5	3	2	8	3	
60 Area.....acres irrigated..	1,286	640	24	572	50	114	1,172	
61 All stored.....enterprises reporting..	12	3	5	4		9	2	1
62 Area.....acres irrigated..	33,046	32,313	64	669		190	600	32,256

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded. ² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ³ Surface water includes water from springs and from flowing wells. ⁴ Data for less than 3 enterprises not shown separately. ⁵ Data for less than 3 enterprises shown with permission of the enterprise. ⁶ For interstate enterprises, data represent characteristics within the State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4. (Part 2 of 3).—COMPLETE-SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises, data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise]

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²		
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped					
SOURCES OF SURFACE WATER⁴								
1 Streams (and lakes).....enterprises reporting..	5	9	38	9	49	6	1	
2 .....acres irrigated..	35,282	33,187	1,477	618	1,448	1,578	32,256	
3 Springs.....enterprises reporting..	4	4	4	4	4	4	4	
4 .....acres irrigated..	98	98	98	98	98	98	98	
5 Flowing wells.....enterprises reporting..	5	5	5	5	5	5	5	
6 .....acres irrigated..	39	39	39	39	39	39	39	
7 Drainage water.....enterprises reporting..	5	4	4	1	5	5	5	
8 .....acres irrigated..	39	29	29	10	39	39	39	
9 Sewage.....enterprises reporting..	1	1	1	1	1	1	1	
10 .....acres irrigated..	1	1	1	1	1	1	1	
11 Other sources.....enterprises reporting..	1	1	1	1	1	1	1	
12 .....acres irrigated..	1	1	1	1	1	1	1	
DRAINAGE OF IRRIGATED LAND								
Irrigated land drained:								
13 Enterprises reporting.....enterprises..	7	2	2	2	6	6	1	
14 Acreage supplied primary irrigation.....acres..	30,167	30,058	27	22	60	111	30,056	
15 Acreage artificially drained.....acres..	2,060	2,001	27	22	10	60	2,000	
Irrigated land in need of drainage:								
16 Enterprises reporting.....enterprises..	1	1	1	1	1	1	1	
17 Acreage supplied primary irrigation.....acres..	30,056	30,056	700	700	700	700	30,056	
18 Acreage in need of drainage.....acres..	700	700	700	700	700	700	700	
IRRIGATION WORKS								
19 Diversion dams.....enterprises reporting..	19	7	6	6	17	2	2	
20 .....dams..	20	8	6	6	17	3	3	
Diversion dams by material:								
21 Concrete or masonry.....dams..	4	3	3	1	2	2	2	
22 Timber.....dams..	15	4	6	5	15	1	1	
23 Earth or rock.....dams..	1	1	1	1	1	1	1	
24 Other, mixed, and not reported.....dams..	15	4	6	5	15	1	1	
25 Reservoirs.....enterprises reporting..	23	4	12	5	18	4	1	
26 .....reservoirs..	29	5	16	6	23	5	1	
27 Reservoirs for which capacity was reported.....reservoirs..	27	5	14	6	21	5	1	
28 .....total capacity, acre-feet..	148,945	148,687	176	75	227	78	148,640	
Reservoirs by capacity:								
29 1-99 acre-feet.....reservoirs..	26	4	14	6	21	5	1	
30 100-999 acre-feet.....reservoirs..	1	1	1	1	1	1	1	
31 1,000 acre-feet and over.....reservoirs..	1	1	1	1	1	1	1	
Reservoir dams; by material:								
32 Concrete or masonry.....dams..	4	1	3	3	3	3	3	
33 Earth or rock.....dams..	24	4	12	6	19	5	1	
34 Other, mixed, and not reported.....dams..	1	1	1	1	1	1	1	
35 Canals and ditches.....enterprises reporting..	52	7	5	35	40	11	1	
36 .....total length, miles..	354	290	8	49	56	29	270	
37 Pipelines and siphons.....enterprises reporting..	28	3	15	8	24	3	1	
38 .....total length, miles..	19	4	8	7	9	6	3	
39 Tunnels.....enterprises reporting..	1	1	1	1	1	1	1	
40 .....total length, feet..	1	1	1	1	1	1	1	
41 Flowing wells.....enterprises reporting..	108	108	108	108	108	108	108	
42 .....wells..	159	159	159	159	159	159	159	
43 Pumped wells.....enterprises reporting..	151	151	151	151	151	151	151	
44 .....wells..	62	62	62	62	62	62	62	
45 Wells for which pumping lift was reported.....wells..	156	156	156	156	156	156	156	
46 Average pumping lift.....feet..	226	226	226	226	226	226	226	
47 Irrigation pumps.....enterprises reporting..	156	46	100	10	131	23	2	
48 .....pumps..	30	2	24	4	28	2	5	
49 Electric motors used for pumping.....enterprises reporting..	45	2	35	8	42	3	3	
50 .....electric motors..	134	44	83	7	109	23	2	
51 Other motors and engines used for pumping.....enterprises reporting..	179	50	118	11	139	35	5	
52 .....other motors and engines..	179	50	118	11	139	35	5	
SEASON OF IRRIGATION								
Enterprises reporting and acreage irrigated:								
53 Water delivered only before July 1.....enterprises reporting..	9	4	5	9	9	9	9	
54 .....acres irrigated..	197	79	118	9	197	18	2	
55 Water delivered before and after July 1.....enterprises reporting..	107	8	26	64	87	18	2	
56 .....acres irrigated..	40,098	33,185	945	5,350	2,802	4,040	33,256	
57 Water delivered only after July 1.....enterprises reporting..	43	1	13	28	38	5	5	
58 .....acres irrigated..	1,923	2	270	1,641	1,033	890	1,033	
NEW CAPITAL INVESTMENT								
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
59 Enterprises reporting.....enterprises..	134	8	37	82	7	19	2	
60 Amount.....dollars..	12,802,724	12,123,985	114,452	525,837	38,440	298,400	12,105,395	
61 Area irrigated.....acres..	40,852	33,132	1,132	6,020	568	4,010	33,256	
INDEBTEDNESS⁶								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
62 Enterprises reporting.....enterprises..	1	1	1	1	1	1	1	
63 Amount.....dollars..	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	
64 Area irrigated.....acres..	32,256	32,256	32,256	32,256	32,256	32,256	32,256	
Arreage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
65 Enterprises reporting.....enterprises..	1	1	1	1	1	1	1	
66 Amount.....dollars..	1	1	1	1	1	1	1	
67 Area irrigated.....acres..	1	1	1	1	1	1	1	

¹Complete-system¹ irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded. ²Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ³Surface water includes water from springs and from flowing wells. ⁴Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State. ⁵Less than 0.5. ⁶Not reported by single-farm enterprises.

State Table 4 (Part 3 of 3).—COMPLETE SYSTEM IRRIGATION ENTERPRISES BY SURFACE, GROUND, GRAVITY AND PUMPED WATER; AND BY ACREAGE IRRIGATED: CENSUS OF 1950

[For interstate enterprises data represent characteristics within the State, except where otherwise noted. Acreage irrigated by 2 or more enterprises is counted for each enterprise¹

Item (For definitions and explanations, see text)	Total complete- system enterprises ¹	Type of water ²				Acres irrigated ²		
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped					
COST OF WATER TO FARMS⁴								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	165	9	46	100	10	137	25	3
Cost.....dollars..	132,402	84,409	6,059	39,844	2,090	22,561	23,607	86,234
Area irrigated.....acres..	44,209	33,187	1,604	8,790	628	4,082	5,410	34,717
Cost per acre irrigated.....dollars..	2.99	2.54	3.78	4.53	3.33	5.53	4.36	2.48
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	18	4	4	10	.....	12	5	1
.....acres irrigated..	3,006	216	312	2,478	.....	368	1,177	1,461
\$1.00-\$1.99.....enterprises reporting..	13	1	5	6	1	12	1	.....
.....acres irrigated..	673	18	167	403	85	543	130	.....
\$2.00-\$4.99.....enterprises reporting..	49	2	13	27	7	38	9	2
.....acres irrigated..	36,844	32,896	654	2,821	473	1,658	1,930	33,256
\$5.00-\$9.99.....enterprises reporting..	41	1	10	28	2	32	9	.....
.....acres irrigated..	2,925	55	345	2,455	70	972	1,953	.....
\$10.00 or more.....enterprises reporting..	44	1	14	29	.....	43	1	.....
.....acres irrigated..	761	2	126	633	.....	541	220	.....
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	165	9	46	100	10	137	25	3
Cost.....dollars..	132,402	84,409	6,059	39,844	2,090	22,561	23,607	86,234
Area supplied primary irrigation.....acres..	44,209	33,187	1,604	8,790	628	4,082	5,410	34,717
Cost per acre supplied.....dollars..	2.99	2.54	3.78	4.53	3.33	5.53	4.36	2.48
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Area supplied supplemental irrigation.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Cost per acre supplied.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁵								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Cost per acre irrigated.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁵								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
QUANTITIES OF WATER REPORTED⁵								
Total obtained from all sources ⁶.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acre-feet..	27,500	27,500	.....	.....	.....	.....	.....	27,500
Surface sources.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acre-feet..	27,500	27,500	.....	.....	.....	.....	.....	27,500
Pumped wells.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
Other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
Conveyance loss ⁶.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acre-feet..	9,132	9,132	.....	.....	.....	.....	.....	9,132
Delivered: ⁶								
Direct to farms.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acre-feet..	16,106	16,106	.....	.....	.....	.....	.....	16,106
To other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
For use other than irrigation.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acre-feet..	2,262	2,262	.....	.....	.....	.....	.....	2,262
Delivered to farms for primary irrigation:								
Enterprises reporting.....enterprises..	1	1	.....	.....	.....	.....	.....	1
Quantity delivered.....acre-feet..	16,106	16,106	.....	.....	.....	.....	.....	16,106
Acreage supplied primary irrigation.....acres..	32,256	32,256	.....	.....	.....	.....	.....	32,256
Quantity per acre supplied.....acre-feet..	0.5	0.5	.....	.....	.....	.....	.....	0.5
Delivered to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
Quantity delivered.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
Acreage supplied supplemental irrigation.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Quantity per acre supplied.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	81,734	81,734	.....	.....	.....	.....	.....	81,734
Average cost per acre-foot.....dollars..	5.07	5.07	.....	.....	.....	.....	.....	5.07
Cost for supplemental irrigation.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Average cost per acre-foot.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....
Measurement of water to farms:								
No water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Part of water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
All water measured.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	1
.....acres..	32,256	32,256	.....	.....	.....	.....	.....	32,256

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded. ² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise. ³ Surface water includes water from springs and from flowing wells. ⁴ Enterprises with reported cost of \$0 in 1949 are included. ⁵ Not reported by single-farm enterprises. ⁶ For interstate enterprises, data represent characteristics of the entire enterprise.

IRRIGATION OF AGRICULTURAL LANDS

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND

[1950 data for items shown in italics are

Item (For definitions and explanations, see text)	The State	Adair	Beaver	Caddo	Cherokee	Cimarron	Greer
1 Irrigated farms.....number 1950..	466	9	9	10	5	20	25
2 1945..	74					10	
3 Proportion of all farms.....percent 1950..	0.3	0.5	0.7	0.3	0.2	3.2	1.9
4 Land in irrigated farms.....acres 1950..	271,747	2,401	7,880	2,874	1,562	46,083	5,290
5 1945..	583.1	266.8	875.6	287.4	312.4	2,304.2	211.6
6 Value of land and buildings.....average per farm, dollars 1950..	39,995	4,000	59,727	267,500	2,500	151,050	31,300
7 1945..	75.04	27.30	93.32	114.19	27.78	24.31	179.68
8 Proportion of irrigated farms reporting value.....percent 1950..	84	111	122	20	100	20	100
9 Proportion of land in irrigated farms for which value was reported.....percent 1950..	77	61	89	163	29	53	82
Land in irrigated farms according to use, 1949:							
10 Cropland harvested.....farms reporting..	464	9	9	10	5	20	25
11 acres..	112,225	382	3,199	1,563	229	16,754	3,756
12 Cropland used only for pasture.....acres..	9,684	349	55	106	44	146	469
13 Cropland not harvested and not pastured.....acres..	15,676	244	487	230	119	3,230	461
14 Woodland pastured.....acres..	10,543	898		278	842	963	
15 Other pasture (not cropland and not woodland).....acres..	111,372	52	4,009	341	15	24,391	411
16 Land pastured, total.....farms reporting..	337	8	9	10	4	15	19
17 acres..	131,599	1,299	4,064	725	901	25,500	880
18 Irrigated land in farms.....acres 1949..	34,071	211	502	427	90	1,759	1,793
19 1944..	2,237					1,242	
20 Land irrigated by sprinklers.....farms reporting 1949..	76	8	6	3	3	2	3
21 acres 1949..	2,072	207	197	129	35	24	120
Irrigated land in farms according to use, 1949:							
22 Irrigated cropland harvested.....farms reporting..	451	8	9	10	5	20	25
23 acres..	32,420	150	467	330	75	1,594	1,756
24 Irrigated pasture.....farms reporting..	46	2		1	2	3	4
25 acres..	673	20		30	12	73	17
26 Irrigated wild grass pasture.....farms reporting..	11			1	1	1	
27 acres..	218			20	8	60	
28 Irrigated tame grass pasture.....farms reporting..	39	2		1	1	2	4
29 acres..	455	20		10	4	13	17
30 Irrigated cropland not harvested and not pastured.....farms reporting..	42	3	1	2	1	3	1
31 acres..	978	41	35	67	3	92	20
Irrigated farms by acres irrigated in 1949:							
32 1-9 acres.....farms reporting..	69	1		2	1	2	1
33 10-19 acres.....farms reporting..	46	1	1	1			3
34 20-29 acres.....farms reporting..	50	1	1	2	2	3	1
35 30-49 acres.....farms reporting..	70	2	2	2	1	3	4
36 50-99 acres.....farms reporting..	115	1	4	2		6	10
37 100-199 acres.....farms reporting..	87		1	1		3	5
38 200 acres and over.....farms reporting..	29					3	1
Irrigated farms by tenure of operator, 1950:							
39 Full owners.....number..	165	8	4	3	2		7
40 Part owners.....number..	169			3	2	15	9
41 Managers.....number..	11		5	3	2	1	9
42 Tenants.....number..	121	1		4	1	4	9
Land in wholly and in partly irrigated farms:							
Wholly irrigated farms:							
43 All land.....number 1950..	82	1	1		1	5	1
44 acres 1950..	44,299	750	400		140	10,813	320
45 Cropland harvested.....acres 1949..	7,237	35	52		11	450	120
46 acres 1949..	7,454	50	52		20	461	120
Partly irrigated farms:							
47 All land.....number 1950..	384	8	8	10	4	15	24
48 acres 1950..	227,448	1,651	7,480	2,874	1,422	35,270	4,970
49 Cropland harvested, total.....farms reporting 1949..	392	8	8	10	4	15	24
50 acres 1949..	104,988	347	3,147	1,563	218	16,304	3,636
51 Irrigated land.....acres 1949..	26,617	161	450	427	70	1,298	1,673
52 Irrigated cropland harvested.....farms reporting 1949..	369	7	8	10	4	15	24
53 acres 1949..	25,183	115	415	330	64	1,144	1,636
Characteristics of wholly irrigated and nonirrigated farms:							
54 Wholly irrigated farms.....number 1950..	82	1	1		1	5	1
55 Average acreage per farm:							
56 All land.....acres 1949..	540.2	750.0	400.0		140.0	2,162.6	320.0
57 Cropland harvested.....acres 1949..	88.3	35.0	52.0		11.0	90.0	120.0
58 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.2		2.0		(1)	(1)	
59 Vegetables harvested for sale.....acres 1949..	0.4						
60 Small grains (including sorghums).....acres 1949..	29.3						
61 All hay.....acres 1949..	15.5		35.0			26.0	
Farms by tenure of operator:							
62 Full owners and managers.....number 1950..	31	1			1	1	
63 Part owners.....number 1950..	20						
64 Tenants.....number 1950..	31		1		1	1	
65 Value of land and buildings per farm.....dollars 1950..	24,415					3	1
Nonirrigated farms:							
66 Average acreage per farm:							
67 All land.....acres 1949..	141,780	1,910	1,361	3,628	2,317	596	1,271
68 Cropland harvested.....acres 1949..	252.0	98.0	768.5	218.6	123.5	1,770.7	292.3
69 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	83.1	16.7	311.1	91.7	18.6	574.9	136.2
70 Vegetables harvested for sale.....acres 1949..	0.4	0.6	(1)	0.3	0.8	0.1	0.3
71 Small grains (including sorghums).....acres 1949..	0.3	0.7	(1)	0.3	0.1	(1)	0.1
72 All hay.....acres 1949..	52.1	2.1	284.9	44.7	3.8	537.7	64.5
Farms by tenure of operator:							
73 Full owners and managers.....number 1950..	64,028	1,298	477	1,145	7.3	1.7	5.3
74 Part owners.....number 1950..	33,146	238	595	808	1,549	131	528
75 Tenants.....number 1950..	44,606	374	289	1,675	292	311	290
76 Value of land and buildings per farm.....dollars 1950..	12,961	3,861	34,437	13,452	476	154	453
Irrigated farms and irrigated land by origin of water, 1949:							
Individually operated supply works and—							
77 No other irrigation enterprise.....farms reporting..	208	3	9	8	5	16	8
78 1 other irrigation enterprise.....acres irrigated..	11,479	49	502	389	90	1,190	270
79 farms reporting..	11	2					1
80 2 or more other irrigation enterprises.....acres irrigated..	773	63					77
81 farms reporting..							
Not individually operated supply works but—							
82 1 other irrigation enterprise.....farms reporting..	245	4		2		4	16
83 acres irrigated..	21,628	99					
84 2 or more other irrigation enterprises.....farms reporting..	2			38			
85 acres irrigated..	191					569	1,446

See footnote at end of County Table 1.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945

based on reports for only a sample of farms. See text]

Table with 13 columns (Harmon, Harper, Jackson, Kny, Kingfisher, Kiowa, McCurtain, Major, Marshall, Muskogee, Noble, Oklahoma, Pawnee) and 85 rows of data. Includes numerical values and percentages, with some cells containing superscripts like (1).

IRRIGATION OF AGRICULTURAL LANDS

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

[1950 data for items shown in italics are based on reports for only a sample of farms. See text.]

Item (For definitions and explanations, see text)	Pontotoc	Seminole	Texas	Tillman	Tulsa	Woodward	All other counties
1 Irrigated farms.....number 1950..	3	5	11	6	10	4	41
2							
3							
4 Proportion of all farms.....percent 1950..	0.2	0.2	0.9	0.3	0.4	0.3	(¹)
5 Land in irrigated farms.....acres 1950..	205	1,241	71,488	1,395	305	9,085	24,310
6							
7 Value of land and buildings.....average per farm, dollars 1950..	68.3	248.2	6,498.9	232.5	30.5	2,271.2	592.9
8							
9 Proportion of irrigated farms reporting value.....percent 1950..	100	145	145	10	50	68	68
10 Proportion of land in irrigated farms for which value was reported.....percent 1950..		45	91	7	97	78	78
11 Land in irrigated farms according to use, 1949:							
12 Cropland harvested.....farms reporting..	3	4	11	6	10	4	41
13							
14 Cropland used only for pasture.....acres..	33	77	15,221	1,317	192	931	7,214
15							
16 Cropland not harvested and not pastured.....acres..	146	384	1,172	11		318	833
17							
18 Woodland pastured.....acres..	10	97	3,037		9	89	1,847
19							
20 Other pasture (not cropland and not woodland).....acres..	10	97	3,037		55	3	5,087
21							
22 Land pastured, total.....farms reporting..	3	4	51,306	25	1	7,387	5,994
23							
24							
25							
26							
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¹ Less than 0.05.

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Item (For definitions and explanations, see text)		The State	Beaver	Caddo	Cherokee	Cimarron	Garfield	Greer	Harmon	Harper
ALL ENTERPRISES										
Farms and land irrigated:										
1	All irrigation enterprises.....enterprises 1950..	166	7	9	3	14	3	8	14	3
2	1940..	120	(*)	5	(*)	10	(*)	(*)	(*)	4
3	Intercounty enterprises.....enterprises 1950..	2				1		1		
4	Irrigated farms ¹.....farms 1950..	466	9	10	5	20	2	25	13	9
5	Average per enterprise.....farms 1950..	2.8	1.3	1.1	1.7	1.4	0.7	3.1	0.9	3.0
6	Farms irrigated direct per enterprise ².....farms 1950..	2.5	1.0	1.0	1.0	1.2	1.0	3.0	0.9	2.3
7	Irrigated land ¹.....acres 1949..	44,209	462	443	47	1,309	23	2,455	1,015	377
8	acres 1939..	4,160	(*)	141	(*)	1,548	(*)	(*)	(*)	570
9	Average per irrigated farm.....acres 1949..	94.9	51.3	44.3	9.4	65.4	11.5	98.2	78.1	41.9
10	Average per enterprise.....acres 1949..	266	66	49	16	94	8	307	72	126
11	Average acreage irrigated direct per enterprise ².....acres 1949..	266	66	49	16	94	8	307	72	126
Type of enterprise, 1950:										
12	Single-farm.....enterprises..	164	7	9	3	14	3	7	14	2
13	acres irrigated..	11,653	462	443	47	1,309	23	255	1,015	(³)
Mutual:										
14	Unincorporated.....enterprises..	1								1
15	acres irrigated..	(³)								(³)
16	Incorporated.....enterprises..									
17	acres irrigated..									
18	Commercial.....enterprises..									
19	acres irrigated..									
20	District.....enterprises..									
21	acres irrigated..									
22	U. S. Bureau of Reclamation ⁴.....enterprises..	1						1		
23	acres irrigated..	32,256						2,200		
24	U. S. Bureau of Indian Affairs.....enterprises..									
25	acres irrigated..									
26	State.....enterprises..									
27	acres irrigated..									
28	City.....enterprises..									
29	acres irrigated..									
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
30	Gravity only.....enterprises reporting..	9		2		2	1	1		
31	acres irrigated..	33,187		5		695	2	2,200		
32	Pumped only.....enterprises reporting..	46	1	2	3	5	1			1
33	acres irrigated..	1,604	85	214	47	129	20			300
34	Gravity and pumped.....enterprises reporting..	2				1				
35	acres irrigated..	50				40				
36	Ground water only (pumped from wells).....enterprises reporting..	101	5	4		5	1	7	14	2
37	acres irrigated..	8,790	292	119		345	1	255	1,015	77
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	8	1	1		1				
39	acres irrigated..	578	85	60		100				
Stored water:										
40	None stored.....enterprises reporting..	143	6	9	3	10	2	7	14	3
41	acres irrigated..	9,877	427	443	47	540	21	255	1,015	377
42	Part stored.....enterprises reporting..	11				2				
43	acres irrigated..	1,286				680				
44	All stored.....enterprises reporting..	12	1			2	1	1		
45	acres irrigated..	33,046	35			89	2	2,200		
Sources of surface water, 1949:⁵										
46	Streams (and lakes).....enterprises reporting..	56	1	5	3	9	2	1		1
47	acres irrigated..	35,282	85	324	47	964	22	2,200		300
48	Springs.....enterprises reporting..	4	1							
49	acres irrigated..	98	85							
50	Flowing wells.....enterprises reporting..									
51	acres irrigated..									
52	Drainage water.....enterprises reporting..	5								
53	acres irrigated..	39								
54	Sewage.....enterprises reporting..									
55	acres irrigated..									
56	Other sources.....enterprises reporting..									
57	acres irrigated..									
Drainage of irrigated land:⁶										
Irrigated land drained:										
58	Enterprises reporting.....enterprises 1949..	7		1			1			
59	Area supplied primary irrigation.....acres 1949..	30,167		60			2			
60	Area artificially drained.....acres 1949..	2,060		10			1			
61	acres 1939..	202	(*)		(*)		(*)	(*)	(*)	
Irrigated land in need of drainage:										
62	Enterprises reporting.....enterprises 1949..	1								
63	Area supplied primary irrigation.....acres 1949..	30,056								
64	Area in need of drainage.....acres 1949..	700								
65	acres 1939..	106	(*)		(*)		(*)	(*)	(*)	(*)

See footnotes at end of County Table 2, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Item (For definitions and explanations, see text)	Jackson	Kingfisher	McCurtain	Major	Noble	Oklahoma	Texas	Tulsa	All other counties
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	15	8	7	3	3	12	15	9	34
2 1940..	8	(*)	(*)	(*)	(*)	6	4	10	(*)
3 Intercounty enterprises.....enterprises 1950..	1								
4 Irrigated farms ¹.....farms 1950..	227	8	8	7	3	17	11	10	82
5 Average per enterprise.....farms 1950..	15.1	1.0	1.1	2.3	1.0	1.4	0.7	1.1	2.4
6 Farms irrigated direct per enterprise ².....farms 1950..	16.4	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7 Irrigated land ¹.....acres 1949..	32,337	358	68	18	46	201	3,458	77	1,515
8 1939..	308	(*)	(*)	(*)	(*)	53	87	178	(*)
9 Average per irrigated farm.....acres 1949..	142.5	44.8	8.5	2.6	15.3	11.8	314.4	7.7	18.5
10 Average per enterprise.....acres 1949..	2,156	45	10	6	15	17	231	9	45
11 Average acreage irrigated direct per enterprise ².....acres 1949..	2,156	45	10	6	15	17	231	9	45
Type of enterprise, 1950:									
12 Single-farm.....enterprises..	14	8	7	3	3	12	15	9	34
13 acres irrigated..	2,281	358	68	18	46	201	3,458	77	1,515
Mutual:									
14 Unincorporated.....enterprises..									
15 acres irrigated..									
16 Incorporated.....enterprises..									
17 acres irrigated..									
18 Commercial.....enterprises..									
19 acres irrigated..									
20 District.....enterprises..									
21 acres irrigated..									
22 U. S. Bureau of Reclamation ⁴.....enterprises..	1								
23 acres irrigated..	30,056								
24 U. S. Bureau of Indian Affairs.....enterprises..									
25 acres irrigated..									
26 State.....enterprises..									
27 acres irrigated..									
28 City.....enterprises..									
29 acres irrigated..									
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30 Gravity only.....enterprises reporting..	1								3
31 acres irrigated..	30,056								184
32 Pumped only.....enterprises reporting..		1	7	1	2	5		1	16
33 acres irrigated..		161	68	12	44	56		2	466
34 Gravity and pumped.....enterprises reporting..									1
35 acres irrigated..									10
36 Ground water only (pumped from wells).....enterprises reporting..	14	7		2	1	6	15	8	10
37 acres irrigated..	2,281	197		6	2	47	3,458	75	620
38 Surface (gravity or pumped) and ground water.....enterprises reporting..						1			4
39 acres irrigated..						98			235
Stored water:									
40 None stored.....enterprises reporting..	14	8	4	3	2	11	11	8	28
41 acres irrigated..	2,281	358	55	18	39	197	2,586	75	1,143
42 Part stored.....enterprises reporting..			3		1		3		2
43 acres irrigated..			13		7		572		14
44 All stored.....enterprises reporting..	1					1	1	1	4
45 acres irrigated..	30,056					4	300	2	358
Sources of surface water, 1949:⁵									
46 Streams (and lakes).....enterprises reporting..	1	1	4	1	1	4		1	22
47 acres irrigated..	30,056	161	55	12	37	140		2	877
48 Springs.....enterprises reporting..			3						
49 acres irrigated..			13						
50 Flowing wells.....enterprises reporting..									
51 acres irrigated..									
52 Drainage water.....enterprises reporting..					1	2			2
53 acres irrigated..					7	14			18
54 Sewage.....enterprises reporting..									
55 acres irrigated..									
56 Other sources.....enterprises reporting..									
57 acres irrigated..									
Drainage of irrigated land:⁶									
Irrigated land drained:									
58 Enterprises reporting.....enterprises 1949..	1	1				3			
59 Area supplied primary irrigation.....acres 1949..	30,056	20				29			
60 Area artificially drained.....acres 1949..	2,000	20				29			
61 1939..		(*)	(*)	(*)	(*)	(*)			(*)
Irrigated land in need of drainage:									
62 Enterprises reporting.....enterprises 1949..	1								
63 Area supplied primary irrigation.....acres 1949..	30,056								
64 Area in need of drainage.....acres 1949..	700								
65 1939..		(*)	(*)	(*)	(*)				(*)

*Not available.

¹Farms or acres irrigated direct by 2 or more enterprises are counted only once. Number of irrigated farms is from the U.S. Census of Agriculture. Acreage irrigated is from the Census of Irrigation and therefore differs from acreage irrigated in County Table 1. (See text.)

²Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise.

³Data for less than 3 enterprises not shown separately.

⁴Data for less than 3 enterprises shown with permission of the enterprise.

⁵Enterprises reporting water from more than 1 source are counted for each.

⁶For intercounty and interstate enterprises, data represent characteristics within the county or State.

County Table 2 (Part 2 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises, data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)		The State	Beaver	Caddo	Cherokee	Cimarron	Garfield	Greer	Harmon	Harper
ALL ENTERPRISES										
1	Irrigation works:									
2	Diversion dams.....enterprises reporting 1950..	19		1		2			3	
3	.....dams 1950..	20		1		2			3	
3	.....dams 1940..	8	(*)		(*)	2	(*)	(*)	(*)	
4	Diversion dams by material:									
5	Concrete or masonry.....dams 1950..	4		1						
6	Timber.....dams 1950..									
7	Earth and rock.....dams 1950..	15				1			3	
7	Other, mixed, and not reported.....dams 1950..	1				1				
8	Reservoirs.....enterprises reporting 1950..	23				4	1	1		
9	.....reservoirs 1950..	29				4	2	1		
10	.....reservoirs 1940..	20	(*)		(*)	4	(*)	(*)	(*)	
11	Reservoirs for which capacity was reported.....reservoirs 1950..	27				4	2	1		
12	.....total capacity, acre-feet 1950..	148,945				16	36	148,640		
13	.....1940..	900	(*)		(*)	733	(*)	(*)	(*)	
14	Reservoirs by capacity:									
15	1-99 acre-feet.....reservoirs 1950..	26				4	2			
16	100-999 acre-feet.....reservoirs 1950..									
16	1,000 acre-feet and over.....reservoirs 1950..	1						1		
17	Reservoir dams by material:									
18	Concrete or masonry.....dams 1950..	4						1		
19	Earth and rock.....dams 1950..	24				4	2			
19	Other, mixed, and not reported.....dams 1950..	1								
20	Canals and ditches.....enterprises reporting 1950..	52	1	3	1	4	1	4	11	1
21	.....total length, miles 1950..	354	2	10	(1)	11	(1)	36	16	5
22	.....1940..	42	(*)		(*)	11	(*)	(*)	(*)	20
23	Pipelines and siphons ².....enterprises reporting 1950..	28		3	2		1	1		
24	.....total length, miles 1950..	19		1	(1)		(1)	1		
25	.....1940..	24	(*)	1	(*)		(*)	(*)	(*)	
26	Tunnels.....enterprises reporting 1950..									
27	.....total length, feet 1950..									
28	Flowing wells.....enterprises reporting 1950..									
29	.....wells 1950..									
30	.....1940..		(*)		(*)		(*)	(*)	(*)	
31	Pumped wells.....enterprises reporting 1950..	109	6	5		6	1	7	14	2
32	.....wells 1950..	160	6	8		9	1	7	15	4
33	.....1940..	77	(*)	1	(*)		(*)	(*)	(*)	4
34	Wells for which pumping lift was reported.....wells 1949..	152	5	8		8	1	7	14	4
35	.....Average pumping lift.....feet 1949..	63	78	97		141	30	91	61	65
36	.....1939..	48	(*)	(*)	(*)		(*)	(*)	(*)	27
37	Irrigation pumps.....enterprises reporting 1950..	156	7	7	3	12	2	7	13	3
38	.....pumps 1950..	226	9	10	4	15	2	7	15	6
39	.....pumping plants 1940..	116	(*)	6	(*)	4	(*)	(*)	(*)	7
40	Electric motors used for pumping.....enterprises reporting 1950..	30		4		2	1		1	
41	.....electric motors 1950..	45		5		2	1		1	
42	Other motors and engines used for pumping.....enterprises reporting 1950..	134	7	3	3	11	1	7	13	3
43	.....other motors and engines 1950..	179	9	5	4	14	1	7	14	6
44	Season of irrigation, 1949:									
45	Water delivered only before July 1.....enterprises reporting..	9			1	3			2	
46	.....acres irrigated..	197			5	74			110	
47	Water delivered before and after July 1.....enterprises reporting..	107	7	6		11	1	3	7	2
48	.....acres irrigated..	40,098	462	326		1,235	20	2,220	480	77
49	Water delivered only after July 1.....enterprises reporting..	43		3	2		2	5	3	
49	.....acres irrigated..	1,923		117	42		3	235	245	
50	Capital investment:									
51	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	272,186	(*)	9,787	(*)	44,910	(*)	(*)	(*)	19,210
52	New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	135	6	9	3	8	1	8	13	2
53	.....Amount.....dollars 1950..	12,803,824	33,500	44,150	5,600	84,575	250	5,123,000	51,015	13,000
53	.....Area irrigated direct.....acres 1949..	40,852	332	443	47	1,105	2	2,455	835	77
54	Total capital investment Jan. 1, 1950.....dollars 1950..	13,076,010	(*)	53,937	(*)	129,485	(*)	(*)	(*)	32,210
55	Indebtedness: ³									
56	Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	1						1		
57	.....Amount.....dollars 1950..	2,000,000						136,400		
57	.....1940..	15,850	(*)		(*)		(*)	(*)	(*)	
58	Area irrigated direct.....acres 1949..	32,256						2,200		
59	Arreage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
60	Enterprises reporting.....enterprises 1950..									
60	.....Amount.....dollars 1950..									
61	.....Area irrigated direct.....acres 1949..									

See footnotes at end of County Table 2, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940--Continued

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises, data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)		Jackson	Kingfisher	McCurtain	Major	Noble	Oklahoma	Texas	Tulsa	All other counties
ALL ENTERPRISES										
Irrigation works:										
1	Diversions dams.....enterprises reporting 1950..						9			4
2	.....dams 1950..						9			5
3	.....dams 1940..	2	(*)	(*)	(*)	(*)				(*)
Diversions dams by material:										
4	Concrete or masonry.....dams 1950..									3
5	Timber.....dams 1950..						9			2
6	Earth and rock.....dams 1950..									
7	Other, mixed, and not reported.....dams 1950..									
8	Reservoirs.....enterprises reporting 1950..			3		1	2	4	1	6
9	.....reservoirs 1950..			4		1	2	5	1	9
10	.....reservoirs 1940..	1	(*)	(*)	(*)	(*)		1		(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..			4		1	2	5	1	7
12	.....total capacity, acre-feet 1950..			19		23	11	71	2	127
13	.....total capacity, acre-feet 1940..	(*)	(*)	(*)	(*)	(*)		(*)		(*)
Reservoirs by capacity:										
14	1-99 acre-feet.....reservoirs 1950..			4		1	2	5	1	7
15	100-999 acre-feet.....reservoirs 1950..									
16	1,000 acre-feet and over.....reservoirs 1950..									
Reservoir dams by material:										
17	Concrete or masonry.....dams 1950..									3
18	Earth and rock.....dams 1950..			3		1	2	5	1	6
19	Other, mixed, and not reported.....dams 1950..			1						
20	Canals and ditches.....enterprises reporting 1950..	12					1	3		11
21	.....total length, miles 1950..	255					1	6		14
22	.....total length, miles 1940..	1	(*)	(*)	(*)	(*)				(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	1	2	2		2	1	1	1	11
24	.....total length, miles 1950..	3	2	1		1	(¹)	1	1	9
25	.....total length, miles 1940..	1	(*)	(*)	(*)	(*)	1		4	(*)
26	Tunnels.....enterprises reporting 1950..									
27	.....total length, feet 1950..									
28	Flowing wells.....enterprises reporting 1950..									
29	.....wells 1950..		(*)	(*)	(*)	(*)				(*)
30	.....wells 1940..									
31	Pumped wells.....enterprises reporting 1950..	14	7		2	1	7	15	8	14
32	.....wells 1950..	19	15		4	1	9	22	22	18
33	.....wells 1940..		(*)	(*)	(*)	(*)	2	7	10	(*)
34	Wells for which pumping lift was reported.....wells 1949..	19	15		4	1	9	18	22	17
35	.....Average pumping lift.....feet 1949..	43	28		18	25	30	150	24	38
36	.....Average pumping lift.....feet 1939..		(*)	(*)	(*)	(*)	(*)	22	28	(*)
37	Irrigation pumps.....enterprises reporting 1950..	14	8	7	3	3	12	15	9	31
38	.....pumps 1950..	19	12	7	5	3	16	26	25	45
39	.....pumping plants 1940..	6	(*)	(*)	(*)	(*)	5	4	10	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..				2		5	1	5	9
41	.....electric motors 1950..				2		6	1	10	17
42	Other motors and engines used for pumping.....enterprises reporting 1950..	14	8	7	3	2	8	15	5	24
43	.....other motors and engines 1950..	19	12	7	3	2	10	23	15	20
Season of irrigation, 1949:										
44	Water delivered only before July 1.....enterprises reporting..				1					2
45	.....acres irrigated..				2					6
46	Water delivered before and after July 1.....enterprises reporting..	8	5	5	2	1	10	13	8	19
47	.....acres irrigated..	30,471	316	58	16	2	196	2,988	76	1,155
48	Water delivered only after July 1.....enterprises reporting..	5	3			2	2	2	1	13
49	.....acres irrigated..	365	42			44	5	470	1	354
Capital investment:										
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	6,720	(*)	(*)	(*)	(*)	4,590	1,978	11,800	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
51	Enterprises reporting.....enterprises 1950..	13	8	7	3	1	9	14	7	24
52	.....Amount.....dollars 1950..	7,034,053	33,500	16,000	5,479	3,000	23,455	252,400	5,660	75,187
53	.....Area irrigated direct.....acres 1949..	30,836	358	68	18	7	193	3,078	64	934
54	Total capital investment Jan. 1, 1950.....dollars 1950..	7,040,773	(*)	(*)	(*)	(*)	28,045	254,378	17,460	(*)
Indebtedness: ³										
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
55	Enterprises reporting.....enterprises 1950..	1								
56	.....Amount.....dollars 1950..	1,863,600								
57	.....Amount.....dollars 1940..		(*)	(*)	(*)	(*)				(*)
58	Area irrigated direct.....acres 1949..	30,056								
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
59	Enterprises reporting.....enterprises 1950..									
60	.....Amount.....dollars 1950..									
61	.....Area irrigated direct.....acres 1949..									

*Not available.

¹Less than 0.5.

²Pipelines in farm-distribution systems were included in 1940, not included in 1950.

³Not reported in 1940 by enterprises serving less than 5 farms nor in 1950 by single-farm enterprises.

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State	Beaver	Caddo	Cherokee	Cimarron	Garfield	Greer	Harmon	Harper
ALL ENTERPRISES									
Cost of water to farms, 1949:¹									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	165	7	9	3	14	3	8	13	3
2 Cost.....dollars..	132,402	2,295	1,459	80	8,667	45	6,523	2,300	775
3 Area irrigated direct.....acres..	44,209	462	443	47	1,309	23	2,455	1,015	377
4 Cost per acre irrigated direct.....dollars..	2.99	4.97	3.29	1.70	6.62	1.96	2.66	2.27	2.06
5 Total cost per irrigated acre.....dollars..	2.99	4.97	3.29	1.70	6.62	1.96	2.66	2.27	2.06
6 Total cost per acre-foot of water ².....dollars..	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:									
7 Less than \$1.00.....enterprises reporting..	18	.....	2	1	.....	1	2	3	.....
8 .....acres irrigated..	3,006	.....	237	32	.....	2	85	270	.....
9 \$1.00-\$1.99.....enterprises reporting..	13	1	1	.....	.....	1	1	2	.....
10 .....acres irrigated..	673	85	18	.....	.....	20	60	120	.....
11 \$2.00-\$4.99.....enterprises reporting..	49	3	2	2	6	.....	2	6	3
12 .....acres irrigated..	36,844	260	135	15	864	.....	2,230	565	377
13 \$5.00-\$9.99.....enterprises reporting..	41	1	1	.....	5	.....	2	2	.....
14 .....acres irrigated..	2,925	52	20	.....	189	.....	65	60	.....
15 \$10.00 and over.....enterprises reporting..	44	2	3	.....	3	.....	1	.....	.....
16 .....acres irrigated..	761	65	33	.....	256	1	15	.....	.....
Cost of water for primary irrigation:									
17 Enterprises reporting.....enterprises..	165	7	9	3	14	3	8	13	3
18 Cost.....dollars..	132,402	2,295	1,459	80	8,667	45	6,523	2,300	775
19 Area supplied primary irrigation.....acres..	44,209	462	443	47	1,309	23	2,455	1,015	377
20 Cost per acre supplied.....dollars..	2.99	4.97	3.29	1.70	6.62	1.96	2.66	2.27	2.06
Cost of water for supplemental irrigation:									
21 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
22 Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
23 Area supplied supplemental irrigation.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 Cost per acre supplied.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁴									
25 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
26 Cost.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
30 Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
31 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950									
32 Single-farm enterprises.....enterprises..	164	7	9	3	14	3	7	14	2
33 Area irrigated.....acres..	11,653	462	443	47	1,309	23	255	1,015	(⁵)
34 Complete-system enterprises ⁶.....enterprises..	163	7	9	3	14	3	7	13	2
35 Area irrigated.....acres..	11,653	462	443	47	1,309	23	255	1,015	(⁵)
Other farms irrigated:									
36 Enterprises reporting.....number..	3	.....	.....	.....	1	.....	.....	.....	.....
37 Number of other farms.....farms..	6	.....	.....	.....	4	.....	.....	.....	.....
38 Area irrigated in other farms.....acres..	580	.....	.....	.....	569	.....	.....	.....	.....
Enterprises by origin of water supply: ⁶									
39 No water from other enterprises.....enterprises reporting..	164	7	9	3	14	3	7	14	2
40 .....acres irrigated..	11,653	462	443	47	1,309	23	255	1,015	(⁵)
41 Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
42 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
44 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:									
45 All primary.....enterprises reporting..	163	7	9	3	14	3	7	13	2
46 .....acres irrigated..	11,653	462	443	47	1,309	23	255	1,015	(⁵)
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
51 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁶									
52 None.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	1	.....
53 1-9 acres.....enterprises reporting..	39	.....	2	1	2	2	1	.....	.....
54 10-29 acres.....enterprises reporting..	34	.....	3	1	3	1	1	2	1
55 30-59 acres.....enterprises reporting..	41	4	1	1	5	.....	3	4	.....
56 60-99 acres.....enterprises reporting..	23	2	2	.....	1	.....	2	3	1
57 100-199 acres.....enterprises reporting..	13	1	.....	.....	.....	.....	.....	4	.....
58 200-499 acres.....enterprises reporting..	9	.....	1	.....	1	.....	.....	.....	.....
59 500-999 acres.....enterprises reporting..	2	.....	.....	.....	2	.....	.....	.....	.....
60 1,000 acres or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....

See footnotes at end of County Table 2, Part 3.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises, data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	Jackson	Kingfisher	McCurain	Major	Noble	Oklahoma	Texas	Tulsa	All other counties
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	15	8	7	3	3	12	15	9	34
2 Cost.....dollars..	79,213	3,028	603	314	400	1,900	18,905	1,071	4,824
3 Area irrigated direct.....acres..	32,337	358	68	18	46	201	3,458	77	1,515
4 Cost per acre irrigated direct.....dollars..	2.45	8.46	8.87	17.44	8.70	9.45	5.47	13.91	3.18
5 Total cost per irrigated acre.....dollars..	2.45	8.46	8.87	17.44	8.70	9.45	5.47	13.91	3.18
6 Total cost per acre-foot of water ².....dollars..	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:									
7 Less than \$1.00.....enterprises reporting..	2				1		1		5
8 .....acres irrigated..	1,501				2		320		557
9 \$1.00-\$1.99.....enterprises reporting..	3								3
10 .....acres irrigated..	223		5						142
11 \$2.00-\$4.99.....enterprises reporting..	6	2	1			1	4	1	11
12 .....acres irrigated..	30,486	22	5			98	1,261	50	476
13 \$5.00-\$9.99.....enterprises reporting..	3	3	2	1		1	10	1	8
14 .....acres irrigated..	92	211	27	4	37	3	1,877	3	285
15 \$10.00 and over.....enterprises reporting..	1	3	3	2	1	10		7	7
16 .....acres irrigated..	35	125	31	14	7	100		24	55
Cost of water for primary irrigation:									
17 Enterprises reporting.....enterprises..	15	8	7	3	3	12	15	9	34
18 Cost.....dollars..	79,213	3,028	603	314	400	1,900	18,905	1,071	4,824
19 Area supplied primary irrigation.....acres..	32,337	358	68	18	46	201	3,458	77	1,515
20 Cost per acre supplied.....dollars..	2.45	8.46	8.87	17.44	8.70	9.45	5.47	13.91	3.18
Cost of water for supplemental irrigation:									
21 Enterprises reporting.....enterprises..									
22 Cost.....dollars..									
23 Area supplied supplemental irrigation.....acres..									
24 Cost per acre supplied.....dollars..									
Cost to farms for purposes other than operation and maintenance: ⁴									
25 Enterprises reporting.....enterprises..									
26 Cost.....dollars..									
27 Area irrigated direct.....acres..									
28 Cost per acre irrigated.....dollars..									
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29 Enterprises reporting.....enterprises..									
30 Amount.....dollars..									
31 Area irrigated direct.....acres..									
SINGLE-FARM ENTERPRISES, 1950									
32 Single-farm enterprises.....enterprises..	14	8	7	3	3	12	15	9	34
33 Area irrigated.....acres..	2,281	358	68	18	46	201	3,458	77	1,515
34 Complete-system enterprises ⁶.....enterprises..	14	8	7	3	3	12	15	9	34
35 Area irrigated.....acres..	2,281	358	68	18	46	201	3,458	77	1,515
Other farms irrigated:									
36 Enterprises reporting.....number..		2							
37 Number of other farms.....farms..		2							
38 Area irrigated in other farms.....acres..		11							
Enterprises by origin of water supply: ⁶									
39 No water from other enterprises.....enterprises reporting..	14	8	7	3	3	12	15	9	34
40 .....acres irrigated..	2,281	358	68	18	46	201	3,458	77	1,515
41 Part of water from other enterprises.....enterprises reporting..									
42 .....acres irrigated..									
43 All of water from other enterprises.....enterprises reporting..									
44 .....acres irrigated..									
Enterprises by primary and supplemental irrigation:									
45 All primary.....enterprises reporting..	14	8	7	3	3	12	15	9	34
46 .....acres irrigated..	2,281	358	68	18	46	201	3,458	77	1,515
47 Part primary, part supplemental.....enterprises reporting..									
48 Primary irrigation.....acres irrigated..									
49 Supplemental irrigation.....acres irrigated..									
50 All supplemental.....enterprises reporting..									
51 .....acres irrigated..									
Enterprises by number of acres irrigated: ⁶									
52 None.....enterprises reporting..									
53 1-9 acres.....enterprises reporting..		1	5	2	2	5		7	9
54 10-29 acres.....enterprises reporting..	1	3	2	1		6		1	8
55 30-59 acres.....enterprises reporting..	8	2			1		2	1	9
56 60-99 acres.....enterprises reporting..	2					1	3		5
57 100-199 acres.....enterprises reporting..	1	1					4		2
58 200-499 acres.....enterprises reporting..	1						5		1
59 500-999 acres.....enterprises reporting..									
60 1,000 acres or more.....enterprises reporting..	1						1		

¹ Enterprises with reported cost of \$0 in 1949 are included.
² Average cost per irrigated acre divided by calculated average quantity of water per acre. (County Table 2, Part 4, line 66.)
³ Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.
⁴ Not reported by single-farm enterprises.
⁵ Data for less than 3 enterprises not shown separately.
⁶ For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

County Table 2, Part 4, of the standard series for Oklahoma omitted because of the small number of reports.

County Table 3.—ACREAGE IRRIGATED, BY DRAINAGE BASIN ORIGIN OF WATER, AND BY COUNTIES IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950

[Symbols in parentheses refer to drainage basin symbols on map, "Oklahoma: Location of Irrigated Land, 1949." Tributaries not shown separately are included in the portion of the basin designated "direct"]

Item (For definitions and explanations, see text)		The State	Beaver	Caddo	Cherokee	Cimarron	Garfield	Greer	Harmon	Harper
1	Irrigated land, 1949.....acres..	44,209	462	443	47	1,309	23	2,455	1,015	377
Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2	All basins (Mississippi River).....acres..	44,209	462	443	47	1,309	23	2,455	1,015	377
Excluding Arkansas River (VI-A):										
3	Red River (2).....acres..	36,996		443				2,455	1,015	
4	Red River direct (2a).....acres..	989		443						
5	North and Salt Forks (2c).....acres..	34,992						2,455		
6	Prairie Dog Town Fork (2d).....acres..	1,015							1,015	
7	Arkansas River (VI-B).....acres..	7,213	462		47	1,309	23			377
8	Arkansas River direct (1a).....acres..	479			47					
9	Canadian River (2a).....acres..	4,627	462							
10	Cimarron River (3).....acres..	2,107				1,309	23			377

Item (For definitions and explanations, see text)		Jackson	King Fisher	McCurtain	Major	Noble	Oklahoma	Texas	Tulsa	All other counties
1	Irrigated land, 1949.....acres..	32,337	358	68	18	46	201	3,458	77	1,515
Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2	All basins (Mississippi River).....acres..	32,337	358	68	18	46	201	3,458	77	1,515
Excluding Arkansas River (VI-A):										
3	Red River (2).....acres..	32,337		68						678
4	Red River direct (2a).....acres..			68						478
5	North and Salt Forks (2c).....acres..	32,337								200
6	Prairie Dog Town Fork (2d).....acres..									
7	Arkansas River (VI-B).....acres..		358		18	46	201	3,458	77	837
8	Arkansas River direct (1a).....acres..					46			77	309
9	Canadian River (2a).....acres..				18		201	3,458		488
10	Cimarron River (3).....acres..		358							40

¹ Acreage irrigated direct by 2 or more irrigation enterprises is counted for each enterprise; acreage supplied a mixture of water from 2 or more basins by a given enterprise is counted for each basin; consequently, the sum of the acreages for a county or a drainage basin may exceed the acreage irrigated direct shown in County Table 2 or Drainage Basin Table 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the drainage basin or State, except where otherwise noted]

Item (For definitions and explanations, see text)	The State (Mississippi River)	Excluding Arkansas River (VI-A): Red River (2)				Arkansas River (VI-B)				
		Total	Red River direct	North and Salt Forks	Prairie Dog Town Fork	Total	Direct	Canadian River	Cimarron River	
			(2a)	(2c)	(2d)	(1a)	(2a)	(3)		
ALL ENTERPRISES										
Farms and land irrigated:										
1	All irrigation enterprises.....enterprises 1950..	166	65	27	24	14	101	25	47	29
2	1940..	120	39	(*)	(*)		81	33	34	14
3	Interbasin.....enterprises 1950..									
4	Farms irrigated direct per enterprise ¹.....farms 1950..	2.5	4.8	1.0	11.3	0.9	1.1	1.0	1.0	1.3
5	Irrigated land ².....acres 1949..	44,209	36,996	989	34,992	1,015	7,213	479	4,627	2,107
6	1939..	4,160	1,109	727	382		3,051	416	627	2,008
7	Average per enterprise.....acres 1949..	266	569	37	1,458	72	71	19	98	73
8	Average acreage irrigated direct per enterprise ¹.....acres 1949..	266	569	37	1,458	72	71	19	98	73
Type of enterprise, 1950:										
9	Single-farm.....enterprises..	164	64	27	23	14	100	25	47	28
10	acres irrigated..	11,653	4,740	989	2,736	1,015	6,913	479	4,627	1,807
Mutual:										
11	Unincorporated.....enterprises..	1					1			1
12	acres irrigated..	(3)					(3)			(3)
13	Incorporated.....enterprises..									
14	acres irrigated..									
Commercial.....enterprises..										
15	acres irrigated..									
District.....enterprises..										
16	acres irrigated..									
17										
18										
19	U. S. Bureau of Reclamation ⁴.....enterprises..	1	1		1					
20	acres irrigated..	32,256	32,256		32,256					
21	U. S. Bureau of Indian Affairs.....enterprises..									
22	acres irrigated..									
State.....enterprises..										
23	acres irrigated..									
City.....enterprises..										
24	acres irrigated..									
25										
26										
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
27	Gravity only.....enterprises reporting..	9	5	4	1		4		1	3
28	acres irrigated..	33,187	32,488	232	32,256		699		2	697
29	Pumped only.....enterprises reporting..	46	13	13			33	12	12	9
30	acres irrigated..	1,604	459	459			1,145	231	264	650
31	Gravity and pumped.....enterprises reporting..	2	1	1			1			1
32	acres irrigated..	50	10	10			40			40
33	Ground water only (pumped from wells).....enterprises reporting..	101	44	7	23	14	57	12	30	15
34	acres irrigated..	8,790	3,909	158	2,736	1,015	4,881	153	4,108	620
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	8	2	2			6	1	4	1
36	acres irrigated..	578	130	130			448	95	253	100
Stored water:										
37	None stored.....enterprises reporting..	143	59	22	23	14	84	21	39	24
38	acres irrigated..	9,877	4,672	921	2,736	1,015	5,205	461	3,408	1,336
39	Part stored.....enterprises reporting..	11	4	4			7	2	3	2
40	acres irrigated..	1,286	23	23			1,263	11	572	680
41	All stored.....enterprises reporting..	12	2	1	1		10	2	5	3
42	acres irrigated..	33,046	32,301	45	32,256		745	7	647	91
Sources of surface water, 1949:⁵										
43	Streams (and lakes).....enterprises reporting..	56	17	16	1		39	12	13	14
44	acres irrigated..	35,282	33,064	808	32,256		2,218	319	412	1,487
45	Springs.....enterprises reporting..	4	3	3			1		1	
46	acres irrigated..	98	13	13			85		85	
47	Flowing wells.....enterprises reporting..									
48	acres irrigated..									
49	Drainage water.....enterprises reporting..	5	1	1			4	1	3	
50	acres irrigated..	39	10	10			29	7	22	
51	Sewage.....enterprises reporting..									
52	acres irrigated..									
53	Other sources.....enterprises reporting..									
54	acres irrigated..									
Drainage of irrigated land:⁶										
Irrigated land drained:										
55	Enterprises reporting.....enterprises 1949..	7	2	1	1		5		3	2
56	Area supplied primary irrigation.....acres 1949..	30,167	30,116	60	30,056		51		29	22
57	Area artificially drained.....acres 1949..	2,060	2,010	10	2,000		50		29	21
58	acres 1939..	202	185	(*)	(*)		17	(*)	12	
Irrigated land in need of drainage:										
59	Enterprises reporting.....enterprises 1949..	1	1		1					
60	Area supplied primary irrigation.....acres 1949..	30,056	30,056		30,056					
61	Area in need of drainage.....acres 1949..	700	700		700					
62	acres 1939..	106	90	(*)	(*)		16		16	

*Not available.

¹Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise.

²Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries.

³L.U. for less than 3 enterprises not shown separately.

⁴Data for less than 3 enterprises shown with permission of the enterprise.

⁵Enterprises reporting water from more than 1 source are counted for each.

⁶For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS.
CENSUSES OF 1950 AND 1940

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises, data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Item (For definitions and explanations, see text)	The State (Mississippi)	Excluding Arkansas River (VI-A), Red River (2)			Arkansas River (VI-B)				
		Total	Red River direct	North and Salt Forks	Prairie Dog Town Fork	Total	River	Canadian River	Cimarron River
ALL ENTERPRISES									
Irrigation works:									
1 Diversion dams.....enterprises reporting 1950..	19	5	2	.....	3	14	1	11	2
2 Diversion dams.....dams 1950..	20	6	3	.....	3	14	1	11	2
3 Diversion dams.....dams 1940..	8	.....	(*)	(*)	.....	6	1	3	2
Diversion dams by material:									
4 Concrete or masonry.....dams 1950..	4	3	3	.....	.....	1	1	.....	.....
5 Timber.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
6 Earth and rock.....dams 1950..	15	3	.....	.....	3	12	.....	11	1
7 Other, mixed, and not reported.....dams 1950..	1	.....	.....	.....	.....	1	.....	.....	1
8 Reservoirs.....enterprises reporting 1950..	23	7	6	1	.....	16	4	7	5
9 Reservoirs.....reservoirs 1950..	29	9	8	1	.....	20	5	4	5
10 Reservoirs.....reservoirs 1940..	20	5	(*)	(*)	.....	15	7	4	4
11 Reservoirs for which capacity was reported.....reservoirs 1950..	27	7	6	1	.....	20	5	9	4
12 total capacity, acre-feet 1950..	148,945	148,690	50	140,640	.....	255	73	130	62
13 total capacity, acre-feet 1940..	900	46	(*)	(*)	.....	854	(*)	66	734
Reservoirs by capacity:									
14 1-99 acre-feet.....Reservoirs 1950..	26	6	6	.....	.....	20	5	9	6
15 100-999 acre-feet.....Reservoirs 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
16 1,000 acre-feet and over.....Reservoirs 1950..	1	1	.....	1	.....	.....	.....	.....	.....
Reservoir dams by material:									
17 Concrete or masonry.....dams 1950..	4	2	1	1	.....	2	2	.....	.....
18 Earth and rock.....dams 1950..	24	6	6	.....	.....	18	3	.....	.....
19 Other, mixed, and not reported.....dams 1950..	1	1	.....	.....	.....	.....	.....	9	6
20 Canals and ditches.....enterprises reporting 1950..	52	37	8	10	11	15	2	8	5
21 total length, miles 1950..	354	326	15	295	16	27	1	10	16
22 total length, miles 1940..	42	6	(*)	(*)	.....	36	3	2	31
23 Pipelines and siphons ¹.....enterprises reporting 1950..	28	9	6	3	.....	19	10	5	4
24 total length, miles 1950..	19	5	1	4	.....	14	5	6	3
25 total length, miles 1940..	24	5	(*)	(*)	.....	20	12	8	.....
26 Tunnels.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27 Tunnels.....total length, feet 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28 Tunnels.....total length, feet 1940..	.....	.....	.....	.....	.....	.....	.....	.....	.....
29 Flowing wells.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
30 Flowing wells.....wells 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
31 Flowing wells.....wells 1940..	.....	.....	(*)	(*)	.....	.....	.....	.....	.....
32 Pumped wells.....enterprises reporting 1950..	109	46	9	23	14	63	13	34	16
33 Pumped wells.....wells 1950..	160	57	14	20	15	103	27	47	29
34 Pumped wells.....wells 1940..	77	19	(*)	(*)	.....	58	30	26	2
35 Wells for which pumping lift was reported.....wells 1949..	152	56	14	28	14	96	26	42	28
36 Average pumping lift.....feet 1949..	63	61	73	55	61	64	24	87	66
37 Average pumping lift.....feet 1939..	48	57	(*)	(*)	.....	46	(*)	49	(*)
38 Irrigation pumps.....enterprises reporting 1950..	156	59	23	23	13	97	25	46	26
39 Irrigation pumps.....pumps 1950..	226	73	29	29	15	153	46	71	36
40 Irrigation pumps.....pumps 1940..	116	39	(*)	(*)	.....	77	39	29	9
41 Electric motors used for pumping.....enterprises reporting 1950..	30	9	8	.....	.....	21	7	11	3
42 Electric motors used for pumping.....electric motors 1950..	45	13	12	.....	.....	32	13	16	3
43 Electric motors used for pumping.....electric motors 1940..	33	11	(*)	(*)	.....	22	11	11	.....
44 Other motors and engines used for pumping.....enterprises reporting 1950..	134	51	15	23	13	83	18	41	24
45 Other motors and engines used for pumping.....other motors and engines 1950..	179	60	17	29	14	119	32	53	34
46 Other motors and engines used for pumping.....other motors and engines 1940..	83	28	(*)	(*)	.....	55	28	18	9
Season of Irrigation, 1949:									
47 Water delivered only before July 1.....enterprises reporting..	9	2	.....	.....	2	7	2	.....	.....
48 Water delivered only before July 1.....acres irrigated..	197	110	.....	.....	110	87	6	2	3
49 Water delivered before and after July 1.....enterprises reporting..	107	38	20	11	7	69	12	7	74
50 Water delivered before and after July 1.....acres irrigated..	40,098	34,098	837	32,701	480	6,000	253	37	20
51 Water delivered only after July 1.....enterprises reporting..	43	19	5	11	3	24	11	8	5
52 Water delivered only after July 1.....acres irrigated..	1,923	1,097	142	710	245	826	220	561	45
Capital Investment:									
53 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	272,186	55,851	(*)	(*)	.....	216,335	76,431	76,794	63,110
54 New capital investment Jan. 1, 1940, to Jan. 1, 1950:.....dollars 1950..	135	58	25	20	13	77	18	39	20
55 New capital investment Jan. 1, 1940, to Jan. 1, 1950:.....dollars 1949..	12,803,824	12,300,988	92,920	12,157,053	51,015	502,836	33,310	333,601	135,925
56 Total capital investment Jan. 1, 1950.....dollars 1950..	40,852	35,081	955	33,291	835	5,771	391	3,790	1,502
57 Total capital investment Jan. 1, 1950.....dollars 1949..	13,076,010	12,356,839	(*)	(*)	51,015	719,171	109,741	410,395	199,035
Indebtedness:²									
58 Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:.....dollars 1950..	1	1	.....	.....	.....	.....	.....	.....	.....
59 Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:.....dollars 1949..	2,000,000	2,000,000	.....	.....	.....	.....	.....	.....	.....
60 Area irrigated direct.....acres 1950..	15,850	2,029	(*)	2,000,000	.....	.....	.....	.....	.....
61 Area irrigated direct.....acres 1949..	32,256	32,256	.....	32,256	.....	13,821	13,821	.....	.....
62 Area irrigated direct.....acres 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
63 Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Not available.
¹Pipelines in farm distribution systems were included in 1940, not included in 1950.
²Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Table with columns for 'Item', 'The State (Mississippi River)', and sub-sections for 'Arkansas River (VI-A): Red River (2)' (Total, Red River direct, North and Salt Forks, Prairie Dog Town Fork) and 'Arkansas River (VI-B)' (Total, Direct, Canadian River, Cimarron River). Rows include 'ALL ENTERPRISES', 'SINGLE-FARM ENTERPRISES, 1950', and various cost and acreage categories.

1Enterprises with reported cost of \$0 in 1949 are included. 2Average cost per irrigated acre divided by calculated average quantity of water per acre. (Drainage Basin Table 1, Part 4, line 66.) 3Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data. 4Not reported by single-farm enterprises. 5For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

Drainage Basin Table 1, Part 4, of the standard series for Oklahoma omitted because of the small number of reports.

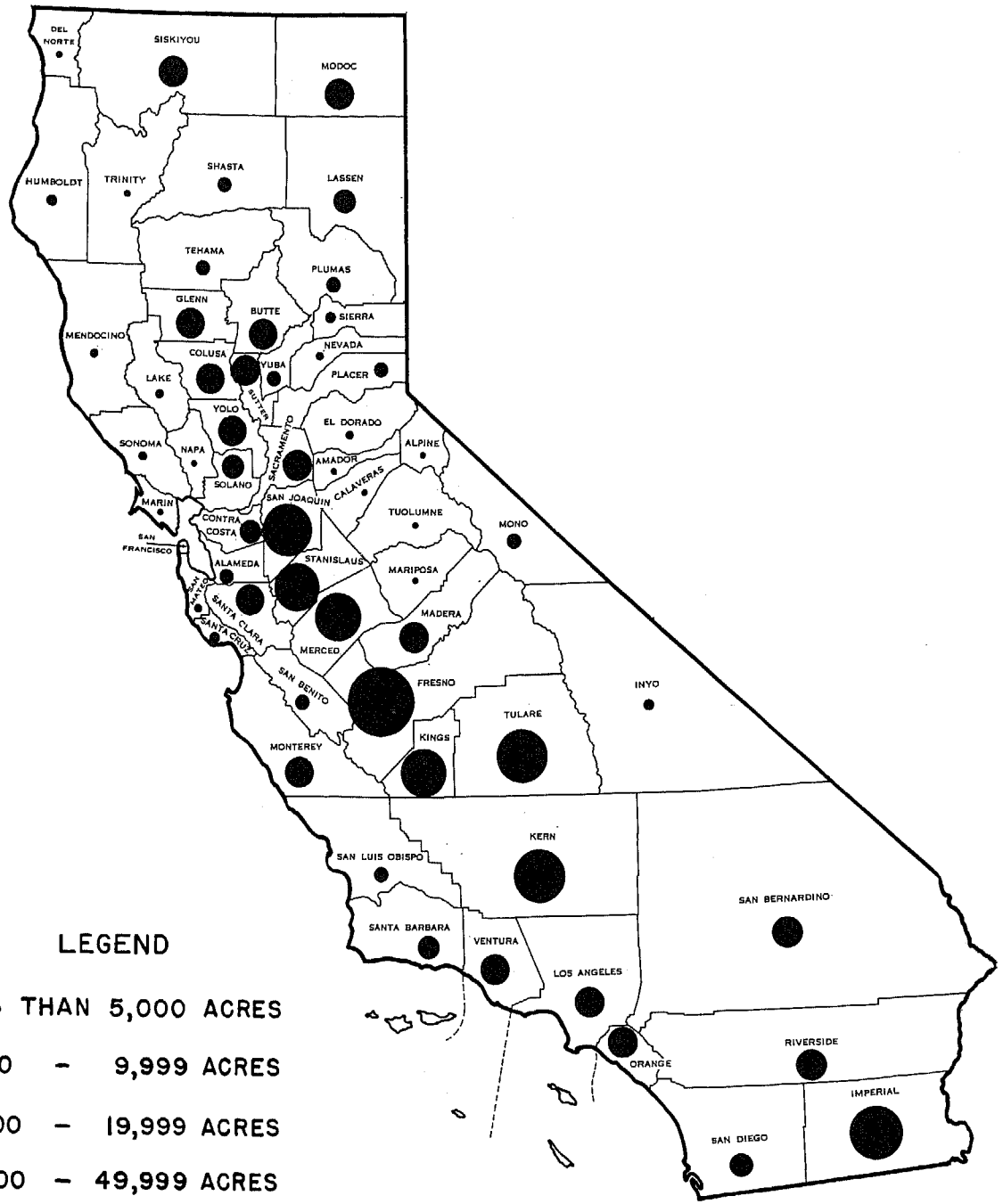
IRRIGATION OF AGRICULTURAL LANDS

CALIFORNIA

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LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 10,000 - 19,999 ACRES
- 20,000 - 49,999 ACRES
- 50,000 - 99,999 ACRES
- 100,000 - 199,999 ACRES
- 300,000 - 399,999 ACRES
- 400,000 - 599,999 ACRES
- 600,000 - 1,000,000 ACRES

CALIFORNIA: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	137,168	36,613,291	90,755	6,438,324	6,598,839	47,613	640,474,185
1945.....	138,917	35,054,379	87,205	4,952,819	(*)	(*)	(*)
1940.....	132,658	30,524,324	84,310	3,426,554	5,069,568	39,975	318,889,218
1935.....	150,360	30,457,995	91,347	4,513,700	(*)	(*)	(*)
1930.....	135,676	30,442,581	85,784	5,540,350	4,746,632	38,117	310,967,979
1920.....	117,670	29,365,667	67,391	39,352	4,219,040	24,115	194,886,388
1910.....	88,197	27,931,444	39,352	(**)	2,664,104	13,970	72,580,030
1900.....	72,542	28,828,951	25,675	1,446,114	(*)	(*)	19,181,610
1890.....	52,894	21,427,293	13,732	1,004,233	(*)	(*)	13,004,817

* Not available.

** Available data not comparable.

¹ Census of Agriculture.

² Farms reporting irrigated land, 1950, 1945, 1900, and 1890 Censuses; farms reporting irrigated cropland harvested and/or irrigated pasture, 1940 Census; farms reporting irrigated cropland harvested, 1935 Census; and farms reporting irrigated crops, 1930, 1920, and 1910 Censuses.

³ Irrigated land from which crops were harvested plus 544,339 acres of irrigated land used only for pasture.

⁴ Irrigated land from which crops were harvested.

⁵ Acreage of irrigated crops including some duplication where 2 or more crops were harvested from the same land.

State Table 2.—CHARACTERISTICS OF IRRIGATION ENTERPRISES: 1920 TO 1950

[For interstate enterprises, data represent characteristics within the State]

Item (For definitions and explanations, see text)	Census of—			
	1950	1940	1930	1920
Enterprises.....total number..	47,613	39,975	38,117	24,115
Enterprises by type:				
Single-farm.....number..	46,107	38,729	37,152	(*)
Mutual:				
Unincorporated.....number..	709	284		(*)
Incorporated.....number..	561	658	577	(*)
Commercial.....number..	80	104	200	(*)
District.....number..	114	101	84	(*)
U. S. Bureau of Reclamation ¹.....number..	6	8		(*)
U. S. Bureau of Indian Affairs.....number..	14	51	27	(*)
State.....number..		11	15	(*)
City.....number..	22	24	33	(*)
Other.....number..		5	25	(*)
Irrigated land, total ².....number..	6,598,839	5,069,568	4,746,632	4,219,040
Acreage irrigated, by type of enterprise: ³				
Single-farm.....acres..	4,259,590	2,353,342	1,735,457	1,502,870
Mutual:				
Unincorporated.....acres..	126,605	109,390		
Incorporated.....acres..	761,621	788,784	853,547	1,215,696
Commercial.....acres..	296,439	391,976	312,313	873,499
District.....acres..	1,821,295	1,778,784	1,598,830	577,168
U. S. Bureau of Reclamation ¹.....acres..	86,637	46,290	31,998	36,622
U. S. Bureau of Indian Affairs.....acres..	2,755	4,106	2,908	697
State.....acres..		4,729	9,186	2,936
City.....acres..	39,929	46,419	79,590	6,213
Other.....acres..		1,090	122,803	3,339
Acreage irrigated, by source of water: ^{3 4}				
Streams (and lakes).....acres..	3,945,008	3,547,599	3,072,295	3,085,151
Springs.....acres..	71,415	57,093	23,999	27,698
Flowing wells.....acres..	35,069	5,118,776	13,910	45,469
Pumped wells.....acres..	4,727,752	5,279,794	2,531,129	938,304
Sewage.....acres..	8,951	2,314	732	1,385
Other and not reported.....acres..	405,943	71,710	187,099	236,746
Irrigated land artificially drained.....acres..	1,101,039	1,224,772	1,522,338	319,573
Irrigated land in need of drainage.....acres..	183,158	386,596	235,990	409,933
Irrigation works:				
Diversion dams.....total number..	4,708	2,714	1,654	2,070
Reservoirs.....number..	1,684	2,652	1,769	3,030
Total capacity (reported).....acre-feet..	8,711,667	3,581,621	3,225,675	1,091,394
Reservoir dams.....total number..	1,684	709	421	455
Canals and ditches.....total length, miles..	21,183	19,799	18,602	27,384
Pipe lines.....total length, miles..	10,088	22,690	14,683	6,886
Flowing wells.....number..	572	436	449	1,415
Pumped wells.....number..	72,147	48,568	46,737	25,401
Average pumping lift (reported).....feet..	80	57	(*)	(*)
Pumps.....number..	80,387	52,016	47,994	24,134
Average pumping lift from all sources.....feet..	(*)	55	53	41
Capital investment, total.....dollars..	640,474,185	318,889,218	310,967,979	194,886,388
Capital investment by type of enterprise:				
Single-farm.....dollars..	238,062,673	109,682,184	108,129,435	57,616,716
Mutual:				
Unincorporated.....dollars..	4,535,568	3,225,749		
Incorporated.....dollars..	62,750,089	54,961,343	48,682,089	48,899,448
Commercial.....dollars..	31,393,135	28,354,269	24,660,738	44,996,723
District.....dollars..	133,682,913	111,733,455	105,349,178	33,985,301
U. S. Bureau of Reclamation ¹.....dollars..	164,108,083	5,915,578	5,520,644	2,398,220
U. S. Bureau of Indian Affairs.....dollars..	1,247,379	992,397	547,695	55,556
State.....dollars..	423,779	423,779	881,722	224,909
City.....dollars..	3,947,698	3,477,614	14,748,387	1,401,320
Other.....dollars..	122,850	122,850	2,448,091	5,308,195

* Not available.

¹ For 1950, not including Bureau of Reclamation projects operated by water users, which are classified under other types of enterprises.

² Acreage reported by irrigation enterprises. For 1950, acreage supplied primary irrigation; for 1940, acreage irrigated by "primary enterprises"; for 1920 and 1930, "primary" and "supplemental" irrigation not differentiated. (See text.)

³ For 1950, acreage reported by more than 1 type of enterprise, or from more than 1 source is included for each; for 1940, acreage reported by both "primary" and "supplemental" enterprises is included for each type of enterprise and for each source of water.

⁴ Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City water" and "Other mixed" with "Other and not reported."

⁵ Data for 1 enterprise reporting supplemental water from "Wells, flowing" included with "Wells, pumped."

IRRIGATION OF AGRICULTURAL LANDS

State Table 3 (Part 1 of 3)—IRRIGATION ENTERPRISES, NUMBER AND CHARACTERISTICS, BY TYPE OF ENTERPRISE: CENSUSES OF 1950 AND 1940

[For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, other data represent characteristics within the State, except where otherwise noted. Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise]

Item (For definitions and explanations, see text)	Type of enterprise								
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation		All or part of water from U.S.B.R. projects ¹ 2	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ¹		
ENTERPRISES FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises 1950..	47,613	46,107	709	561	114	6	3	15	116
.....enterprises 1940..	39,975	38,729	284	658	101	8	(*)	(*)	195
Farms irrigated direct per enterprise.....farms 1949..	2.4	1.1	5.2	40.6	251.9	214.5	17.0	183.0	68.6
Area irrigated direct.....acres 1949..	7,394,871	4,259,590	126,605	761,621	1,821,295	86,637	4,182	586,959	339,123
.....acres 1939..	5,524,910	2,353,342	109,390	788,784	1,778,784	46,290	(*)	(*)	448,320
Average per enterprise.....acres 1949..	155	92	179	1,358	15,976	14,440	1,394	39,131	2,923
CHARACTERISTICS OF ENTERPRISES, 1949									
Multiple-purpose enterprises.....enterprises..	206	.....	53	76	40	4	1	1	33
Area irrigated direct.....acres..	1,558,517	.....	3,194	91,194	1,198,851	86,637	.....	433,292	178,641
Complete-system enterprises.....enterprises..	45,682	44,524	639	379	59	1	1	.....	80
Area irrigated direct.....acres..	5,562,289	3,932,111	87,127	411,247	984,292	17,913	.....	.....	129,599
Enterprises by origin of water supply:									
No water from other enterprises.....enterprises reporting..	46,259	44,938	680	452	84	4	2	.....	101
.....acres irrigated..	6,165,760	3,946,416	109,588	542,334	1,165,542	77,949	.....	.....	323,931
Part of water from other enterprises.....enterprises reporting..	730	647	4	53	18	.....	.....	6	8
.....acres irrigated..	565,402	279,151	712	96,148	180,817	.....	.....	90,119	8,574
All water from other enterprises.....enterprises reporting..	624	522	25	56	12	2	1	9	7
.....acres irrigated..	663,709	34,023	16,305	123,139	474,936	8,688	4,182	496,840	6,618
Enterprises by delivery of irrigation water:									
No water delivered.....enterprises reporting..	375	365	2	6	2	.....	.....	.....	.....
Water delivered direct to farms only.....enterprises reporting..	46,874	45,693	651	412	42	1	.....	4	75
.....acres irrigated..	4,858,833	4,245,285	90,571	376,034	108,988	8,688	.....	46,727	29,267
Water delivered to farms and to other enterprises.....enterprises reporting..	329	49	43	134	61	3	2	11	39
.....acres irrigated..	2,536,038	14,305	36,034	385,587	1,712,307	77,949	4,182	540,232	309,856
Water delivered to other enterprises only.....enterprises reporting..	35	.....	13	9	9	2	1	.....	2
Enterprises by primary and supplemental irrigation: ³									
All primary.....enterprises reporting..	38,960	37,901	579	331	61	4	.....	7	84
.....acres irrigated..	5,379,954	3,677,175	84,030	294,193	990,508	86,637	.....	485,151	247,411
Part primary, part supplemental.....enterprises reporting..	866	494	100	203	39	.....	1	8	30
Primary irrigation.....acres irrigated..	1,218,885	73,876	24,815	320,220	720,632	.....	3,491	91,716	79,342
Supplemental irrigation.....acres irrigated..	267,261	41,098	12,645	119,571	81,577	.....	691	10,092	12,370
All supplemental.....enterprises reporting..	7,374	7,347	15	11	1	.....	.....	.....	.....
.....acres irrigated..	528,771	467,441	5,115	27,637	28,578	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:									
None.....enterprises reporting..	410	365	15	15	11	2	1	.....	2
1-3.....enterprises reporting..	45,760	45,366	336	40	4	.....	.....	2	14
4-9.....enterprises reporting..	789	348	280	126	7	.....	.....	.....	28
10-29.....enterprises reporting..	379	28	73	216	24	.....	.....	4	38
30-99.....enterprises reporting..	169	.....	5	116	28	.....	1	6	20
100-299.....enterprises reporting..	61	.....	.....	31	21	.....	.....	.....	8
300-999.....enterprises reporting..	32	.....	.....	15	10	3	1	1	4
1,000 or more.....enterprises reporting..	13	.....	.....	2	9	.....	.....	1	2
Enterprises by acres irrigated direct:									
None.....enterprises reporting..	410	365	15	15	11	2	1	.....	2
1-29.....enterprises reporting..	22,743	22,587	129	16	.....	.....	.....	1	11
30-99.....enterprises reporting..	15,170	14,720	342	82	4	.....	.....	.....	22
100-499.....enterprises reporting..	7,641	7,156	180	258	8	.....	.....	1	39
500-999.....enterprises reporting..	895	786	18	68	12	.....	.....	2	11
1,000-2,999.....enterprises reporting..	520	400	21	63	21	1	.....	.....	14
3,000-9,999.....enterprises reporting..	168	81	3	47	28	.....	1	5	9
10,000-29,999.....enterprises reporting..	44	10	1	8	18	1	.....	2	6
30,000 or more.....enterprises reporting..	22	2	.....	4	12	2	1	3	2
USE OF SURFACE GROUND, PUMPED AND STORED WATER, 1949									
Surface water:									
Gravity only.....enterprises reporting..	2,508	2,191	119	106	47	3	2	8	42
.....acres irrigated..	1,836,361	361,463	50,905	322,610	831,532	17,913	.....	517,390	251,938
Pumped only.....enterprises reporting..	2,116	2,052	25	15	20	.....	.....	3	4
.....acres irrigated..	555,682	241,595	24,380	106,862	181,460	.....	.....	32,011	1,385
Gravity and pumped.....enterprises reporting..	222	199	3	5	9	2	1	.....	4
.....acres irrigated..	275,076	32,712	3,409	10,282	133,890	60,036	4,182	.....	34,747
Ground water only (pumped from wells).....enterprises reporting..	40,944	39,979	553	354	10	.....	.....	.....	48
.....acres irrigated..	3,350,260	3,147,429	45,622	127,032	16,665	.....	.....	.....	13,512
Surface (gravity or pumped) and ground.....enterprises reporting..	1,823	1,686	9	81	28	1	.....	4	18
.....acres irrigated..	1,377,492	476,391	2,289	194,835	657,748	8,688	.....	37,558	37,541
Stored water:									
None stored.....enterprises reporting..	46,277	44,924	683	509	69	.....	.....	6	92
.....acres irrigated..	5,664,676	4,047,059	111,933	593,723	692,141	.....	.....	11,961	219,820
Part stored.....enterprises reporting..	854	748	13	42	33	2	1	6	16
.....acres irrigated..	985,574	174,119	10,647	128,860	594,595	19,871	4,182	104,041	57,482
All stored.....enterprises reporting..	482	435	13	10	12	4	2	3	8
.....acres irrigated..	744,621	38,412	4,025	39,038	534,559	66,766	.....	470,957	61,821

* Not available.

¹ These enterprises also included under "District" or other types of enterprises as the case may be.² Single-farm enterprises receiving water from Bureau of Reclamation not included.³ For interstate enterprises, data represent characteristics within the State.

IRRIGATION OF AGRICULTURAL LANDS

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

[1950 data for items shown in italics are based on reports for only a sample of farms. See text]

Table with 11 columns representing counties: San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, and Sojano. Rows list various farm types (irrigated, cropland, pasture, etc.) and metrics (number, acreage, value) for 1950 and 1949, with some 1949 data in italics.

See footnote at end of County Table 1.

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)		The State	Alameda	Alpine	Amador	Butte	Calaveras
ALL ENTERPRISES							
Farms and land irrigated:							
1	All irrigation enterprises.....enterprises 1950..	47,613	529	10	42	803	107
2	1940..	39,975	534	17	31	514	70
3	Intercounty enterprises.....enterprises 1950..	245	7	6	.....	10	3
4	Irrigated farms ².....farms 1950..	90,755	622	12	52	1,835	132
5	Average per enterprise.....farms 1950..	1.9	1.2	1.2	1.2	2.3	1.2
6	Farms irrigated direct per enterprise ³.....farms 1950..	2.4	1.2	0.2	1.2	2.6	1.4
7	Irrigated land ².....acres 1949..	6,598,839	25,339	3,412	683	120,587	3,991
8	acres 1939..	5,069,568	20,403	8,327	1,403	79,885	1,832
9	Average per irrigated farm.....acres 1949..	72.7	40.7	284.3	13.1	65.7	30.2
10	Average per enterprise.....acres 1949..	139	48	341	16	150	37
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	155	48	341	16	151	37
Type of enterprise, 1950:							
12	Single-farm.....enterprises..	46,107	525	7	40	790	101
13	acres irrigated..	4,259,590	23,611	3,412	557	62,359	1,987
Mutual:							
14	Unincorporated.....enterprises..	709	.....	1	1	1	4
15	acres irrigated..	126,605	.....	(⁴)	(⁴)	(⁴)	1,512
16	Incorporated.....enterprises..	561	.....	2	.....	2	1
17	acres irrigated..	761,621	.....	(⁴)	.....	(⁴)	(⁴)
18	Commercial.....enterprises..	80	.....	.....	1	4	1
19	acres irrigated..	296,439	.....	.....	(⁴)	25,825	(⁴)
20	District.....enterprises..	114	2	.....	.....	6	.....
21	acres irrigated..	1,821,295	(⁴)	.....	.....	29,451	.....
22	U. S. Bureau of Reclamation ⁵.....enterprises..	6	1	.....	.....	.....	.....
23	acres irrigated..	86,637	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	14	.....	.....	.....	.....	.....
25	acres irrigated..	2,755	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....
27	acres irrigated..	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	22	1	.....	.....	.....	.....
29	acres irrigated..	39,929	(⁴)	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
30	Gravity only.....enterprises reporting..	2,508	5	6	20	44	60
31	acres irrigated..	1,836,361	216	900	267	36,555	2,645
32	Pumped only.....enterprises reporting..	2,116	6	1	6	60	12
33	acres irrigated..	555,682	2,029	307	88	5,813	116
34	Gravity and pumped.....enterprises reporting..	222	1	.....	1	9	5
35	acres irrigated..	275,076	.....	.....	5	24,079	45
36	Ground water only (pumped from wells).....enterprises reporting..	40,944	508	.....	10	640	23
37	acres irrigated..	3,350,260	22,422	.....	105	30,415	1,089
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	1,823	9	3	5	50	7
39	acres irrigated..	1,377,492	803	2,205	218	24,623	96
Stored water:							
40	None stored.....enterprises reporting..	46,277	525	4	29	779	73
41	acres irrigated..	5,664,676	25,264	1,022	453	73,441	2,027
42	Part stored.....enterprises reporting..	854	1	4	7	18	14
43	acres irrigated..	985,574	.....	2,390	213	47,599	341
44	All stored.....enterprises reporting..	482	3	2	6	6	20
45	acres irrigated..	744,621	206	.....	17	445	1,623
Sources of surface water, 1949: ⁶							
46	Streams (and lakes).....enterprises reporting..	5,662	16	10	18	107	68
47	acres irrigated..	3,945,008	3,028	3,412	508	83,675	2,817
48	Springs.....enterprises reporting..	656	3	.....	14	10	23
49	acres irrigated..	71,415	11	.....	110	320	188
50	Flowing wells.....enterprises reporting..	247	2	.....	2	2	2
51	acres irrigated..	35,069	9	.....	3	284	5
52	Drainage water.....enterprises reporting..	496	.....	1	8	50	2
53	acres irrigated..	405,899	.....	600	72	22,934	95
54	Sewage.....enterprises reporting..	45	.....	.....	.....	2	.....
55	acres irrigated..	8,951	.....	.....	.....	121	.....
56	Other sources.....enterprises reporting..	3	.....	.....	.....	.....	.....
57	acres irrigated..	44	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷							
Irrigated land drained:							
58	Enterprises reporting.....enterprises 1949..	1,884	11	1	.....	111	5
59	Area supplied primary irrigation.....acres 1949..	1,873,883	2,489	105	.....	46,227	55
60	Area artificially drained.....acres 1949..	1,101,039	1,776	105	.....	44,988	53
61	acres 1939..	1,224,772	116	.....	.....	35,644	([*])
Irrigated land in need of drainage:							
62	Enterprises reporting.....enterprises 1949..	975	7	.....	3	15	2
63	Area supplied primary irrigation.....acres 1949..	1,230,221	1,269	.....	214	4,511	82
64	Area in need of drainage.....acres 1949..	183,158	884	.....	66	3,653	3
65	acres 1939..	386,596	125	.....	.....	17,125	.....

See footnotes at end of County Table 2, Part 1.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted]

Colusa	Contra Costa	Del Norte	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	Kings	Lake	Lassen	
251	372	32	96	8,342	424	328	13	64	2,022	1,733	306	177	1
119	163	(*)	45	7,190	256	72	5	50	1,433	1,341	121	216	2
12	2	.....	1	44	10	.....	2	1	38	34	.....	2	3
530	786	32	352	9,211	1,292	345	2,042	135	2,156	1,863	314	211	4
2.1	2.1	1.0	3.7	1.1	3.0	1.1	157.1	2.1	1.1	1.1	1.0	1.2	5
2.4	2.0	1.0	4.0	1.9	3.3	1.1	164.5	2.4	1.3	1.8	1.1	1.3	6
100,375	50,747	1,906	8,002	882,851	105,613	12,639	444,323	12,515	475,233	345,977	9,358	52,344	7
82,890	32,386	(*)	7,535	561,068	101,557	2,205	422,834	11,889	259,038	315,618	3,281	62,243	8
189.4	64.6	59.6	22.7	95.8	81.7	36.6	217.6	92.7	220.4	185.7	29.8	248.1	9
400	136	60	83	108	249	39	34,179	196	235	200	31	296	10
407	136	60	84	146	251	39	34,195	196	258	282	31	298	11
241	366	32	90	8,302	416	327	8	57	1,967	1,692	305	175	12
45,556	26,609	1,906	2,396	721,403	36,807	12,604	2,555	7,180	428,798	323,593	9,409	47,304	13
1	2	.....	3	21	1	.....	.....	2	30	10	1	1	14
(4)	(4)	.....	332	10,138	(4)	.....	.....	(4)	5,912	8,924	(4)	(4)	15
1	1	.....	.....	8	1	.....	.....	.....	15	23	.....	1	16
(4)	(4)	.....	.....	85,423	(4)	.....	.....	.....	16,396	108,813	.....	(4)	17
.....	.....	.....	2	1	1	.....	.....	.....	8	.....	.....	.....	18
.....	.....	(4)	(4)	(4)	(4)	.....	.....	.....	42,727	.....	.....	.....	19
7	2	.....	1	9	4	.....	2	2	.....	7	.....	.....	20
55,670	(4)	.....	(4)	337,595	46,671	.....	(4)	.....	(4)	46,391	.....	.....	21
1	1	.....	.....	1	1	.....	3	.....	.....	.....	.....	.....	22
.....	1,958	.....	.....	.....	17,913	.....	8,688	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	1	.....	4	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	51	.....	964	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	(4)	.....	(4)	.....	.....	29
4	30	.....	45	47	18	30	7	56	67	37	16	137	30
890	14,623	.....	6,285	142,681	23,942	327	433,425	11,733	71,909	133,891	372	47,508	31
76	107	13	25	36	33	50	1	1	9	6	70	7	32
71,225	7,552	919	439	32,874	41,840	1,658	210	5	427	890	2,271	2,050	33
5	12	1	9	6	4	3	1	.....	4	2	2	1	34
6,223	4,519	69	660	81,229	8,155	83	.....	.....	1,891	662	705	100	35
144	185	12	10	8,148	346	239	3	3	1,830	1,616	204	13	36
14,318	2,700	510	331	687,295	25,045	10,437	2,212	192	391,628	199,189	5,412	258	37
22	30	6	7	105	23	6	1	4	112	72	14	19	38
9,436	21,361	408	330	246,054	7,274	150	8,688	585	55,170	153,514	665	2,881	39
248	356	31	65	8,323	414	320	7	56	1,964	1,728	303	146	40
101,576	47,904	1,806	5,917	1,127,807	84,099	12,460	345	11,942	477,033	412,768	9,303	31,786	41
3	11	1	10	11	6	4	.....	5	52	5	.....	20	42
516	2,512	100	487	30,045	22,089	128	.....	502	43,489	75,378	.....	12,608	43
.....	5	.....	21	8	4	4	6	3	6	.....	3	11	44
.....	339	.....	1,641	32,281	68	67	444,190	71	503	.....	122	8,403	45
87	181	16	51	179	56	80	10	50	172	112	88	156	46
80,888	47,502	1,151	7,302	502,169	79,704	2,115	442,323	11,269	125,576	287,272	3,691	49,989	47
.....	2	1	30	1	.....	6	.....	11	10	.....	14	21	48
.....	4	200	414	2	.....	30	.....	1,335	480	.....	963	17,078	49
2	2	1	1	15	1	2	.....	2	8	1	2	4	50
1,500	31	100	12	424	141	66	.....	6	858	1,015	241	880	51
26	3	4	20	4	24	2	.....	.....	7	3	3	2	52
26,557	548	245	199	60	13,962	44	.....	.....	1,772	6,630	318	130	53
.....	1	.....	.....	1	.....	.....	.....	.....	3	2	.....	1	54
.....	15	.....	.....	320	.....	.....	.....	.....	1,017	540	.....	105	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
60	42	1	3	21	58	17	2	3	37	12	28	4	58
72,698	36,199	135	329	7,475	53,763	774	441,980	2,138	18,394	46,565	1,971	700	59
66,521	18,770	135	308	6,739	49,651	346	98,688	883	16,287	17,663	1,036	355	60
69,621	16,778	(*)	23	6,561	73,413	2	208,000	400	37,896	6,075	20	621	61
20	20	3	2	10	23	39	2	2	15	11	21	4	62
7,127	7,151	140	623	9,768	15,184	1,875	441,980	616	4,200	43,525	638	8,160	63
4,872	6,466	75	105	612	1,606	453	33,688	340	1,437	10,951	373	3,093	64
570	2,500	(*)	1	6,006	3,603	9	315,000	400	200	170	39	200	65

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)		Los Angeles	Madera	Marin	Mariposa	Mendocino	Merced
ALL ENTERPRISES							
Farms and land irrigated:							
1	All irrigation enterprises.....enterprises 1950..	1,686	1,542	21	24	166	831
2	..... 1940..	1,655	1,150	(*)	(*)	85	530
3	Intercounty enterprises.....enterprises 1950..	19	14	.....	1	1	13
4	Irrigated farms ².....farms 1950..	7,329	1,537	21	33	245	3,903
5	Average per enterprise.....farms 1950..	4.3	1.0	1.0	1.4	1.5	4.7
6	Farms irrigated direct per enterprise ³.....farms 1950..	6.0	1.2	1.0	1.3	1.6	5.3
7	Irrigated land ².....acres 1949..	177,650	189,309	509	1,074	9,102	386,641
8	.....acres 1939..	185,380	104,522	(*)	(*)	5,904	273,886
9	Average per irrigated farm.....acres 1949..	24.2	123.2	24.2	32.5	37.2	99.1
10	Average per enterprise.....acres 1949..	105	123	24	45	55	465
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	112	146	24	45	56	503
Type of enterprise, 1950:							
12	Single-farm.....enterprises..	1,481	1,529	21	23	165	819
13	.....acres irrigated..	92,095	173,439	509	229	5,951	102,325
Mutual:							
14	Unincorporated.....enterprises..	60	4	.....	.....	.....	2
15	.....acres irrigated..	5,338	2,664	.....	.....	.....	(4)
16	Incorporated.....enterprises..	110	5	.....	.....	.....	3
17	.....acres irrigated..	51,254	12,911	.....	.....	.....	88,312
18	Commercial ¹.....enterprises..	24	1	.....	.....	.....	2
19	.....acres irrigated..	5,512	(4)	.....	.....	.....	(4)
20	Di-.....enterprises..	7	2	.....	1	1	5
21	.....acres irrigated..	3,159	(4)	.....	(4)	(4)	148,654
22	U. S. Bureau of Reclamation ⁵.....enterprises..	.....	1	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	.....	.....	.....	.....	.....	.....
25	.....acres irrigated..	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	4	.....	.....	.....	.....	.....
29	.....acres irrigated..	31,326	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
30	Gravity only.....enterprises reporting..	58	33	4	12	23	26
31	.....acres irrigated..	34,641	44,826	60	112	196	122,153
32	Pumped only.....enterprises reporting..	32	15	12	6	81	80
33	.....acres irrigated..	508	1,198	411	41	2,459	8,064
34	Gravity and pumped.....enterprises reporting..	3	2	1	2	8	2
35	.....acres irrigated..	105	600	10	50	3,575	6,041
36	Ground water only (pumped from wells).....enterprises reporting..	1,517	1,408	4	3	30	680
37	.....acres irrigated..	127,441	150,226	28	26	647	78,501
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	76	84	.....	1	24	43
39	.....acres irrigated..	25,989	28,062	.....	845	2,396	203,117
Stored water:							
40	None stored.....enterprises reporting..	1,605	1,511	18	20	158	803
41	.....acres irrigated..	142,524	187,289	459	104	5,439	218,493
42	Part stored.....enterprises reporting..	54	19	2	2	4	15
43	.....acres irrigated..	14,319	29,073	40	885	3,764	198,500
44	All stored.....enterprises reporting..	27	12	1	2	4	13
45	.....acres irrigated..	31,841	8,550	10	85	70	883
Sources of surface water, 1949: ⁶							
46	Streams (and lakes).....enterprises reporting..	109	128	15	15	127	131
47	.....acres irrigated..	58,282	74,328	461	967	8,536	336,537
48	Springs.....enterprises reporting..	43	6	3	7	7	1
49	.....acres irrigated..	2,532	2,623	30	47	54	20
50	Flowing wells.....enterprises reporting..	18	4	.....	1	.....	7
51	.....acres irrigated..	1,519	199	.....	75	.....	734
52	Drainage water.....enterprises reporting..	8	2	.....	1	6	14
53	.....acres irrigated..	164	643	.....	75	379	89,956
54	Sewage.....enterprises reporting..	10	1	.....	.....	1	.....
55	.....acres irrigated..	977	50	.....	.....	1	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷							
Irrigated land drained:							
58	Enterprises reporting.....enterprises 1949..	23	9	1	.....	10	70
59	Area supplied primary irrigation.....acres 1949..	1,277	8,101	83	.....	548	194,334
60	Area artificially drained.....acres 1949..	1,095	7,058	15	.....	204	105,513
61	.....acres 1939..	1,343	.....	(*)	(*)	36	169,921
Irrigated land in need of drainage:							
62	Enterprises reporting.....enterprises 1949..	13	23	1	1	7	23
63	Area supplied primary irrigation.....acres 1949..	877	6,425	25	18	478	188,353
64	Area in need of drainage.....acres 1949..	463	3,062	1	18	116	11,388
65	.....acres 1939..	85	.....	(*)	(*)	3	10,084

See footnotes at end of County Table 2, Part 1.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted

Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	
276	34	775	112	76	1,273	236	105	1,320	1,961	414	1,132	1,705	1
347	54	952	175	49	1,117	81	122	982	1,575	428	996	1,638	2
7	4	9	.....	3	11	3	3	19	17	3	22	2	3
655	49	849	116	369	4,987	1,115	100	3,932	2,521	540	5,041	4,441	4
2.4	1.4	1.1	1.0	4.9	3.9	4.7	1.0	3.0	1.3	1.3	4.5	2.6	5
2.5	1.8	1.2	1.0	5.1	4.9	4.9	1.1	4.4	1.4	1.3	6.5	3.1	6
131,449	47,335	140,171	4,042	7,434	127,958	31,276	28,382	162,079	127,843	27,924	107,923	58,649	7
92,419	42,676	105,344	2,630	7,557	119,274	30,071	29,481	122,040	81,655	21,937	111,041	51,664	8
200.7	966.0	165.1	34.8	20.1	25.7	28.1	283.8	41.2	50.7	51.7	21.4	13.2	9
476	1,392	181	36	98	101	133	270	123	65	67	95	34	10
477	1,422	186	36	99	104	134	275	132	67	68	106	35	11
264	31	765	112	70	1,020	231	103	1,212	1,951	405	830	1,678	12
65,587	31,885	135,546	4,042	1,432	58,719	6,910	27,911	71,155	112,033	27,255	48,084	33,598	13
6	1	4	.....	2	189	1	1	23	2	6	152	5	14
6,946	(4)	456	.....	(4)	14,095	(4)	(4)	1,731	(4)	644	8,764	540	15
1	1	6	.....	1	54	.....	1	70	3	.....	142	10	16
(4)	(4)	7,790	.....	(4)	57,096	.....	(4)	36,496	5,009	.....	61,575	9,197	17
1	.....	.....	.....	.....	3	2	.....	6	2	1	5	2	18
(4)	.....	.....	.....	.....	241	(4)	.....	4,861	(4)	(4)	214	(4)	19
2	1	.....	.....	3	5	2	.....	4	3	2	1	6	20
(4)	(4)	.....	.....	6,020	2,343	(4)	.....	59,420	3,024	(4)	(4)	12,699	21
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
31,030	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
1	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	2	24
1,000	.....	.....	.....	.....	.....	.....	.....	354	.....	.....	.....	318	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	(4)	.....	.....	(4)	.....	.....	(4)	(4)	29
254	27	7	3	60	6	74	77	33	35	14	43	37	30
94,596	44,474	3,484	14	7,427	1,251	26,354	22,995	59,441	8,193	515	3,054	8,631	31
2	.....	14	46	9	8	49	2	13	211	9	7	60	32
312	.....	230	1,960	32	134	1,089	72	824	50,291	308	121	538	33
4	.....	1	.....	2	.....	29	6	2	3	1	8	5	34
33,454	.....	5	.....	16	.....	708	1,447	4,307	1,385	7	1,266	1,561	35
9	2	726	47	3	1,234	64	7	1,215	1,645	375	1,014	1,496	36
386	2	134,986	1,139	5	87,265	2,973	568	88,097	54,938	25,902	79,938	33,106	37
7	5	27	16	2	25	20	13	57	67	15	60	107	38
2,901	3,859	5,087	921	12	44,043	482	3,777	21,550	16,062	1,417	35,367	15,842	39
228	27	764	103	57	1,241	184	101	1,255	1,937	409	1,095	1,580	40
48,034	37,050	142,554	3,701	1,238	103,006	5,676	27,909	97,718	126,305	27,592	104,681	34,679	41
24	6	6	.....	13	28	26	3	39	18	3	33	90	42
10,778	10,805	531	.....	6,161	29,417	11,091	650	16,850	4,476	550	14,869	14,917	43
24	1	5	9	6	4	26	1	26	6	2	4	35	44
72,917	480	707	341	93	270	14,839	300	59,651	88	7	196	10,082	45
241	28	27	62	51	30	153	91	62	293	37	80	145	46
125,005	47,695	6,734	2,885	7,223	45,270	28,497	27,343	80,587	72,406	2,225	37,913	25,886	47
20	11	2	3	22	3	27	9	18	.....	2	28	68	48
5,761	3,478	105	5	259	100	368	1,442	902	.....	13	342	795	49
11	3	11	2	.....	5	.....	3	17	3	2	20	8	50
2,870	810	725	33	.....	57	.....	320	7,466	280	24	1,878	313	51
16	.....	10	.....	5	8	22	1	19	26	.....	3	6	52
37,569	.....	1,247	.....	148	126	283	140	4,102	4,543	.....	200	580	53
.....	.....	.....	.....	.....	.....	.....	.....	2	1	.....	2	2	54
.....	.....	.....	.....	.....	.....	.....	.....	1,547	253	.....	1,140	50	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
10	2	33	9	5	26	13	6	12	234	5	9	10	58
36,128	16,803	8,544	508	265	20,223	399	1,206	55,703	46,399	192	1,564	528	59
33,429	5,200	4,619	345	61	5,433	140	426	3,114	44,543	110	1,199	153	60
15,195	.....	5,870	215	.....	5,882	.....	.....	1,297	16,091	685	1,181	1,111	61
12	3	23	6	12	8	19	18	22	127	.....	2	5	62
33,624	16,817	6,501	196	654	16,444	716	4,177	63,935	12,987	.....	198	741	63
3,692	1,165	1,590	54	138	548	148	668	12,340	10,775	.....	15	18	64
230	.....	1,185	83	.....	714	.....	45	1,814	5	60	124	265	65

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

	Item (For definitions and explanations, see text)	San Joaquin	San Luis Obispo	San Mateo ¹	Santa Barbara	Santa Clara	Santa Cruz	Shasta
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	3,099	434	187	705	2,228	299	263
2	.....acres irrigated..	2,565	316	265	598	2,215	310	428
3	Intercounty enterprises.....enterprises 1950..	19	10	.....	15	5	7	3
4	Irrigated farms ².....farms 1950..	4,927	444	259	976	3,449	358	753
5	Average per enterprise.....farms 1950..	1.6	1.0	1.4	1.4	1.5	1.2	2.9
6	Farms irrigated direct per enterprise ³.....farms 1950..	1.7	1.1	1.2	1.7	1.7	1.3	3.1
7	Irrigated land ².....acres 1949..	402,889	27,751	5,982	57,854	101,172	14,252	42,372
8	.....acres 1939..	317,790	13,453	9,635	42,200	95,959	10,868	37,273
9	Average per irrigated farm.....acres 1949..	81.8	62.5	23.1	59.3	29.3	39.8	56.3
10	Average per enterprise.....acres 1949..	130	64	32	82	45	48	161
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	133	65	34	87	47	48	162
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	3,066	426	185	683	2,211	297	251
13	.....acres irrigated..	270,678	27,259	5,628	55,587	99,921	13,804	25,764
Mutual:								
14	Unincorporated.....enterprises..	12	6	.....	13	9	.....	7
15	.....acres irrigated..	11,589	955	.....	3,201	1,061	.....	2,546
16	Incorporated.....enterprises..	6	2	.....	6	.....	.....	2
17	.....acres irrigated..	9,825	(⁴)	.....	1,337	.....	.....	(⁴)
18	Commercial.....enterprises..	.....	.....	2	.....	6	.....	1
19	.....acres irrigated..	.....	.....	(⁴)	.....	2,717	.....	(⁴)
20	District.....enterprises..	13	.....	.....	1	2	.....	1
21	.....acres irrigated..	120,944	.....	.....	(⁴)	(⁴)	.....	(⁴)
22	U. S. Bureau of Reclamation ⁵.....enterprises..	1	.....	.....	.....	.....	.....	1
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	.....	.....	.....	1	.....	.....	.....
25	.....acres irrigated..	.....	.....	.....	21	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	1	.....	.....	1	.....	2	.....
29	.....acres irrigated..	(⁴)	.....	.....	(⁴)	.....	(⁴)	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	114	14	11	25	26	12	193
31	.....acres irrigated..	112,803	124	388	578	363	400	36,456
32	Pumped only.....enterprises reporting..	204	60	55	11	43	43	40
33	.....acres irrigated..	99,758	1,114	3,068	250	886	1,036	5,035
34	Gravity and pumped.....enterprises reporting..	14	1	9	1	.....	.....	6
35	.....acres irrigated..	25,523	2	408	.....	.....	.....	445
36	Ground water only (pumped from wells).....enterprises reporting..	2,636	329	79	626	2,127	227	21
37	.....acres irrigated..	124,456	25,181	1,575	54,023	98,498	10,979	428
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	131	30	33	42	32	17	3
39	.....acres irrigated..	50,646	1,862	985	6,181	3,952	1,866	243
Stored water:								
40	None stored.....enterprises reporting..	3,089	359	126	628	2,209	273	248
41	.....acres irrigated..	358,627	23,130	2,484	52,238	103,118	12,554	39,474
42	Part stored.....enterprises reporting..	9	42	35	54	12	13	11
43	.....acres irrigated..	54,557	3,958	2,827	7,617	469	997	2,995
44	All stored.....enterprises reporting..	1	33	26	23	7	13	4
45	.....acres irrigated..	2	1,195	1,113	1,177	112	730	138
Sources of surface water, 1949: ⁶								
46	Streams (and lakes).....enterprises reporting..	434	90	94	48	88	59	222
47	.....acres irrigated..	284,936	2,976	4,429	5,240	4,738	2,952	41,406
48	Springs.....enterprises reporting..	1	9	14	19	11	11	26
49	.....acres irrigated..	8	34	414	2,085	327	512	3,588
50	Flowing wells.....enterprises reporting..	8	5	2	10	2	2	2
51	.....acres irrigated..	1,105	72	139	1,048	135	56	250
52	Drainage water.....enterprises reporting..	24	1	.....	9	1	6	4
53	.....acres irrigated..	56,913	144	.....	683	5	244	111
54	Sewage.....enterprises reporting..	1	1	.....	.....	.....	1	.....
55	.....acres irrigated..	3	20	.....	.....	.....	70	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	206	16	19	21	17	33	7
59	Area supplied primary irrigation.....acres 1949..	198,149	6,265	933	2,529	3,058	2,130	12,117
60	Area artificially drained.....acres 1949..	167,261	5,403	610	651	1,788	1,263	2,182
61	.....acres 1939..	171,733	309	119	457	137	1,072	8,251
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	92	18	5	19	13	12	12
63	Area supplied primary irrigation.....acres 1949..	57,919	1,533	386	1,695	1,373	458	13,411
64	Area in need of drainage.....acres 1949..	20,434	422	182	428	790	298	5,323
65	.....acres 1939..	7,063	185	10	26	14	.....	117

*Not available.

¹For 1950, includes data for less than 3 enterprises in San Francisco County.²Farms or acres irrigated direct by 2 or more enterprises are counted only once. Number of irrigated farms is from the U.S. Census of Agriculture. Acreage irrigated is from the Census of Irrigation and therefore differs from acreage irrigated shown in County Table 1. (See text.)³Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise.⁴Data for less than 3 enterprises not shown separately.⁵Data for less than 3 enterprises shown with permission of the enterprise.⁶Enterprises reporting water from more than 1 source are counted for each.⁷For intercounty and interstate enterprises, data represent characteristics within the county or State.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the county or State, except where otherwise noted

Sierra	Siskiyou	Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba	
53	381	462	343	397	1,255	583	106	5,851	61	829	684	314	1
34	558	446	152	127	799	495	189	4,874	50	636	601	163	2
3	3	7	1	10	12	2	.....	58	4	6	15	3	3
49	681	478	348	6,100	1,527	1,141	104	6,401	141	1,588	860	466	4
0.9	1.8	1.0	1.0	15.4	1.2	2.0	1.0	1.1	2.3	1.9	1.3	1.5	5
1.3	2.0	1.1	1.0	16.4	1.5	2.1	1.0	1.5	2.6	2.2	1.4	1.7	6
19,073	109,462	56,447	8,677	321,725	174,932	38,091	3,783	501,748	1,770	111,518	136,749	39,947	7
7,307	91,783	53,694	4,267	286,151	102,119	34,453	4,753	366,542	3,008	86,134	115,301	24,538	8
389.2	160.7	118.1	24.9	52.7	114.6	33.4	36.4	78.4	12.6	70.2	159.0	85.7	9
360	287	122	25	810	139	65	36	86	29	135	200	127	10
443	292	123	25	872	142	70	36	106	30	139	207	127	11
50	353	460	342	385	1,246	572	105	5,720	57	748	679	308	12
17,033	60,290	51,324	8,596	57,895	101,190	20,751	3,691	466,449	650	80,135	111,435	24,759	13
2	19	.....	.....	1	2	4	1	64	.....	32	1	2	14
(⁴)	4,463	.....	.....	(⁴)	(⁴)	844	(⁴)	7,979	.....	4,867	(⁴)	(⁴)	15
1	3	.....	.....	1	5	3	.....	53	.....	39	.....	1	16
(⁴)	5,698	.....	.....	(⁴)	54,961	11,961	.....	60,699	.....	20,270	.....	(⁴)	17
.....	.....	.....	.....	2	1	1	.....	2	1	4	1	.....	18
.....	.....	.....	.....	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	8,662	(⁴)	.....	19
.....	5	2	.....	7	1	3	.....	9	3	4	3	3	20
.....	13,644	(⁴)	.....	255,149	(⁴)	6,984	.....	81,821	.....	291	13,712	5,630	21
.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	22
.....	27,048	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	47	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	(⁴)	.....	.....	.....	.....	(⁴)	.....	(⁴)	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
52	296	6	14	6	5	32	84	106	31	17	12	18	30
23,470	49,453	850	204	19,995	7,790	11,476	3,385	122,470	1,442	542	17,664	15,922	31
1	20	40	50	60	99	19	13	24	2	22	149	11	32
10	11,790	28,246	1,785	43,159	68,336	509	130	1,053	112	1,217	47,339	1,436	33
.....	14	7	3	9	1	2	6	8	4	1	3	2	34
.....	33,677	2,377	278	1,391	16,955	7,146	152	3,238	52	24	411	35	35
.....	31	393	242	263	1,111	515	.....	5,547	7	758	490	276	36
.....	1,334	24,088	4,886	38,587	65,076	20,317	.....	446,406	112	99,243	55,196	20,143	37
.....	20	16	34	59	39	15	3	166	17	31	30	7	38
.....	14,889	1,446	1,524	242,913	20,367	1,237	116	45,392	117	13,840	21,195	2,451	39
50	336	455	326	382	1,250	579	95	5,825	37	794	667	307	40
21,768	71,833	56,238	7,885	108,054	159,272	40,476	3,385	599,706	422	106,083	125,088	31,437	41
3	37	4	11	10	5	3	10	18	12	29	7	3	42
1,712	8,993	549	599	236,716	19,252	305	386	18,560	102	8,536	2,071	8,300	43
.....	8	3	6	5	.....	1	1	8	12	6	10	4	44
.....	30,317	220	193	1,275	.....	4	12	293	1,311	247	14,646	250	45
52	315	65	89	103	105	52	99	286	44	56	162	30	46
23,460	102,626	31,685	3,152	302,660	103,484	19,498	3,754	171,261	1,563	14,351	78,216	19,450	47
5	63	.....	7	1	1	12	16	9	13	13	.....	4	48
1,095	17,616	.....	242	135	1,846	832	685	294	234	1,446	.....	11	49
2	7	1	4	8	4	2	1	12	2	7	3	2	50
92	5,330	15	147	968	1,315	156	1	475	5	108	714	60	51
.....	12	5	2	35	38	6	.....	3	4	2	44	5	52
.....	28,792	7,237	78	69,199	9,279	262	.....	214	31	391	17,636	359	53
.....	.....	.....	5	.....	.....	.....	.....	.....	.....	4	4	.....	54
.....	.....	.....	528	.....	.....	.....	.....	.....	.....	1,004	1,190	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
2	25	42	19	34	268	75	2	14	.....	119	73	23	58
1,800	45,833	25,957	701	276,866	89,254	1,850	400	2,688	.....	30,678	45,218	2,655	59
600	34,602	25,837	481	176,331	86,104	1,523	55	1,168	.....	21,362	34,615	2,242	60
73	18,085	31,825	21	178,346	56,510	.....	9	785	.....	15,764	33,409	(*)	61
11	56	6	29	15	31	9	7	16	.....	77	32	4	62
6,035	44,199	3,900	1,691	137,885	14,231	1,102	370	9,862	.....	21,264	12,290	388	63
1,500	5,103	3,732	543	3,808	10,560	773	19	1,218	.....	6,903	6,154	92	64
.....	352	5,000	16	11,210	4	.....	21	42	(*)	1,015	868	.....	65

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).--IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS.

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises,

Item (For definitions and explanations, see text)		The State	Alameda	Alpine	Amador	Butte	Calaveras
ALL ENTERPRISES							
Irrigation works:							
1	Diversion dams.....enterprises reporting 1950..	2,947	9	5	19	65	53
2	.....dams 1950..	4,708	9	10	24	107	62
3	.....dams 1940..	2,714	.....	39	11	40	35
Diversion dams by material:							
4	Concrete or masonry.....dams 1950..	938	1	5	7	14	12
5	Timber.....dams 1950..	684	.....	1	1	6	7
6	Earth and rock.....dams 1950..	2,535	5	4	13	71	40
7	Other, mixed, and not reported.....dams 1950..	551	3	.....	3	16	3
8	Reservoirs.....enterprises reporting 1950..	1,233	12	4	12	19	35
9	.....reservoirs 1950..	1,684	12	13	15	22	47
10	.....reservoirs 1940..	2,652	25	10	14	12	13
11	Reservoirs for which capacity was reported.....reservoirs 1950..	1,502	11	13	15	20	47
12	.....total capacity, acre-feet 1950..	8,711,667	26	7,788	925	18,652	11,892
13	.....total capacity, acre-feet 1940..	3,581,621	33	4,000	634	17,384	122,929
Reservoirs by capacity:							
14	1-99 acre-feet.....reservoirs 1950..	1,300	11	1	13	16	44
15	100-999 acre-feet.....reservoirs 1950..	107	.....	11	2	.....	1
16	1,000 acre-feet and over.....reservoirs 1950..	95	.....	1	.....	4	2
Reservoir dams by material:							
17	Concrete or masonry.....dams 1950..	347	1	3	.....	3	4
18	Earth and rock.....dams 1950..	1,159	2	5	15	18	43
19	Other, mixed, and not reported.....dams 1950..	178	9	5	.....	1	.....
20	Canals and ditches.....enterprises reporting 1950..	2,709	8	8	12	44	23
21	.....total length, miles 1950..	21,183	25	20	59	569	73
22	.....total length, miles 1940..	19,799	25	46	39	631	104
23	Pipelines and siphons ².....enterprises reporting 1950..	3,216	9	.....	8	25	9
24	.....total length, miles 1950..	10,088	10	.....	5	94	6
25	.....total length, miles 1940..	22,690	204	2	6	128	10
26	Tunnels.....enterprises reporting 1950..	63	.....	.....	1	1	3
27	.....total length, feet 1950..	166,901	.....	.....	880	50	500
28	Flowing wells.....enterprises reporting 1950..	243	2	.....	2	2	2
29	.....wells 1950..	572	5	.....	2	16	6
30	.....wells 1940..	436	.....	.....	.....	3	.....
31	Pumped wells.....enterprises reporting 1950..	42,637	517	1	15	691	29
32	.....wells 1950..	72,147	839	1	19	1,043	42
33	.....wells 1940..	48,568	689	.....	18	548	18
34	Wells for which pumping lift was reported.....wells 1949..	67,899	800	1	18	1,004	42
35	Average pumping lift.....feet 1949..	88	106	20	45	45	110
36	.....feet 1939..	57	57	.....	26	32	58
37	Irrigation pumps.....enterprises reporting 1950..	44,958	523	1	22	758	46
38	.....pumps 1950..	80,387	871	.....	28	1,389	67
39	.....pumping plants 1940..	52,217	711	.....	23	618	23
40	Electric motors used for pumping.....enterprises reporting 1950..	42,296	505	1	15	695	31
41	.....electric motors 1950..	73,682	847	1	20	1,136	42
42	Other motors and engines used for pumping.....enterprises reporting 1950..	4,601	34	.....	7	97	19
43	.....other motors and engines 1950..	6,254	34	.....	7	108	24
Season of irrigation, 1949:							
44	Water delivered only before July 1.....enterprises reporting..	1,319	33	1	.....	38	2
45	.....acres irrigated..	340,878	245	307	.....	914	14
46	Water delivered before and after July 1.....enterprises reporting..	43,147	467	8	38	716	93
47	.....acres irrigated..	6,813,604	24,661	3,105	641	117,967	3,904
48	Water delivered only after July 1.....enterprises reporting..	1,129	20	1	2	29	3
49	.....acres irrigated..	82,254	283	.....	11	1,163	32
Capital investment:							
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	318,889,218	1,430,993	54,930	288,068	7,691,460	242,297
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51	Enterprises reporting.....enterprises 1950..	24,694	284	2	21	419	56
52	Amount.....dollars 1950..	321,584,967	3,344,874	15,750	33,494	1,730,366	261,375
53	Area irrigated direct.....acres 1949..	4,980,823	17,876	307	454	79,736	3,111
54	Total capital investment Jan. 1, 1950.....dollars 1950..	640,474,185	4,775,867	70,680	321,562	9,421,826	503,672
Indebtedness: ⁴							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
55	Enterprises reporting.....enterprises 1950..	254	3	.....	.....	8	1
56	Amount.....dollars 1950..	251,310,797	2,077,350	.....	.....	1,929,591	62,025
57	.....dollars 1940..	95,694,893	92,577	.....	.....	1,607,823	15,000
58	Area irrigated direct.....acres 1949..	1,713,814	1,656	.....	.....	33,404	316
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
59	Enterprises reporting.....enterprises 1950..	17	.....	.....	.....	.....	.....
60	Amount.....dollars 1950..	975,285	.....	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	76,536	.....	.....	.....	.....	.....

See footnotes at end of County Table 2, Part 2.

BY COUNTIES: CENSUSES OF 1950 AND 1940

data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Colusa	Contra Costa	Del Norte	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	Kings	Lake	Lassen	
8	45		45	62	25	35	6	51	83	17	20	139	1
9	51		76	88	27	46	7	99	119	28	25	236	2
7	3	(*)	24	41	16	13	1	23	12	13	5	229	3
4	3		19	45	10	8	3	40	8	22	5	57	4
12	4		4	4		3			33	3	1	53	5
5	16		49	37	16	35	4	53	66	3	15	120	6
	20		4	2	1			6	12		4	6	7
1	14	2	34	13	8	7	1	6	60	8	3	24	8
1	15	2	58	13	9	7	1	6	104	19	3	31	9
1	9	(*)	13	8	1	2		4	644	9	4	42	10
1	15	2	54	10	4	6		4	99	19	3	27	11
51,000	464	2	12,151	1,588	50,224	27	37	12	234,205	14,511	319,122	52,812	12
51,000	20	(*)	11,826	2,514	50,200	(*)		803	234,363	8,061	320,702	94,561	13
	13	2	50	8	3	6	1	4	94	4	1	10	14
	2		2	1					4	9	1	10	15
1			2	1	1				1	6	1	7	16
1	4		4	1	1	1			3	1	1	2	17
	10	2	51	9	1	5	1	5	97	18	2	28	18
	1		3	3	2	1		1	4			1	19
66	21		26	158	25	11	6	25	183	119	6	45	20
620	207		271	2,317	679	12	1,914	70	736	1,064	6	112	21
397	150	(*)	322	1,838	518	63	1,980	106	1,242	715	5	265	22
27	55	6	14	111	4	83	1	13	139	15	2	1	23
10	98	3	12	126	3	38	1	30	197	18	1	(3)	24
4	96	(*)	27	1,508	70	11	19	39	1,206	111	24	2	25
	1		3	1						3			26
	1,360		3,000	350						1,634			27
2	2	1	1	15		2		2	8	1	2	4	28
3	3	(*)	1	54		4		10	24	2	6	14	29
					1				3		2	9	30
166	214	20	17	8,216	371	243	3	7	1,941	1,684	220	32	31
235	293	24	22	12,954	557	274	14	7	4,299	3,315	326	40	32
84	181	(*)	10	9,058	279	21	1	3	2,172	1,792	133	29	33
216	271	24	20	12,411	519	248	12	6	4,112	3,248	304	24	34
92	78	17	44	59	49	29	35	120	162	65	35	57	35
59	92	(*)	137	29	31	35	(*)	36	91	28	33	33	36
243	334	32	51	8,245	407	301	4	8	1,954	1,693	291	40	37
449	530	35	68	13,914	634	339	15	8	4,638	3,434	419	68	38
148	227	(*)	14	9,255	325	33	4	4	2,208	1,839	147	39	39
227	261	25	38	8,034	389	260	4	5	1,758	1,601	240	22	40
415	436	28	54	12,917	606	290	15	5	3,995	3,092	343	29	41
34	96	8	14	436	29	47		2	466	208	69	14	42
39	108	9	14	559	32	48		2	723	323	81	24	43
6	54			242	5			2	22	67	5	18	44
518	2,545			93,204	171			146	9,814	63,431	73	1,971	45
217	281	29	88	7,535	397	281	9	59	1,898	1,602	269	110	46
100,118	45,514	1,846	8,005	1,068,137	104,972	10,641	442,323	10,662	497,341	411,249	8,848	41,971	47
8	28	3	2	312	4	29			14	29	28	1	48
284	2,685	60	7	12,845	204	820			1,427	13,146	445	3	49
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	7,890,358	254,825	499,965	50
157	219	29	43	3,625	219	230	4	17	1,323	1,031	214	36	51
1,651,463	2,298,987	110,059	214,618	40,033,798	1,306,037	610,412	29,260,907	209,616	22,874,161	6,705,847	366,235	471,681	52
72,911	33,939	1,818	5,138	767,342	89,635	9,504	435,292	1,926	379,071	287,600	6,019	22,685	53
6,151,386	4,878,496	(*)	1,263,526	60,993,647	7,117,692	762,308	47,019,246	449,728	35,263,615	14,596,205	621,060	971,646	54
3	3		2	4	5		2		12	4		1	55
192,650	2,524,750		279,000	22,439,750	1,600,454		39,003,200		2,393,889	332,342		48,000	56
2,280,374	1,294,481	(*)	728,816	2,069,780	3,286,629		15,548,321		2,319,547	598,548		51,000	57
22,094	23,900		5,132	31,337	57,607		441,980		79,529	48,603		5,493	58
	1		1		1		1			1			59
	924		10,000		32,392		1,391			1,192			60
	16,515		1,321		17,913		8,688			5,000			61

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND CHARACTERISTICS.

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercounty enterprises,

Item (For definitions and explanations, see text)		Los Angeles	Madera	Marin	Mariposa	Mendocino	Merced
ALL ENTERPRISES							
Irrigation works:							
1	Diversions dams.....enterprises reporting 1950..	49	53	5	15	44	29
2	dams 1950..	74	66	7	23	48	39
3	1940..	29	4	(*)	(*)	5	13
Diversions dams by material:							
4	Concrete or masonry.....dams 1950..	25	15	3	4	4	7
5	Timber.....dams 1950..	3	6	1	.....	2	7
6	Earth and rock.....dams 1950..	45	42	2	19	42	25
7	Other, mixed, and not reported.....dams 1950..	1	3	1	.....	.....	.....
8	Reservoirs.....enterprises reporting 1950..	69	14	3	4	7	8
9	reservoirs 1950..	93	20	11	6	10	10
10	1940..	338	37	(*)	(*)	4	8
11	Reservoirs for which capacity was reported.....reservoirs 1950..	92	19	10	6	6	5
12	total capacity, acre-feet 1950..	4,294	521,799	31	281,242	148	8,788
13	1940..	23,483	81	(*)	(*)	93	283,035
Reservoirs by capacity:							
14	1-99 acre-feet.....reservoirs 1950..	90	17	10	5	6	2
15	100-999 acre-feet.....reservoirs 1950..	1	.....	.....	.....	.....	1
16	1,000 acre-feet and over.....reservoirs 1950..	1	2	.....	1	.....	2
Reservoir dams by material:							
17	Concrete or masonry.....dams 1950..	57	4	.....	1	3	.....
18	Earth and rock.....dams 1950..	22	13	10	5	6	8
19	Other, mixed, and not reported.....dams 1950..	14	3	1	.....	1	2
20	Canals and ditches.....enterprises reporting 1950..	125	55	.....	8	6	59
21	total length, miles 1950..	137	435	.....	4	18	1,748
22	1940..	136	182	(*)	(*)	13	2,150
23	Pipelines and siphons ².....enterprises reporting 1950..	442	15	4	5	20	40
24	total length, miles 1950..	2,026	27	1	3	15	220
25	1940..	2,776	153	(*)	(*)	34	241
26	Tunnels.....enterprises reporting 1950..	6	.....	.....	.....	.....	1
27	total length, feet 1950..	4,435	.....	.....	.....	.....	2,895
28	Flowing wells.....enterprises reporting 1950..	18	4	.....	1	.....	7
29	wells 1950..	27	7	.....	1	.....	13
30	1940..	10	.....	(*)	(*)	.....	.....
31	Pumped wells.....enterprises reporting 1950..	1,581	1,499	4	3	54	721
32	wells 1950..	2,427	3,065	7	5	85	1,424
33	1940..	2,118	1,859	(*)	(*)	50	785
34	Wells for which pumping lift was reported.....wells 1949..	2,225	2,917	7	5	74	1,310
35	Average pumping lift.....feet 1949..	136	74	45	51	29	54
36	1939..	93	54	(*)	(*)	34	32
37	Irrigation pumps.....enterprises reporting 1950..	1,619	1,507	17	11	144	803
38	pumps 1950..	2,658	3,187	29	14	235	1,604
39	pumping plants 1940..	2,262	1,891	(*)	(*)	110	880
40	Electric motors used for pumping.....enterprises reporting 1950..	1,445	1,490	14	7	106	687
41	electric motors 1950..	2,333	3,166	21	9	166	1,441
42	Other motors and engines used for						
43	pumping.....enterprises reporting 1950..	273	36	6	7	54	145
	other motors and engines 1950..	410	49	7	7	68	164
Season of irrigation, 1949:							
44	Water delivered only before July 1.....enterprises reporting..	22	14	.....	1	4	14
45	acres irrigated..	1,069	13,356	.....	2	66	1,473
46	Water delivered before and after July 1.....enterprises reporting..	1,550	1,466	15	23	131	746
47	acres irrigated..	180,428	197,803	372	1,072	8,895	410,636
48	Water delivered only after July 1.....enterprises reporting..	25	13	5	.....	11	18
49	acres irrigated..	1,014	1,348	137	.....	143	2,013
Capital Investment:							
50	Capital investment in irrigation works and water						
	rights to Jan. 1, 1940.....dollars 1940..	22,316,928	3,518,584	(*)	(*)	304,212	23,223,738
	New capital investment Jan. 1, 1940, to Jan. 1, 1950:						
51	Enterprises reporting.....enterprises 1950..	751	853	11	8	89	436
52	Amount.....dollars 1950..	5,374,668	11,727,369	46,270	19,250	262,139	4,666,260
53	Area irrigated direct.....acres 1949..	76,326	122,806	391	9i	7,520	372,646
54	Total capital investment Jan. 1, 1950.....dollars 1950..	27,691,596	15,245,953	(*)	(*)	566,351	27,890,018
Indebtedness: ⁴							
Outstanding bonds, construction cost, and other							
funded obligations, Jan. 1, 1950:							
55	Enterprises reporting.....enterprises 1950..	33	3	.....	1	1	3
56	Amount.....dollars 1950..	669,986	8,105,900	.....	59,940	17,100	6,369,868
57	1940..	1,661,453	4,139	(*)	(*)	62,000	17,477,608
58	Area irrigated direct.....acres 1949..	18,736	21,656	.....	845	3,322	146,839
Arrearage in payment of principal or interest on							
bonds, construction cost, and other funded							
obligations, Jan. 1, 1950:							
59	Enterprises reporting.....enterprises 1950..	1	1	.....	.....	.....	.....
60	Amount.....dollars 1950..	500	500	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	95	1,734	.....	.....	.....	.....

See footnotes at end of County Table 2, Part 2.

BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	
226	30	20	8	51	13	59	83	38	21	29	39	98	1
392	101	22	8	98	19	74	231	59	28	31	44	132	2
416	49	15	5	42	6	21	190	36	2	37	34	40	3
43	16	2	1	7	2	16	51	26	15	3	12	28	4
94	4	4	.....	18	.....	8	66	.....	.....	2	.....	.....	5
245	79	15	6	51	7	46	97	26	10	21	26	98	6
10	2	1	1	22	10	4	17	7	3	5	6	6	7
48	7	11	13	15	27	27	5	82	16	8	61	119	8
69	15	14	18	54	40	34	6	105	17	9	85	147	9
66	5	10	10	30	58	21	3	158	7	16	140	146	10
45	7	12	16	54	37	31	2	100	13	9	79	131	11
670,790	43,229	49	794	177,999	30,202	720,210	6	32,893	950	5,304	73,554	214,245	12
579,781	44,300	117	378	134,065	28,512	741,216	33	29,257	214	4,228	73,404	218,565	13
8	4	12	14	42	26	30	2	96	11	6	76	123	14
18	2	.....	2	3	8	.....	.....	1	2	1	2	5	15
19	1	.....	.....	9	3	1	.....	3	.....	2	1	3	16
2	.....	2	8	6	10	6	2	33	2	.....	27	48	17
64	13	10	10	48	26	24	2	58	12	7	45	88	18
3	2	2	.....	4	4	4	2	14	3	2	13	11	19
141	19	4	5	31	50	32	47	41	62	13	79	27	20
500	146	13	8	235	109	299	95	478	186	48	130	45	21
443	163	37	3	367	68	168	59	402	124	46	90	48	22
4	7	36	29	10	261	53	3	159	81	13	380	147	23
2	10	101	16	106	1,084	72	2	1,038	116	12	1,306	889	24
9	3	791	80	53	1,839	31	2	1,783	244	117	2,308	1,984	25
.....	.....	.....	.....	1	3	1	.....	4	.....	.....	21	3	26
.....	.....	.....	.....	26,200	2,130	400	.....	10,250	.....	.....	40,132	8,956	27
11	3	11	2	.....	5	.....	3	16	3	2	19	8	28
26	4	14	2	.....	11	.....	4	24	8	7	46	34	29
114	2	.....	2	.....	1	.....	4	129	.....	2	106	4	30
17	6	753	63	5	1,255	82	20	1,233	1,706	390	1,056	1,603	31
20	12	1,725	86	5	1,814	113	29	1,914	2,379	656	1,554	2,592	32
6	3	1,351	129	1	1,368	41	5	1,288	1,793	479	1,156	1,912	33
20	11	1,636	74	5	1,612	111	22	1,710	2,230	624	1,445	2,441	34
46	96	87	65	18	105	54	63	118	56	100	133	112	35
38	15	60	48	(*)	84	35	36	72	38	78	94	62	36
22	6	767	106	17	1,263	161	27	1,268	1,924	400	1,066	1,668	37
40	10	1,773	166	23	1,900	219	38	2,108	3,028	716	1,844	2,697	38
14	3	1,320	197	7	1,411	73	8	1,418	2,111	488	1,196	1,939	39
10	2	749	82	13	1,122	149	26	1,156	1,856	378	921	1,587	40
24	5	1,732	126	16	1,649	199	37	1,849	2,729	645	1,463	2,551	41
12	4	45	34	4	213	19	2	202	135	34	199	145	42
14	5	51	42	5	281	21	2	309	201	50	254	189	43
46	.....	11	7	.....	69	3	15	14	10	21	10	13	44
20,522	.....	1,272	106	.....	10,605	30	7,530	703	785	363	928	320	45
172	34	732	90	72	1,086	226	81	1,182	1,842	383	1,054	1,509	46
94,617	48,335	140,523	3,673	7,468	117,357	31,451	18,969	170,261	122,883	27,058	116,877	56,937	47
1	.....	12	6	4	7	3	1	15	43	3	12	34	48
24	.....	440	37	24	409	68	100	838	2,202	32	181	264	49
2,321,396	140,520	6,048,728	280,629	1,342,427	12,193,642	2,746,515	66,937	17,648,837	3,452,182	1,413,207	18,887,694	20,289,949	50
64	12	387	83	31	526	143	44	680	972	185	575	1,112	51
3,029,937	80,176	3,121,106	270,375	1,669,907	2,594,038	1,619,431	103,630	6,539,466	2,422,369	1,190,737	4,471,292	11,219,618	52
77,615	22,717	77,658	3,403	6,298	85,555	28,680	12,827	126,825	70,564	15,756	76,442	41,021	53
5,351,333	220,696	9,169,834	551,004	3,005,334	14,787,680	4,365,946	170,567	24,188,303	5,874,551	2,603,944	23,358,986	31,509,567	54
3	.....	2	.....	2	14	2	.....	28	6	1	47	14	55
2,867,642	.....	7,300	.....	3,307,860	426,990	4,502,200	.....	28,327,673	336,281	108,000	1,499,778	7,354,921	56
1,343,302	1,253	3,150	.....	1,191,804	742,870	521,906	.....	2,660,473	377,248	.....	2,878,107	9,381,032	57
55,741	.....	750	.....	6,020	30,557	10,897	.....	74,641	14,594	.....	32,346	21,435	58
.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	4	.....	59
.....	.....	.....	.....	.....	90	.....	.....	.....	5,656	.....	7,908	.....	60
.....	.....	.....	.....	.....	100	.....	.....	.....	10,728	.....	1,300	.....	61

CALIFORNIA

3-27

BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the county or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Sierra	Siskiyou	Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba
50	287	38	30	7	12	58	95	168	4	44	7	14
218	497	89	31	10	17	63	125	215	55	50	8	15
37	442	1	9	5	4	56	144	85	24	20	2	14
51	36	2	6	1	7	39	4	98	11	10	1	7
132	48	4	2	2	2	6	8	65	2	2	1	5
29	358	20	22	9	8	17	113	58	38	35	5	6
6	55	63	1	1	1	1	1	4	6	3	1	2
3	38	15	13	7	1	5	11	18	16	37	1	7
3	53	10	15	7	1	8	14	21	22	51	1	7
1	23	6	8	8	1	4	5	358	5	68	1	2
2	51	14	13	6	1	7	12	18	20	43	1	4
(*)	2,968	519	109	86,218	(*)	19	54	2,425	398,598	287	20	5,047
	70,204	1,508	56	112,557		82	4	3,669	289,019	443	(*)	(*)
2	43	13	13	2	2	7	12	17	16	43	1	3
.....	7	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....
.....	1	.....	.....	3	.....	.....	.....	.....	3	.....	.....	.....
.....	.....	1	4	2	1	2	.....	2	4	20	.....	1
2	45	16	9	5	.....	5	13	18	18	22	1	4
1	8	1	2	.....	.....	1	1	1	.....	9	.....	2
26	228	17	7	48	30	42	65	198	18	26	86	18
57	735	174	9	2,290	481	265	90	1,177	96	29	537	198
21	785	203	4	1,973	401	301	180	945	52	29	274	218
(3)	1	9	27	41	23	25	20	129	14	190	25	18
	31	5	12	600	9	94	15	406	14	571	19	12
5	42	44	30	404	213	159	7	2,011	6	1,384	80	40
.....	2	.....	.....	5	.....	.....	.....	2	2	1	.....	3
.....	7,600	.....	.....	34,161	.....	.....	.....	750	6,028	3,500	.....	3,500
2	7	1	4	8	4	2	1	12	2	9	3	2
2	19	1	6	8	8	2	2	18	2	17	12	4
.....	4	.....	.....	5	.....	1	.....	.....	5	4	.....	30
.....	52	409	276	322	1,147	531	3	5,709	22	782	517	283
.....	85	700	370	526	1,969	738	4	10,730	33	1,314	1,072	509
1	51	494	138	224	1,162	558	2	7,603	3	838	648	198
.....	80	654	314	454	1,859	664	3	10,270	32	1,228	948	471
(*)	41	78	49	177	39	51	8	100	36	130	56	43
.....	42	56	36	57	34	34	(*)	62	57	95	39	31
1	85	455	327	387	1,249	550	22	5,733	28	806	672	296
1	152	920	447	875	2,191	766	24	11,059	46	1,501	1,488	535
.....	86	642	197	376	1,279	586	7	7,797	6	970	1,018	208
.....	58	433	278	317	1,192	536	4	5,585	23	770	623	276
.....	108	821	365	706	2,091	716	5	10,657	38	1,422	1,313	506
1	32	42	86	87	97	25	19	312	8	72	120	24
1	38	109	100	138	107	55	21	407	9	98	203	30
10	20	15	7	5	10	2	1	152	.....	18	11	2
3,931	3,461	822	73	383	511	191	10	86,028	.....	1,322	541	137
40	310	418	271	320	1,177	553	102	5,490	58	765	625	302
18,664	104,120	55,595	7,553	339,238	169,221	39,676	3,661	511,040	1,817	110,534	137,167	39,539
.....	8	12	22	19	20	16	1	96	2	3	20	5
.....	175	252	406	3,103	1,036	310	20	8,456	13	384	656	84
50,444	3,814,940	1,094,222	201,129	17,735,912	5,438,759	1,670,599	101,019	20,186,082	217,480	8,963,658	5,734,424	1,535,916
23	104	242	167	271	588	304	21	3,185	26	473	354	157
38,151	3,011,831	1,228,947	419,054	13,174,205	1,980,627	860,832	25,760	41,645,893	133,266	5,512,404	2,772,938	683,725
9,189	63,553	36,483	4,480	328,571	103,551	28,266	565	353,220	1,401	80,965	101,249	27,004
88,595	6,826,771	2,323,169	620,183	30,910,117	7,419,386	2,531,431	126,779	61,831,975	350,746	14,476,062	8,507,362	2,219,641
.....	4	1	.....	8	3	3	.....	13	.....	8	2	3
.....	2,499,070	84,537	.....	10,961,858	804,699	1,122,433	.....	26,665,052	.....	766,883	158,919	272,200
.....	4,384,981	22,048	.....	9,425,634	54,000	943,700	.....	1,758,038	.....	168,406	852,065	361,563
.....	36,203	5,518	.....	269,694	5,501	12,263	.....	28,105	.....	7,661	19,124	5,630
.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....
.....	.....	.....	.....	.....	699	912,033	.....	300	.....	.....	.....	.....
.....	.....	.....	.....	.....	1,230	4,056	.....	7,718	.....	.....	.....	.....

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)	The State	Alameda	Alpine	Amador	Butte	Calaveras	
ALL ENTERPRISES							
Cost of water to farms, 1949:²							
Total cost of water to farms:							
1	Enterprises reporting.....enterprises..	47,200	526	7	42	795	106
2	Cost.....dollars..	65,002,185	423,185	736	5,652	817,686	30,785
3	Area irrigated direct.....acres..	7,394,871	25,470	3,412	683	121,485	3,991
4	Cost per acre irrigated direct.....dollars..	8.79	16.62	0.22	8.28	6.73	7.71
5	Total cost per irrigated acre.....dollars..	9.85	16.70	0.22	8.28	6.78	7.71
6	Total cost per acre-foot of water ³.....dollars..	3.18	8.35	(4)	(4)	1.15	1.51
Enterprises by cost per acre:							
7	Less than \$1.00.....enterprises reporting..	3,892	24	6	16	65	49
8	.....acres irrigated..	807,768	1,454	3,307	291	6,191	896
9	\$1.00-\$1.99.....enterprises reporting..	1,176	8	1	.....	35	1
10	.....acres irrigated..	552,291	693	105	.....	2,477	20
11	\$2.00-\$4.99.....enterprises reporting..	7,058	61	.....	1	211	8
12	.....acres irrigated..	1,684,785	3,186	.....	2	32,574	1,454
13	\$5.00-\$9.99.....enterprises reporting..	13,217	128	.....	14	276	13
14	.....acres irrigated..	2,294,930	10,928	.....	256	55,916	574
15	\$10.00 and over.....enterprises reporting..	21,857	305	.....	11	208	35
16	.....acres irrigated..	2,055,097	9,209	.....	134	24,327	1,047
Cost of water for primary irrigation:							
17	Enterprises reporting.....enterprises..	39,826	526	7	42	791	106
18	Cost.....dollars..	59,776,671	421,799	736	5,652	812,489	30,785
19	Area supplied primary irrigation.....acres..	6,598,839	25,339	3,412	683	120,587	3,991
20	Cost per acre supplied.....dollars..	9.06	16.65	0.22	8.28	6.74	7.71
Cost of water for supplemental irrigation:							
21	Enterprises reporting.....enterprises..	8,240	9	.....	.....	8	.....
22	Cost.....dollars..	5,225,514	1,386	.....	.....	5,197	.....
23	Area supplied supplemental irrigation.....acres..	796,032	131	.....	.....	898	.....
24	Cost per acre supplied.....dollars..	6.56	10.58	.....	.....	5.79	.....
Cost to farms for purposes other than operation and maintenance:⁵							
25	Enterprises reporting.....enterprises..	281	2	.....	.....	3	.....
26	Cost.....dollars..	5,157,361	636,300	.....	.....	68,407	.....
27	Area irrigated direct.....acres..	1,912,277	61,656	.....	.....	23,675	.....
28	Cost per acre irrigated.....dollars..	2.70	(6)	.....	.....	2.89	.....
Arrearage in payments by farms, Jan. 1, 1950:⁵							
29	Enterprises reporting.....enterprises..	211	1	.....	.....	7	.....
30	Amount.....dollars..	609,110	8	.....	.....	17,235	.....
31	Area irrigated direct.....acres..	1,523,237	1,656	.....	.....	40,017	.....
SINGLE-FARM ENTERPRISES, 1950							
32	Single-farm enterprises.....enterprises..	46,107	525	7	40	790	101
33	Area irrigated.....acres..	4,259,590	23,611	3,412	557	62,359	1,987
34	Complete-system enterprises ⁷.....enterprises..	44,524	523	4	36	752	95
35	Area irrigated.....acres..	3,932,111	23,600	2,122	495	47,122	1,927
Other farms irrigated:							
36	Enterprises reporting.....number..	2,711	65	.....	1	44	1
37	Number of other farms.....farms..	4,432	97	.....	1	58	3
38	Area irrigated in other farms.....acres..	105,623	1,632	.....	3	952	12
Enterprises by origin of water supply:⁷							
39	No water from other enterprises.....enterprises reporting..	44,938	524	4	36	760	97
40	.....acres irrigated..	3,946,416	23,600	2,122	495	47,122	1,933
41	Part of water from other enterprises.....enterprises reporting..	647	.....	2	1	19	4
42	.....acres irrigated..	279,151	.....	1,100	12	14,148	54
43	All of water from other enterprises.....enterprises reporting..	522	1	.....	3	11	.....
44	.....acres irrigated..	34,023	11	190	50	1,089	.....
Enterprises by primary and supplemental irrigation:							
45	All primary.....enterprises reporting..	37,901	515	7	40	776	100
46	.....acres irrigated..	3,677,175	23,092	3,412	557	62,009	1,987
47	Part primary, part supplemental.....enterprises reporting..	494	9	.....	.....	2	.....
48	.....acres irrigated..	73,876	388	.....	.....	112	.....
49	Supplemental irrigation.....acres irrigated..	41,098	131	.....	.....	23	.....
50	All supplemental.....enterprises reporting..	7,347	.....	.....	.....	4	.....
51	.....acres irrigated..	467,441	.....	.....	.....	215	.....
Enterprises by number of acres irrigated:⁷							
52	None.....enterprises reporting..	365	1	.....	.....	8	1
53	1-9 acres.....enterprises reporting..	9,689	205	.....	27	177	51
54	10-29 acres.....enterprises reporting..	12,898	160	.....	9	257	37
55	30-59 acres.....enterprises reporting..	9,583	63	.....	2	141	5
56	60-99 acres.....enterprises reporting..	5,137	32	.....	1	64	2
57	100-199 acres.....enterprises reporting..	4,351	31	2	1	71	3
58	200-499 acres.....enterprises reporting..	2,805	25	2	.....	54	1
59	500-999 acres.....enterprises reporting..	786	7	.....	.....	11	.....
60	1,000 acres or more.....enterprises reporting..	493	1	3	.....	7	1

See footnotes at end of County Table 2, Part 3.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Colusa	Contra Costa	Del Norte	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern	Kings	Lake	Lassen	
238	364	32	94	8,289	420	327	10	63	2,011	1,723	306	176	1
611,062	374,989	9,763	90,749	8,827,007	639,977	73,550	3,275,982	9,243	7,268,308	2,782,340	56,908	41,165	2
102,092	50,755	1,906	8,045	1,190,133	106,256	12,655	444,535	12,515	521,025	488,146	9,425	52,797	3
5.99	7.39	5.12	11.28	7.42	6.02	5.81	7.37	0.74	13.95	5.70	6.04	0.78	4
6.09	7.39	5.12	11.34	10.00	6.06	5.82	7.37	0.74	15.29	8.04	6.08	0.79	5
0.90	4.62	(4)	3.66	4.76	1.26	(4)	1.94	0.26	6.95	5.36	(4)	(4)	6
18	47	.....	41	303	32	31	5	49	141	57	24	143	7
3,517	16,068	.....	1,496	70,056	4,677	408	2,133	11,482	33,308	70,500	1,615	43,651	8
13	6	.....	2	230	22	16	2	2	26	85	15	8	9
1,450	3,596	235	367	175,365	3,088	1,774	212	360	21,634	74,537	567	1,605	10
64	55	12	9	2,093	114	103	.....	5	122	434	81	11	11
16,091	4,876	802	224	375,015	13,212	5,100	.....	464	73,845	84,435	2,936	6,524	12
95	85	13	5	3,311	145	108	.....	2	361	630	103	6	13
73,429	7,549	757	508	282,847	74,430	4,010	433,502	81	92,710	207,597	3,101	579	14
48	171	5	37	2,352	107	69	.....	5	1,361	517	83	8	15
7,605	18,666	112	5,450	286,850	10,849	1,363	8,688	128	299,528	51,077	1,206	438	16
234	363	32	91	3,874	417	327	8	63	1,860	1,171	305	174	17
601,361	374,943	9,763	89,475	7,035,193	634,701	73,480	3,275,682	9,243	6,882,355	2,181,712	56,694	40,535	18
100,375	50,747	1,906	8,002	882,851	105,613	12,655	444,323	12,515	475,233	345,977	9,358	52,344	19
5.99	7.39	5.12	11.18	7.97	6.01	5.81	7.37	0.74	14.48	6.31	6.06	0.77	20
6	1	.....	3	4,576	6	2	.....	.....	197	589	4	3	21
9,701	46	.....	1,274	1,791,814	5,276	70	300	.....	385,953	600,628	214	630	22
1,717	8	.....	43	307,282	643	16	212	.....	45,792	142,169	67	453	23
5.65	5.75	.....	29.63	5.83	8.21	4.38	1.42	.....	8.43	4.22	3.19	1.39	24
4	3	.....	1	11	5	.....	2	.....	6	4	.....	1	25
13,455	78,590	.....	9,000	183,560	46,544	.....	1,692,509	.....	69,171	17,790	.....	3,600	26
16,971	22,127	.....	3,811	315,373	39,990	.....	441,980	.....	28,169	26,961	.....	5,493	27
0.79	3.55	.....	2.36	0.58	1.16	.....	3.83	.....	2.46	0.66	.....	0.66	28
4	2	.....	3	11	4	.....	1	.....	7	11	.....	1	29
3,038	9,406	.....	9,386	123,942	35,560	.....	1,391	.....	3,194	12,022	.....	2,000	30
7,522	22,022	.....	5,317	408,053	32,124	.....	8,688	.....	52,489	64,842	.....	5,493	31
241	366	32	90	8,302	416	327	8	57	1,967	1,692	305	175	32
45,556	26,609	1,906	2,396	721,403	36,807	12,604	2,555	7,180	428,798	323,593	9,409	47,304	33
198	246	32	76	8,185	406	325	7	54	1,898	1,644	305	164	34
32,314	22,317	1,906	2,289	698,139	34,104	12,564	2,345	5,717	412,769	228,375	9,409	44,432	35
33	18	.....	.....	365	20	11	.....	.....	96	57	22	4	36
47	21	.....	.....	424	21	13	.....	.....	116	69	24	6	37
2,015	379	.....	.....	12,567	1,277	144	.....	.....	5,894	14,846	306	990	38
211	264	32	80	8,239	410	327	7	54	1,908	1,655	305	164	39
32,648	22,389	1,906	2,289	701,651	34,104	12,604	2,345	5,717	412,769	231,446	9,409	44,432	40
10	16	.....	6	51	4	.....	.....	2	52	34	.....	9	41
10,723	1,560	.....	78	19,179	2,528	.....	.....	1,389	15,720	92,098	.....	2,422	42
20	86	.....	4	12	2	.....	.....	1	7	3	.....	2	43
2,185	2,660	.....	29	573	175	.....	210	74	309	49	.....	450	44
225	357	32	85	3,698	407	324	6	57	1,776	1,113	301	173	45
14,439	26,601	1,906	2,353	470,114	36,388	12,528	2,343	7,180	390,391	240,245	9,265	46,934	46
.....	.....	.....	.....	139	2	.....	.....	.....	32	28	.....	3	47
.....	.....	.....	.....	5,432	226	.....	.....	.....	10,400	35,827	.....	77	48
.....	.....	.....	.....	7,913	70	.....	.....	.....	5,484	11,328	.....	60	49
4	1	.....	3	4,414	3	.....	.....	.....	149	544	.....	1	50
1,117	8	.....	43	237,944	123	.....	212	.....	22,523	36,193	.....	7	51
12	8	.....	2	51	4	1	.....	.....	10	7	.....	.....	52
9	164	1	51	1,203	67	64	.....	21	184	186	86	14	53
30	97	8	26	3,169	100	97	1	5	224	429	129	16	54
35	43	8	4	2,246	95	99	4	7	324	427	56	21	55
48	14	9	2	794	50	49	.....	9	287	252	21	25	56
42	12	5	2	461	57	14	.....	3	386	216	7	35	57
40	13	1	1	214	32	2	.....	1	366	90	5	39	58
17	8	.....	2	63	6	1	.....	4	111	37	1	14	59
8	7	.....	.....	101	5	.....	1	2	75	48	.....	11	60

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)	Los Angeles	Madera	Marin	Mariposa	Mendocino	Merced	
ALL ENTERPRISES							
Cost of water to farms, 1949:²							
Total cost of water to farms:							
1	Enterprises reporting.....enterprises..	1,664	1,537	20	24	165	811
2	Cost.....dollars..	3,805,389	1,832,617	3,629	7,217	73,638	1,832,802
3	Area irrigated direct.....acres..	188,684	224,912	509	1,074	9,273	417,876
4	Cost per acre irrigated direct.....dollars..	20.17	8.15	7.13	6.72	7.94	4.39
5	Total cost per irrigated acre.....dollars..	21.42	9.68	7.13	6.72	8.09	4.74
6	Total cost per acre-foot of water ³.....dollars..	10.71	4.84	(⁴)	(⁴)	(⁴)	1.48
Enterprises by cost per acre:							
7	Less than \$1.00.....enterprises reporting..	118	39	6	10	36	88
8	.....acres irrigated..	8,580	4,078	115	91	939	17,691
9	\$1.00-\$1.99.....enterprises reporting..	15	11	1	7	7	49
10	.....acres irrigated..	1,793	13,754	80	40	331	54,005
11	\$2.00-\$4.99.....enterprises reporting..	71	136	1	2	40	188
12	.....acres irrigated..	7,651	55,389	30	860	2,154	288,472
13	\$5.00-\$9.99.....enterprises reporting..	191	617	7	5	36	249
14	.....acres irrigated..	20,149	85,312	108	38	1,825	32,346
15	\$10.00 and over.....enterprises reporting..	1,269	734	5	6	46	237
16	.....acres irrigated..	150,511	66,379	176	45	4,024	25,362
Cost of water for primary irrigation:							
17	Enterprises reporting.....enterprises..	1,635	1,400	20	24	162	652
18	Cost.....dollars..	3,574,499	1,523,606	3,629	7,217	73,532	1,638,410
19	Area supplied primary irrigation.....acres..	177,650	189,309	509	1,074	9,102	366,641
20	Cost per acre supplied.....dollars..	20.12	8.05	7.13	6.72	8.08	4.24
Cost of water for supplemental irrigation:							
21	Enterprises reporting.....enterprises..	108	148	.....	.....	4	160
22	Cost.....dollars..	230,890	309,011	.....	.....	106	194,392
23	Area supplied supplemental irrigation.....acres..	11,034	35,603	.....	.....	171	31,235
24	Cost per acre supplied.....dollars..	20.93	8.68	.....	.....	0.55	6.22
Cost to farms for purposes other than operation and maintenance:⁵							
25	Enterprises reporting.....enterprises..	21	3	.....	1	1	6
26	Cost.....dollars..	58,149	44,087	.....	1,377	10,800	217,622
27	Area irrigated direct.....acres..	12,327	27,828	.....	845	3,322	261,336
28	Cost per acre irrigated.....dollars..	4.72	1.58	.....	1.63	3.25	0.83
Arrearage in payments by farms, Jan. 1, 1950:⁵							
29	Enterprises reporting.....enterprises..	22	6	.....	.....	1	7
30	Amount.....dollars..	9,840	19,108	.....	.....	2,000	18,495
31	Area irrigated direct.....acres..	14,573	45,538	.....	.....	3,322	205,774
SINGLE-FARM ENTERPRISES, 1950							
32	Single-farm enterprises.....enterprises..	1,481	1,529	21	23	165	819
33	Area irrigated.....acres..	92,095	173,439	509	229	5,951	102,325
34	Complete-system enterprises ⁷.....enterprises..	1,416	1,446	20	23	160	740
35	Area irrigated.....acres..	89,674	157,774	509	229	5,666	85,060
Other farms irrigated:							
36	Enterprises reporting.....number..	107	21	.....	.....	4	27
37	Number of other farms.....farms..	163	24	.....	.....	4	27
38	Area irrigated in other farms.....acres..	2,331	567	.....	.....	47	1,204
Enterprises by origin of water supply:⁷							
39	No water from other enterprises.....enterprises reporting..	1,435	1,451	21	23	162	761
40	.....acres irrigated..	89,704	158,329	509	229	5,788	85,359
41	Part of water from other enterprises.....enterprises reporting..	15	64	.....	.....	2	27
42	.....acres irrigated..	1,783	14,325	.....	.....	138	15,751
43	All of water from other enterprises.....enterprises reporting..	31	14	.....	.....	1	31
44	.....acres irrigated..	608	785	.....	.....	25	1,215
Enterprises by primary and supplemental irrigation:							
45	All primary.....enterprises reporting..	1,424	1,381	20	23	160	641
46	.....acres irrigated..	88,895	142,009	509	229	5,707	76,944
47	Part primary, part supplemental.....enterprises reporting..	11	8	.....	.....	1	9
48	.....acres irrigated..	616	347	.....	.....	73	541
49	Supplemental irrigation.....acres irrigated..	263	1,600	.....	.....	15	3,181
50	All supplemental.....enterprises reporting..	28	137	.....	.....	3	149
51	.....acres irrigated..	2,321	29,483	.....	.....	156	21,659
Enterprises by number of acres irrigated:⁷							
52	None.....enterprises reporting..	18	3	1	.....	1	20
53	1-9 acres.....enterprises reporting..	376	135	3	16	53	94
54	10-29 acres.....enterprises reporting..	345	233	10	5	54	181
55	30-59 acres.....enterprises reporting..	298	424	5	1	29	174
56	60-99 acres.....enterprises reporting..	216	255	2	1	15	122
57	100-199 acres.....enterprises reporting..	117	204	.....	.....	9	107
58	200-499 acres.....enterprises reporting..	87	114	.....	.....	3	77
59	500-999 acres.....enterprises reporting..	20	41	.....	.....	1	26
60	1,000 acres or more.....enterprises reporting..	4	20	.....	.....	.....	18

See footnotes at end of County Table 2, Part 3.

CALIFORNIA

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego	
273	33	772	112	73	1,265	235	104	1,300	1,948	411	1,100	1,685	1
117,087	14,884	1,374,140	38,067	87,979	1,591,253	382,195	17,615	2,947,185	824,084	359,366	2,053,219	1,773,259	2
131,729	48,335	143,792	4,042	7,492	132,693	31,606	28,859	174,219	130,869	28,149	119,746	59,678	3
0.89	0.31	9.56	9.42	11.74	11.99	12.09	0.61	16.92	6.30	12.77	17.23	29.71	4
0.89	0.31	9.80	9.42	11.83	12.44	12.22	0.62	18.18	6.45	12.87	19.12	30.24	5
(*)	0.13	3.63	(*)	2.75	6.91	3.82	(*)	3.37	1.54	7.15	7.65	20.16	6
250	28	26	6	35	85	39	74	152	121	17	111	106	7
96,869	43,705	5,401	166	663	5,953	923	23,563	6,837	25,038	2,070	6,572	2,476	8
5	2	6	6	6	25	8	11	11	54	8	17	21	9
956	4,000	2,525	241	252	3,888	975	4,018	518	12,367	576	5,598	1,765	10
6	2	87	22	4	145	20	8	53	250	48	67	93	11
33,034	629	21,825	1,409	340	29,514	729	855	5,229	29,230	3,487	7,493	3,251	12
7	.....	264	30	5	295	45	3	142	617	124	152	183	13
598	.....	62,365	1,379	81	35,105	2,178	169	80,200	37,858	10,489	25,784	8,946	14
5	.....	383	48	23	715	123	8	942	906	214	753	1,282	15
272	1	51,676	847	6,147	58,233	26,801	254	81,435	26,376	11,527	74,299	43,240	16
270	33	758	112	65	1,246	220	102	1,243	1,943	409	1,071	1,601	17
117,063	14,384	1,352,140	38,067	87,521	1,530,549	380,356	16,929	2,746,239	814,768	356,878	1,892,599	1,756,668	18
131,449	47,335	140,171	4,042	7,434	127,958	31,276	28,382	162,079	127,843	27,924	107,923	58,649	19
0.89	0.30	9.65	9.42	11.77	11.96	12.16	0.60	16.94	6.37	12.78	17.54	28.95	20
4	1	23	.....	8	65	16	2	118	11	7	128	86	21
24	500	22,000	.....	458	60,704	1,839	686	200,946	9,316	2,488	170,620	16,591	22
280	1,000	3,621	.....	58	4,735	330	477	12,140	3,026	225	11,823	1,029	23
0.09	0.50	6.08	.....	7.90	12.82	5.57	1.44	16.55	3.08	11.06	14.43	16.12	24
2	.....	2	.....	.....	28	1	.....	27	5	3	69	16	25
10,990	.....	8,399	.....	.....	106,737	3,240	.....	263,047	39,171	611,400	300,740	388,873	26
24,711	.....	3,466	.....	.....	22,068	455	.....	74,952	13,796	6,203	29,452	21,774	27
0.44	.....	2.42	.....	.....	4.84	7.12	.....	3.51	2.84	(6)	10.21	17.86	28
3	1	3	.....	2	8	2	.....	16	8	1	32	7	29
3,752	500	720	.....	14,110	2,333	25,808	.....	18,696	38,886	560	29,984	2,757	30
25,186	14,475	1,137	.....	6,030	669	10,897	.....	63,759	18,317	74	18,072	6,139	31
264	31	765	112	70	1,020	231	103	1,212	1,951	405	830	1,678	32
65,587	31,885	135,546	4,042	1,432	58,719	6,910	27,911	71,155	112,033	27,255	48,084	33,598	33
253	29	762	112	55	998	143	97	1,160	1,918	400	795	1,590	34
64,165	25,155	135,546	4,042	1,135	57,807	3,998	26,832	68,966	110,130	26,607	46,827	32,468	35
5	1	38	1	.....	279	5	2	68	42	72	52	24	36
5	2	46	2	.....	679	5	5	115	46	116	111	24	37
200	50	1,570	200	.....	6,725	71	311	2,469	1,817	2,096	1,483	419	38
256	29	765	112	55	1,003	143	99	1,180	1,930	402	812	1,610	39
64,165	25,155	135,546	4,042	1,135	57,857	3,998	27,161	68,973	110,130	26,747	46,895	32,468	40
6	1	.....	.....	10	8	25	2	10	3	8	32	41	41
804	6,500	.....	.....	254	599	897	580	1,448	1,129	508	907	744	42
2	1	.....	.....	5	9	61	2	22	11	.....	10	36	43
618	230	.....	.....	43	263	2,015	170	734	774	.....	282	386	44
258	31	742	112	62	981	216	101	1,125	1,930	399	792	1,572	45
65,337	31,885	132,911	4,042	1,374	55,646	6,620	27,434	66,196	109,317	26,884	46,157	32,496	46
.....	.....	6	.....	.....	17	.....	.....	13	4	3	5	2	47
.....	.....	907	.....	.....	1,029	.....	.....	1,685	527	190	142	73	48
.....	.....	347	.....	.....	495	.....	.....	450	274	97	122	7	49
3	.....	14	.....	8	18	15	2	56	5	2	17	84	50
250	.....	1,381	.....	58	1,549	290	477	2,824	1,915	84	1,663	1,022	51
3	.....	3	.....	.....	4	.....	.....	18	12	1	16	20	52
22	3	102	40	38	207	76	12	298	692	54	215	1,048	53
21	2	97	36	17	329	83	6	344	526	133	225	369	54
33	1	102	20	9	216	40	13	235	317	105	180	133	55
30	.....	105	7	1	106	14	13	129	143	53	88	43	56
69	6	166	6	4	94	15	15	111	128	37	54	35	57
57	7	129	2	1	53	3	27	61	88	12	38	26	58
18	.....	38	.....	.....	10	.....	9	13	32	7	7	7	59
11	12	23	.....	.....	1	.....	8	3	13	3	7	2	60

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are included in each county in which they had irrigation works, but only once in State total. For intercounty and interstate enterprises,

Item (For definitions and explanations, see text)	San Joaquin	San Luis Obispo	San Mateo ¹	Santa Barbara	Santa Clara	Santa Cruz	Shasta
ALL ENTERPRISES							
Cost of water to farms, 1949:²							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	3,080	433	185	696	2,198	294	261
2 Cost.....dollars..	2,741,416	311,266	112,452	843,768	1,962,574	162,366	110,831
3 Area irrigated direct.....acres..	413,186	28,283	6,424	61,032	103,699	14,281	42,607
4 Cost per acre irrigated direct.....dollars..	6.63	11.01	17.50	13.83	18.93	11.37	2.60
5 Total cost per irrigated acre.....dollars..	6.80	11.22	18.80	14.58	19.40	11.39	2.62
6 Total cost per acre-foot of water ³.....dollars..	1.94	(⁴)	(⁴)	9.11	17.64	(⁴)	0.37
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	252	29	12	47	91	18	157
8 ..acres irrigated..	84,940	542	231	2,124	2,324	1,338	23,146
9 \$1.00-\$1.99.....enterprises reporting..	99	4	2	12	33	9	25
10 ..acres irrigated..	26,926	132	147	1,109	3,209	288	2,592
11 \$2.00-\$4.99.....enterprises reporting..	480	36	17	52	160	40	29
12 ..acres irrigated..	70,104	6,751	1,046	5,635	11,517	3,174	2,372
13 \$5.00-\$9.99.....enterprises reporting..	1,073	85	28	163	460	77	21
14 ..acres irrigated..	122,450	6,915	1,612	22,865	31,789	3,470	14,071
15 \$10.00 and over.....enterprises reporting..	1,176	279	126	422	1,454	150	29
16 ..acres irrigated..	108,766	13,943	3,388	29,299	54,860	6,011	426
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	3,051	429	177	680	2,153	293	260
18 Cost.....dollars..	2,693,436	308,297	106,333	821,879	1,927,726	162,110	110,739
19 Area supplied primary irrigation.....acres..	402,889	27,751	5,982	57,854	101,172	14,252	42,372
20 Cost per acre supplied.....dollars..	6.69	11.11	17.78	14.21	19.05	11.37	2.61
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	53	7	11	36	106	2	3
22 Cost.....dollars..	47,980	2,069	6,119	21,889	34,848	256	92
23 Area supplied supplemental irrigation.....acres..	10,297	532	442	3,178	2,527	29	235
24 Cost per acre supplied.....dollars..	4.66	5.58	13.84	6.89	13.79	8.83	0.39
Cost to farms for purposes other than operation and maintenance:⁵							
25 Enterprises reporting.....enterprises..	10	.....	.....	4	6	.....	4
26 Cost.....dollars..	340,869	.....	.....	36,689	6309,585	.....	28,707
27 Area irrigated direct.....acres..	92,678	.....	.....	1,700	6415	.....	12,083
28 Cost per acre irrigated.....dollars..	3.68	.....	.....	21.85	(⁶)	.....	2.38
Arrearage in payments by farms, Jan. 1, 1950:⁵							
29 Enterprises reporting.....enterprises..	12	1	.....	2	.....	1	1
30 Amount.....dollars..	24,984	300	.....	750	.....	500	14,490
31 Area irrigated direct.....acres..	95,378	2	.....	819	.....	389	10,874
SINGLE-FARM ENTERPRISES, 1950							
32 Single-farm enterprises.....enterprises..	3,066	426	185	683	2,211	297	251
33 Area irrigated.....acres..	270,678	27,259	5,628	55,587	99,921	13,804	25,764
34 Complete-system enterprises ⁷.....enterprises..	3,031	420	178	664	2,174	285	246
35 Area irrigated.....acres..	263,860	26,872	5,474	55,137	99,678	13,370	25,133
Other farms irrigated:							
36 Enterprises reporting.....number..	111	5	5	82	536	30	4
37 Number of other farms.....farms..	155	8	5	137	1,260	39	7
38 Area irrigated in other farms.....acres..	6,070	86	19	2,502	14,961	456	159
Enterprises by origin of water supply:⁷							
39 No water from other enterprises.....enterprises reporting..	3,048	421	180	671	2,202	290	247
40 ..acres irrigated..	263,860	26,872	5,474	55,138	99,678	13,370	25,133
41 Part of water from other enterprises.....enterprises reporting..	11	1	4	4	5	5	2
42 ..acres irrigated..	5,095	284	146	378	208	351	472
43 All of water from other enterprises.....enterprises reporting..	7	4	1	8	4	2	2
44 ..acres irrigated..	1,723	103	8	71	35	83	159
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	3,003	421	173	647	2,080	290	248
46 ..acres irrigated..	267,020	27,209	5,252	54,140	93,452	13,743	25,608
47 Part primary, part supplemental.....enterprises reporting..	17	.....	2	15	58	1	1
48 Primary irrigation.....acres irrigated..	1,636	.....	64	886	4,345	32	21
49 Supplemental irrigation.....acres irrigated..	449	.....	5	361	1,279	21	60
50 All supplemental.....enterprises reporting..	29	4	8	15	45	1	1
51 ..acres irrigated..	1,573	50	307	200	845	8	75
Enterprises by number of acres irrigated:⁷							
52 None.....enterprises reporting..	17	1	2	6	2R	5	1
53 1-9 acres.....enterprises reporting..	674	129	63	146	525	102	53
54 10-29 acres.....enterprises reporting..	875	143	71	163	725	73	57
55 30-59 acres.....enterprises reporting..	588	64	21	126	477	51	44
56 60-99 acres.....enterprises reporting..	350	33	12	88	221	28	36
57 100-199 acres.....enterprises reporting..	273	31	13	83	153	23	33
58 200-499 acres.....enterprises reporting..	194	17	3	49	73	8	21
59 500-999 acres.....enterprises reporting..	61	5	.....	15	6	5	2
60 1,000 acres or more.....enterprises reporting..	34	3	.....	7	3	2	4

¹ For 1950, includes data for less than 3 enterprises in San Francisco County.

² Enterprises with reported cost of \$0 in 1949 are included.

³ Average cost per irrigated acre divided by calculated average quantity of water per acre. (County Table 2, Part 4, line 66.)

⁴ Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.

⁵ Not reported by single-farm enterprises.

⁶ Cost and area irrigated not comparable because of ground water replenishment enterprise. (See text.)

⁷ For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

CALIFORNIA

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CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the county or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Sierra	Siskiyou	Solano	Sonoma	Stanislaus	Sutter	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba		
52	377	460	341	374	1,248	580	105	5,818	58	816	683	312	1	
8,704	207,424	461,356	86,887	1,766,670	1,186,809	262,272	2,321	7,232,126	21,574	1,760,267	991,124	285,066	2	
23,480	111,143	57,007	8,677	346,045	178,524	40,765	3,783	618,559	1,835	114,866	141,805	39,987	3	
0.37	1.87	8.09	10.01	5.11	6.65	6.43	0.67	11.69	11.76	15.32	6.99	7.13	4	
0.46	1.89	8.17	10.01	5.49	6.78	6.89	0.67	14.41	12.19	15.78	7.25	7.14	5	
(4)	0.99	(4)	(4)	1.57	1.41	1.50	(4)	7.58	1.67	8.77	1.61	1.43	6	
47	278	28	35	59	36	38	73	199	22	46	24	25	7	
21,580	52,756	11,906	1,035	13,020	5,235	3,709	3,245	49,300	81	4,134	2,912	1,430	8	
4	20	14	12	32	34	15	7	70	1	14	43	1	9	
1,890	9,625	2,582	445	5,346	8,967	7,197	208	72,857	28	2,138	10,638	200	10	
	33	95	70	93	238	85	12	674	7	87	211	54	11	
	40,897	12,157	2,267	205,891	38,782	14,104	211	67,335	297	18,886	53,477	17,552	12	
	22	139	74	104	521	182	5	1,537	6	186	220	110	13	
	7,339	16,602	2,582	73,346	94,666	6,798	69	158,678	139	31,212	32,895	13,738	14	
1	24	184	150	86	419	260	8	3,338	22	483	185	122	15	
10	526	13,760	2,348	49,442	30,874	8,987	50	270,372	1,290	58,496	41,900	7,067	16	
52	370	460	341	230	1,242	570	105	4,435	56	786	676	310	17	
6,456	205,054	453,741	86,887	1,665,625	1,165,464	255,465	2,521	6,379,325	21,104	1,700,609	957,570	284,672	18	
19,073	109,462	56,447	8,677	321,725	174,932	38,091	3,783	501,748	1,770	111,518	136,749	39,947	19	
0.34	1.87	8.04	10.01	5.18	6.66	6.71	0.67	12.71	11.92	15.25	7.00	7.13	20	
2	9	2		158	25	16		1,471	2	50	27	2	21	
2,248	2,370	7,615		101,045	21,345	6,807		852,801	470	59,658	33,548	394	22	
4,407	1,681	560		24,320	3,592	2,694		116,811	65	3,348	5,056	40	23	
0.51	1.41	13.60		4.15	5.94	2.53		7.30	7.23	17.82	6.64	9.85	24	
1	2	1		8	3	2		12		18	1	1	25	
2,700	7,200	24,000		443,921	23,312	6,750		143,542		99,978	4,400	2,150	26	
6,067	5,693	5,518		282,044	11,485	5,157		32,863		13,233	16,508	4,092	27	
0.45	1.26	4.35		1.57	2.03	1.31		4.37		7.56	0.27	0.53	28	
	4	1		7	4	4		16		9	3	2	29	
	4,335	3,279		36,605	27,820	9,503		47,460		5,713	26,706	943	30	
	34,863	5,518		101,329	59,013	14,090		90,806		5,625	19,274	3,072	31	
50	353	460	342	385	1,246	572	105	5,720	57	748	679	308	32	
17,033	60,290	51,324	8,596	57,895	101,190	20,751	3,691	466,449	650	80,135	111,435	24,759	33	
33	323	455	335	332	1,220	564	103	5,592	44	715	610	305	34	
9,608	50,153	49,723	8,182	51,679	94,898	20,561	3,681	446,817	433	76,674	80,918	24,724	35	
	16	15	2	20	58	18		198	1	73	46	8	36	
	17	16	2	31	76	21		230	4	86	53	11	37	
	1,012	187	42	3,205	3,655	358		5,794	42	2,641	1,542	355	38	
33	328	455	337	355	1,228	567	105	5,623	44	727	615	307	39	
9,608	50,667	51,024	8,182	51,687	95,076	20,561	3,691	448,050	433	76,805	83,212	24,724	40	
15	18	1	3	14	13	3		85	9	11	23	1	41	
6,830	8,882	80	316	5,068	5,173	90		17,091	213	1,358	19,703	35	42	
2	7	1	2	16	5	2		12	4	10	41		43	
595	741	220	98	1,140	941	100		1,308	4	1,972	8,520		44	
49	343	457	340	208	1,218	557	104	4,265	55	698	653	304	45	
16,913	59,306	51,286	8,596	36,237	97,132	19,618	3,691	386,459	585	76,890	106,983	24,719	46	
1		1		11	15	2		53		10	12		47	
80		28		927	1,895	57		2,552		1,271	1,430		48	
40		10		1,651	1,269	38		3,148		397	494		49	
				144	6	10		1,376		2	30		50	
	984			19,080	894	1,038		74,290		65	1,577	2,528	40	51
	4	2	2	22	7	3	1	26		10	1	2	52	
5	48	41	135	34	236	189	36	990		41	97	63	88	53
3	59	127	103	66	367	199	36	1,547		11	150	142	71	54
	55	125	64	48	247	108	15	1,308		2	149	134	43	55
3	50	67	25	68	149	33	9	730	2	97	104	32	56	
11	59	51	11	60	127	27	4	593	1	133	108	34	57	
17	57	28	2	56	77	9	4	373		81	84	31	58	
7	11	11		22	24	3		106		25	23	6	59	
4	9	8		9	12	1		47		6	20	1	60	

IRRIGATION OF AGRICULTURAL LANDS

County Table 2 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once]

		The State	Alameda	Alpine	Butte	Calaveras	Colusa	Contra Costa	El Dorado
(For definitions and explanations, see text)									
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ¹.....enterprises..	1,506	4	3	13	6	10	6	6
2	Area irrigated direct.....acres..	3,135,281	1,859		59,126	2,004	56,536	24,146	5,649
3	Multiple-purpose enterprises ¹.....enterprises..	206			4	1	4	2	
4	Area irrigated direct.....acres..	1,558,517	203		2,856	176	48,495	18,473	
5	Complete-system enterprises ¹.....enterprises..	1,158	2		7	4	5	2	6
6	Area irrigated direct.....acres..	1,630,178	1,859		40,448	1,512	6,359	22,022	5,649
Enterprises by origin of water supply:¹									
7	No water from other enterprises.....enterprises reporting..	1,321	4	2	8	5	7	3	6
8	acres irrigated.....	2,219,344	1,859		54,836	1,688	49,861	23,980	5,649
9	Part of water from other enterprises.....enterprises reporting..	83		1	2		2	1	
10	acres irrigated.....	286,251			1,567		4,064	53	
11	All water from other enterprises.....enterprises reporting..	102			3	1	1	2	
12	acres irrigated.....	629,686			2,723	316	2,611	113	
Enterprises by delivery of irrigation water:¹									
13	No water delivered.....enterprises reporting..	10							
14	Water delivered direct to farms only.....enterprises reporting..	1,181	2		5	4	5	3	4
15	acres irrigated.....	613,548	203		3,573	1,512	8,970	166	517
16	Water delivered to farms and to other enterprises.....enterprises reporting..	280	1	1	8	2	5	3	2
17	acres irrigated.....	2,521,733	1,656		55,553	492	47,566	23,980	5,132
18	Water delivered to other enterprises only.....enterprises reporting..	35	1	2					
Enterprises by primary and supplemental irrigation:²									
19	All primary.....enterprises reporting..	1,059	2		11	6	7	6	6
20	acres irrigated.....	1,702,779	1,859		57,127	2,004	52,284	24,146	5,649
21	Part primary, part supplemental.....enterprises reporting..	372			2		2		
22	Primary irrigation.....acres irrigated..	1,145,009			1,339		3,652		
23	Supplemental irrigation.....acres irrigated..	226,163			660		600		
24	All supplemental.....enterprises reporting..	27							
25	acres irrigated.....	61,330							
Enterprises by number of farms irrigated direct:¹									
26	None.....enterprises reporting..	45	1	2					
27	1-3.....enterprises reporting..	394		1	1	3		1	1
28	4-9.....enterprises reporting..	441			1	1	3	1	2
29	10-29.....enterprises reporting..	351	1		2	1	3	1	1
30	30-99.....enterprises reporting..	169			5		2		1
31	100-299.....enterprises reporting..	61	2		3		1	3	1
32	300-999.....enterprises reporting..	32			1			2	
33	1,000 or more.....enterprises reporting..	13							
Enterprises by acres irrigated direct:¹									
34	None.....enterprises reporting..	45	1	2					
35	1-99 acres.....enterprises reporting..	606		1		2	1	2	2
36	100-999 acres.....enterprises reporting..	594	1		6	2	2	1	2
37	1,000-2,999 acres.....enterprises reporting..	120	1		1	2	1	1	1
38	3,000-9,999 acres.....enterprises reporting..	87			2		3		1
39	10,000-29,999 acres.....enterprises reporting..	34	1		4		2	2	
40	30,000 acres or more.....enterprises reporting..	20					1		
Quantities of water reported, 1949:³									
41	Total obtained from all sources.....enterprises reporting..	1,301	3	3	8	6	9	5	3
42	percent of all enterprises reporting..	3	1	30	1	6	4	1	3
43	acre-feet.....	24,361,853	5,365,395	10,658	693,458	30,270	526,579	5,398,926	39,924
44	Surface sources.....enterprises reporting..	308	3	3	7	5	8	3	3
45	acre-feet.....	18,528,632	5,365,395	9,158	665,134	26,770	470,877	5,395,158	39,924
46	Pumped wells.....enterprises reporting..	974			1			2	
47	acre-feet.....	1,168,621			100			3,704	
48	Other enterprises.....enterprises reporting..	172		1	2			2	2
49	acre-feet.....	4,664,600		1,500	28,224	3,500	55,702	64	
50	Conveyance loss ³.....enterprises reporting..	431	2	1	8	6	8	3	3
51	acre-feet.....	4,889,211	549,249	1,740	149,539	3,755	128,107	552,089	15,330
Delivered:³									
52	Direct to farms.....enterprises reporting..	1,277	3	1	8	6	9	5	3
53	acre-feet.....	8,962,033	18,700	200	421,833	18,909	334,972	47,391	15,729
54	To other enterprises.....enterprises reporting..	246	1	3	5	2	4	2	2
55	acre-feet.....	5,663,456	418,067	8,718	78,534	5,606	60,000	420,067	400
56	For use other than irrigation.....enterprises reporting..	189	1		5	1	1	1	2
57	acre-feet.....	4,847,153	4,379,379		43,552	2,000	3,500	4,379,379	8,465
Delivered direct to farms for primary irrigation:²									
58	Enterprises reporting.....enterprises..	1,252	2		8	6	8	5	3
59	Quantity delivered.....acre-feet..	7,992,560	3,707		310,208	10,209	150,101	39,265	15,729
60	Area supplied primary irrigation.....acres..	2,720,156	1,859		52,717	2,004	22,730	24,041	5,135
61	Quantity supplied per acre.....acre-feet..	2.9	2.0		5.9	5.1	6.6	1.6	3.1
Delivered direct to farms for supplemental irrigation:²									
62	Enterprises reporting.....enterprises..	371			2		2		
63	Quantity delivered.....acre-feet..	428,412			3,068		6,860		
64	Area supplied supplemental irrigation.....acres..	281,321			660		600		
65	Quantity supplied per acre.....acre-feet..	1.5			4.6		11.4		
66	Total quantity per irrigated acre ⁵.....acre-feet..	3.1	2.0		5.9	5.1	6.8	1.6	3.1
Cost of water to farms for enterprises reporting quantity delivered, 1949:²									
67	Cost for primary irrigation.....dollars..	20,009,191	15,511		439,321	9,798	164,555	290,466	76,300
68	Average cost per acre-foot.....dollars..	2.50	4.18		1.42	0.96	1.10	7.40	4.85
69	Cost for supplemental irrigation.....dollars..	1,528,250			3,837		4,139		
70	Average cost per acre-foot.....dollars..	3.57			1.25		0.60		
Measurement of water to farms, 1949:²									
71	No water measured.....enterprises reporting..	825	2	3	5	4	7	2	3
72	acres irrigated.....	675,100	203		32,353	1,512	46,145	61	488
73	Part of water measured.....enterprises reporting..	40			3	1	1		
74	acres irrigated.....	601,538			20,078	316	10,296		
75	All water measured.....enterprises reporting..	558	2		5	1	2	4	3
76	acres irrigated.....	1,773,181	1,656		6,695	176	95	24,085	5,161

See footnotes at end of County Table 2, Part 4.

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Table with 14 columns for counties (Santa Barbara, Santa Clara, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Ventura, Yolo, Yuba) and 'All other counties'. Rows represent various agricultural and demographic characteristics across the years 1940 and 1950.

IRRIGATION OF AGRICULTURAL LANDS

County Table 3.—ACREAGE IRRIGATED, BY DRAINAGE BASIN ORIGIN OF WATER, AND BY COUNTIES.

[Symbols in parentheses refer to drainage basin symbols on map, "California: Location of Irrigated Land, 1949." Tributaries

Table with 11 columns: Item (For definitions and explanations, see text), The State, Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte. Rows include categories like Irrigated land, 1949; Area irrigated direct, by drainage basin origin of water, 1949; All basins; North Pacific Coast (I-A); South Pacific Coast, total; Klamath River (II-A); Central Valley, total; Sacramento-San Joaquin Delta area (II-C); San Joaquin River (II-E); Santa Maria River and basins south (II-G); Great Basin, total; Northwest Great Basin (III-A); South Central Great Basin (III-C); and Gulf of California: Colorado River below Lees Ferry, Arizona (IV-B).

See footnote at end of County Table 3.

IRRIGATION OF AGRICULTURAL LANDS

County Table 3.—ACREAGE IRRIGATED, BY DRAINAGE BASIN ORIGIN OF WATER, AND BY COUNTIES

[Symbols in parentheses refer to drainage basin symbols on map, "California: Location of Irrigated Land, 1949." Tributaries

Item (For definitions and explanations, see text)	Napa	Nevada	Orange	Placer	Plumas	River- side	Sacra- mento	San Benito	San Ber- nardino	San Diego
1 Irrigated land, 1949..... acres..	4,042	7,434	127,958	31,276	28,382	162,079	127,843	27,924	107,923	58,649
2 Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2 All basins..... acres..	4,042	7,492	137,477	32,186	28,859	175,872	130,869	28,149	119,746	61,937
3 North Pacific Coast (I-A): Pacific Coast direct (1)..... acres..										
4 South Pacific Coast, total..... acres..	4,042	7,492	137,477	32,186	28,859	88,859	130,869	28,149	105,609	58,815
5 Klamath River (II-A)..... acres..										
6 Klamath River direct (1)..... acres..										
7 Trinity River (2)..... acres..										
8 Scott River (3)..... acres..										
9 Shasta River (4)..... acres..										
10 Lower Klamath Lake (5)..... acres..										
11 Lost River (6)..... acres..										
12 Klamath River to Santa Maria River excluding Central Valley (II-B)..... acres..	2,735							27,703		
13 Pacific Coast direct (1)..... acres..										
14 Russian River (2)..... acres..										
15 San Francisco Bay..... acres..	2,735									
16 San Francisco Bay direct (3a)..... acres..	2,735									
17 Suisun Bay (3b)..... acres..										
18 Alameda Creek (3c)..... acres..										
19 Santa Clara Valley (3d)..... acres..										
20 Pajaro River (4)..... acres..								27,703		
21 Salinas River (5)..... acres..										
22 Central Valley, total..... acres..	1,307	7,492		32,186	28,859		130,869	446		
23 Sacramento-San Joaquin Delta area (II-C)..... acres..							90,516			
24 Delta and west side lands (1)..... acres..							45,373			
25 Morrison Creek area (2)..... acres..							18,417			
26 Consumnes River (3)..... acres..							21,882			
27 Mokelumne River area (4)..... acres..							4,844			
28 Calaveras River area (5)..... acres..										
29 Sacramento River (II-D)..... acres..	1,307	7,492		32,186	28,859		40,353			
30 Sacramento River direct (1a, b, and c)..... acres..				25,565			30,141			
31 American River (2)..... acres..				5,136			10,212			
32 Putah Creek (3)..... acres..	1,307									
33 Cache Creek (4)..... acres..										
34 Feather River..... acres..		7,492		1,485	28,859					
35 Feather River direct (5a)..... acres..					28,859					
36 Bear River (5b)..... acres..		4,530		1,485						
37 Yuba River (5c)..... acres..		2,962								
38 Butte Creek (6)..... acres..										
39 Stony Creek (7)..... acres..										
40 Cow Creek (8)..... acres..										
41 Pit River..... acres..										
42 Pit River direct (9a and b)..... acres..										
43 Goose Lake (9c)..... acres..										
44 San Joaquin River (II-E)..... acres..								446		
45 San Joaquin River direct (1a, b, and c)..... acres..								446		
46 Stanislaus River (2)..... acres..										
47 Tuolumne River (3)..... acres..										
48 Los Banos Creek (4)..... acres..										
49 Merced River (5)..... acres..										
50 Bear Creek (6)..... acres..										
51 Chowchilla and Fresno Rivers (7)..... acres..										
52 San Joaquin Valley above San Joaquin River (II-F)..... acres..										
53 Fresno Slough and Kings River (1 and 3)..... acres..										
54 West Side area (2)..... acres..										
55 Kaweah and Tule Rivers (4)..... acres..										
56 Deer Creek-White River area (5)..... acres..										
57 Kern River and Buena Vista Lake (6)..... acres..										
58 Santa Maria River and basins south (II-G)..... acres..			137,477			88,859			105,609	58,815
59 Pacific Coast direct (1)..... acres..			5,048			1,266				22,733
60 South Maria River (2)..... acres..										
61 Santa Ynez River (3)..... acres..										
62 Santa Clara River (4)..... acres..										
63 Colleguas Creek (5)..... acres..										
64 Los Angeles River (6)..... acres..										
65 San Gabriel River (7)..... acres..			37,184							
66 Santa Ana River (8)..... acres..			95,245			44,536			105,609	
67 San Jacinto Basin (9)..... acres..						43,057				
68 San Luis Rey River (10)..... acres..										14,879
69 San Dieguito River (11)..... acres..										11,050
70 San Diego River (12)..... acres..										6,986
71 Sweetwater River (13)..... acres..										3,167
72 Great Basin, total..... acres..									14,085	
73 Northwest Great Basin (III-A)..... acres..										
74 Cowhead and Warner Lakes area (3)..... acres..										
75 Surprise Valley and Madeline Plains (4)..... acres..										
76 South Central Great Basin (III-C)..... acres..									14,085	
77 Honey Lake (1)..... acres..										
78 Truckee River (2b)..... acres..										
79 Carson River (3b)..... acres..										
80 Walker River..... acres..										
81 West Walker River (4b)..... acres..										
82 East Walker River (4c)..... acres..										
83 Mono Lakes-Owens Valley area (5)..... acres..										
84 Southwest desert (8)..... acres..									3,365	
85 Antelope Valley (9)..... acres..										
86 Mojave River (10)..... acres..									10,720	
87 Gulf of California: Colorado River below Lees Ferry, Arizona (IV-B)..... acres..						87,013			52	3,122
88 Colorado River direct (1a and b)..... acres..						58,918			52	
89 Salton Sea area..... acres..						28,095				3,122
90 Imperial Valley (2a)..... acres..										3,122
91 Whitewater River (2b)..... acres..						28,095				

¹ Acreage irrigated direct by 2 or more irrigation enterprises is counted for each enterprise; acreage supplied a mixture of water from 2 or more basins by a given enterprise is counted for each basin; consequently, the sum of the acreages for a county or a drainage basin may exceed the acreage irrigated direct shown in County Table 2 or Drainage Basin Table 1.

IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950—Continued

not shown separately are included in the portion of the basin designated "direct"]

Table with 19 columns representing counties (San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo, Yuba) and a 20th column for row numbers (1-91). Each row contains acreage values for each county.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises,

Item (For definitions and explanations, see text)	The State	North Pacific Coast (I-A): Pacific Coast direct	South Pacific Coast, total	Klamath River (II-A)				
				Total	Klamath River direct	Trinity River	Scott River	Shasta River
		(1)	(II)		(1)	(2)	(3)	(4)
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	47,613	32	45,729	475	98	112	100	133
2	39,975	(*)	38,356	742	(*)	200	174	100
3 Interbasin.....enterprises 1950..	199		294	3	1			
4 Farms irrigated direct per enterprise ¹.....farms 1950..	2.4	1.0	2.4	2.5	1.5	1.1	1.5	2.2
5 Irrigated land ².....acres 1949..	6,598,839	1,906	5,855,060	144,873	14,474	3,859	14,947	44,337
6	5,069,568	11	4,418,045	108,172	10,085	5,842	20,785	33,631
7 Average per enterprise.....acres 1949..	139	60	128	305	148	34	149	333
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	155	60	145	308	150	34	151	340
Type of enterprise, 1950:								
9 Single-farm.....enterprises..	46,107	32	44,270	447	93	110	90	123
10	4,259,590	1,906	4,045,441	64,655	10,620	3,716	10,101	30,885
Mutual:								
11 Unincorporated.....enterprises..	709		698	18	3	1	9	5
12	126,605		122,711	4,181	537	(³)	2,310	1,242
13 Incorporated.....enterprises..	561		545	3	1			2
14	761,621		736,537	5,698	(³)			(³)
Commercial:								
15	80		78					
16	296,439		296,232					
17 District.....enterprises..	114		106	5	1		1	3
18	1,821,295		1,328,450	13,644	(³)		(³)	7,834
19 U. S. Bureau of Reclamation ⁴.....enterprises..	6		3	1				
20	86,637		77,949	58,078				
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..	14		8	1		1		
22	2,755		1,515	51		51		
State:								
23								
24 City.....enterprises..	22		21					
25	39,929		35,569					
26								
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
27 Gravity only.....enterprises reporting..	2,508		2,146	374	77	94	92	100
28	1,836,361		1,225,566	52,871	5,859	3,518	14,515	24,999
29 Pumped only.....enterprises reporting..	2,116	13	2,082	28	4	8	2	9
30	555,682	919	553,018	11,858	147	68	120	9,094
31 Gravity and pumped.....enterprises reporting..	222	1	216	21	1	6	1	10
32	275,076	69	268,377	65,153	2	152	30	5,897
Ground water only (pumped from wells):								
33	40,944	12	39,532	32	12	1	2	6
34	3,350,260	510	3,250,524	1,571	586	5	16	49
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	1,823	6	1,753	20	4	3	3	8
36	1,377,492	408	1,347,919	14,854	8,080	116	425	5,218
Stored water:								
37 None stored.....enterprises reporting..	46,277	31	44,468	420	93	102	88	108
38	5,664,676	1,806	5,450,980	73,568	14,468	3,463	12,647	35,757
39 Part stored.....enterprises reporting..	854	1	800	45	5	9	12	19
40	985,574	100	959,032	9,281	206	384	2,459	6,232
41 All stored.....enterprises reporting..	482		461	10		1		6
42	744,621		235,392	63,458		12		3,268
Sources of surface water, 1949:⁵								
43 Streams (and lakes).....enterprises reporting..	5,662	16	5,254	402	76	102	97	109
44	3,945,008	1,151	3,299,711	135,298	13,557	3,820	15,085	38,734
45 Springs.....enterprises reporting..	656	1	588	69	20	17	3	28
46	71,415	200	54,665	17,257	1,620	686	512	13,739
47 Flowing wells.....enterprises reporting..	247	1	214	6	1	1	1	3
48	35,069	100	30,461	5,323	4,850	1	205	267
49 Drainage water.....enterprises reporting..	496	4	481	16		1	4	6
50	405,899	245	402,674	62,220		4	566	378
51 Sewage.....enterprises reporting..	45		44					
52	8,951		8,846					
53 Other sources.....enterprises reporting..	3		3					
54	44		44					
Drainage of irrigated land:⁶								
Irrigated land drained:								
55 Enterprises reporting.....enterprises 1949..	1,884	1	1,869	27	4	2	4	10
56 Area supplied primary irrigation.....acres 1949..	1,873,883	135	1,357,090	78,259	8,355	400	3,172	4,816
57 Area artificially drained.....acres 1949..	1,101,039	135	994,557	66,685	4,962	55	398	515
58	1,224,772	(*)	1,015,504	33,289	(*)	9	31	1,300
Irrigated land in need of drainage:								
59 Enterprises reporting.....enterprises 1949..	975	3	937	57	10	7	13	19
60 Area supplied primary irrigation.....acres 1949..	1,230,221	140	702,767	74,947	1,590	370	4,652	7,989
61 Area in need of drainage.....acres 1949..	183,158	75	132,255	7,971	75	19	467	712
62	386,596	(*)	69,272	288	(*)	25	60	53

See footnotes at end of Drainage Basin Table 1, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises,

Item (For definitions and explanations, see text)	Sacramento-San Joaquin Delta areas (II-C)—Continued		Sacramento River (II-D)						
	Mokelumne River area (4)	Calaveras River area (5)	Total	Sacramento River direct			American River (2)	Putah Creek (3)	
				Total	Below Colusa (1a)	Colusa to Red Bluff (1b)			Above Red Bluff (1c)
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	1,390	1,278	6,418	2,826	1,538	1,142	149	304	392
2 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3 Interbasin.....enterprises 1950..	6	6	36	25	16	10	2	3	4
4 Farms irrigated direct per enterprise ¹.....farms 1950..	1.2	1.4	2.2	2.3	2.1	2.2	4.8	4.6	1.1
5 Irrigated land ².....acres 1949..	75,429	84,739	959,353	461,427	273,874	164,243	23,310	19,663	37,143
6 1939..	51,375	61,041	737,725	358,996	172,221	166,388	20,387	23,466	20,384
7 Average per enterprise.....acres 1949..	54	66	149	163	178	144	156	65	95
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	55	68	153	167	183	148	159	66	96
Type of enterprise, 1950:									
9 Single-farm.....enterprises..	1,388	1,272	6,319	2,783	1,520	1,123	141	292	390
10 acres irrigated..	64,684	66,622	552,715	20,159	139,615	72,704	7,840	6,024	35,018
Mutual:									
11 Unincorporated.....enterprises..	1	1	36	12	4	3	5	2	.....
12 acres irrigated..	(³)	(³)	27,970	15,665	13,924	432	1,309	(³)	.....
13 Incorporated.....enterprises..	.....	1	20	10	6	5	.....	1	.....
14 acres irrigated..	.....	(³)	90,898	69,269	55,915	13,354	.....	(³)	.....
15 Commercial.....enterprises..	.....	.....	13	6	3	2	1	5	1
16 acres irrigated..	.....	.....	82,888	28,061	24,513	(³)	(³)	5,579	(³)
17 District.....enterprises..	1	4	27	13	5	8	1	4	1
18 acres irrigated..	(³)	19,504	209,272	135,167	46,879	76,313	(³)	6,769	(³)
19 U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	2	2	.....	.....	1	.....	.....
20 acres irrigated..	.....	.....	17,913	4,978	.....	4,978	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	1	.....	.....	.....	.....	.....	.....
22 acres irrigated..	.....	.....	1,000	.....	.....	.....	.....	.....	.....
23 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
25 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
26 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
27 Gravity only.....enterprises reporting..	27	30	801	196	74	33	89	39	9
28 acres irrigated..	436	16,820	315,491	70,953	30,895	17,851	22,207	10,889	3,113
29 Pumped only.....enterprises reporting..	32	12	563	300	220	67	15	32	17
30 acres irrigated..	3,633	748	235,433	207,370	132,864	74,163	343	714	1,401
31 Gravity and pumped.....enterprises reporting..	3	4	76	45	33	9	3	9	2
32 acres irrigated..	11,255	827	66,625	34,914	17,264	17,478	172	307	705
33 Ground water only (pumped from wells).....enterprises reporting..	1,290	1,168	4,714	2,141	1,116	990	35	215	354
34 acres irrigated..	52,847	55,904	271,291	110,260	61,154	48,397	709	4,699	30,751
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	38	64	264	144	95	43	7	9	10
36 acres irrigated..	7,797	13,194	93,816	49,802	38,669	10,847	286	3,378	1,715
Stored water:									
37 None stored.....enterprises reporting..	1,377	1,252	6,188	2,749	1,485	1,130	137	272	388
38 acres irrigated..	75,678	64,775	773,020	424,733	241,753	162,023	20,957	14,629	37,019
39 Part stored.....enterprises reporting..	6	16	128	48	31	9	8	13	3
40 acres irrigated..	215	20,371	136,207	36,949	27,551	6,651	2,747	605	656
41 All stored.....enterprises reporting..	7	10	102	29	22	3	4	19	1
42 acres irrigated..	75	2,347	73,429	11,617	11,542	62	13	4,753	10
Sources of surface water, 1949:⁵									
43 Streams (and lakes).....enterprises reporting..	83	86	1,382	543	328	122	96	63	33
44 acres irrigated..	22,745	20,151	667,895	339,668	200,356	117,031	22,281	14,902	6,803
45 Springs.....enterprises reporting..	15	8	182	54	24	5	25	24	4
46 acres irrigated..	142	88	23,620	4,738	2,202	442	2,094	390	726
47 Flowing wells.....enterprises reporting..	3	5	33	12	6	4	2	.....	1
48 acres irrigated..	263	195	6,010	3,250	2,745	497	8	.....	15
49 Drainage water.....enterprises reporting..	4	18	231	136	102	30	4	16	1
50 acres irrigated..	57	21,397	90,281	59,887	35,131	24,645	111	189	.....
51 Sewage.....enterprises reporting..	1	.....	5	.....	.....	.....	.....	.....	2
52 acres irrigated..	3	.....	1,271	.....	.....	.....	.....	.....	100
53 Other sources.....enterprises reporting..	.....	.....	3	3	3	.....	.....	.....	.....
54 acres irrigated..	.....	.....	44	44	44	.....	.....	.....	.....
Drainage of irrigated land:⁶									
Irrigated land drained:									
55 Enterprises reporting.....enterprises 1949..	18	47	718	454	313	137	5	3	7
56 Area supplied primary irrigation.....acres 1949..	1,684	21,839	324,675	251,412	154,258	85,996	11,158	52	979
57 Area artificially drained.....acres 1949..	963	21,045	289,004	226,326	147,211	77,037	2,078	31	314
58 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:									
59 Enterprises reporting.....enterprises 1949..	24	27	234	111	71	24	16	2	7
60 Area supplied primary irrigation.....acres 1949..	1,688	2,887	75,172	35,251	17,708	4,894	12,649	33	516
61 Area in need of drainage.....acres 1949..	833	882	32,383	23,280	15,341	2,647	5,292	8	432
62 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

See footnotes at end of Drainage Basin Table 1, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises,

Item (For definitions and explanations, see text)	San Joaquin River (II-E)—Continued						San Joaquin Valley above San Joaquin River (II-F)		
	Stanislaus River	Tuolumne River	Los Banos Creek	Merced River	Bear Creek	Chow-chilla and Fresno Rivers	Total	Fresno Slough	West Side area
	(2)	(3)	(4)	(5)	(6)	(7)	(1)	(2)	
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	223	254	102	274	373	1,244	16,631	1,554	87
2 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3 Interbasin.....enterprises 1950..	7	7	2	2	5	11	74	19	10
4 Farms irrigated direct per enterprise ¹.....farms 1950..	10.3	17.4	6.0	6.1	4.3	1.1	1.7	1.9	1.0
5 Irrigated land ².....acres 1949..	91,675	189,216	54,179	84,010	107,964	137,384	1,963,744	250,930	212,136
6 1939..	90,290	169,650	41,610	94,851	61,089	76,634	1,335,137	258,162	30,926
7 Average per enterprise.....acres 1949..	411	745	531	307	289	110	118	161	2,438
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	462	789	374	316	314	137	150	243	2,532
Type of enterprise, 1950:									
9 Single-farm.....enterprises..	215	248	99	269	371	1,233	16,386	1,513	86
10 acres irrigated..	23,096	19,711	11,850	18,004	34,699	136,468	1,753,508	198,642	220,267
Mutual:									
11 Unincorporated.....enterprises..	3			2		4	117	10	
12 acres irrigated..	312			(3)		2,664	32,401	8,924	
13 Incorporated.....enterprises..	1		1			4	94	22	1
14 acres irrigated..	(3)		(3)			6,126	216,399	95,755	(3)
Commercial:									
15 District.....enterprises..	1	2	1	1		1	10		
16 acres irrigated..	(3)	(3)	(3)	(3)		(3)	44,288		
17 District.....enterprises..	3	4	1	2	2	2	20	8	
18 acres irrigated..	78,750	179,387	(3)	(3)	(3)	(3)	452,380	74,419	
19 U. S. Bureau of Reclamation ⁴.....enterprises..							1		
20 acres irrigated..									
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..							1		
22 acres irrigated..							47		
23 State.....enterprises..									
24 acres irrigated..									
25 City.....enterprises..							2	1	
26 acres irrigated..							(3)	(3)	
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
27 Gravity only.....enterprises reporting..	35	26	3	32	3	20	244	38	1
28 acres irrigated..	23,551	7,427	45,565	2,355	583	32,784	435,331	150,341	
29 Pumped only.....enterprises reporting..	34	30	2	58	22	11	63	7	
30 acres irrigated..	2,305	3,833	1,182	4,266	1,620	970	3,148	903	
31 Gravity and pumped.....enterprises reporting..	5	7		4		1	17		
32 acres irrigated..	96	531		6,091		600	87,020		
33 Ground water only (pumped from wells).....enterprises reporting..	121	137	90	170	330	1,138	15,884	1,452	80
34 acres irrigated..	13,531	9,744	10,071	10,375	27,936	120,125	1,548,565	167,695	193,656
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	28	54	7	10	18	74	423	57	6
36 acres irrigated..	63,500	178,852	1,724	63,453	86,953	15,927	425,387	59,226	26,611
Stored water:									
37 None stored.....enterprises reporting..	202	228	98	256	367	1,215	16,535	1,549	83
38 acres irrigated..	22,051	19,197	45,169	22,934	33,666	138,525	2,332,719	349,927	201,581
39 Part stored.....enterprises reporting..	11	11	4	5	5	17	78	5	3
40 acres irrigated..	80,320	180,002	13,373	63,082	83,422	23,331	165,708	28,238	18,571
41 All stored.....enterprises reporting..	10	15		13	1	12	18		1
42 acres irrigated..	612	1,188		524	4	8,550	1,024		115
Sources of surface water, 1949:⁵									
43 Streams (and lakes).....enterprises reporting..	74	97	10	90	34	101	694	96	6
44 acres irrigated..	86,737	188,101	47,951	74,822	88,400	49,931	943,855	208,748	26,291
45 Springs.....enterprises reporting..	17	6	1	6	1	4	20		
46 acres irrigated..	205	208	20	46	1	15	770		
47 Flowing wells.....enterprises reporting..	4	9		1	7	4	32	3	
48 acres irrigated..	294	1,068		75	734	199	2,744	1,076	
49 Drainage water.....enterprises reporting..	22	16	2	10	1	2	15	3	
50 acres irrigated..	51,786	26,621	13,000	1,338	21	643	8,665	6,630	
51 Sewage.....enterprises reporting..						1	6	2	1
52 acres irrigated..							1,877	540	320
53 Other sources.....enterprises reporting..									
54 acres irrigated..									
Drainage of irrigated land:⁶									
Irrigated land drained:									
55 Enterprises reporting.....enterprises 1949..	21	17	18	17	18	6	75	3	
56 Area supplied primary irrigation.....acres 1949..	81,002	180,597	1,648	63,710	80,918	2,242	68,723	5,034	
57 Area artificially drained.....acres 1949..	79,399	95,627	1,544	34,755	21,159	2,119	35,616	4,934	
58 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:									
59 Enterprises reporting.....enterprises 1949..	9		3	16	4	21	49	4	
60 Area supplied primary irrigation.....acres 1949..	536	121,771	250	68,478	81,315	2,566	58,028	229	
61 Area in need of drainage.....acres 1949..	243	2,577	49	5,592	960	913	13,908	32	
62 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

See footnotes at end of Drainage Basin Table 1, Part 1.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises,

Item (For definitions and explanations, see text)	Santa Maria River and basins south (II-G)—Continued			Great Basin, total III	Northwest Great Basin (III-A)			South Central Great Basin (III-C)	
	San Dieguito River (11)	San Diego River (12)	Sweet- water River (13)		Total (3)	Cowhead and Warner Lakes area (4)	Surprise Valley and Madeline Plains (5)	Total (6)	Honey Lake (7)
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	234	403	88	1,285	144	4	140	1,141	126
2 Single-farm.....acres irrigated..	(*)	(*)	60	1,138	(*)	(*)	172	(*)	165
3 Interbasin.....enterprises 1950..	1		1	11	1		1	10	1
4 Farms irrigated direct per enterprise ¹.....farms 1950..	2.7	2.6	2.5	1.4	1.1	1.0	1.1	1.5	1.4
5 Irrigated land ².....acres 1949..	9,430	6,867	2,782	210,500	38,124	819	37,305	172,376	34,213
6 .....acres 1939..	9,862	10,387	5,162	177,763	36,404	736	35,668	141,359	39,414
7 Average per enterprise.....acres 1949..	40	17	32	164	265	205	266	151	272
8 Average acreage irrigated direct per enterprise ³.....acres 1949..	41	17	32	166	265	205	267	153	275
Type of enterprise, 1950:									
9 Single-farm.....enterprises..	231	398	87	1,259	142	4	138	1,117	125
10 .....acres irrigated..	4,468	4,228	1,437	179,260	34,581	819	33,762	144,679	29,173
Mutual:									
11 Unincorporated.....enterprises..		1		5	1		1	4	
12 .....acres irrigated..		(3)		3,589	(3)		(3)	1,986	
13 Incorporated.....enterprises..		2		11	1		1	10	1
14 .....acres irrigated..	(3)	(3)		23,111	(3)		(3)	21,131	(3)
15 Commercial.....enterprises..			1						
16 .....acres irrigated..			(3)						
17 District.....enterprises..	1	1		5				5	
18 .....acres irrigated..	(3)	(3)		1,700				1,700	
19 U. S. Bureau of Reclamation ⁴.....enterprises..									
20 .....acres irrigated..									
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..				4				4	
22 .....acres irrigated..				964				964	
23 State.....enterprises..									
24 .....acres irrigated..									
25 City.....enterprises..		1		1				1	
26 .....acres irrigated..		(3)		(3)				(3)	
Use of surface, ground, pumped and stored water, 1949:									
27 Surface water:									
28 Gravity only.....enterprises reporting..	4	1	2	347	135	4	131	212	94
29 .....acres irrigated..	2,189	1	14	123,398	33,132	819	32,313	90,266	31,436
30 Pumped only.....enterprises reporting..	2	13	3	8				8	2
31 .....acres irrigated..	8	79	82	771				771	400
32 Gravity and pumped.....enterprises reporting..		2		4	1		1	3	1
.....acres irrigated..		365		2,448	1,980		1,980	468	100
33 Ground water only (pumped from wells).....enterprises reporting..	212	373	79	875	2		2	873	12
34 .....acres irrigated..	4,153	4,272	1,184	68,200	46		46	68,154	249
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	16	14	4	51	6		6	45	17
36 .....acres irrigated..	3,164	2,269	1,527	18,167	3,006		3,006	15,161	2,481
37 Stored water:									
38 None stored.....enterprises reporting..	222	381	84	1,226	134	3	131	1,092	108
39 .....acres irrigated..	4,467	6,647	986	180,146	33,904	699	33,205	146,242	21,571
40 Part stored.....enterprises reporting..	8	16	2	47	9		9	38	13
41 .....acres irrigated..	3,032	270	1,806	25,724	4,140		4,140	21,584	6,652
42 All stored.....enterprises reporting..	4	6	2	12	1	1	1	11	5
.....acres irrigated..	2,015	69	15	7,114	120	120		6,994	6,443
43 Sources of surface water, 1949: ⁵									
44 Streams (and lakes).....enterprises reporting..	20	19	8	360	133	3	130	227	110
45 .....acres irrigated..	5,335	2,532	1,618	140,897	37,113	719	36,394	103,784	33,977
46 Springs.....enterprises reporting..	5	10		63	10	1	9	53	10
.....acres irrigated..	105	181		16,401	6,409	100	6,309	9,992	4,960
47 Flowing wells.....enterprises reporting..		3	1	25	9		9	16	2
48 .....acres irrigated..		20	5	4,321	1,960		1,960	2,361	730
49 Drainage water.....enterprises reporting..		1		10	8		8	2	1
50 .....acres irrigated..		2		2,980	2,310		2,310	670	70
51 Sewage.....enterprises reporting..				1				1	1
52 .....acres irrigated..				105				105	105
53 Other sources.....enterprises reporting..									
54 .....acres irrigated..									
55 Drainage of irrigated land: ⁶									
56 Irrigated land drained:									
57 Enterprises reporting.....enterprises 1949..		1		11	3		3	8	1
58 Area supplied primary irrigation.....acres 1949..		11		21,967	2,850		2,850	19,117	70
59 Area artificially drained.....acres 1949..		2		6,919	720		720	6,199	10
.....acres 1939..	(*)	(*)		918	(*)	(*)		(*)	465
60 Irrigated land in need of drainage:									
61 Enterprises reporting.....enterprises 1949..		1		20	6		6	14	4
62 Area supplied primary irrigation.....acres 1949..		1		28,552	1,904		1,904	26,648	8,160
.....acres 1949..		1		5,584	468		468	5,116	3,093
.....acres 1939..	(*)	(*)		(*)	(*)	(*)		(*)	

*Not available.

¹Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise.²Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries.³Data for less than 3 enterprises not shown separately.⁴Data for less than 3 enterprises shown with permission of the enterprise.⁵Enterprises reporting water from more than 1 source are counted for each.⁶For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises,

Item (For definitions and explanations, see text)	The State	North Pacific Coast (I-A): Pacific Coast direct	South Pacific Coast, total	Klamath River (II-A)				
				Total	Klamath River direct	Trinity River	Scott River	Shasta River
		(I)	(II)		(1)	(2)	(3)	(4)
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	2,947	.....	2,592	371	65	97	91	109
2 .....dams 1950..	4,708	.....	4,090	618	104	133	151	221
3 .....dams 1940..	2,714	(*)	2,288	570	(*)	155	186	89
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	938	.....	803	46	7	11	5	23
5 Timber.....dams 1950..	684	.....	617	56	13	9	16	16
6 Earth and rock.....dams 1950..	2,535	.....	2,139	461	72	113	112	157
7 Other, mixed, and not reported.....dams 1950..	551	.....	531	55	12	.....	18	25
8 Reservoirs.....enterprises reporting 1950..	1,233	2	1,136	50	5	10	12	20
9 .....reservoirs 1950..	1,684	2	1,541	68	6	13	20	26
10 .....reservoirs 1940..	2,652	(*)	2,419	29	(*)	6	7	9
11 Reservoirs for which capacity was reported.....reservoirs 1950..	1,502	2	1,380	59	2	11	19	24
12 .....total capacity, acre-feet 1950..	8,711,667	2	7,860,850	534,007	3	34	619	2,351
13 .....total capacity, acre-feet 1940..	3,581,621	(*)	3,501,442	510,189	(*)	5	79	70,085
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	1,300	2	1,213	49	2	11	17	19
15 1-999 acre-feet.....reservoirs 1950..	107	.....	84	6	.....	.....	2	4
16 1,000 acre-feet and over.....reservoirs 1950..	95	.....	83	4	.....	.....	.....	1
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..	347	.....	324	1	.....	.....	.....	.....
18 Earth and rock.....dams 1950..	1,159	2	1,056	58	4	12	15	25
19 Other, mixed, and not reported.....dams 1950..	178	.....	161	9	2	1	5	1
20 Canals and ditches.....enterprises reporting 1950..	2,709	.....	2,492	285	54	72	76	77
21 .....total length, miles 1950..	21,183	.....	18,327	941	111	100	215	284
22 .....total length, miles 1940..	19,799	(*)	16,928	1,082	(*)	223	263	200
23 Pipelines and siphons ¹.....enterprises reporting 1950..	3,216	6	3,059	46	9	21	7	8
24 .....total length, miles 1950..	10,088	3	9,497	32	5	16	3	7
25 .....total length, miles 1940..	22,690	(*)	21,405	42	(*)	10	15	5
26 Tunnels.....enterprises reporting 1950..	63	.....	59	2	.....	.....	1	.....
27 .....total length, feet 1950..	166,901	.....	161,801	7,600	.....	.....	1,000	.....
28 Flowing wells.....enterprises reporting 1950..	243	1	211	6	1	1	1	3
29 .....wells 1950..	572	1	491	18	3	3	1	11
30 .....wells 1940..	436	(*)	319	3	(*)	.....	.....	.....
31 Pumped wells.....enterprises reporting 1950..	42,637	20	41,159	52	15	4	5	15
32 .....wells 1950..	72,147	24	69,766	81	37	5	5	18
33 .....wells 1940..	48,568	(*)	47,116	48	(*)	4	14	9
34 Wells for which pumping lift was reported.....wells 1949..	67,899	24	65,713	75	36	3	4	16
35 Average pumping lift.....feet 1949..	88	.....	87	45	43	8	34	45
36 .....feet 1939..	57	(*)	(*)	37	(*)	24	19	27
37 Irrigation pumps.....enterprises reporting 1950..	44,958	32	43,444	102	21	18	11	32
38 .....pumps 1950..	80,387	35	77,858	179	49	20	11	47
39 .....pumps 1940..	52,016	(*)	50,538	94	(*)	9	17	25
40 Electric motors used for pumping.....enterprises reporting 1950..	42,296	25	40,904	61	14	5	5	22
41 .....electric motors 1950..	73,682	28	71,440	121	38	6	5	32
42 .....electric motors 1940..	43,952	(*)	42,802	47	(*)	1	3	18
43 Other motors and engines used for pumping.....enterprises reporting 1950..	4,601	8	4,453	46	10	14	5	8
44 .....other motors and engines 1950..	6,254	9	6,058	54	10	16	5	11
45 .....other motors and engines 1940..	8,265	(*)	7,872	45	(*)	8	14	7
Season of irrigation, 1949:								
46 Water delivered only before July 1.....enterprises reporting..	1,319	.....	1,240	21	1	1	5	10
47 .....acres irrigated..	340,878	.....	329,686	3,471	15	10	418	1,428
48 Water delivered before and after July 1.....enterprises reporting..	43,147	28	41,518	404	84	109	75	110
49 .....acres irrigated..	6,813,604	1,822	6,097,243	139,253	14,041	3,757	13,474	42,230
50 Water delivered only after July 1.....enterprises reporting..	1,129	3	1,101	7	2	.....	3	1
51 .....acres irrigated..	82,254	60	80,978	171	27	.....	69	15
Capital investment:								
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	318,889,218	(*)	288,736,171	5,294,938	(*)	202,176	276,517	1,902,008
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53 Enterprises reporting.....enterprises 1950..	24,694	29	23,761	123	26	22	26	35
54 Amount.....dollars 1950..	321,584,967	110,059	283,484,141	5,913,185	219,576	49,526	18,123	101,391
55 Area irrigated direct.....acres 1949..	4,980,823	1,812	4,363,531	97,030	9,987	584	3,455	19,859
56 Total capital investment Jan. 1, 1950.....dollars 1950..	640,474,185	(*)	572,220,312	11,208,123	(*)	251,702	294,640	2,003,399
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57 Enterprises reporting.....enterprises 1950..	254	.....	246	4	.....	.....	1	2
58 Amount.....dollars 1950..	251,310,797	.....	183,878,803	5,255,212	.....	.....	41,000	13,000
59 .....dollars 1940..	95,694,893	(*)	78,862,364	5,548,178	(*)	.....	71,657	2,365,807
60 Area irrigated direct.....acres 1949..	1,713,814	.....	1,204,984	67,233	.....	.....	2,695	6,460
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
61 Enterprises reporting.....enterprises 1950..	17	.....	16	.....	.....	.....	.....	.....
62 Amount.....dollars 1950..	975,285	.....	973,894	.....	.....	.....	.....	.....
63 Area irrigated direct.....acres 1949..	76,536	.....	67,848	.....	.....	.....	.....	.....

See footnotes at end of Drainage Basin Table 1, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises,

Item (For definitions and explanations, see text)	Sacramento - San Joaquin Delta area (II-C)—Con.		Sacramento River (II-D)					
	Moke- lunne River area	Calaveras River area	Total	Sacramento River direct			American River	Putah Creek
				Total	Below Colusa	Colusa to Red Bluff			Above Red Bluff
	(4)	(5)		(1a)	(1b)	(1c)	(2)	(3)
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	28	37	808	211	67	72	34	10
2 Diversion dams.....dams 1950..	32	46	1,483	259	84	85	47	12
3 Diversion dams.....dams 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	2	16	317	92	21	42	13	3
5 Timber.....dams 1950..	2	5	369	18	10	5	.....	1
6 Earth and rock.....dams 1950..	24	25	702	138	50	37	30	8
7 Other, mixed, and not reported.....dams 1950..	4	.....	95	11	3	1	7	4
8 Reservoirs.....enterprises reporting 1950..	13	25	181	48	25	12	11	29
9 Reservoirs.....reservoirs 1950..	16	33	274	59	31	15	13	43
10 Reservoirs.....reservoirs 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	16	33	226	49	28	9	12	38
12 Reservoirs.....total capacity, acre-feet 1950..	901	89,087	5,280,412	4,529,380	126	40	4,529,214	11,729
13 Reservoirs.....reservoirs 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	14	27	165	46	28	9	9	35
15 100-999 acre-feet.....reservoirs 1950..	2	2	24	.....	.....	.....	.....	1
16 1,000 acre-feet and over.....reservoirs 1950..	.....	4	37	3	.....	.....	3	2
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..	1	6	29	10	5	2	3	4
18 Earth and rock.....dams 1950..	15	27	223	39	21	10	8	34
19 Other, mixed, and not reported.....dams 1950..	.....	.....	22	10	5	3	2	5
20 Canals and ditches.....enterprises reporting 1950..	33	44	668	242	105	75	64	23
21 Canals and ditches.....total length, miles 1950..	166	166	4,907	2,648	1,115	1,139	394	247
22 Canals and ditches.....total length, miles 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
23 Pipelines and siphons ¹.....enterprises reporting 1950..	72	40	262	159	85	36	38	19
24 Pipelines and siphons ¹.....total length, miles 1950..	123	25	541	196	79	99	18	108
25 Pipelines and siphons ¹.....total length, miles 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	.....	.....	9	2	1	.....	1	3
27 Tunnels.....total length, feet 1950..	.....	.....	35,200	2,650	400	.....	2,250	2,800
28 Flowing wells.....enterprises reporting 1950..	3	5	33	12	6	4	2	.....
29 Flowing wells.....wells 1950..	5	6	76	34	13	17	4	.....
30 Flowing wells.....wells 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	1,328	1,230	4,978	2,285	1,206	1,038	42	224
32 Pumped wells.....wells 1950..	2,169	1,890	7,899	3,342	1,820	1,470	52	312
33 Pumped wells.....wells 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	1,940	1,833	7,331	3,066	1,672	1,346	48	297
35 Wells.....average pumping lift.....feet 1949..	50	59	49	49	50	48	48	64
36 Wells.....average pumping lift.....feet 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	1,360	1,246	5,604	2,628	1,459	1,111	60	266
38 Irrigation pumps.....pumps 1950..	2,358	1,967	9,431	4,130	2,390	1,656	84	373
39 Irrigation pumps.....pumps 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	1,331	1,202	5,268	2,454	1,344	1,066	45	257
41 Electric motors used for pumping.....electric motors 1950..	2,250	1,892	8,659	3,775	2,179	1,530	66	358
42 Electric motors used for pumping.....electric motors 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
43 Other motors and engines used for pumping.....enterprises reporting 1950..	57	79	523	261	169	78	15	14
44 Other motors and engines used for pumping.....other motors and engines 1950..	72	92	660	318	187	113	18	15
45 Other motors and engines used for pumping.....other motors and engines 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Season of irrigation, 1949:								
46 Water delivered only before July 1.....enterprises reporting..	78	7	115	38	13	23	2	4
47 Water delivered only before July 1.....acres irrigated..	2,702	48	26,903	1,599	848	740	11	2
48 Water delivered before and after July 1.....enterprises reporting..	1,237	1,216	5,870	2,613	1,421	1,059	136	281
49 Water delivered before and after July 1.....acres irrigated..	70,461	85,863	915,042	460,356	272,120	165,022	23,214	18,024
50 Water delivered only after July 1.....enterprises reporting..	17	27	161	33	33	23	3	5
51 Water delivered only after July 1.....acres irrigated..	372	610	4,918	2,077	1,427	635	15	24
Capital investment:								
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
53 New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
54 Enterprises reporting.....enterprises 1950..	773	780	3,212	1,465	819	594	53	152
55 Amount.....dollars 1950..	1,977,607	3,636,545	71,061,680	61,966,805	5,031,668	2,303,049	54,631,888	936,944
56 Area irrigated direct.....acres 1949..	51,707	64,160	639,230	326,060	190,269	118,600	17,191	15,046
56 Total capital investment Jan. 1, 1950.....dollars 1950..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Indebtedness:¹								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57 Enterprises reporting.....enterprises 1950..	1	4	33	14	4	8	2	7
58 Amount.....dollars 1950..	60,000	1,135,770	68,252,428	61,802,337	5,400,264	1,928,573	54,473,500	604,246
59 Area irrigated direct.....acres 1949..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
60 Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:	11,249	18,971	225,169	115,971	26,068	77,928	11,975	9,750
61 Enterprises reporting.....enterprises 1950..	.....	.....	5	3	1	2	.....	2
62 Amount.....dollars 1950..	.....	.....	960,780	927,457	6,354	921,103	.....	10,001
63 Area irrigated direct.....acres 1949..	.....	.....	35,248	20,174	11,140	9,034	.....	2,139

See footnotes at end of Drainage Basin Table 1, Part 2.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises,

Item (For definitions and explanations, see text)	San Joaquin River (II-E)—Continued						San Joaquin Valley above San Joaquin River (II-F)			
	Stanislaus River	Tuolumne River	Los Banos Creek	Merced River	Bear Creek	Chew- chilla and Fresno Rivers	Total	Fresno Slough	West Side area	
	(2)	(3)	(4)	(5)	(6)	(7)	(1)	(2)		
ALL ENTERPRISES										
1	Irrigation works:									
2	Diversion dams.....enterprises reporting 1950..	33	36	1	36	5	40	321	21	.....
3	.....dams 1950..	38	47	1	48	11	50	443	29	.....
4	.....dams 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
5	Diversion dams by material:									
6	Concrete or masonry.....dams 1950..	10	8	.....	7	2	12	161	21	.....
7	.....dams 1950..	4	.....	.....	1	6	1	105	5	.....
8	.....dams 1950..	18	35	1	40	3	35	160	3	.....
9	.....dams 1950..	6	4	.....	.....	.....	2	17	.....	.....
10	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
11	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
17	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
19	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
21	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
22	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
23	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
26	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
32	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
33	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
34	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
35	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
36	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
37	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
38	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
39	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
43	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
44	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
46	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
47	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
48	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
51	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
52	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
53	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
54	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
56	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
57	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
58	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
59	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
61	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
62	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
63	.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....

See footnotes at end of Drainage Basin Table 1, Part 2.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

San Joaquin Valley above San Joaquin River (II-F)—Continued				Santa Maria River and basins south (II-G)											
Kings River	Kaweah and Tule Rivers	Deer Creek White River area	Kern River and Buena Vista Lake	Total	Pacific Coast direct	Santa Maria River	Santa Ynez River	Santa Clara River	Colle- guas Creek	Los Angeles River	San Gabriel River	Santa Ana River	San Jacinto Basin	San Luis Rey River	
(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
51 77 (*)	163 213 (*)	8 8 (*)	80 116 (*)	285 375 (*)	88 102 (*)	3 3 (*)	7 7 (*)	29 41 (*)	11 14 (*)	9 12 (*)	18 24 (*)	41 55 (*)	16 24 6 (*)	42 58 (*)	1 2 3
38 2 36 1 7 7 (*)	93 63 53 4 17 29 (*)	1 2 5 4 (*)	8 33 63 12 58 102 (*)	100 7 229 39 416 541 (*)	16 3 69 14 130 161 (*)	..... ..... 3 17 23 (*)	4 2 1 9 9 (*)	11 3 26 1 17 18 (*)	3 11 12 19 (*)	3 9 13 23 (*)	12 1 11 51 63 (*)	17 23 15 63 89 (*)	9 12 3 34 44 (*)	16 40 2 43 48 (*)	4 5 6 7 8 9 10 11 12 13
6 6 1 118 1,625 (*)	13 6 7 205 1,444 (*)	4 7 104 (*)	93 4 1 177 715 (*)	467 21 10 300 545 (*)	142 8 43 35 (*)	20 2 8 (*)	7 2 4 (*)	18 18 18 (*)	13 9 12 (*)	22 25 26 (*)	97 3 80 96 (*)	70 8 95 257 (*)	41 12 55 68 (*)	39 2 12 24 22 (*)	14 15 16 17 18 19 20 21 22
107 121 (*)	117 259 (*)	14 138 (*)	129 175 (*)	1,508 6,553 (*)	231 819 (*)	2 11 (*)	5 12 (*)	116 302 (*)	68 313 (*)	43 726 (*)	386 1,188 (*)	521 2,534 (*)	55 232 533 (*)	33 135 (*)	23 24 25 26 27 28 29 30
..... 14 34 (*)	..... 924 7 13 (*)	..... ..... 2 5 (*)	..... 6 9 (*)	33 69,143 64 152 (*)	5 10,840 19 31 (*)	..... ..... ..... ..... 2 8 (*)	..... ..... ..... ..... 5 13 (*)	..... ..... ..... ..... 116 105 (*)	..... ..... ..... ..... 280 562 (*)	..... ..... 1,100 148 197 (*)	..... ..... 3 1,259 1,745 (*)	..... ..... 21 47,212 24 51 (*)	..... ..... ..... ..... 370 609 (*)	..... ..... ..... ..... 352 607 (*)	31 32 33 34 35 36
8,065 12,153 (*)	4,357 8,595 (*)	660 1,539 (*)	1,663 3,657 (*)	6,813 10,719 (*)	1,225 1,864 (*)	157 379 (*)	176 353 (*)	459 743 (*)	280 562 (*)	148 197 (*)	1,259 1,745 (*)	1,719 2,564 (*)	370 609 (*)	352 607 (*)	37 38 39 40 41 42
..... 7,881 12,072 (*)	..... 4,263 8,453 (*)	..... 645 1,555 (*)	..... 1,497 3,360 (*)	..... 9,850 10,484 (*)	..... 1,753 1,943 (*)	..... 366 382 (*)	..... 321 337 (*)	..... 653 836 (*)	..... 524 586 (*)	..... 177 201 (*)	..... 1,593 1,584 (*)	..... 2,291 2,429 (*)	..... 574 548 (*)	..... 575 609 (*)	43 44 45
395 469 (*)	252 395 (*)	85 121 (*)	404 627 (*)	1,082 1,525 (*)	154 187 (*)	24 29 (*)	23 29 (*)	55 82 (*)	19 31 (*)	23 29 (*)	267 409 (*)	335 445 (*)	98 163 146 (*)	32 44 (*)	43 44 45
80,303 7,337 555,487 282 10,973 (*)	66 72,260 4,301 557,343 57 15,441 (*)	10 1,883 645 120,739 6 1,301 (*)	22 9,814 1,625 443,303 10 828 (*)	143 14,691 6,494 662,394 84 2,405 (*)	20 391 1,220 55,208 24 408 (*)	1 60 150 29,255 2 208 (*)	7 236 170 15,893 1 65 (*)	9 831 457 63,738 2 366 (*)	3 440 269 49,651 1 18 (*)	4 400 162 45,366 (*)	23 2,663 1,192 106,797 19 197 (*)	62 9,167 1,596 222,913 13 490 (*)	5 325 358 43,148 2 510 (*)	1 61 285 11,485 6 62 (*)	46 47 48 49 50 51
3,390 29,362,909 392,033 (*)	2,692 39,716,083 423,989 (*)	472 7,680,422 95,215 (*)	1,103 18,617,211 331,893 (*)	3,767 32,655,871 406,119 (*)	898 6,877,129 38,075 (*)	76 858,075 16,721 (*)	125 699,344 10,490 (*)	235 1,910,527 42,156 (*)	192 3,125,857 40,047 (*)	65 348,078 5,759 (*)	489 2,324,047 46,716 (*)	799 5,780,616 151,353 (*)	229 2,152,051 31,325 5,595,223 (*)	209 6,828,707 8,624 (*)	53 54 55 56
..... 22,279,000 (*)	..... 26,842,145 (*)	..... 113,907 (*)	..... 2,393,889 (*)	..... 12,210,597 (*)	..... 7,599,807 (*)	..... ..... (*)	..... ..... (*)	..... ..... (*)	..... 57,983 (*)	..... 22,347 (*)	..... 405,229 (*)	..... 2,503,627 (*)	..... 328,590 661,049 (*)	..... 372,714 (*)	57 58 59 60
..... ..... ..... .....	..... ..... 46,433 ..... .....	..... ..... 10,250 ..... .....	..... ..... 79,529 ..... .....	..... ..... 125,712 ..... .....	..... ..... 15,675 ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... 6,697 .....	..... ..... ..... ..... ..... 154 .....	..... ..... ..... ..... ..... ..... 20,801 .....	..... ..... ..... ..... ..... ..... 65,727 .....	..... ..... ..... ..... ..... ..... 6,911 .....	..... ..... ..... ..... ..... ..... ..... .....	61 62 63

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 2 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only once in State total. For interbasin enterprises,

Item (For definitions and explanations, see text)	Santa Maria River and basins south (II-G)—Continued			Great Basin, total	Northwest Great Basin (III-A)			South Central Great Basin (III-C)	
	San Dieguito River	San Diego River	Sweet- water River		Total	Cowhead and Werner Lakes area	Surprise Valley and Madeline Plains	Total	Honey Lake
	(11)	(12)	(13)	III	(3)	(4)	(1)	(1)	
ALL ENTERPRISES									
Irrigation works:									
1 Diversion dams.....enterprises reporting 1950..	11	9	3	341	129			212	98
2 ..dams 1950..	14	18	3	594	189	2		405	149
3 ..dams 1940..	(*)	(*)	2	407	(*)	(*)		(*)	179
Diversion dams by material:									
4 Concrete or masonry.....dams 1950..	2	4	3	121	20		20	101	26
5 Timber.....dams 1950..				67	31		31	36	26
6 Earth and rock.....dams 1950..	12	11		386	134	7	127	252	93
7 Other, mixed, and not reported.....dams 1950..		3		20	4		4	16	4
8 Reservoirs.....enterprises reporting 1950..	11		4	88	10	1	9	78	16
9 ..reservoirs 1950..	15	23	6	132	12	2	10	120	21
10 ..reservoirs 1940..	(*)	(*)	10	219	(*)	(*)	11	(*)	25
11 Reservoirs for which capacity was reported.....reservoirs 1950..	11	22	6	111	6	2	4	105	20
12 total capacity, acre-feet 1950..	7,372	202	31	850,738	4,264	46	4,218	846,474	22,267
13 ..total capacity, acre-feet 1940..	(*)	(*)	50	80,100	(*)	(*)	15,038	(*)	46,559
Reservoirs by capacity:									
14 1-99 acre-feet.....reservoirs 1950..	10	22	6	76	2	2		74	9
15 100-999 acre-feet.....reservoirs 1950..				23	1		1	22	8
16 1,000 acre-feet and over.....reservoirs 1950..	1			12	3		3	9	3
Reservoir dams by material:									
17 Concrete or masonry.....dams 1950..	4	11	1	22				22	2
18 Earth and rock.....dams 1950..	11	9	5	93	10	2	8	83	18
19 Other, mixed, and not reported.....dams 1950..		3		17	2		2	15	1
20 Canals and ditches.....enterprises reporting 1950..	2	5	4	198	71	4	67	127	38
21 total length, miles 1950..	1	1	8	600	201		157	399	95
22 ..total length, miles 1940..	(*)	(*)	1	635	(*)	(*)	72	(*)	198
23 Pipelines and siphons ¹.....enterprises reporting 1950..	29	26	10	104				104	2
24 total length, miles 1950..	148	65	68	278				278	1
25 ..total length, miles 1940..	(*)	(*)	135	717	(*)	(*)		(*)	2
26 Tunnels.....enterprises reporting 1950..	1	1		3				3	
27 total length, feet 1950..	2,500	800		5,100				5,100	
28 Flowing wells.....enterprises reporting 1950..	3	1	1	24	9		9	15	2
29 wells 1950..		23	1	70	29		29	41	3
30 wells 1940..	(*)	(*)		117	(*)	(*)	112	(*)	1
31 Pumped wells.....enterprises reporting 1950..	226	387	83	923	9		9	914	29
32 wells 1950..	382	594	120	1,474	12		12	1,462	36
33 wells 1940..	(*)	(*)	82	876	(*)	(*)	1	(*)	20
34 Wells for which pumping lift was reported.....wells 1949..	339	569	115	1,379	12		12	1,367	21
35 Average pumping lift.....feet 1949..	211	85	92	128	35		35	129	61
36 ..average pumping lift 1939..	(*)	(*)	67	(*)	(*)	(*)	(*)	(*)	30
37 Irrigation pumps.....enterprises reporting 1950..	228	402	86	933	9		9	924	32
38 pumps 1950..	368	596	120	1,581	11		11	1,570	51
39 pumps 1940..	(*)	(*)	82	890	(*)	(*)	2	(*)	25
40 Electric motors used for pumping.....enterprises reporting 1950..	217	387	80	829				829	16
41 electric motors 1950..	347	570	112	1,327				1,327	21
42 electric motors 1940..	(*)	(*)	55	622	(*)	(*)	1	(*)	12
43 Other motors and engines used for pumping.....enterprises reporting 1950..	21	28	8	122	8		8	114	11
44 other motors and engines 1950..	30	39	8	161	9		9	152	15
45 other motors and engines 1940..	(*)	(*)	29	284	(*)	(*)	1	(*)	14
Season of Irrigation, 1949:									
46 Water delivered only before July 1.....enterprises reporting..	6	2	1	76	43	2	41	33	18
47 ..acres irrigated.....	89	18	10	10,973	8,222	220	8,002	2,751	1,855
48 Water delivered before and after July 1.....enterprises reporting..	215	377	78	1,081	72	2	70	1,009	65
49 ..acres irrigated.....	9,351	6,776	2,813	183,713	25,339	599	24,740	158,374	24,076
50 Water delivered only after July 1.....enterprises reporting..	5	4	5	15				15	1
51 ..acres irrigated.....	18	22	41	950				950	3
Capital Investment:									
52 Capital investment in irrigation works and water									
Rights to Jan. 1, 1940.....dollars 1940..	(*)	(*)	7,639,011	6,017,348	(*)	(*)	173,127	(*)	292,400
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53 Enterprises reporting.....enterprises 1950..	171	243	63	595	29	1	28	566	28
54 Amount.....dollars 1950..	731,404	859,765	160,271	5,392,239	37,955	175	37,780	5,354,284	130,511
55 Area irrigated direct.....acres 1949..	8,350	5,301	1,202	103,968	12,326	120	12,206	91,642	14,009
56 Total capital investment Jan. 1, 1950.....dollars 1950..	(*)	(*)	7,799,282	11,409,587	(*)	(*)	210,907	(*)	422,911
Indebtedness: ²									
Outstanding bonds, construction cost, and other									
funded obligations, Jan. 1, 1950:									
57 Enterprises reporting.....enterprises 1950..	2	3		4				4	1
58 Amount.....dollars 1950..	751,000	159,300		1,150,660				1,150,660	48,000
59 Amount.....dollars 1940..	(*)	(*)	5,460,500	384,628	(*)	(*)		(*)	47,000
60 Area irrigated direct.....acres 1949..	4,805	2,519		7,193				7,193	5,493
Arrearage in payment of principal or interest on									
bonds, construction cost, and other funded									
obligations, Jan. 1, 1950:									
61 Enterprises reporting.....enterprises 1950..									
62 Amount.....dollars 1950..									
63 Area irrigated direct.....acres 1949..									

*Not available.
¹Pipelines in farm-distribution systems were included in 1940, not included in 1950.
²Less than 0.5.
³Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

data represent characteristics within the drainage basin or State. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

South Central Great Basin (III-C)—Continued										Gulf of California: Colorado River below Lees Ferry, Arizona (IV-E)						
Truckee River	Carson River	Walker River				Mono Lake-Owens Valley area	Southwest desert	Antelope Valley	Mojave River	Total	Colorado River direct			Salton Sea area		
		Total	West Walker River	East Walker River	Total						Below Imperial Dam	Above Imperial Dam	Total	Imperial Valley	White-water River	
(2b)	(3b)	(4b)	(4c)	(5)	(8)	(9)	(10)	(1a)	(1b)	(2a)	(2b)					
6	5	15	6	9	64	3	9	12	14	6	5	1	8	3	5	1
15	10	54	30	24	144	4	13	16	24	6	5	1	18	4	14	2
14	38	45	28	17	(*)	.....	2	14	19	.....	(*)	(*)	19	5	14	3
7	5	9	6	3	47	.....	4	3	14	1	1	.....	13	3	10	4
5	1	1	1	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
2	4	42	23	19	88	4	9	11	10	5	4	1	5	1	4	6
2	.....	2	.....	2	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
2	4	3	2	1	10	17	5	21	8	.....	.....	.....	8	4	4	8
3	13	9	8	1	12	24	8	30	9	.....	.....	.....	9	5	4	9
.....	10	3	.....	3	(*)	2	111	51	14	.....	(*)	(*)	14	7	7	10
3	13	3	.....	1	8	20	8	30	9	.....	.....	.....	9	5	4	11
769,000	7,788	42,615	160	42,455	626	40	3,607	531	77	.....	.....	.....	77	48	29	12
.....	4,000	1,000	.....	1,000	(*)	(*)	11,293	101	79	.....	(*)	(*)	79	57	22	13
.....	1	1	1	.....	7	20	7	29	9	.....	.....	.....	9	5	4	14
.....	11	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
3	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
2	3	.....	.....	.....	.....	4	1	10	1	.....	.....	.....	1	.....	1	17
1	5	9	8	1	9	17	7	17	8	.....	.....	.....	8	5	3	18
.....	5	.....	.....	.....	3	3	.....	3	.....	.....	.....	.....	.....	.....	.....	19
4	8	9	4	5	34	13	15	6	20	8	2	6	12	8	5	20
11	20	109	93	16	104	7	40	13	2,256	358	(*)	261	1,898	1,843	55	21
6	42	130	90	40	(*)	6	39	9	2,236	283	(*)	(*)	1,953	1,910	43	22
1	.....	.....	.....	.....	19	33	42	7	45	1	.....	1	44	9	35	23
2	.....	.....	.....	.....	36	38	175	26	310	1	.....	1	309	20	289	24
2	.....	.....	.....	.....	(*)	3	554	114	489	4	(*)	(*)	485	58	427	25
.....	.....	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	5	3	.....	7	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	14	4	13	2	10	.....	.....	.....	10	.....	10	28
.....	.....	.....	.....	.....	(*)	.....	1	72	.....	(*)	(*)	.....	72	.....	72	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	1	.....	.....	.....	13	96	554	221	541	3	.....	3	538	16	522	31
.....	1	.....	.....	.....	19	168	894	344	883	3	.....	3	880	59	821	32
.....	.....	.....	.....	.....	(*)	10	622	216	576	.....	(*)	(*)	576	34	542	33
.....	1	.....	.....	.....	17	154	842	332	783	3	.....	3	780	54	726	34
.....	20	.....	.....	.....	105	120	164	50	91	103	.....	103	91	116	89	35
.....	.....	.....	.....	.....	(*)	119	114	46	106	.....	(*)	(*)	106	54	52	36
1	1	.....	.....	.....	14	96	556	224	555	14	.....	14	541	17	524	37
1	1	.....	.....	.....	18	173	897	429	913	16	.....	16	897	60	837	38
1	.....	.....	.....	.....	(*)	11	625	218	588	6	(*)	(*)	582	37	545	39
.....	1	.....	.....	.....	7	76	520	209	543	8	.....	8	535	16	519	40
.....	1	.....	.....	.....	10	131	837	327	887	8	.....	8	879	59	820	41
.....	.....	.....	.....	.....	(*)	2	494	109	528	1	(*)	(*)	527	15	512	42
1	.....	.....	.....	.....	6	23	50	23	21	8	.....	8	13	1	12	43
1	.....	.....	.....	.....	7	40	65	24	26	8	.....	8	18	1	17	44
1	.....	.....	.....	.....	(*)	9	139	116	109	5	(*)	(*)	104	23	81	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
.....	1	.....	.....	.....	1	11	.....	1	3	.....	.....	.....	1	2	.....	47
.....	307	.....	.....	.....	3	143	428	15	219	175	.....	175	44	.....	44	48
8	8	17	7	10	75	91	526	219	528	14	6	8	514	18	497	49
1,565	3,105	42,671	23,452	19,219	16,326	7,694	52,450	10,487	530,926	63,079	8,821	54,258	467,847	436,604	31,243	49
.....	1	.....	.....	.....	.....	2	6	5	10	4	.....	4	6	1	5	50
.....	.....	.....	.....	.....	.....	40	812	95	266	165	.....	165	101	20	81	51
7,610	51,930	83,200	50,425	32,775	(*)	31,600	4,552,411	528,548	24,135,699	4,513,237	(*)	(*)	19,622,462	16,742,110	2,880,352	52
4	2	5	3	2	24	57	319	127	316	15	1	14	301	15	266	53
34,871	15,750	28,376	9,066	19,310	261,416	647,873	3,191,319	1,044,168	32,598,528	4,902,764	4,492,667	410,097	27,695,764	25,048,293	2,647,471	54
1,002	307	19,505	16,464	3,041	5,138	6,690	37,480	7,511	511,512	54,636	.....	54,636	456,876	437,952	18,924	55
42,481	67,680	111,576	59,491	52,085	(*)	679,473	7,743,730	1,572,716	56,734,227	9,416,001	(*)	(*)	47,318,226	41,790,403	5,527,823	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
824,660	.....	.....	.....	.....	.....	.....	278,000	.....	66,281,334	587,397	46,397	541,000	65,693,937	38,956,803	26,737,134	58
.....	.....	1,253	1,253	.....	(*)	.....	336,375	.....	16,447,901	879,146	(*)	(*)	15,568,755	15,500,000	68,755	59
.....	.....	.....	.....	.....	.....	.....	1,700	.....	501,637	62,359	8,688	53,671	439,278	433,292	5,986	60
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	1,391	1,391	1,391	.....	.....	.....	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	.....	8,688	8,688	8,688	.....	.....	.....	.....	63

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4). -IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data

Item (For definitions and explanations, see text)	The State	North Pacific Coast (I-A): Pacific Coast direct	South Pacific Coast, total	Klamath River (II-A)				
				Total	Klamath River direct	Trinity River	Scott River	Shasta River
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	47,200	32	45,334	472	98	111	100	132
2 Cost.....dollars..	65,002,185	9,765	58,752,949	292,977	29,111	1,928	12,796	86,774
3 Area irrigated direct.....acres..	7,394,871	1,906	6,645,404	146,307	14,674	3,859	15,106	45,257
4 Cost per acre irrigated direct.....dollars..	8.79	5.12	8.84	2.00	1.98	0.50	0.85	1.92
5 Total cost per irrigated acre.....dollars..	9.85	5.12	10.03	2.02	2.01	0.50	0.86	1.96
6 Total cost per acre-foot of water ².....dollars..	3.18	(³)	3.46	1.06	(³)	(³)	(³)	1.03
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	3,892		3,435	347	67	82	90	94
8 acres irrigated..	807,768		674,865	56,013	5,162	3,345	11,679	28,560
9 \$1.00-\$1.99.....enterprises reporting..	1,176	2	1,148	26	4	7	4	11
10 acres irrigated..	552,291	23 ⁴	541,344	9,737	5,428	208	340	3,761
11 \$2.00-\$4.99.....enterprises reporting..	7,058	12	6,997	45	11	12	4	11
12 acres irrigated..	1,684,785	802	1,674,131	72,140	3,670	213	2,980	5,891
13 \$5.00-\$9.99.....enterprises reporting..	13,217	13	13,113	28	8	5	2	6
14 acres irrigated..	2,294,930	757	1,795,245	7,733	297	69	107	6,728
15 \$10.00 and over.....enterprises reporting..	21,857	5	20,641	26	8	5		10
16 acres irrigated..	2,055,097	112	1,959,819	684	117	24		317
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	39,826	32	37,988	467	98	111	99	129
18 Cost.....dollars..	59,776,671	9,765	53,583,263	290,607	29,111	1,928	12,796	84,924
19 Area supplied primary irrigation.....acres..	6,508,839	1,906	5,855,060	144,873	14,474	3,859	14,947	44,337
20 Cost per acre supplied.....dollars..	9.06	5.12	9.15	2.01	2.01	0.50	0.86	1.92
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	8,240		8,194	7	1		1	4
22 Cost.....dollars..	5,225,514		5,169,686	2,370	0			1,850
23 Area supplied supplemental irrigation.....acres..	796,032		790,344	1,434	200		159	920
24 Cost per acre supplied.....dollars..	6.56		6.54	1.65	0.00			2.01
Cost to farms for purposes other than operation and maintenance: ⁴								
25 Enterprises reporting.....enterprises..	281		272	2			1	1
26 Cost.....dollars..	5,157,361		3,357,694	7,200			2,400	4,800
27 Area irrigated direct.....acres..	1,912,277		1,407,629	5,693			2,695	2,998
28 Cost per acre irrigated.....dollars..	2.70		2.39	1.26			0.89	1.60
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29 Enterprises reporting.....enterprises..	211		200	3			1	2
30 Amount.....dollars..	609,119		587,478	4,335			383	3,687
31 Area irrigated direct.....acres..	1,523,237		1,439,246	34,863			2,695	5,120
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	46,107	32	44,270	447	93	110	90	123
33 Area irrigated.....acres..	4,259,590	1,906	4,046,441	61,655	10,620	3,716	10,101	30,885
34 Complete-system enterprises ⁶.....enterprises..	44,524	32	42,718	418	92	108	86	109
35 Area irrigated.....acres..	3,932,111	1,906	3,730,493	54,063	10,570	3,706	9,721	23,429
Other farms irrigated:								
36 Enterprises reporting.....number..	2,711		2,667	19	7	2	6	3
37 Number of other farms.....farms..	4,432		4,375	19	7	2	6	3
38 Area irrigated in other farms.....acres..	105,623		104,813	1,024	177	11	535	296
Enterprises by origin of water supply: ⁶								
39 No water from other enterprises.....enterprises reporting..	44,938	32	43,121	423	92	110	86	110
40 acres irrigated..	3,946,416	1,906	3,744,778	54,773	10,570	3,716	9,721	23,429
41 Part of water from other enterprises.....enterprises reporting..	647		636	18	1		3	12
42 acres irrigated..	279,151		269,425	9,160	50		300	7,356
43 All of water from other enterprises.....enterprises reporting..	522		513	6			1	1
44 acres irrigated..	34,023		32,238	722			80	100
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	37,901	32	36,107	439	93	109	89	119
46 acres irrigated..	3,677,175	1,906	3,465,982	63,671	10,620	3,716	9,942	30,215
47 Part primary, part supplemental.....enterprises reporting..	494		489					
48 Primary irrigation.....acres irrigated..	73,876		73,696					
49 Supplemental irrigation.....acres irrigated..	41,028		40,925					
50 All supplemental.....enterprises reporting..	7,347		7,319	5			1	3
51 acres irrigated..	467,441		465,838	984			159	670
Enterprises by number of acres irrigated: ⁶								
52 None.....enterprises reporting..	365		355	3		1		1
53 1-9 acres.....enterprises reporting..	9,689	1	9,395	84	18	43	8	14
54 10-29 acres.....enterprises reporting..	12,898	8	12,512	93	23	34	15	18
55 30-59 acres.....enterprises reporting..	9,583	8	9,177	67	22	15	17	12
56 60-99 acres.....enterprises reporting..	5,137	9	4,847	58	11	9	11	21
57 100-199 acres.....enterprises reporting..	4,351	5	4,130	60	9	4	21	19
58 200-499 acres.....enterprises reporting..	2,805	1	2,649	60	9	4	17	25
59 500-999 acres.....enterprises reporting..	786		747	11			1	7
60 1,000 acres or more.....enterprises reporting..	493		458	11	1			6

See footnotes at end of Drainage Basin Table 1, Part 3.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise]

Klamath River (II-A)—Con.		Klamath River to Santa Maria River excluding Central Valley (II-B)										Sacramento-San Joaquin Delta area (II-C)				
Lower Klamath Lake	Lost River	Total	Pacific Coast direct	Russian River	San Francisco Bay					Pajaro River	Salinas River	Central Valley, total	Total	Delta and west side lands	Morrison Creek area	Consumers River
					Total	San Francisco Bay direct	Suisun Bay	Alameda Creek	Santa Clara Valley								(1)	(2)	(3)
(5)	(6)	(1)	(2)	(3a)	(3b)	(3c)	(3d)	(4)	(5)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
16	15	6,101	1,001	401	2,733	444	296	387	1,607	1,194	775	31,652	4,687	1,155	482	408
3,229	159,139	5,037,157	450,548	139,600	2,214,566	174,036	104,822	333,473	1,602,235	817,917	1,414,526	41,370,788	3,257,895	1,605,869	170,683	153,122
3,976	63,435	393,860	47,438	16,365	119,364	11,564	13,433	18,476	75,891	67,259	143,434	5,406,789	554,323	349,447	18,585	22,830
0.81	2.51	12.79	9.50	8.53	18.55	15.05	7.80	18.05	21.11	12.16	9.86	7.65	5.88	4.60	9.18	6.71
0.81	2.51	13.03	9.50	8.62	18.92	15.22	7.81	18.11	21.72	12.20	10.11	8.86	5.95	4.64	9.25	6.71
(3)	(3)	6.20	6.85	(3)	15.77	(3)	7.81	(3)	19.75	6.83	3.74	2.95	1.80	1.78	(3)	(3)
0	5	333	82	39	127	29	13	19	66	52	34	2,214	451	268	14	32
2,807	4,460	20,244	1,669	1,557	7,867	2,685	1,940	1,366	1,876	4,999	5,052	568,924	132,326	120,515	326	2,748
.....	.....	123	31	12	41	11	4	8	18	27	12	892	146	92	2	5
.....	.....	10,720	2,300	589	3,418	396	279	693	2,050	1,893	2,520	504,731	42,561	35,482	59	1,392
4	3	732	176	89	240	52	51	49	88	150	77	5,687	755	289	34	53
1,080	58,306	65,092	14,766	4,058	14,823	1,444	4,606	2,241	6,532	11,796	19,649	1,460,473	111,253	68,735	2,990	6,871
2	5	1,508	268	99	558	76	96	101	285	346	239	10,355	1,597	230	200	160
81	451	136,691	13,560	4,056	35,492	2,559	3,802	7,516	21,615	22,762	60,821	1,489,211	160,970	68,539	9,515	8,283
1	2	3,405	444	162	1,767	276	132	210	1,150	619	413	12,504	1,738	276	232	158
8	218	161,113	15,143	6,105	57,764	4,480	2,806	6,660	43,818	26,709	55,392	1,383,450	107,213	56,176	5,695	3,536
16	14	6,023	992	398	2,688	440	295	387	1,567	1,186	762	24,623	4,653	1,141	477	407
3,229	158,619	4,969,544	446,773	139,494	2,179,411	170,133	104,721	333,081	1,571,476	810,368	1,393,498	36,980,715	3,210,825	1,578,705	169,585	152,522
3,976	63,280	386,613	46,957	16,194	117,027	11,432	13,415	18,411	73,769	66,557	139,878	4,668,895	547,330	345,906	18,449	22,807
0.81	2.51	12.85	9.51	8.61	18.62	14.88	7.81	18.09	21.30	12.18	9.96	7.92	5.87	4.56	9.19	6.69
.....	.....	172	14	4	108	8	2	7	91	24	22	7,474	60	26	5	1
.....	.....	520	67,613	3,775	35,155	3,903	101	392	30,755	7,540	21,028	4,390,073	47,060	27,164	1,098	600
.....	.....	155	171	481	2,337	132	18	65	2,122	702	3,556	737,894	6,993	3,541	136	23
.....	.....	3,35	9.33	7.02	15.04	29.57	5.61	6.03	14.50	10.75	5.91	5.95	6.73	7.67	8.07	26.09
.....	.....	13	.....	1	7	.....	1	1	5	3	2	82	11	8	.....	1
.....	.....	372,874	.....	10,800	339,880	.....	890	531,800	5307,190	513,795	8,399	1,826,965	250,960	156,944	.....	180
.....	.....	57,511	.....	3,322	2,520	.....	450	5415	5203	5203	3,466	1,276,094	71,282	52,245	.....	66
.....	.....	(5)	.....	3.25	(5)	.....	8.48	(5)	(5)	(5)	2.42	1.43	3.52	3.00	.....	2.73
.....	.....	7	1	1	.....	.....	.....	.....	.....	1	4	102	15	12	.....	1
.....	.....	265	4,080	500	2,006	.....	.....	.....	.....	560	1,020	525,740	31,674	23,732	.....	52
.....	.....	27,048	4,924	389	3,322	.....	.....	.....	.....	74	1,139	1,345,138	92,183	61,897	.....	66
17	14	6,104	1,000	401	2,748	451	294	386	1,618	1,193	765	31,457	4,672	1,133	492	405
3,976	5,357	373,991	46,402	12,962	113,279	11,258	11,545	18,273	72,203	66,187	135,161	3,258,515	426,867	254,306	18,585	22,670
15	8	5,930	979	390	2,624	430	226	384	1,585	1,177	763	30,406	4,537	1,031	482	396
3,276	3,361	369,938	45,407	12,263	111,612	11,143	10,271	18,211	71,987	65,495	135,161	2,968,601	399,172	229,348	18,585	22,047
.....	.....	782	34	6	514	18	18	51	427	205	23	1,224	155	41	14	12
.....	.....	1,609	41	6	1,209	21	24	79	1,085	323	30	1,484	178	46	17	12
.....	.....	21,151	444	89	14,200	535	214	1,028	12,423	5,051	1,367	64,778	8,226	4,798	191	465
17	8	5,995	986	393	2,665	441	230	385	1,610	1,189	765	30,648	4,564	1,043	482	396
3,976	3,361	370,336	45,441	12,385	111,697	11,162	10,286	18,262	71,987	65,652	135,161	2,981,496	400,871	231,047	18,585	22,047
.....	.....	31	8	5	14	4	6	.....	4	.....	.....	503	35	25	.....	4
.....	.....	1,454	2,457	775	693	37	475	.....	181	.....	.....	250,736	14,687	12,717	.....	246
.....	.....	78	6	3	69	6	58	1	.....	.....	.....	306	63	65	.....	5
.....	.....	542	1,198	186	889	59	784	11	35	.....	.....	26,283	11,309	10,542	.....	377
16	13	5,890	982	395	2,608	435	290	379	1,505	1,163	745	23,892	4,596	1,104	477	404
3,976	5,202	363,144	45,969	12,718	107,544	10,856	11,499	18,026	67,163	64,300	132,613	2,707,512	422,053	252,486	18,449	22,647
.....	.....	83	3	1	60	4	1	7	48	14	5	338	19	7	.....	47
.....	.....	6,087	92	73	3,801	270	28	182	3,321	1,229	892	62,081	2,117	744	.....	48
.....	.....	1,921	37	15	1,214	71	10	65	1,068	320	335	37,082	765	344	.....	49
.....	.....	1	78	3	45	4	1	.....	40	8	13	7,011	34	14	5	1
.....	.....	155	2,839	304	156	720	61	8	.....	338	1,321	451,840	1,932	732	136	23
1	.....	53	6	2	35	8	2	.....	25	8	2	216	23	8	.....	52
.....	.....	1,624	265	134	895	245	98	139	413	210	120	5,524	1,014	132	131	49
.....	.....	1,802	310	128	835	108	96	124	507	414	115	9,028	1,373	205	185	132
.....	.....	1,153	207	75	498	53	55	48	342	283	90	6,951	889	176	95	87
3	3	604	110	38	231	18	24	25	164	128	97	3,641	489	123	33	42
5	2	497	69	19	153	12	8	27	106	100	156	3,078	437	177	26	28
3	2	274	27	4	86	6	9	16	56	31	126	2,009	289	183	6	11
2	1	67	5	1	11	.....	2	6	3	14	36	602	101	77	6	3
1	3	30	1	.....	4	.....	1	.....	2	5	23	408	57	52	.....	3

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data

Item (For definitions and explanations, see text)	Sacramento-San Joaquin Delta area (II-C)—Con.		Sacramento River (II-D)							
	Mokelumne River area	Calaveras River area	Total	Sacramento River direct			American River	Putah Creek		
				Total	Below Colusa	Colusa to Red Bluff			Above Red Bluff	
	(4)	(5)		(1a)	(1b)	(1c)	(2)	(3)		
ALL ENTERPRISES										
Cost of water to farms, 1949: ¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	1,383	1,269	6,358	2,792	1,524	1,126	145	298	389
2	Cost.....dollars..	501,094	827,127	5,928,675	3,096,496	1,949,545	1,038,657	108,294	230,318	338,754
3	Area irrigated direct.....acres..	75,968	87,493	982,656	473,299	280,846	168,736	23,717	19,987	37,685
4	Cost per acre irrigated direct.....dollars..	6.60	9.45	6.03	6.54	6.94	6.16	4.57	11.52	8.99
5	Total cost per irrigated acre.....dollars..	6.64	9.76	6.18	6.71	7.12	6.32	4.65	11.71	9.12
6	Total cost per acre-foot of water ².....dollars..	(³)	1.88	1.29	1.32	1.45	1.32	(³)	4.68	(³)
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	82	56	831	234	94	69	71	41	11
8	Cost.....acres irrigated..	4,786	3,951	180,398	28,119	10,890	10,158	7,071	886	1,238
9	\$1.00-\$1.99.....enterprises reporting..	27	22	242	101	52	41	8	4	18
10	Cost.....acres irrigated..	2,407	3,221	46,200	27,043	16,030	10,677	336	249	2,145
11	\$2.00-\$4.99.....enterprises reporting..	231	150	1,178	503	265	228	11	26	85
12	Cost.....acres irrigated..	19,580	13,077	185,380	88,443	56,642	31,058	743	891	12,947
13	\$5.00-\$9.99.....enterprises reporting..	549	461	1,933	870	472	375	25	68	127
14	Cost.....acres irrigated..	38,982	35,651	388,660	240,853	133,762	91,919	15,172	6,898	11,027
15	\$10.00 and over.....enterprises reporting..	494	580	2,174	1,084	641	413	30	159	148
16	Cost.....acres irrigated..	10,213	31,593	182,018	88,841	63,522	24,924	395	11,063	10,328
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	1,383	1,255	6,283	2,751	1,500	1,111	143	295	385
18	Cost.....dollars..	498,199	811,824	5,832,104	3,048,923	1,918,771	1,022,022	108,130	227,248	336,917
19	Area supplied primary irrigation.....acres..	75,429	84,739	959,353	461,427	273,874	164,243	23,310	19,663	37,143
20	Cost per acre supplied.....dollars..	6.60	9.58	6.08	6.61	7.01	6.22	4.64	11.56	9.07
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	10	19	130	64	36	24	4	4	7
22	Cost.....dollars..	2,895	15,303	96,571	47,573	30,774	16,635	164	3,070	1,837
23	Area supplied supplemental irrigation.....acres..	539	2,754	23,303	11,872	6,972	4,493	407	324	542
24	Cost per acre supplied.....dollars..	5.37	5.56	4.14	4.01	4.41	3.70	0.40	9.48	3.39
Cost to farms for purposes other than operation and maintenance: ⁴										
25	Enterprises reporting.....enterprises..	.....	3	29	13	5	7	1	5	1
26	Cost.....dollars..	.....	93,836	258,646	121,024	58,411	31,613	31,000	23,205	748
27	Area irrigated direct.....acres..	.....	18,971	178,735	81,667	31,906	37,786	13,975	7,631	2,667
28	Cost per acre irrigated.....dollars..	.....	4.95	1.45	1.48	1.83	0.84	2.59	3.04	0.28
Arrearage in payments by farms, Jan. 1, 1950: ⁴										
29	Enterprises reporting.....enterprises..	1	3	37	19	10	9	1	8	1
30	Amount.....dollars..	1,772	6,118	225,185	103,849	65,065	22,684	16,100	34,301	4,199
31	Area irrigated direct.....acres..	11,249	18,971	249,051	134,234	83,326	38,933	11,975	9,935	2,667
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	1,388	1,272	6,319	2,783	1,520	1,123	141	292	390
33	Area irrigated.....acres..	64,684	66,622	552,715	220,159	139,615	72,704	7,940	6,024	35,018
34	Complete-system enterprises ⁵.....enterprises..	1,375	1,259	5,993	2,605	1,384	1,089	133	267	380
35	Area irrigated.....acres..	64,165	65,027	483,523	185,431	116,827	61,007	7,597	5,659	33,051
Other farms irrigated:										
36	Enterprises reporting.....number..	56	32	278	122	76	44	2	3	13
37	Number of other farms.....farms..	60	35	348	156	105	48	3	3	14
38	Area irrigated in other farms.....acres..	1,574	1,198	12,260	6,582	4,765	1,715	102	37	316
Enterprises by origin of water supply: ⁶										
39	No water from other enterprises.....enterprises reporting..	1,382	1,267	6,053	2,640	1,399	1,106	136	273	383
40	Cost.....acres irrigated..	64,165	65,027	486,219	187,443	117,139	62,707	7,597	5,659	33,215
41	Part of water from other enterprises.....enterprises reporting..	6	2	133	55	45	7	3	7	5
42	Cost.....acres irrigated..	519	1,205	56,556	25,989	16,707	8,967	215	83	1,445
43	All of water from other enterprises.....enterprises reporting..	3	3	133	88	76	10	2	12	2
44	Cost.....acres irrigated..	.....	390	9,940	6,827	5,769	1,030	28	282	358
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	1,372	1,247	6,152	2,698	1,475	1,088	136	283	381
46	Cost.....acres irrigated..	64,139	64,332	537,736	210,812	133,062	70,066	7,684	6,000	34,437
47	Part primary, part supplemental.....enterprises reporting..	9	3	38	12	7	4	1	.....	3
48	Cost.....acres irrigated..	421	952	3,898	2,056	1,687	348	21	.....	39
49	Supplemental irrigation.....acres irrigated..	124	297	2,054	1,251	1,103	88	60	.....	30
50	All supplemental.....enterprises reporting..	.....	14	74	40	24	15	1	3	4
51	Cost.....acres irrigated..	.....	1,041	9,027	6,040	3,763	2,202	75	24	512
Enterprises by number of acres irrigated: ⁶										
52	None.....enterprises reporting..	7	8	55	33	14	16	3	6	2
53	1-9 acres.....enterprises reporting..	335	317	1,608	844	499	296	49	149	43
54	10-29 acres.....enterprises reporting..	457	394	1,679	708	311	359	38	75	103
55	30-59 acres.....enterprises reporting..	296	235	1,110	454	232	206	16	38	101
56	60-99 acres.....enterprises reporting..	146	145	638	242	141	85	16	14	58
57	100-199 acres.....enterprises reporting..	96	110	602	247	150	86	11	8	46
58	200-499 acres.....enterprises reporting..	40	51	444	173	115	54	5	2	28
59	500-999 acres.....enterprises reporting..	11	11	120	57	40	15	2	.....	7
60	1,000 acres or more.....enterprises reporting..	8	1	63	25	18	6	1	.....	2

See footnotes at end of Drainage Basin Table 1, Part 3.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Sacramento River (II-D)—Continued										San Joaquin River (II-E)							
Cache Creek	Feather River				Butte Creek	Stony Creek	Cow Creek	Pit River				Total	San Joaquin River direct				
	Total	Feather River direct	Bear River	Yuba River				Total	Pit River direct below Canby	Pit River direct above Canby	Goose Lake		Total	Below Newman	Newman to Mendota	Above Mendota	
(4)	(5a)	(5b)	(5c)	(6)	(7)	(8)	(9a)	(9b)	(9c)	(10)	(11a)	(11b)	(11c)	(12)			
595	1,459	1,280	115	70	373	115	86	275	167	76	32	4,085	1,683	129	177	1,377	1
509,572	1,022,536	807,945	145,710	68,881	552,371	124,994	9,714	43,920	17,371	24,946	1,603	8,938,501	4,984,425	1,212,166	3,021,751	750,508	2
60,067	183,977	158,943	14,275	10,759	84,073	20,301	7,273	95,994	35,591	56,706	3,697	1,370,359	634,409	112,563	384,452	137,394	3
8.48	5.56	5.08	10.21	6.40	6.57	6.16	1.34	0.46	0.49	0.44	0.43	6.52	7.06	10.77	7.86	5.46	4
9.00	5.75	5.28	10.26	6.42	6.62	6.17	1.35	0.46	0.49	0.44	0.44	7.46	9.33	11.41	9.11	7.80	5
(³)	1.22	1.10	(³)	1.40	0.99	(³)	(³)	(³)	(³)	(³)	(³)	2.33	3.59	3.93	3.50	4.11	6
26	201	148	17	36	39	12	53	215	114	71	30	209	90	16	17	57	7
1,734	48,664	46,911	748	1,005	3,947	397	5,569	89,844	31,175	55,182	3,487	47,730	22,257	3,932	15,512	2,813	8
31	30	27	6	3	19	7	6	21	20	.....	1	149	60	6	9	45	9
2,394	8,992	6,550	2,172	270	1,786	444	426	2,721	2,571	.....	150	86,132	52,602	607	41,927	10,068	10
167	227	214	12	3	118	24	9	21	18	3	.....	884	515	17	40	458	11
14,830	35,618	30,047	1,202	4,369	26,555	2,403	718	2,975	1,495	1,480	.....	665,908	235,040	25,044	138,611	71,385	12
201	499	464	28	9	130	41	6	7	7	.....	.....	1,374	568	41	49	478	13
16,524	59,308	54,359	2,472	2,477	37,284	16,304	253	209	209	.....	.....	257,859	102,216	13,742	55,128	33,346	14
170	496	427	52	19	67	31	12	11	8	2	1	1,389	450	49	62	339	15
24,585	31,395	21,076	7,681	2,638	14,501	753	307	245	141	44	60	312,730	222,294	69,238	133,274	19,782	16
588	1,444	1,275	109	66	370	114	86	273	167	74	32	2,901	886	120	131	635	17
402,293	1,011,688	797,949	144,958	68,781	547,413	124,030	9,696	43,896	17,371	24,946	1,579	7,912,673	4,409,845	1,184,595	2,738,855	486,395	18
56,637	177,898	152,962	14,204	10,732	83,433	20,245	7,173	95,734	35,591	56,476	3,667	1,198,468	534,040	106,269	331,611	96,160	19
8.52	5.69	5.22	10.21	6.41	6.56	6.13	1.35	0.46	0.49	0.44	0.43	6.60	8.26	11.15	8.26	5.06	20
19	29	19	6	4	4	2	1	3	.....	2	1	1,250	830	13	53	764	21
27,279	10,848	9,996	752	100	4,958	964	18	24	.....	0	24	1,025,820	574,580	27,571	282,896	264,113	22
3,430	6,079	5,981	71	27	640	56	100	260	.....	230	30	171,891	100,369	6,294	52,841	41,234	23
7.95	1.78	1.67	10.59	3.70	7.75	17.21	0.18	0.09	.....	0.00	0.80	5.97	5.72	4.38	5.35	6.41	24
1	6	6	.....	1	2	1	4	2	.....	2	.....	19	14	6	6	2	25
3,652	21,345	20,614	.....	731	51,080	25,795	807	10,990	.....	10,990	.....	938,894	284,094	195,975	68,577	19,542	26
13,841	16,407	15,031	.....	1,376	17,667	12,935	1,209	24,711	.....	24,711	.....	753,766	301,866	74,570	181,335	45,961	27
0.26	1.30	1.37	.....	0.53	2.89	1.99	0.67	0.44	.....	0.44	.....	1.25	0.94	2.63	0.38	0.43	28
2	8	8	1	3	5	1	.....	3	.....	3	.....	21	16	4	8	4	29
20,507	30,064	15,900	8,360	5,804	5,191	23,322	.....	3,752	.....	3,752	.....	114,340	62,647	5,203	33,749	23,695	30
13,991	28,351	19,945	3,528	4,878	21,752	12,935	.....	25,186	.....	25,186	.....	518,769	211,105	43,740	115,396	51,969	31
592	1,448	1,270	113	65	364	114	78	269	167	72	30	4,091	1,666	120	170	1,376	32
46,060	125,911	114,974	9,481	1,456	43,330	7,366	4,382	64,465	35,591	25,765	3,109	525,425	281,597	27,478	169,056	85,063	33
586	1,383	1,229	103	51	340	112	77	252	160	67	25	3,832	1,611	111	139	1,361	34
42,712	115,065	105,498	9,118	1,249	28,176	7,240	4,082	61,307	33,561	25,297	2,449	478,332	258,295	26,280	147,670	84,345	35
52	45	43	1	1	25	0	2	8	4	3	1	158	99	6	3	90	36
59	55	50	1	4	39	8	5	9	5	3	1	210	116	9	3	104	37
1,269	1,368	1,213	70	85	1,221	188	79	1,200	1,040	86	74	9,425	5,930	1,370	2,383	2,177	38
586	1,396	1,239	103	54	340	112	77	255	160	70	25	3,894	1,626	113	140	1,373	39
42,712	116,385	106,000	9,118	1,267	28,176	7,240	4,082	61,307	33,561	25,297	2,449	482,507	262,049	26,280	151,004	84,765	40
3	36	23	4	9	16	2	1	10	5	1	4	131	24	3	18	3	41
3,265	9,028	8,552	322	154	14,080	126	300	2,340	1,830	180	330	40,123	18,069	674	17,097	298	42
3	16	8	6	2	8	.....	.....	4	2	1	1	66	16	4	12	.....	43
83	498	422	41	35	1,074	.....	.....	818	200	288	330	2,795	1,479	524	955	.....	44
574	1,411	1,245	107	59	361	112	78	264	167	67	30	2,799	832	108	121	603	45
43,321	124,087	113,248	9,410	1,429	43,190	7,272	4,382	64,235	35,591	25,535	3,109	379,496	200,805	26,342	130,323	44,140	46
11	11	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	52	25	1	3	21	47
1,153	612	612	.....	.....	.....	38	.....	.....	.....	.....	.....	2,864	1,298	51	632	615	48
466	267	267	.....	.....	.....	40	.....	.....	.....	.....	.....	8,950	5,070	29	3,717	1,324	49
7	15	5	6	4	3	1	.....	.....	.....	.....	.....	1,183	796	9	46	741	50
1,120	945	847	71	27	140	16	.....	230	.....	230	.....	134,115	74,424	1,056	34,384	38,984	51
.....	11	9	.....	2	.....	.....	.....	3	.....	3	.....	57	13	2	.....	11	52
112	345	274	35	36	62	15	7	31	22	4	5	406	144	5	10	129	53
204	393	355	24	14	112	30	21	33	25	2	6	1,015	467	12	15	440	54
116	245	221	17	7	60	39	27	30	19	9	2	969	424	10	15	399	55
72	153	141	9	3	42	14	7	36	25	8	3	610	225	13	12	200	56
39	140	124	15	1	39	11	13	59	32	19	8	477	184	33	28	123	57
32	118	105	11	2	36	2	3	55	29	20	6	302	117	28	32	57	58
9	29	28	1	.....	6	2	.....	11	6	5	.....	103	43	12	16	12	59
8	14	13	1	.....	7	1	.....	11	9	2	.....	72	49	5	39	5	60

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 3 of 4).--IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data

Item (For definitions and explanations, see text)	San Joaquin River (II-E)--Continued						San Joaquin Valley above San Joaquin River (II-F)		
	Stanislaus River (2)	Tuolumne River (3)	Los Banos Creek (4)	Merced River (5)	Bear Creek (6)	Chow- chilla and Fresno Rivers (7)	Total	Fresno Slough (1)	West Side area (2)
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	221	235	102	269	358	1,240	16,540	1,538	86
2 Cost.....dollars..	615,725	705,462	236,383	342,676	570,506	1,483,324	23,245,717	1,735,776	2,904,514
3 Area irrigated direct.....acres..	102,963	200,387	58,542	86,540	117,092	170,406	2,499,451	378,165	220,267
4 Cost per acre irrigated direct.....dollars..	5.98	3.52	4.04	3.96	4.87	8.70	9.30	4.59	13.19
5 Total cost per irrigated acre.....dollars..	6.72	3.73	4.36	4.08	5.28	10.80	11.84	6.92	13.69
6 Total cost per acre-foot of water ².....dollars..	1.92	0.98	1.98	1.05	(³)	5.14	6.50	3.46	(³)
Enterprises by cost per acre:									
7 Less than \$1.00.....enterprises reporting..	47	42	5	36	47	23	645	63	4
8 .....acres irrigated..	4,328	4,215	745	4,079	9,171	2,935	208,470	56,911	6,833
9 \$1.00-\$1.99.....enterprises reporting..	14	23	4	11	30	10	355	82	2
10 .....acres irrigated..	3,111	3,043	12,703	1,195	5,229	8,249	329,838	92,078	5,420
11 \$2.00-\$4.99.....enterprises reporting..	51	62	26	64	82	93	2,873	400	11
12 .....acres irrigated..	37,534	155,882	37,117	73,103	90,549	36,683	497,932	105,021	34,799
13 \$5.00-\$9.99.....enterprises reporting..	49	57	30	83	96	497	5,456	559	27
14 .....acres irrigated..	31,232	34,850	5,838	4,883	7,860	70,980	681,722	96,460	66,407
15 \$10.00 and over.....enterprises reporting..	60	51	37	75	103	617	7,211	434	42
16 .....acres irrigated..	26,778	2,397	2,139	3,280	4,283	51,559	781,489	27,695	106,808
Cost of water for primary irrigation:									
17 Enterprises reporting.....enterprises..	174	143	65	253	292	1,108	10,802	893	81
18 Cost.....dollars..	572,290	663,499	203,204	336,941	535,183	1,191,711	20,025,103	1,143,688	2,863,944
19 Area supplied primary irrigation.....acres..	91,675	189,216	54,179	84,010	107,964	137,384	1,963,744	250,930	212,136
20 Cost per acre supplied.....dollars..	6.24	3.51	3.75	4.01	4.96	8.67	10.20	4.56	13.50
Cost of water for supplemental irrigation:									
21 Enterprises reporting.....enterprises..	54	97	40	19	71	145	6,038	689	6
22 Cost.....dollars..	43,435	41,963	33,179	5,735	35,323	291,613	3,220,614	592,088	40,570
23 Area supplied supplemental irrigation.....acres..	11,308	11,171	4,363	2,530	9,128	33,022	535,707	127,235	8,131
24 Cost per acre supplied.....dollars..	3.84	3.76	7.60	2.27	3.87	8.83	6.01	4.65	4.99
Cost to farms for purposes other than operation and maintenance: ⁴									
25 Enterprises reporting.....enterprises..	3	4	1	2	1	3	28	8	.....
26 Cost.....dollars..	218,867	225,368	4,455	71,864	103,272	30,974	378,465	140,024	.....
27 Area irrigated direct.....acres..	78,745	179,387	33,045	62,697	81,725	16,301	272,311	87,769	.....
28 Cost per acre irrigated.....dollars..	2.78	1.26	0.13	1.15	1.26	1.90	1.39	1.60	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29 Enterprises reporting.....enterprises..	2	3	2	2	.....	5	34	8	1
30 Amount.....dollars..	20,483	18,974	4,082	500	.....	7,654	154,541	24,807	2,500
31 Area irrigated direct.....acres..	47,817	144,845	45,545	41,454	.....	28,003	485,135	72,892	.....
SINGLE-FARM ENTERPRISES, 1950									
32 Single-farm enterprises.....enterprises..	215	248	99	269	371	1,233	16,386	1,513	86
33 Area irrigated.....acres..	23,096	19,711	11,850	18,004	34,699	136,468	1,753,508	198,642	220,267
34 Complete-system enterprises ⁶.....enterprises..	194	204	92	243	334	1,164	16,053	1,472	83
35 Area irrigated.....acres..	20,607	17,274	10,591	16,784	30,764	124,017	1,607,574	179,668	211,506
Other farms irrigated:									
36 Enterprises reporting.....number..	16	4	9	9	9	12	633	62	2
37 Number of other farms.....farms..	47	4	9	10	9	15	748	73	12
38 Area irrigated in other farms.....acres..	1,093	949	437	601	166	249	34,867	5,223	270
Enterprises by origin of water supply: ⁶									
39 No water from other enterprises.....enterprises reporting..	196	223	93	248	350	1,168	16,146	1,488	83
40 .....acres irrigated..	20,607	17,274	10,642	16,784	30,979	124,172	1,611,899	179,668	211,506
41 Part of water from other enterprises.....enterprises reporting..	11	16	4	5	10	61	206	22	3
42 .....acres irrigated..	2,347	2,308	1,093	911	3,226	12,169	139,370	18,925	8,761
43 All of water from other enterprises.....enterprises reporting..	8	9	2	16	11	4	34	3	.....
44 .....acres irrigated..	142	129	115	309	494	127	2,239	49	.....
Enterprises by primary and supplemental irrigation:									
45 All primary.....enterprises reporting..	160	133	59	246	286	1,090	10,354	830	80
46 .....acres irrigated..	13,197	9,370	7,369	16,349	26,532	105,874	1,368,227	128,635	202,136
47 Part primary, part supplemental.....enterprises reporting..	6	4	3	2	4	8	229	31	1
48 .....acres irrigated..	149	711	118	15	226	347	53,202	1,849	10,000
49 Supplemental irrigation.....acres irrigated..	691	810	278	101	394	1,606	25,313	2,266	4,000
50 All supplemental.....enterprises reporting..	47	92	37	16	66	132	5,722	637	5
51 .....acres irrigated..	9,059	8,820	4,085	1,539	7,547	28,641	306,766	65,892	4,131
Enterprises by number of acres irrigated: ⁶									
52 None.....enterprises reporting..	2	19	.....	5	15	3	81	15	.....
53 1-9 acres.....enterprises reporting..	56	54	.....	39	63	125	2,416	158	1
54 10-29 acres.....enterprises reporting..	44	52	19	74	86	273	4,961	398	3
55 30-59 acres.....enterprises reporting..	28	32	21	75	63	326	3,983	376	1
56 60-99 acres.....enterprises reporting..	32	42	17	31	55	208	1,904	236	4
57 100-199 acres.....enterprises reporting..	18	23	21	26	43	162	1,562	178	7
58 200-499 acres.....enterprises reporting..	23	18	11	14	35	87	976	80	13
59 500-999 acres.....enterprises reporting..	9	5	.....	3	7	34	282	33	14
60 1,000 acres or more.....enterprises reporting..	3	3	.....	2	4	15	221	39	43

See footnotes at end of Drainage Basin Table 1, Part 3.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

San Joaquin Valley above San Joaquin River (II-F)—Continued				Santa Maria River and basins south (II-G)											
Kings River	Kaweah and Tule Rivers	Deer Creek-White River area	Kern River and Buena Vista Lake	Total	Pacific Coast direct	Santa Maria River	Santa Ynez River	Santa Clara River	Colleguas Creek	Los Angeles River	San Gabriel River	Santa Ana River	San Jacinto Basin	San Luis Rey River	
(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
8,114	4,459	669	1,731	7,134	1,319	160	184	483	286	168	1,308	1,796	382	363	1
3,393,793	6,468,243	2,634,460	6,108,931	12,052,027	1,604,871	377,173	167,808	974,477	765,423	663,564	1,985,211	3,783,418	831,852	300,957	2
654,339	655,417	124,940	466,323	690,448	57,685	31,202	17,311	68,780	50,971	45,927	112,274	237,958	44,373	12,652	3
5.19	9.87	21.09	13.10	17.26	27.82	12.09	9.69	14.17	15.02	14.45	17.68	15.90	18.75	23.79	4
7.64	12.63	21.29	14.53	18.41	28.98	12.82	10.62	14.62	15.33	15.07	19.12	17.22	21.68	24.09	5
3.82	6.65	9.68	6.60	8.77	17.05	(³)	(³)	8.12	8.52	6.85	10.62	7.18	10.32	11.47	6
273	160	25	126	542	107	7	6	25	21	13	77	193	29	23	7
25,351	84,139	3,575	31,661	29,684	2,921	729	451	3,338	2,240	979	4,954	10,701	1,879	589	8
213	35	1	25	108	17	1	5	10	4	5	17	34	3	5	9
177,971	35,096	637	18,636	16,156	1,437	259	422	1,422	716	1,405	1,409	8,020	273	289	10
2,004	338	14	116	539	65	8	24	56	27	20	89	173	14	22	11
226,266	59,699	3,592	68,555	76,426	2,821	1,800	3,280	10,332	8,487	3,138	15,022	26,841	2,204	1,504	12
3,251	1,218	58	351	1,231	172	48	51	130	57	30	261	350	36	50	13
147,849	266,627	16,166	88,213	161,610	9,742	12,811	8,052	17,451	12,465	4,225	20,591	61,618	9,420	3,358	14
2,373	2,708	571	1,113	4,714	958	96	98	272	177	100	864	1,046	300	263	15
76,902	209,856	100,970	259,258	414,372	40,764	15,603	5,106	36,245	27,063	36,180	70,406	130,780	30,597	6,912	16
3,771	3,869	659	1,580	6,900	1,237	159	183	473	279	161	1,290	1,747	363	353	17
2,071,331	5,612,479	2,610,683	5,722,978	11,342,397	1,550,446	366,904	158,182	941,324	743,085	639,030	1,807,577	3,509,918	735,867	298,780	18
444,258	512,170	123,719	420,531	654,679	55,307	29,420	15,799	66,631	49,914	44,029	103,810	219,750	38,365	12,495	19
4.66	10.96	21.10	13.61	17.33	27.99	12.47	10.01	14.13	14.89	14.51	17.41	15.97	19.18	23.91	20
4,467	677	11	197	541	110	5	5	23	14	13	90	196	51	10	21
1,322,462	855,764	23,777	385,953	709,630	54,425	10,269	9,626	33,153	22,338	24,534	177,634	273,500	95,985	2,177	22
210,081	143,247	1,221	45,792	43,769	2,298	1,782	1,512	2,157	1,057	1,898	8,464	18,208	6,008	157	23
6.30	5.97	19.47	8.43	16.21	23.68	5.76	6.37	15.37	21.13	12.93	20.99	15.02	15.98	13.87	24
2	10	2	6	175	15	.....	.....	10	5	2	31	92	12	4	25
25,728	129,567	13,975	69,171	1,150,655	286,465	.....	.....	53,298	35,780	701	49,278	530,903	44,106	28,440	26
123,510	22,613	10,250	28,169	118,331	14,341	.....	.....	6,362	6,548	104	11,736	61,031	8,253	2,423	27
0.21	5.73	1.36	2.46	9.72	19.98	.....	.....	8.38	5.46	6.74	4.20	6.70	5.34	11.74	28
4	14	2	7	88	10	.....	.....	4	3	2	19	39	7	3	29
77,231	39,061	7,668	3,194	53,323	2,764	.....	.....	4,372	1,422	400	7,124	31,490	3,784	1,617	30
278,187	71,317	10,250	52,489	54,321	3,506	.....	.....	3,496	1,270	401	13,179	19,147	8,856	2,309	31
8,122	4,365	666	1,685	6,286	1,289	160	184	440	262	149	1,066	1,335	349	356	32
359,102	486,969	114,432	374,096	349,280	35,863	29,137	15,742	47,563	35,716	10,521	44,648	83,687	27,831	8,439	33
8,025	4,241	658	1,619	5,988	1,203	159	180	422	252	139	1,017	1,266	335	346	34
353,586	392,292	111,455	359,067	337,891	34,461	29,137	15,611	45,952	33,942	10,312	42,357	81,311	26,911	8,203	35
305	163	12	89	643	89	10	16	41	28	12	197	215	18	10	36
339	202	19	103	1,263	155	13	19	46	32	15	425	494	46	10	37
4,500	18,669	779	5,426	17,860	1,800	717	419	1,480	1,222	254	4,651	6,120	827	277	38
8,062	4,269	662	1,627	6,079	1,234	160	183	428	255	141	1,021	1,294	340	348	39
353,969	395,252	112,437	359,067	338,173	34,521	29,137	15,611	46,084	33,964	10,312	42,392	81,344	26,917	8,203	40
47	86	3	51	19	7	.....	.....	7	2	2	15	13	5	8	41
4,551	91,118	1,295	14,720	7,072	994	.....	.....	131	1,217	33	105	1,465	895	236	42
13	10	1	7	36	123	.....	.....	5	5	6	30	28	4	.....	43
582	599	700	309	4,035	348	.....	.....	262	1,719	104	600	878	19	.....	44
3,632	3,708	654	1,496	5,910	1,164	155	178	420	250	140	1,033	1,247	320	344	45
184,591	403,641	113,535	335,689	331,655	33,802	20,521	15,453	46,050	34,345	9,253	42,897	77,440	25,707	8,282	46
114	52	.....	32	68	13	3	3	6	3	.....	13	22	5	.....	47
3,459	27,494	.....	10,400	5,528	403	361	256	707	512	.....	613	2,190	486	.....	48
3,984	9,579	.....	5,484	1,922	158	185	33	265	129	.....	261	731	160	.....	49
4,342	583	.....	149	82	1	.....	.....	10	7	.....	17	41	19	.....	50
167,068	46,255	897	22,523	10,175	1,500	70	.....	541	730	.....	1,268	3,326	1,478	157	51
34	22	2	8	83	30	1	3	4	2	2	3	25	5	2	52
1,283	751	58	165	2,163	601	17	23	44	26	55	314	312	75	197	53
3,246	1,038	80	196	1,589	337	3	43	92	34	31	363	368	85	94	54
2,229	1,002	100	275	1,006	170	19	36	102	45	19	189	276	67	38	55
719	579	122	244	544	62	32	36	61	38	11	97	147	38	8	56
395	529	134	319	495	56	40	25	73	62	11	97	112	42	8	57
160	309	120	309	312	26	34	13	47	37	14	33	76	27	8	58
30	83	36	103	73	5	8	4	14	15	6	7	11	9	1	59
26	52	14	66	21	2	.....	.....	3	3	.....	.....	8	1	.....	60

Drainage Basin Table 1 (Part 3 of 4).--IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are included in each drainage basin in which they had irrigation works, but only once in State total. For interbasin and interstate enterprises, data

Item (For definitions and explanations, see text)	Santa Maria River and basins south (II-G)--Continued			Great Basin, total III	Northwest Great Basin (III-A)			South Central Great Basin (III-C)		
	San Dieguito River	San Diego River	Sweetwater River		Total	Cowhead and Warner Lakes area	Surprise Valley and Madeline Plains	Total	Honey Lake	
	(11)	(12)	(13)		(3)	(4)	(1)			
ALL ENTERPRISES										
Cost of water to farms, 1949:¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	232	401	86	1,270	144	4	140	1,126	126
2	Cost.....dollars..	248,981	242,317	105,975	1,723,438	4,945	.....	4,945	1,718,493	35,937
3	Area irrigated direct.....acres..	9,514	6,985	2,807	212,984	38,164	819	37,345	174,820	34,666
4	Cost per acre irrigated direct.....dollars..	26.17	34.69	37.75	8.09	0.13	.....	0.13	9.83	1.04
5	Total cost per irrigated acre.....dollars..	26.40	35.29	38.09	8.19	0.13	.....	0.13	9.97	1.05
6	Total cost per acre-foot of water.....dollars..	18.86	29.41	(³)	3.15	(³)	(³)	(³)	3.83	(³)
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	14	22	5	380	139	4	135	241	99
8	Cost.....acres irrigated..	163	685	55	127,447	36,832	819	36,013	90,615	26,259
9	\$1.00-\$1.99.....enterprises reporting..	3	2	2	19	1	.....	1	18	6
10	Cost.....acres irrigated..	438	36	30	10,435	636	.....	636	9,799	1,400
11	\$2.00-\$4.99.....enterprises reporting..	19	19	5	40	1	.....	1	39	9
12	Cost.....acres irrigated..	537	421	59	8,985	500	.....	500	8,485	6,399
13	\$5.00-\$9.99.....enterprises reporting..	25	32	9	43	3	.....	3	40	4
14	Cost.....acres irrigated..	897	600	472	3,428	196	.....	196	3,232	170
15	\$10.00 and over.....enterprises reporting..	171	326	65	788	.....	.....	.....	788	8
16	Cost.....acres irrigated..	7,479	5,244	2,191	62,689	.....	.....	.....	62,689	438
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	218	386	84	1,267	143	4	139	1,124	124
18	Cost.....dollars..	246,551	239,528	105,205	1,704,353	4,945	0	4,945	1,699,408	35,307
19	Area supplied primary irrigation.....acres..	9,430	6,867	2,782	210,500	38,124	819	37,305	172,376	34,213
20	Cost per acre supplied.....dollars..	26.15	34.88	37.82	8.10	0.13	0.00	0.13	9.86	1.03
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	14	15	2	13	1	.....	1	12	3
22	Cost.....dollars..	2,430	2,789	770	19,085	0	.....	0	19,085	630
23	Area supplied supplemental irrigation.....acres..	84	119	25	2,484	40	.....	40	2,444	453
24	Cost per acre supplied.....dollars..	28.93	23.44	30.80	7.68	0.00	.....	0.00	7.81	1.39
Cost to farms for purposes other than operation and maintenance:⁴										
25	Enterprises reporting.....enterprises..	2	4	.....	3	.....	.....	.....	3	1
26	Cost.....dollars..	24,484	97,200	.....	20,492	.....	.....	.....	20,492	3,600
27	Area irrigated direct.....acres..	4,805	2,728	.....	7,193	.....	.....	.....	7,193	5,493
28	Cost per acre irrigated.....dollars..	5.10	35.63	.....	2.85	.....	.....	.....	2.85	0.66
Arrearage in payments by farms, Jan. 1, 1950:⁴										
29	Enterprises reporting.....enterprises..	.....	2	.....	4	.....	.....	.....	4	1
30	Amount.....dollars..	.....	350	.....	5,600	.....	.....	.....	5,600	2,000
31	Area irrigated direct.....acres..	.....	2,157	.....	21,178	.....	.....	.....	21,178	5,493
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	231	398	87	1,259	142	4	138	1,117	125
33	Area irrigated.....acres..	4,468	4,228	1,437	179,260	34,581	819	33,762	144,679	29,173
34	Complete-system enterprises ⁶.....enterprises..	221	384	82	1,237	142	4	138	1,095	120
35	Area irrigated.....acres..	4,352	4,108	1,228	168,365	34,581	819	33,762	133,784	28,181
Other farms irrigated:										
36	Enterprises reporting.....number..	2	4	2	10	1	.....	1	9	1
37	Number of other farms.....farms..	2	4	2	18	1	.....	1	17	1
38	Area irrigated in other farms.....acres..	5	85	3	331	40	.....	40	291	10
Enterprises by origin of water supply:⁶										
39	No water from other enterprises.....enterprises reporting..	223	386	84	1,245	142	4	138	1,103	120
40	Part of water from other enterprises.....acres irrigated..	4,352	4,108	1,228	168,385	34,581	819	33,762	133,804	28,181
41	All of water from other enterprises.....enterprises reporting..	7	5	2	9	.....	.....	.....	9	4
42	Part of water from other enterprises.....acres irrigated..	115	73	152	9,581	.....	.....	.....	9,581	592
43	All of water from other enterprises.....enterprises reporting..	1	7	1	5	.....	.....	.....	5	1
44	Part of water from other enterprises.....acres irrigated..	1	47	57	1,294	.....	.....	.....	1,294	400
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	215	381	83	1,247	141	4	137	1,106	123
46	Part primary, part supplemental.....acres irrigated..	4,384	4,109	1,412	178,644	34,541	819	33,722	144,103	28,803
47	Primary irrigation.....enterprises reporting..	.....	.....	.....	2	.....	.....	.....	2	.....
48	Supplemental irrigation.....acres irrigated..	.....	.....	.....	133	.....	.....	.....	133	.....
49	All supplemental.....enterprises reporting..	.....	.....	.....	73	.....	.....	.....	73	.....
50	Part primary, part supplemental.....acres irrigated..	14	15	2	3	1	.....	1	2	2
51	Supplemental irrigation.....acres irrigated..	84	119	25	410	40	.....	40	370	370
Enterprises by number of acres irrigated:⁶										
52	None.....enterprises reporting..	2	2	2	7	.....	.....	.....	7	.....
53	1-9 acres.....enterprises reporting..	146	296	57	197	13	.....	13	184	14
54	10-29 acres.....enterprises reporting..	51	67	21	195	8	.....	8	187	10
55	30-59 acres.....enterprises reporting..	22	21	2	268	22	.....	22	246	13
56	60-99 acres.....enterprises reporting..	3	8	3	215	17	.....	17	198	18
57	100-199 acres.....enterprises reporting..	2	2	1	169	38	3	35	131	26
58	200-499 acres.....enterprises reporting..	4	2	1	135	25	1	24	110	30
59	500-999 acres.....enterprises reporting..	1	.....	.....	40	12	.....	12	28	9
60	1,000 acres or more.....enterprises reporting..	.....	.....	.....	33	7	.....	7	26	5

¹Enterprises with reported cost of \$0 in 1949 are included.

²Average cost per irrigated acre divided by calculated average quantity of water per acre. (Drainage Basin Table 1, Part 4, line 66.)

³Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.

⁴Not reported by single-farm enterprises.

⁵Cost and area irrigated not comparable because of ground water replenishment enterprise. (See text.)

⁶For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

represent characteristics within the drainage basin or State, except where otherwise noted. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Table with columns for South Central Great Basin (III-C)-Continued and Gulf of California: Colorado River below Lees Ferry, Arizona (IV-B). Sub-columns include Walker River, Mono Lake-Owens Valley area, Southwest Desert, Antelope Valley, Mojave River, Colorado River direct (Below Imperial Dam, Above Imperial Dam), and Salton Sea area (Imperial Valley, White-water River). Rows list various metrics (e.g., 5, 7, 16, 7, 9, 78, 98, 568, 228, 570, 19, 5, 14, 551, 21, 530) and acreage values for 1950 and 1940 across different basins.

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only

Item (For definitions and explanations, see text)	The State ¹	South Pacific Coast total ¹	Klamath River (II-A)				Klamath River to Santa Maria River excluding Central Valley (II-B)	
			Total ¹	Klamath River direct	Scott River	Shasta River	Total ¹	Pacific Coast direct
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ².....enterprises..	1,506	1,459	28	5	10	10	54	7
2 Area irrigated direct.....acres..	3,135,281	2,598,963	81,652	4,054	5,005	14,372	19,869	1,036
3 Multiple-purpose enterprises ².....enterprises..	206	195	3	1	1	1	8	2
4 Area irrigated direct.....acres..	1,558,517	1,113,815	61,478	402	2,998	2,998	2,977	433
5 Complete-system enterprises ².....enterprises..	1,158	1,130	21	5	10	4	34	1
6 Area irrigated direct.....acres..	1,630,178	1,545,721	12,240	4,054	5,005	3,038	14,557	26
7 Enterprises by origin of water supply: ²								
8 No water from other enterprises.....enterprises reporting..	1,321	1,283	28	5	10	10	49	7
9 Part of water from other enterprises.....acres irrigated..	2,219,344	2,130,322	81,652	4,054	5,005	14,372	18,501	1,036
10 Part of water from other enterprises.....enterprises reporting..	83	82					3	
11 All water from other enterprises.....acres irrigated..	286,251	286,051					1,255	
12 Enterprises by delivery of irrigation water: ²								
13 No water delivered.....enterprises reporting..	10	10					2	
14 Water delivered direct to farms only.....acres irrigated..	1,181	1,150	17	4	7	4	35	1
15 Water delivered to farms and to other enterprises.....enterprises reporting..	613,548	592,908	7,778	3,652	945	3,038	8,177	26
16 Water delivered to other enterprises only.....acres irrigated..	280	270	11	1	3	6	15	6
17 Enterprises by primary and supplemental irrigation: ³	2,521,733	2,006,055	73,874	402	4,060	11,334	11,692	1,010
18 All primary.....enterprises reporting..	35	29					2	
19 Part primary, part supplemental.....acres irrigated..	1,059	1,033	26	4	10	9	39	5
20 Primary irrigation.....enterprises reporting..	1,702,779	1,247,113	78,279	3,679	5,005	11,374	13,710	534
21 Supplemental irrigation.....acres irrigated..	372	359	2	1	1	1	11	2
22 All supplemental.....enterprises reporting..	1,145,009	1,068,269	2,923	175	2,748	3,672	3,672	362
23 Enterprises by number of farms irrigated direct: ²	226,163	222,251	450	200		250	2,487	140
24 None.....enterprises reporting..	27	27						
25 1-99.....enterprises reporting..	61,330	61,330						
26 1-3.....enterprises reporting..	45	39					4	
27 4-9.....enterprises reporting..	394	383	15	2	8	4	12	2
28 10-29.....enterprises reporting..	441	431	4	1	1	2	17	4
29 30-99.....enterprises reporting..	351	342	5	2	1	2	14	
30 100-299.....enterprises reporting..	169	165	3	1	1	2	6	1
31 300-999.....enterprises reporting..	61	58					1	
32 1,000 or more.....enterprises reporting..	32	29	1					
33 Enterprises by acres irrigated direct: ²	13	12						
34 None.....enterprises reporting..	45	39					4	
35 1-99 acres.....enterprises reporting..	606	591	12	2	5	3	22	5
36 100-999 acres.....enterprises reporting..	594	581	7	2	3	2	24	2
37 1,000-2,999 acres.....enterprises reporting..	120	115	6		2	4	1	
38 3,000-9,999 acres.....enterprises reporting..	87	85	2	1		1	3	
39 10,000-29,999 acres.....enterprises reporting..	34	32						
40 30,000 or more.....enterprises reporting..	20	16	1					
41 Quantities of water reported, 1949:								
42 Total obtained from all sources ⁴.....enterprises reporting..	1,301	1,258	8	1	1	5	36	3
43 percent of all enterprises reporting..	3	3	2	1	1	4	1	(5) 3
44 Surface sources.....acres-foot..	24,361,853	15,700,328	684,220	11,500	240	61,000	5,400,241	5,609
45 Pumped wells.....acres-foot..	18,528,632	13,693,300	675,820	3,100	240	61,000	5,381,766	5,609
46 Other enterprises.....acres-foot..	974	952	1	1	1		25	
47 Conveyance loss ⁴.....acres-foot..	1,168,621	1,135,025	8,400	8,400			17,810	
48 Delivered: ⁴	172	162					4	
49 Direct to farms.....acres-foot..	4,664,600	872,003					665	
50 To other enterprises.....acres-foot..	431	413	7	1	1	5	9	
51 For use other than irrigation.....acres-foot..	4,889,211	3,023,771	303,515	1,575		34,450	538,186	
52 Delivered direct to farms for primary irrigation: ³								
53 Enterprises reporting.....enterprises..	1,277	1,239	8	1	1	5	35	3
54 Quantity delivered.....acres-foot..	8,962,033	6,342,480	231,720	7,600	240	22,790	37,252	602
55 Area supplied primary irrigation.....acres..	246	235	5			4	10	2
56 Quantity supplied per acre.....acres-foot..	5,663,456	1,616,951	146,200			3,300	440,116	507
57 Delivered direct to farms for supplemental irrigation: ³	189	183	3	1		2	5	1
58 Enterprises reporting.....enterprises..	4,847,153	4,717,126	2,785	2,325		460	4,384,687	4,500
59 Quantity delivered.....acres-foot..	1,252	1,217	8	1	1	5	35	3
60 Area supplied supplemental irrigation.....acres..	7,992,560	5,869,607	136,807	7,600	240	22,390	32,782	602
61 Quantity supplied per acre.....acres-foot..	2,720,156	2,191,432	73,187	3,115	80	11,914	15,522	440
62 Total quantity per irrigated acre ⁶.....acres-foot..	2.9	2.7	1.9	2.4	3.0	1.9	2.1	1.4
63 Enterprises reporting.....enterprises..	371	359				1	7	
64 Quantity delivered.....acres-foot..	428,412	411,530	400			400	4,230	
65 Area supplied supplemental irrigation.....acres..	281,321	277,438	250			250	2,285	
66 Quantity supplied per acre.....acres-foot..	1.5	1.5	1.6			1.6	1.9	
67 Total quantity per irrigated acre ⁶.....acres-foot..	3.1	2.9	1.9	2.4	3.0	1.9	2.1	1.4
68 Cost of water to farms for enterprises reporting quantity delivered, 1949: ³								
69 Average cost per acre-foot.....dollars..	20,009,191	16,080,235	226,147	15,568		62,369	169,829	4,175
70 Cost for supplemental irrigation.....dollars..	2.50	2.74	1.65	2.05		2.79	5.18	6.94
71 Average cost per acre-foot.....dollars..	1,528,250	1,492,804	1,600			1,600	11,154	
72 Measurement of water to farms, 1949: ³	3.57	3.63	4.00			4.00	2.64	
73 No water measured.....enterprises reporting..	825	805	18	3	8	6	23	6
74 Part of water measured.....acres irrigated..	675,100	609,299	16,416	3,560	3,610	9,195	2,901	647
75 All water measured.....acres irrigated..	40	36	1	1	1		1	
76	601,538	592,585	92	92			3,141	1
	558	541	7	1	2	3	28	1
	1,773,181	1,313,350	64,757	402	1,395	4,882	13,144	389

See footnotes at end of Drainage Basin Table 1, Part 4.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Klamath River to Santa Maria River excluding Central Valley (II-B)—Continued						Sacramento-San Joaquin Delta area (II-C)				Sacramento River (II-D)						
San Francisco Bay			Pajaro River	Salinas River	Central Valley, total ¹	Total ¹	Delta and west side lands	Consumnes River	Calaveras River area	Total ¹	Sacramento River direct			American River	Cache Creek	
Total ¹	Suisun Bay	Santa Clara Valley	(4)	(5)		(1)	(3)	(5)		Total	Below Colusa	Colusa to Red Bluff	Above Red Bluff	(2)	(4)	
	(3b)	(3d)								(1a)	(1b)	(1c)				
22	4	15	11	12	427	40	30	4	6	99	43	18	19	8	12	3
6,085	1,888	3,688	1,072	8,273	2,148,274	127,456	95,141	160	20,871	429,941	253,140	141,231	96,032	15,877	13,963	14,007
4	1	1	1	1	49	12	9	1	3	19	9	6	3	1	6	3
2,406	1,722	175	88	50	936,602	68,851	49,956	91	18,804	146,392	110,253	62,708	47,545	.....	7,836	.....
14	.....	13	9	267	.....	27	21	2	4	64	28	10	12	7	8	2
2,901	.....	2,698	1,072	7,236	1,274,533	103,878	72,354	69	20,171	247,174	131,683	81,458	34,348	15,877	9,826	166
18	1	14	11	11	341	39	29	4	6	83	37	15	16	8	9	3
4,929	1,722	2,698	1,072	8,061	1,740,329	126,621	94,306	160	20,871	380,848	218,202	126,023	76,902	15,877	10,200	14,007
2	1	.....	.....	.....	30	1	1	.....	.....	9	4	2	2	.....	2	.....
1,043	53	990	.....	212	241,552	835	835	.....	.....	42,139	31,423	14,904	16,519	.....	2,477	.....
2	2	.....	.....	.....	56	.....	.....	.....	.....	7	2	1	1	.....	1	.....
113	113	.....	.....	.....	166,393	.....	.....	.....	.....	6,954	2,915	304	2,611	.....	1,286	.....
1	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	3	12	9	9	260	21	17	1	2	54	23	8	11	5	7	2
2,862	166	2,493	1,072	4,217	378,387	25,932	24,527	3	1,367	90,436	46,013	19,110	23,248	3,655	4,824	166
4	1	.....	.....	.....	152	17	13	2	3	43	20	10	8	3	5	1
3,223	1,722	1,195	.....	4,056	1,769,887	101,524	70,614	157	19,504	339,505	207,127	122,121	72,784	12,222	9,139	13,841
1	.....	1	1	.....	9	2	.....	1	1	2	.....	.....	.....	.....	.....	.....
17	4	11	7	8	286	31	25	3	3	76	30	13	14	5	11	2
4,297	1,888	1,900	693	4,783	1,014,004	73,940	71,678	160	2,067	329,042	179,434	83,195	80,826	15,413	12,677	166
3	.....	3	2	.....	107	7	5	.....	.....	2	17	11	5	1	1	21
1,385	.....	1,385	335	1,590	885,298	49,220	20,998	.....	17,388	88,677	69,125	55,930	13,003	192	986	11,997
403	.....	403	44	1,900	190,011	4,296	2,465	.....	1,416	11,975	4,334	2,106	2,203	25	300	1,844
.....	.....	.....	.....	.....	18	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	58,961	.....	.....	.....	.....	247	247	.....	.....	247	.....	.....
2	.....	1	2	.....	15	2	.....	1	1	2	.....	.....	.....	.....	.....	.....
2	1	1	3	4	121	11	8	1	1	11	3	.....	2	1	.....	.....
6	1	5	4	3	106	8	5	1	2	26	9	3	4	2	2	.....
8	1	6	2	4	86	6	6	.....	.....	22	10	6	3	2	2	.....
3	.....	2	.....	1	51	5	5	.....	.....	17	9	4	5	.....	.....	.....
1	1	.....	.....	.....	28	6	5	1	.....	14	5	1	2	2	5	.....
.....	.....	.....	.....	.....	10	.....	.....	.....	.....	7	7	4	3	1	1	.....
.....	.....	.....	.....	.....	10	2	1	.....	2	.....	.....	.....	.....	.....	.....	.....
2	.....	1	2	.....	15	2	.....	1	1	2	.....	.....	.....	.....	.....	.....
7	2	5	5	4	102	4	1	2	.....	9	3	1	2	.....	1	.....
12	1	9	4	6	143	12	10	.....	2	39	13	4	5	5	6	.....
1	1	.....	.....	.....	64	9	8	.....	1	16	7	3	2	2	3	.....
.....	.....	.....	.....	2	59	6	5	1	.....	20	10	3	7	.....	1	.....
.....	.....	.....	.....	.....	30	5	5	.....	.....	11	8	5	2	1	1	.....
.....	.....	.....	.....	.....	14	2	1	.....	2	2	2	2	1	.....	.....	.....
18	3	14	5	8	351	27	20	2	5	55	31	15	14	3	8	2
5,358,882	5,333,516	24,599	1,501	19,919	13,957,738	6,402,822	6,030,061	25,324	567,423	7,932,737	7,331,269	1,210,614	604,169	5,519,117	120,815	127,524
4	1	2	1	1	190	26	19	2	5	48	28	15	11	3	5	.....
5,354,859	5,333,446	20,646	680	6,288	12,628,523	6,368,693	6,025,563	25,324	537,792	7,793,539	7,237,962	1,187,029	534,447	5,519,117	103,248	127,524
14	1	13	4	7	131	3	2	.....	1	6	3	.....	.....	.....	.....	.....
3,946	6	3,940	821	13,043	576,626	33,529	3,898	.....	29,631	18,534	14,123	103	14,020	.....	4,311	.....
3	2	.....	.....	.....	77	1	1	.....	.....	10	5	.....	.....	.....	.....	.....
77	64	13	.....	588	752,589	600	600	.....	.....	120,664	79,184	23,482	55,702	.....	13,256	.....
3	1	2	1	4	243	23	17	2	4	52	29	13	14	3	7	2
534,665	534,000	665	68	120	2,645,619	790,956	698,259	6,330	168,911	1,156,366	992,334	285,176	127,178	580,243	21,413	31,673
17	3	13	5	8	346	26	20	2	4	55	31	15	14	3	8	2
6,513	2,070	3,676	1,333	19,061	5,435,296	640,678	471,279	11,729	293,112	1,651,839	1,287,898	756,575	426,991	106,700	57,733	85,320
3	1	2	.....	3	122	13	9	1	4	25	12	7	3	2	3	.....
437,617	418,067	19,550	.....	730	1,290,925	536,844	481,144	300	57,400	627,998	585,805	127,438	40,000	418,367	13,656	10,531
3	1	2	1	.....	35	3	1	1	1	18	8	3	3	2	7	.....
4,380,087	4,379,379	708	100	.....	4,585,898	4,434,344	4,379,379	6,965	48,000	4,496,534	4,465,232	41,425	10,000	4,413,807	28,013	.....
17	3	13	5	8	329	26	20	2	4	52	30	15	14	2	8	2
5,909	1,830	3,312	1,220	15,308	5,082,937	368,253	212,329	253	98,851	1,554,062	919,151	573,169	241,282	104,700	30,953	60,287
5,121	1,783	3,135	680	5,878	1,793,569	110,554	80,328	69	19,288	330,651	185,343	119,073	51,702	14,568	12,622	12,147
1.2	1.0	1.1	1.8	2.6	2.8	3.3	2.6	3.7	5.1	4.7	5.0	4.8	4.7	7.2	2.5	5.0
2	.....	2	3	.....	115	6	4	.....	2	14	10	5	5	.....	1	.....
364	.....	364	113	3,753	351,966	15,705	7,679	.....	5,671	48,965	17,980	9,550	8,430	.....	690	10,583
348	.....	348	44	1,893	247,102	4,171	2,340	.....	1,416	11,820	4,309	2,106	2,203	.....	300	1,844
1.0	.....	1.0	2.6	2.0	1.4	3.8	3.3	.....	4.0	4.1	4.2	4.5	3.8	.....	2.3	5.7
1.2	1.0	1.1	1.8	2.7	3.0	3.3	2.6	3.7	5.2	4.8	5.1	4.9	4.8	7.2	2.5	5.3
57,571	8,452	47,119	7,478	60,605	9,404,780	1,049,250	810,982	1,226	184,319	2,481,528	1,424,381	955,948	376,433	92,000	147,047	134,342
9.74	4.62	14.23	6.13	3.96	1.85	2.85	3.82	4.85	1.86	1.60	1.55	1.67	1.56	0.88	4.75	2.23
3,520	.....	3,520	1,107	6,527	940,818	37,947	24,153	.....	11,597	63,925	29,310	20,880	8,430	.....	2,300	23,655
9.67	.....	9.67	9.80	1.74	2.67	2.42	3.15	.....	2.04	1.31	1.63	2.19	1.00	.....	3.33	2.24
7	2	3	5	4	231	29	23	2	3	46	22	10	12	1	5	.....
1,459	61	1,195	258	456	519,216	62,470	49,283	3	1,900	186,361	130,446	49,757	80,442	247	2,244	.....
.....	.....	.....	.....	.....	26	2	1	1	1	9	5	1	3	.....	.....	.....
.....	.....	.....	.....	3,141	584,407	19,899	5,134	91	14,674	63,179	32,791	14,543	6,273	11,975	.....	.....
14	2	11	5	7	134	7	5	1	1	28	13	7	2	4	7	1
4,033	1,827	1,900	724	4,676	968,017	44,800	40,604	66	4,130	157,159	78,999	67,028	9,034	2,937	11,719	13,841

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 4 of 4)—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only

Item (For definitions and explanations, see text)	Sacramento River (II-D)—Continued						
	Feather River					Pit River	
	Total ¹	Feather River direct	Yuba River	Butte Creek	Cow Creek	Total ¹	Pit River direct above Canby
		(5a)	(5c)	(6)	(8)		(9b)
MULTIPLE-FARM ENTERPRISES, 1950							
1 Multiple-farm enterprises, total number ².....enterprises..	25	21	8	9	9	10	7
2 Area irrigated direct.....acres..	58,066	43,969	9,303	40,743	2,891	31,529	30,941
3 Multiple-purpose enterprises ².....enterprises..	5	5	1	2			
4 Area irrigated direct.....acres..	10,758	4,738	2,492	4,610			
5 Complete-system enterprises ².....enterprises..	13	12	4	6			
6 Area irrigated direct.....acres..	40,260	32,223	6,771	22,916	2,232	27,156	26,956
Enterprises by origin of water supply: ²							
7 No water from other enterprises.....enterprises reporting..	19	16	6	7	9	10	7
8 acres irrigated..	48,546	40,499	6,781	39,271	2,891	31,529	30,941
9 Part of water from other enterprises.....enterprises reporting..	3	3	1	1			
10 acres irrigated..	7,381	1,361	2,492	858			
11 All water from other enterprises.....enterprises reporting..	3	2	1	1			
12 acres irrigated..	2,139	2,109	30	614			
Enterprises by delivery of irrigation water: ²							
13 No water delivered.....enterprises reporting..							
14 Water delivered direct to farms only.....enterprises reporting..	6	3	2	4		6	5
15 acres irrigated..	5,699	4,367	66	5,426	2,232	26,076	25,876
16 Water delivered to farms and to other enterprises.....enterprises reporting..	18	17	6	5		3	2
17 acres irrigated..	52,367	39,602	9,237	35,317	659	5,453	5,065
18 Water delivered to other enterprises only.....enterprises reporting..	1	1				1	1
Enterprises by primary and supplemental irrigation: ³							
19 All primary.....enterprises reporting..	19	16	7	8	7	8	7
20 acres irrigated..	50,710	36,613	9,303	36,991	2,321	31,141	30,941
21 Part primary, part supplemental.....enterprises reporting..	3	3		1		1	
22 Primary irrigation.....acres irrigated..	2,489	2,489		3,252	470	358	
23 Supplemental irrigation.....acres irrigated..	4,867	4,867		500	100	30	
24 All supplemental.....enterprises reporting..							
25 acres irrigated..							
Enterprises by number of farms irrigated direct: ²							
26 None.....enterprises reporting..	1	1				1	
27 1-3.....enterprises reporting..	5	2	3		1	1	1
28 4-9.....enterprises reporting..	3	2		2		5	3
29 10-29.....enterprises reporting..	5	4	2	1	1	3	3
30 30-99.....enterprises reporting..	8	8	2	3			
31 100-299.....enterprises reporting..	1	1		2			
32 300-999.....enterprises reporting..	2	3	1	1	1		
33 1,000 or more.....enterprises reporting..							
Enterprises by acres irrigated direct: ²							
34 None.....enterprises reporting..	1	1				1	
35 1-99 acres.....enterprises reporting..	3		3				
36 100-999 acres.....enterprises reporting..	6	6		3	7	4	2
37 1,000-2,999 acres.....enterprises reporting..	4	3	1			2	2
38 3,000-9,999 acres.....enterprises reporting..	6	5	3	2		2	2
39 10,000-29,999 acres.....enterprises reporting..	5	6	1	4	1	1	1
40 30,000 or more.....enterprises reporting..							
Quantities of water reported, 1949: ³							
41 Total obtained from all sources.....enterprises reporting..	18	16	6	6	1	1	1
42 percent of all enterprises reporting..	1	1	8	2	1	(5)	1
43 Surface sources.....acres irrigated..	1,054,969	1,276,319	294,718	685,575	179,404	10,000	10,000
44 reporting..	17	15	6	6	1	1	1
45 Pumped wells.....acres irrigated..	1,006,913	1,228,263	274,718	685,307	179,404	10,000	10,000
46 reporting..				1			
47 Other enterprises.....acres irrigated..				100			
48 reporting..	2	2	1	1			
49 Conveyance loss ⁴.....acres irrigated..	48,056	48,056	20,000	168			
50 reporting..	18	16	6	6	1		
51 Delivered: ⁴.....acres irrigated..	263,639	325,279	104,119	132,273	44,676		
52 Direct to farms.....enterprises reporting..	18	16	6	6	1	1	1
53 acre-feet..	626,328	747,565	164,102	446,327	100,000	10,000	10,000
54 To other enterprises.....enterprises reporting..	14	13	5	4			
55 acre-feet..	122,262	132,254	26,497	71,520	300		
56 For use other than irrigation.....enterprises reporting..	5	6		3			
57 acre-feet..	42,740	71,221		35,455	34,428		
Delivered direct to farms for primary irrigation: ³							
58 Enterprises reporting.....enterprises..	16	15	5	6		1	1
59 Quantity delivered.....acre-feet..	221,210	157,252	42,758	240,879		10,000	10,000
60 Area supplied primary irrigation.....acres..	47,818	33,787	9,237	36,393		20,726	20,726
61 Quantity supplied per acre.....acre-feet..	4.6	4.7	4.6	6.6		0.5	0.5
Delivered direct to farms for supplemental irrigation: ³							
62 Enterprises reporting.....enterprises..	3	3		1			
63 Quantity delivered.....acre-feet..	13,078	13,078		6,634			
64 Area supplied supplemental irrigation.....acres..	4,867	4,867		500			
65 Quantity supplied per acre.....acre-feet..	2.7	2.7		13.3			
66 Total quantity per irrigated acre ⁶.....acre-feet..	4.7	4.8	4.6	6.7		0.5	0.5
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³							
67 Cost for primary irrigation.....dollars..	347,666	216,217	63,329	303,173		15,235	15,235
68 Average cost per acre-foot.....dollars..	1.57	1.37	1.48	1.26		1.52	1.52
69 Cost for supplemental irrigation.....dollars..	4,913	4,913		3,747			
70 Average cost per acre-foot.....dollars..	0.38	0.38		0.56			
Measurement of water to farms, 1949: ³							
71 No water measured.....enterprises reporting..	14	12	3	4	3	4	3
72 acres irrigated..	22,199	19,180	3,019	25,067	830	5,575	5,375
73 Part of water measured.....enterprises reporting..	3	3	1	4			
74 acres irrigated..	15,570	15,540	30	14,818			
75 All water measured.....enterprises reporting..	6	5	3	1		2	2
76 acres irrigated..	14,939	6,533	4,878	858		21,201	21,201

See footnotes at end of Drainage Basin Table 1, Part 4.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

San Joaquin River (II-E)											San Joaquin Valley above San Joaquin River (II-F)				
Total ¹	San Joaquin River direct				Stani- slaus River (2)	Tuolumne River (3)	Los Banos Creek (4)	Merced River (5)	Chow- chilla and Fresno Rivers (7)	Total ¹	Fresno Slough (1)	Kings River (3)	Kaweah and Tule Rivers (4)	Deer Creek- White River area (5)	Kern River and Buena Vista Lake (6)
	Total	Below Newman	Newman to Mendota	Above Mendota											
	(1a)	(1b)	(1c)	(2)											
55	33	12	7	14	8	6	3	5	11	245	41	27	123	6	54
844,934	352,812	85,085	215,396	52,331	79,887	180,676	46,692	68,536	33,938	745,943	179,523	295,237	168,448	10,508	92,227
13	7	4	1	2	4	3	1	2	2	14	2	3	4	5	3
564,724	154,842	38,948	75,275	40,619	76,703	151,307	33,045	62,697	4,405	156,635	6,925	122,163	67	74	27,400
32	22	10	2	10	6	4	4	4	2	150	10	16	74	5	46
585,266	182,669	72,730	63,550	46,389	79,062	173,614	.....	62,795	5,401	338,215	54,816	197,820	37,275	10,508	37,796
26	27	12	4	11	7	5	1	3	5	192	16	23	99	5	53
680,660	277,649	85,085	146,175	46,389	79,571	174,466	33,045	27,082	7,122	552,200	80,917	287,437	87,116	7,976	88,754
8	4	.....	2	.....	.....	1	.....	.....	.....	13	2	.....	10	.....	9
119,804	42,665	.....	37,323	5,342	.....	6,210	12,500	41,454	16,975	78,774	27,760	.....	48,482	2,532	.....
9	2	.....	1	.....	.....	.....	.....	.....	.....	40	4	.....	14	.....	11
44,470	32,498	.....	31,898	600	316	.....	1,147	.....	9,841	114,969	70,846	7,800	32,850	.....	3,473
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	5	.....	13
28	18	7	3	8	3	2	2	2	2	158	28	13	73	3	42
153,664	129,958	50,962	78,634	362	312	6,647	13,647	98	2,334	108,355	59,211	7,918	19,074	258	21,894
26	15	5	4	6	5	4	1	3	8	77	12	13	44	2	17
691,270	222,854	34,123	136,762	51,969	79,575	174,029	33,045	68,438	31,604	637,588	120,312	287,319	149,374	10,250	70,333
1	.....	.....	.....	.....	.....	.....	.....	.....	1	4	1	1	1	1	18
36	21	8	3	10	7	5	3	4	5	148	19	15	74	4	38
418,062	181,313	55,452	114,203	11,658	54,162	64,763	46,692	62,795	7,669	192,960	47,752	49,769	43,763	7,976	43,700
14	8	3	4	1	1	1	.....	1	5	71	13	10	35	1	14
398,046	150,624	24,424	86,453	39,747	24,167	114,372	.....	4,851	23,494	349,355	72,694	206,439	37,272	2,208	30,742
28,772	20,821	5,209	14,740	872	1,558	1,541	.....	890	2,775	144,968	40,390	38,996	47,882	324	17,376
1	1	.....	.....	1	.....	.....	.....	.....	.....	16	8	1	7	.....	24
54	54	.....	.....	54	.....	.....	.....	.....	.....	58,660	18,687	33	39,531	.....	409
1	.....	.....	.....	.....	.....	.....	.....	.....	1	10	1	1	6	1	26
15	9	1	.....	8	3	.....	.....	2	1	84	7	8	44	.....	25
6	3	2	.....	1	.....	1	.....	.....	2	66	8	7	28	3	20
13	7	3	4	.....	1	.....	.....	1	5	45	12	2	26	.....	5
5	5	2	1	2	.....	.....	.....	1	1	27	7	4	14	1	3
7	4	1	1	2	.....	2	.....	1	1	7	4	2	3	1	31
1	1	1	1	.....	.....	.....	.....	.....	.....	2	1	.....	1	.....	32
7	4	2	1	.....	3	3	1	.....	.....	4	1	3	1	.....	33
1	.....	.....	.....	.....	.....	.....	.....	.....	1	10	1	1	6	1	34
12	8	.....	.....	8	2	.....	.....	2	.....	77	2	8	49	2	16
9	3	2	.....	1	2	.....	.....	.....	3	83	13	6	38	1	25
7	2	1	.....	1	1	1	1	.....	3	36	7	6	17	1	6
9	6	3	2	1	.....	2	.....	1	2	27	12	3	10	1	5
7	7	4	1	2	.....	.....	.....	.....	2	9	6	.....	2	.....	39
10	7	2	4	1	3	3	2	2	.....	3	.....	3	1	.....	40
47	29	10	7	12	8	6	3	9	9	234	38	27	117	6	53
1	2	8	4	1	4	2	3	1	1	1	2	.....	3	1	42
14,666,161	12,919,387	6,249,948	872,306	5,797,133	861,753	1,444,011	535,087	1,398,926	253,480	7,266,714	554,799	6,111,616	5,976,447	26,268	398,246
30	20	10	6	4	7	6	2	3	3	98	15	52	1	20	44
13,906,083	12,684,029	6,249,708	763,088	5,671,233	743,562	1,165,194	509,503	1,117,400	59,998	6,795,874	364,840	6,090,824	5,775,657	500	270,477
18	14	2	4	8	2	4	.....	2	1	107	4	9	57	5	32
397,620	25,403	240	17,042	8,121	114,691	270,657	.....	257,526	3,600	164,257	47,865	4,094	63,729	25,268	23,301
16	6	.....	3	3	1	2	.....	1	6	51	24	4	23	1	48
362,458	209,955	.....	92,176	117,779	3,500	8,160	25,584	24,000	189,882	306,583	142,094	16,698	137,061	500	14,468
37	23	10	7	6	8	6	3	3	5	143	35	24	70	1	40
2,098,683	1,590,787	745,807	178,341	666,639	310,766	438,061	108,224	323,061	90,677	1,016,994	119,433	746,017	683,479	885	104,122
47	29	10	7	12	8	6	3	9	9	230	37	26	116	5	53
2,734,058	1,584,382	651,562	624,816	308,004	530,921	983,877	379,472	1,000,100	87,397	1,088,288	256,837	471,269	306,072	22,983	165,790
24	14	5	4	5	5	4	1	3	7	71	10	14	39	3	11
1,035,029	980,636	470,767	66,758	443,111	18,066	22,031	45,000	40,565	75,406	780,322	178,529	514,951	607,414	2,400	36,706
6	5	3	1	1	1	1	1	1	.....	13	.....	6	.....	6	56
8,798,391	8,763,582	4,381,812	2,391	4,379,379	2,000	42	2,391	35,200	.....	4,381,110	4,379,379	4,379,482	.....	1,628	57
43	25	9	7	9	8	6	3	3	9	215	30	25	108	5	51
2,354,704	732,660	209,013	456,723	66,924	247,164	637,165	103,464	259,630	52,933	805,918	172,831	331,261	127,404	22,117	152,305
811,511	328,037	76,057	200,656	51,324	78,329	179,136	46,692	67,548	30,563	540,853	119,886	256,208	80,343	10,184	74,232
2.9	2.2	2.7	2.3	1.3	3.2	3.6	2.2	3.8	1.7	1.5	1.4	1.3	1.6	2.2	2.1
13	8	2	4	2	1	1	.....	1	4	84	19	11	42	1	15
64,836	43,943	11,102	31,624	1,217	4,538	4,134	.....	4,080	4,911	222,460	62,659	54,613	90,837	866	13,485
27,926	19,975	4,309	14,740	926	1,558	1,541	.....	890	2,775	203,185	58,659	39,029	87,413	324	17,760
2.3	2.2	2.6	2.1	1.3	2.9	2.7	.....	4.6	1.8	1.1	1.1	1.4	1.0	2.7	0.8
3.2	2.6	2.9	2.6	1.9	3.5	3.8	2.2	3.9	2.1	1.8	2.0	2.0	1.9	2.2	2.2
4,065,103	1,987,607	911,640	971,082	104,885	477,658	609,737	146,768	247,074	192,901	1,808,899	347,726	427,244	505,762	212,583	315,584
1.73	2.71	4.36	2.13	1.57	1.93	0.96	1.42	0.95	3.64	2.24	2.01	1.29	3.97	9.61	2.07
160,088	94,944	16,642	76,622	1,680	9,430	3,227	.....	2,273	46,217	678,858	111,595	69,553	367,420	14,812	115,478
2.47	2.16	1.50	2.42	1.38	2.08	0.78	.....	0.56	9.41	3.05	1.27	1.27	4.04	17.10	8.56
19	11	2	.....	9	3	1	.....	3	.....	139	32	15	63	4	24
18,334	5,305	4,943	.....	362	312	6,210	.....	5,839	.....	252,051	136,626	15,463	94,480	258	5,224
7	5	1	3	1	2	.....	.....	1	1	10	1	3	6	.....	73
274,212	124,828	5,575	78,634	40,619	22,408	.....	12,500	26,984	5,767	227,117	14,179	206,353	6,585	.....	74
26	16	8	4	4	3	4	.....	2	9	81	8	8	42	2	30
549,310	222,433	74,321	136,762	11,350	57,167	174,029	34,192	35,713	25,776	216,748	71,956	47,539	10,250	87,003	76

Drainage Basin Table 1 (Part 4 of 4).—IRRIGATION ENTERPRISES: NUMBER AND

[Interbasin enterprises are counted in each drainage basin in which they had irrigation works, but only

Item (For definitions and explanations, see text)	Santa Maria River and basins south (II-G)							
	Total ¹	Pacific Coast direct	Santa Ynez River	Santa Clara River	Colle- guas Creek	Los Angeles River	San Gabriel River	Santa Ana River
		(1)	(3)	(4)	(5)	(6)	(7)	(8)
MULTIPLE-FARM ENTERPRISES, 1950								
Multiple-farm enterprises, total number ².....enterprises..	951	63	3	49	27	21	249	495
Area irrigated direct.....acres..	349,168	21,822	1,569	21,225	15,255	35,406	67,626	154,271
Multiple-purpose enterprises ².....enterprises..	136	21	.....	4	5	7	27	70
Area irrigated direct.....acres..	112,758	9,986	.....	2,116	1,426	32,102	17,301	38,260
Complete-system enterprises ².....enterprises..	808	52	2	38	24	20	214	423
Area irrigated direct.....acres..	244,391	11,656	134	12,634	11,061	34,515	41,370	113,053
Enterprises by origin of water supply: ²								
No water from other enterprises.....enterprises reporting..	866	58	3	46	26	21	225	448
acres irrigated.....	289,840	18,441	1,569	19,070	15,123	35,406	49,350	126,144
Part of water from other enterprises.....enterprises reporting..	49	3	.....	2	1	.....	17	23
acres irrigated.....	43,244	1,877	.....	2,045	132	.....	16,287	18,043
All water from other enterprises.....enterprises reporting..	36	2	.....	1	.....	.....	7	24
acres irrigated.....	16,084	1,504	.....	110	.....	.....	1,989	10,084
Enterprises by delivery of irrigation water: ²								
No water delivered.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	2
Water delivered direct to farms only.....enterprises reporting..	838	52	2	38	23	18	223	443
acres irrigated.....	198,566	11,905	134	12,832	6,990	4,803	41,179	102,085
Water delivered to farms and to other enterprises.....enterprises reporting..	93	8	1	9	3	3	22	43
acres irrigated.....	150,602	9,917	1,435	8,393	8,265	30,603	26,447	52,186
Enterprises by primary and supplemental irrigation: ³								
All primary.....enterprises reporting..	683	45	1	40	22	15	185	353
acres irrigated.....	141,120	18,608	21	12,660	13,578	3,207	26,976	50,909
Part primary, part supplemental.....enterprises reporting..	239	15	1	7	4	6	59	125
Primary irrigation.....acres irrigated.....	176,376	2,574	69	7,214	1,479	31,569	33,324	89,211
Supplemental irrigation.....acres irrigated.....	29,303	640	44	1,351	198	630	7,234	13,309
All supplemental.....enterprises reporting..	9	.....	.....	.....	.....	.....	1	8
acres irrigated.....	2,369	.....	1,435	.....	.....	.....	92	842
Enterprises by number of farms irrigated direct: ²								
None.....enterprises reporting..	20	3	.....	2	1	.....	4	9
1-3.....enterprises reporting..	235	9	.....	17	6	5	55	142
4-9.....enterprises reporting..	304	17	2	14	8	4	71	174
10-29.....enterprises reporting..	237	17	.....	10	9	6	73	99
30-99.....enterprises reporting..	105	10	1	5	3	3	30	47
100-299.....enterprises reporting..	30	2	.....	.....	.....	.....	10	16
300-999.....enterprises reporting..	18	4	.....	.....	.....	.....	6	7
1,000 or more.....enterprises reporting..	2	1	.....	1	.....	.....	.....	1
Enterprises by acres irrigated direct: ²								
None.....enterprises reporting..	20	3	.....	2	1	.....	4	9
1-99 acres.....enterprises reporting..	455	23	1	14	8	9	119	270
100-999 acres.....enterprises reporting..	407	27	1	25	15	9	110	186
1,000-2,999 acres.....enterprises reporting..	45	7	.....	4	1	2	13	18
3,000-9,999 acres.....enterprises reporting..	21	2	1	3	2	.....	3	10
10,000-29,999 acres.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	2
30,000 or more.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	.....
Quantities of water reported, 1949:								
Total obtained from all sources ⁴.....enterprises reporting..	864	55	1	44	25	17	229	450
percent of all enterprises reporting..	12	4	1	9	9	10	17	25
Surface sources.....enterprises reporting..	1,014,575	159,969	110	128,709	30,360	84,790	185,809	500,092
Pumped wells.....enterprises reporting..	80	13	1	8	1	4	15	32
Other enterprises.....enterprises reporting..	363,637	117,201	110	91,566	18	78,656	43,325	127,867
Conveyance loss ⁴.....enterprises reporting..	795	47	.....	38	25	15	217	416
Delivered: ⁴	532,189	34,723	.....	34,270	30,206	6,134	110,291	302,725
Direct to farms.....enterprises reporting..	81	5	.....	3	1	.....	22	45
To other enterprises.....enterprises reporting..	118,749	8,045	.....	2,873	136	.....	32,193	69,500
For use other than irrigation.....enterprises reporting..	153	15	.....	9	5	.....	27	82
Delivered direct to farms for primary irrigation: ³	70,451	11,307	.....	2,626	207	1,769	12,624	37,004
Quantity delivered.....acre-feet..	851	55	1	43	25	19	226	440
Area supplied primary irrigation.....acres..	663,212	106,751	110	107,277	26,130	74,574	126,245	344,406
Quantity supplied per acre.....acre-feet..	99	7	.....	11	2	.....	23	50
Delivered direct to farms for supplemental irrigation: ³	157,777	10,565	.....	12,504	3,740	560	32,113	92,219
Quantity delivered.....acre-feet..	141	17	.....	4	3	.....	26	83
Area supplied supplemental irrigation.....acres..	123,135	31,346	.....	6,302	283	7,887	14,827	26,463
Quantity supplied per acre.....acre-feet..	846	55	1	43	25	19	226	436
Total quantity per irrigated acre ⁶.....acre-feet..	617,081	31,393	110	35,871	25,828	73,579	99,928	301,438
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³	309,154	19,838	21	19,573	14,224	34,402	58,584	136,952
Average cost per acre-foot.....dollars..	2.0	1.6	5.2	1.8	1.8	2.1	1.7	2.2
Cost for primary irrigation.....dollars..	236	15	.....	7	4	5	57	125
Average cost per acre-foot.....dollars..	54,934	1,449	.....	2,108	302	785	11,979	30,506
Cost for supplemental irrigation.....dollars..	27,801	640	.....	1,351	198	600	7,150	13,492
Average cost per acre-foot.....dollars..	2.0	2.3	.....	1.6	1.5	1.3	1.7	2.3
Cost for use other than irrigation.....dollars..	2.1	1.7	5.2	1.8	1.8	2.2	1.8	2.4
Average cost per acre-foot.....dollars..	6,279,479	462,723	.....	334,815	231,718	519,123	1,189,025	2,487,788
Measurement of water to farms, 1949: ³	10.18	24.30	.....	9.33	8.97	7.06	11.90	8.25
No water measured.....enterprises reporting..	539,232	29,928	.....	24,034	3,881	20,940	164,696	228,576
Part of water measured.....enterprises reporting..	9.82	20.65	.....	11.40	12.85	26.68	13.75	7.49
All water measured.....enterprises reporting..	533	23	3	25	13	8	142	288
acres irrigated.....	70,766	2,889	1,569	6,484	5,978	315	13,636	31,515
Part of water measured.....enterprises reporting..	8	1	.....	.....	.....	.....	.....	4
acres irrigated.....	4,945	439	.....	.....	.....	.....	.....	1,529
All water measured.....enterprises reporting..	373	37	.....	20	12	11	96	187
acres irrigated.....	267,432	18,211	.....	13,854	9,074	34,967	52,411	118,224

¹Data for less than 3 enterprises in basins II-A-2 and 6; II-B-2, 3a and 3c; II-C-4; II-D-3, 5b, 7, 9a, and 9c; II-E-6; II-F-2; II-G-2 and 13; III-A-4; III-C-1, 4b, 4c, and 10; and IV-B-1a and 1b are included only in totals.

²For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within drainage basin or State.

³For interbasin and interstate enterprises, data represent characteristics within drainage basin or State.

⁴For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.

⁵Less than 0.05.

⁶Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940—Continued

once in the State total. Acreage irrigated direct by 2 or more enterprises is counted for each enterprise.]

Santa Maria River and basins south (II-G)—Continued				Great Basin, total ¹	South Central Great Basin (III-C)						Gulf of California: Colorado River below Lees Ferry, Arizona (IV-H)						
San Jacinto Basin	San Luis Rey River	San Dieguito River	San Diego River		Total ¹	Truckee River	Carson River	Walker River, total ¹	Mono Lake-Owens Valley area	Antelope Valley	Total ¹	Colorado River direct, total ¹	Salton Sea area				
(9)	(10)	(11)	(12)		(2b)	(3b)	(4b and 4c)	(5)	(9)	(1a and 1b)	(2a)	(2b)	(2b)				
40	11	3	5	26	24	3	3	7	6	23	3	20	3	18	1		
16,542	4,213	5,046	2,758	33,724	30,141	.....	16,450	5,335	2,775	502,594	62,359	440,235	433,292	6,943	2	
2	3	2	4	8	8	.....	1	3	2	3	2	2	1	1	3	
945	1,719	4,805	2,728	1,722	1,722	.....	834	800	800	442,980	8,688	434,292	433,292	1,000	4	
34	5	1	4	12	10	.....	2	2	3	17	1	16	.....	16	5
13,392	2,569	241	2,396	28,065	24,482	.....	16,450	141	2,310	56,392	53,671	2,721	.....	2,721	6
36	8	1	5	20	18	.....	3	4	4	19	2	17	.....	17	7
14,337	3,966	241	2,758	32,590	29,007	.....	16,450	4,501	2,475	56,432	53,671	2,761	.....	2,761	8
3	3	1	.....	2	2	.....	.....	.....	1	.....	.....	.....	.....	.....	9
1,705	247	2,908	.....	200	200	.....	.....	.....	200	.....	.....	.....	.....	.....	10
1	.....	1	.....	4	4	.....	.....	3	1	4	3	3	.....	3	11
500	.....	1,897	.....	934	934	.....	.....	834	100	446,162	8,688	437,474	433,292	4,182	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
34	6	2	3	14	12	.....	1	5	5	17	1	16	.....	16	14
13,392	2,702	2,138	406	9,231	5,648	.....	1,975	975	2,610	11,409	8,688	2,721	.....	2,721	15
5	5	1	2	8	8	.....	2	1	1	4	4	3	.....	3	16
3,150	1,511	2,908	2,352	24,493	24,493	.....	14,475	4,360	165	491,185	53,671	437,514	433,292	4,222	17	
11	.....	.....	.....	4	4	.....	1	1	.....	2	1	1	.....	1	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
1,774	4,213	5,046	2,758	11,058	7,475	.....	1,975	5,335	165	444,608	8,688	435,920	433,292	2,628	20	
27	.....	.....	.....	8	8	.....	1	.....	5	5	1	4	.....	4	21
10,398	.....	.....	.....	20,665	20,665	.....	13,475	.....	1,721	56,075	52,471	3,604	.....	3,604	22
4,370	.....	.....	.....	2,001	2,001	.....	1,000	.....	889	1,911	1,200	711	.....	711	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
1	.....	.....	.....	4	4	.....	1	.....	1	2	1	1	.....	1	26
1	.....	.....	.....	5	5	.....	1	1	2	6	6	6	.....	6	27
11	.....	1	1	5	3	.....	1	1	1	5	5	5	.....	5	28
19	5	.....	.....	5	5	.....	1	3	1	5	5	5	.....	5	29
4	1	.....	3	3	3	.....	1	1	.....	2	2	2	.....	2	30
3	1	1	.....	3	3	.....	.....	.....	3	.....	.....	.....	.....	.....	31
1	2	1	1	1	1	.....	1	.....	.....	2	2	2	.....	2	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	1	33
1	.....	.....	.....	4	4	.....	1	1	.....	2	1	1	.....	1	34
9	1	.....	1	3	3	.....	1	1	.....	12	12	12	.....	12	35
26	6	.....	3	9	9	.....	.....	4	5	4	4	4	.....	4	36
1	2	1	1	4	2	.....	1	1	1	1	1	1	.....	1	37
3	2	1	.....	4	4	.....	1	1	1	1	1	1	.....	1	38
.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	39
.....	.....	.....	.....	1	1	.....	.....	.....	.....	3	2	1	.....	1	40
40	10	3	4	22	22	.....	3	3	6	22	3	19	.....	3	41
10	3	1	1	2	2	.....	30	18	8	4	14	3	.....	13	42
53,044	43,801	15,105	67,074	767,791	767,791	467,821	10,658	235,330	6,137	7,947,434	4,612,347	3,335,087	3,322,163	106,129	43	
4	6	2	2	16	16	.....	3	3	3	6	6	4	.....	4	44
8,115	30,551	6,526	66,270	759,420	759,420	467,821	9,158	235,330	2,784	4,134,812	4,133,186	1,626	1,626	45	
36	9	1	2	4	4	.....	.....	.....	.....	17	1	16	.....	16	46
31,657	7,529	289	804	2,947	2,947	.....	.....	.....	2,947	25,449	14,151	11,298	.....	11,298	47
4	3	2	.....	6	6	.....	1	3	2	4	3	3	.....	3	48
13,272	5,721	8,290	5,424	5,424	1,500	3,518	406	3,787,173	465,010	3,322,163	3,322,163	93,205	49	
9	5	2	2	11	11	.....	3	1	4	9	6	6	.....	6	50
2,690	6,575	2,760	13,246	107,425	107,425	93,081	1,740	1,917	3,349	508	1,766,445	405,399	1,361,046	1,360,157	65,931	51
39	10	3	4	19	19	.....	2	1	3	6	20	18	.....	2	52
45,763	23,125	9,031	3,481	376,545	376,545	280,913	200	57,918	4,348	2,271,278	605,447	1,665,831	1,655,362	37,869	53	
6	4	1	1	11	11	.....	3	3	2	1	5	3	.....	3	54
2,891	9,906	700	5,135	275,469	275,469	86,350	8,718	175,495	406	3,788,036	3,494,973	293,063	293,063	763	55	
1	6	2	3	3	3	.....	1	.....	.....	2	3	2	.....	2	56
1,700	4,195	2,614	45,212	8,352	8,352	7,477	875	121,675	106,528	15,147	13,581	1,566	57	
38	8	3	4	15	15	6	20	2	18	1	17	58	
27,381	8,847	7,312	3,481	71,631	71,631	36,000	14,696	2,834	2,051,322	390,447	1,660,875	1,627,962	32,913	59	
12,168	4,185	5,046	2,791	28,081	28,081	15,450	5,335	1,886	500,543	61,159	439,484	433,292	6,192	60	
2.3	2.1	1.4	1.2	2.6	2.6	2.3	2.8	1.5	4.1	6.4	3.8	3.8	5.3	61	
27	7	7	1	5	5	4	4	4	62	
7,805	4,706	4,706	2,823	1,514	12,176	7,220	4,956	4,956	4,956	63	
4,370	1,972	1,972	1,000	889	1,911	1,200	711	711	711	64	
1.8	2.4	2.4	2.8	1.7	6.4	6.0	7.0	7.0	7.0	65	
2.1	2.1	1.4	1.2	2.6	2.6	2.4	2.8	1.5	4.2	6.5	3.8	3.8	5.7	66	
224,484	141,924	173,305	141,620	54,781	54,781	.....	6,510	2,600	29,501	3,874,175	692,103	3,182,072	3,091,647	90,425	67	
8.20	16.04	23.70	40.68	0.76	0.76	.....	0.18	0.18	10.41	1.89	1.77	1.92	1.90	2.75	68	
67,177	.....	.....	40.68	17,469	17,469	.....	500	.....	16,639	17,977	10,400	7,577	.....	7,577	69
8.61	.....	.....	.....	3.71	3.71	.....	0.18	.....	10.99	1.48	1.44	1.53	.....	1.53	70
29	4	1	1	12	11	1	5	1	14	2	12	1	11	71	
4,282	1,762	241	30	10,493	8,513	.....	1,975	845	200	55,308	53,671	1,637	.....	1,637	72
1	2	.....	.....	3	3	.....	1	.....	2	1	.....	.....	.....	.....	73
1,158	1,719	.....	.....	265	265	.....	.....	.....	265	8,688	8,688	.....	.....	.....	74
10	4	2	4	9	9	1	1	3	8	8	8	8	7	75	
11,084	704	4,805	2,728	21,233	21,233	.....	14,475	4,360	2,310	438,598	.....	438,598	433,292	5,306	76