

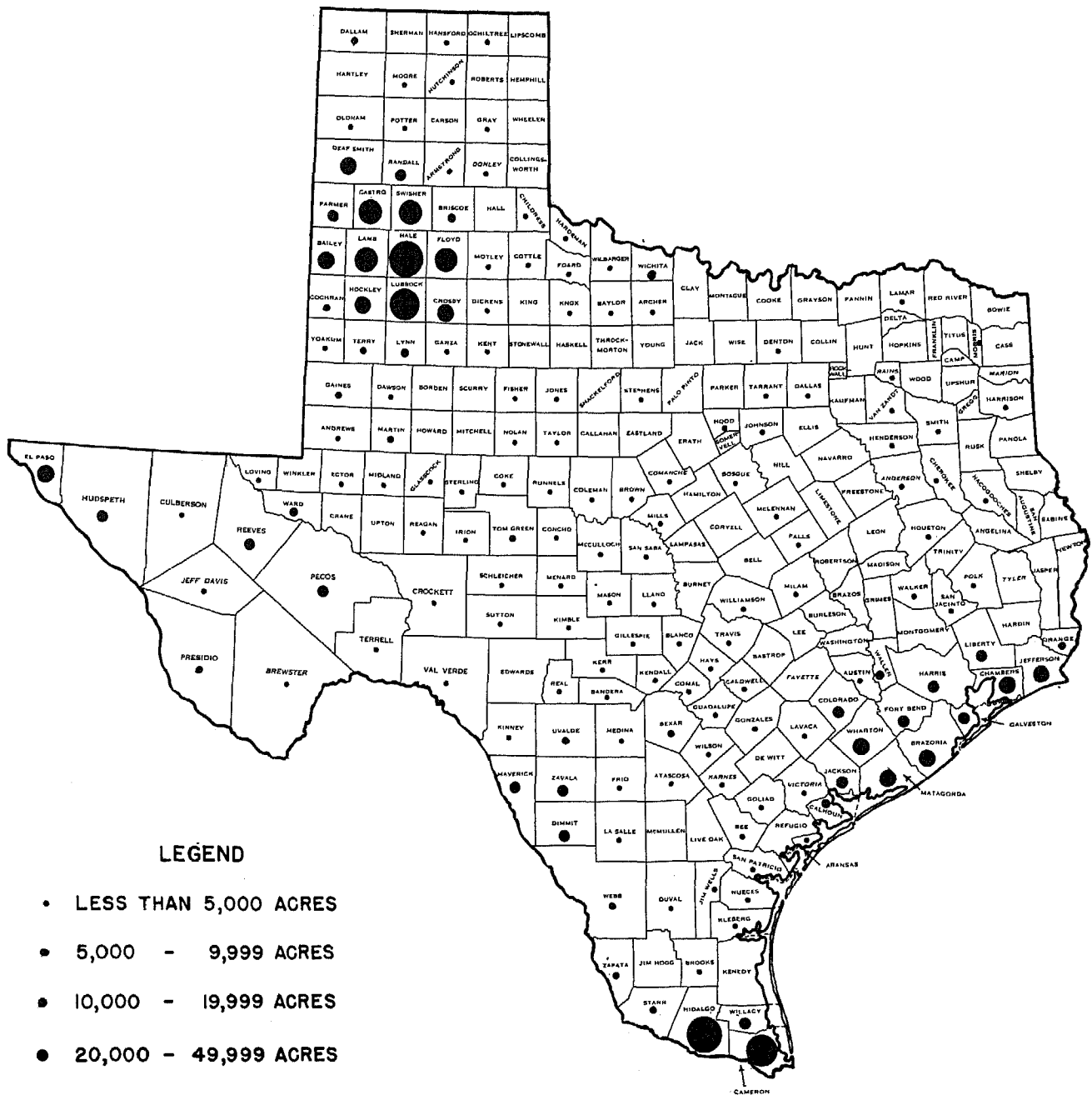
IRRIGATION OF AGRICULTURAL LANDS

TEXAS

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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
- 200,000-299,999 ACRES
- 300,000-399,999 ACRES

TEXAS: 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.....	331,567	145,389,014	21,427	3,131,534	3,150,527	11,502	144,445,313
1945.....	384,977	141,337,744	15,110	1,320,216	(*)	(*)	(*)
1940.....	418,002	137,683,372	19,568	3,894,638	1,045,224	4,040	66,441,376
1935.....	501,017	137,597,389	16,435	4,568,533	(*)	(*)	(*)
1930.....	495,489	124,707,130	10,861	5,694,287	798,917	1,728	49,022,164
1920.....	436,033	114,020,621	5,974	(**)	586,120	1,371	35,072,739
1910.....	417,770	112,435,067	5,238	(**)	451,130	2,772	13,487,347
1900.....	352,190	125,807,017	1,325	49,652	(*)	(*)	1,027,608
1890.....	228,126	51,406,937	623	18,419	(*)	(*)	(*)

*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 50,799 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
1 Enterprises.....total number..	11,502	4,040	1,728	1,371
2 Enterprises by type:				
Single-farm.....number..	11,380	3,924	1,648	(*)
Mutual:				
Unincorporated.....number..	34	23	25	(*)
Incorporated.....number..	11	15	20	(*)
Commercial.....number..	27	23	20	(*)
District.....number..	45	41	32	(*)
U.S. Bureau of Reclamation ¹.....number..	2	2	1	(*)
U.S. Bureau of Indian Affairs.....number..	.....	.....	.....	(*)
State.....number..	.....	4	2	(*)
City.....number..	3	8	.....	(*)
Other.....number..	.....	.....	.....	(*)
12 Irrigated land, total ².....acres..	3,150,527	1,045,224	798,917	586,120
13 Acreage irrigated, by type of enterprise: ³				
Single-farm.....acres..	2,134,459	351,600	132,291	110,680
Mutual:				
Unincorporated.....acres..	15,072	49,640	58,691	103,378
Incorporated.....acres..	38,013	49,663	80,996	262,892
Commercial.....acres..	329,072	419,763	452,461	88,571
District.....acres..	590,529	438,258	65,442	20,284
U.S. Bureau of Reclamation ¹.....acres..	567,079	73,834	.....	.....
U.S. Bureau of Indian Affairs.....acres..	.....	.....	.....	.....
State.....acres..	.....	322	.....	65
City.....acres..	2,949	1,451	.....	250
Other.....acres..	.....	.....	.....	.....
23 Acreage irrigated, by source of water: ^{3 6}				
Streams (and lakes).....acres..	1,274,715	812,568	702,409	508,538
Springs.....acres..	22,795	9,715	9,328	8,486
Flowing wells.....acres..	11,553	4,090	1,831	5,028
Pumped wells.....acres..	1,947,397	273,729	61,643	41,664
Sewage.....acres..	5,298	1,499	2,070	260
Other and not reported.....acres..	85,095	9,796	22,740	24,170
29 Irrigated land artificially drained.....acres..	710,930	397,227	345,926	272,437
30 Irrigated land in need of drainage.....acres..	522,215	106,837	135,936	154,532
31 Irrigation works:				
Diversion dams.....total number..	438	244	107	165
Reservoirs.....number..	566	542	325	368
Total capacity (reported).....acre-feet..	1,402,883	1,405,024	935,085	392,999
Reservoir dams.....total number..	566	194	168	134
Canals and ditches.....total length, miles..	10,092	5,936	4,879	4,473
Pipe lines.....total length, miles..	1,168	923	319	157
Flowing wells.....number..	152	100	61	135
Pumped wells.....number..	15,070	3,396	1,102	901
Average pumping lift (reported).....feet..	125	82	(*)	(*)
Pumps.....number..	17,815	4,754	2,028	1,641
Average pumping lift from all sources.....feet..	(*)	69	55	45
42 Capital investment, total.....dollars..	144,445,313	66,441,376	49,022,164	35,072,739
43 Capital investment by type of enterprise:				
Single-farm.....dollars..	73,548,553	9,105,016	9,371,780	8,256,568
Mutual:				
Unincorporated.....dollars..	190,075	136,760	3,459,486	3,821,844
Incorporated.....dollars..	2,845,980	1,798,140	.....	.....
Commercial.....dollars..	14,251,586	9,330,311	3,404,080	13,825,409
District.....dollars..	49,531,362	42,700,333	26,543,073	5,449,142
U.S. Bureau of Reclamation ¹.....dollars..	53,767,205	3,147,764	6,238,245	3,673,476
U.S. Bureau of Indian Affairs.....dollars..	.....	.....	.....	.....
State.....dollars..	13,552	13,552	5,500	6,802
City.....dollars..	297,000	209,500	.....	39,498
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.
⁴Primary enterprises only; data for less than 3 supplemental enterprises included only in totals.
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" and "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "Springs and streams," "Streams, gravity; wells, pumped," and supplemental water from "Wells, 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	Single-farm	Mutual		District	Operated by U.S. Bureau of Reclamation ¹	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated			
ENTERPRISES: FARMS AND LAND IRRIGATED							
1 Number of enterprises.....enterprises 1950..	11,502	11,380	34	11	45	2	30
2 1940..	4,040	3,924	23	15	41	2	35
3 Farms irrigated direct per enterprise.....farms 1949..	2.0	1.0	5.6	20.6	170.1	355.0	78.9
4 Area irrigated direct.....acres 1949..	3,177,173	2,134,459	15,072	38,013	590,529	67,079	332,021
5 1939..	1,112,133	351,600	29,640	49,663	2382,458	73,834	2192,536
6 Average per enterprise.....acres 1949..	276	188	443	3,456	13,123	33,540	11,067
CHARACTERISTICS OF ENTERPRISES, 1949							
7 Multiple-purpose enterprises.....enterprises..	15				9	1	5
8 Area irrigated direct.....acres..	210,421				91,531	67,079	51,811
9 Complete-system enterprises.....enterprises..	11,029	10,951	30	7	19		22
10 Area irrigated direct.....acres..	2,762,339	2,068,687	14,380	30,380	399,362		249,530
Enterprises by origin of water supply:							
11 No water from other enterprises.....enterprises reporting..	11,218	11,122	34	11	23	2	26
12 acres irrigated..	2,960,783	2,069,243	15,072	38,013	475,645	67,079	295,731
13 Part of water from other enterprises.....enterprises reporting..	82	73			8		1
14 acres irrigated..	126,961	28,914			73,745		24,302
15 All water from other enterprises.....enterprises reporting..	202	185			14		3
16 acres irrigated..	89,429	36,302			41,139		11,988
Enterprises by delivery of irrigation water:							
17 No water delivered.....enterprises reporting..	167	167					
18 Water delivered direct to farms only.....enterprises reporting..	11,274	11,209	30	5	15		15
19 acres irrigated..	2,329,630	2,133,903	14,380	10,014	68,616		102,717
20 Water delivered to farms and to other enterprises.....enterprises reporting..	56	4	4	5	28	1	14
21 acres irrigated..	847,543	556	692	27,999	521,913	67,079	229,304
22 Water delivered to other enterprises only.....enterprises reporting..	5			1	2	1	1
Enterprises by primary and supplemental irrigation:³							
23 All primary.....enterprises reporting..	11,184	11,076	32	9	39	1	27
24 acres irrigated..	3,067,824	2,108,139	14,272	36,731	511,417	67,079	330,186
25 Part primary, part supplemental.....enterprises reporting..	54	46	2	1	4		1
26 Primary irrigation.....acres irrigated..	82,703	5,440	357	882	75,704		320
27 Supplemental irrigation.....acres irrigated..	8,303	3,337	443	400	3,408		715
28 All supplemental.....enterprises reporting..	92	91					1
29 acres irrigated..	18,343	17,543					800
Enterprises by number of farms irrigated direct:							
30 None.....enterprises reporting..	172	167		1	2	1	1
31 1-3.....enterprises reporting..	11,208	11,185	14	1	3		5
32 4-9.....enterprises reporting..	56	25	17	2	4		8
33 10-29.....enterprises reporting..	24	3	3	5	7		6
34 30-99.....enterprises reporting..	21			2	12		7
35 100-299.....enterprises reporting..	10				8		2
36 300-999.....enterprises reporting..	8				7		1
37 1,000 or more.....enterprises reporting..	3				2	1	
Enterprises by acres irrigated direct:							
38 None.....enterprises reporting..	172	167		1	2	1	1
39 1-29.....enterprises reporting..	1,487	1,486	1	1	1		2
40 30-99.....enterprises reporting..	2,343	2,328	11	1	4		3
41 100-499.....enterprises reporting..	6,720	6,695	17	1	2		3
42 500-999.....enterprises reporting..	577	567	3	2	2		3
43 1,000-2,999.....enterprises reporting..	141	126	1	3	6		5
44 3,000-9,999.....enterprises reporting..	32	11	1	2	13		5
45 10,000-29,999.....enterprises reporting..	17			1	9		7
46 30,000 or more.....enterprises reporting..	13				8	1	4
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949							
Surface water:							
47 Gravity only.....enterprises reporting..	210	176	12	5	13	2	2
48 acres irrigated..	175,160	25,368	3,988	2,486	73,290	67,079	2,949
49 Pumped only.....enterprises reporting..	1,229	1,171	4	5	28		21
50 acres irrigated..	1,022,202	183,710	8,846	33,502	471,382		324,762
51 Gravity and pumped.....enterprises reporting..	74	68	4		2		
52 acres irrigated..	32,414	8,348	492		23,574		
53 Ground water only (pumped from wells).....enterprises reporting..	9,824	9,803	13	1			7
54 acres irrigated..	1,859,758	1,852,127	1,296	2,025			4,310
55 Surface (gravity or pumped) and ground.....enterprises reporting..	165	162	1		2		
56 acres irrigated..	87,639	64,906	450		22,283		
Stored water:							
57 None stored.....enterprises reporting..	11,018	10,958	23	8	8	1	20
58 acres irrigated..	2,464,800	2,038,272	13,727	34,302	126,133		252,366
59 Part stored.....enterprises reporting..	187	157	8	2	15		5
60 acres irrigated..	485,628	65,832	1,087	3,711	344,260		70,738
61 All stored.....enterprises reporting..	297	265	3	1	22	1	5
62 acres irrigated..	226,745	30,355	258		120,136	67,079	8,917

¹Data for less than 3 enterprises shown with permission of the enterprise. Data for less than 3 Bureau of Reclamation projects operated by water users and for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.

²Primary enterprises only; data for less than 3 supplemental enterprises included only in "All types."

³For 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 by 2 or more enterprises is 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	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated			
SOURCES OF SURFACE WATER, 1949²							
1 Streams (and lakes).....enterprises reporting..	1,432	1,343	14	9	43	2	21
2 ..acres irrigated.....	1,274,715	251,941	12,939	35,118	583,401	67,079	324,237
3 Springs.....enterprises reporting..	67	63	.....	1	2	1	.....
4 ..acres irrigated.....	22,795	7,344	.....	870	14,501	.....	.....
5 Flowing wells.....enterprises reporting..	107	100	.....	7	.....	.....	.....
6 ..acres irrigated.....	11,553	10,716	.....	837	.....	.....	.....
7 Drainage water.....enterprises reporting..	96	89	.....	.....	6	.....	1
8 ..acres irrigated.....	84,983	21,712	.....	.....	62,236	.....	1,035
9 Sewage.....enterprises reporting..	18	17	.....	.....	.....	.....	1
10 ..acres irrigated.....	5,298	2,859	.....	.....	.....	.....	2,439
11 Other sources.....enterprises reporting..	1	1	.....	.....	.....	.....	.....
12 ..acres irrigated.....	112	112	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND, 1949							
Irrigated land drained:							
13 Enterprises reporting.....enterprises..	446	396	2	2	28	1	17
14 Area supplied primary irrigation.....acres..	922,967	116,689	528	22,189	513,858	67,079	202,624
15 Area artificially drained.....acres..	710,930	103,481	462	20,822	344,373	67,079	174,713
Irrigated land in need of drainage:							
16 Enterprises reporting.....enterprises..	321	271	10	2	24	1	13
17 Area supplied primary irrigation.....acres..	910,751	75,355	2,914	19,371	503,761	67,079	242,271
18 Area in need of drainage.....acres..	522,215	44,109	458	19,114	273,025	54	185,455
IRRIGATION WORKS, 1950							
19 Diversion dams.....enterprises reporting..	345	323	7	3	9	1	2
20 ..dams..	438	411	7	3	13	1	3
Diversion dams by material:							
21 Concrete or masonry.....dams..	106	91	2	1	10	1	1
22 Timber.....dams..	6	5	.....	.....	.....	.....	1
23 Earth and rock.....dams..	304	298	4	1	.....	.....	1
24 Other, mixed, and not reported.....dams..	22	17	1	.....	3	.....	.....
25 Reservoirs.....enterprises reporting..	421	370	11	3	28	.....	9
26 ..reservoirs..	566	494	11	3	45	.....	13
27 Reservoirs for which capacity was reported.....number..	508	437	11	3	45	.....	12
28 total capacity, acre-feet..	1,402,883	45,663	109	1,045	1,317,335	.....	38,731
Reservoirs by capacity:							
29 1-99 acre-feet.....reservoirs..	384	365	11	1	5	.....	2
30 100-999 acre-feet.....reservoirs..	96	68	.....	2	21	.....	5
31 1,000 acre-feet and over.....reservoirs..	28	4	.....	.....	19	.....	5
Reservoir dams by material:							
32 Concrete or masonry.....dams..	36	31	1	1	3	.....	.....
33 Earth and rock.....dams..	501	435	10	2	42	.....	12
34 Other, mixed, and not reported.....dams..	29	28	.....	.....	.....	.....	1
35 Canals and ditches.....enterprises reporting..	1,682	1,573	31	10	40	2	26
36 total length, miles..	10,092	3,800	128	278	3,439	262	2,185
37 Pipelines and siphons.....enterprises reporting..	465	420	10	.....	31	.....	4
38 total length, miles..	1,168	359	4	.....	784	.....	21
39 Tunnels.....enterprises reporting..	5	.....	2	1	.....	.....	2
40 total length, feet..	1,239	.....	130	600	.....	.....	509
41 Flowing wells.....enterprises reporting..	107	100	7	.....	.....	.....	.....
42 wells..	162	150	12	.....	2	.....	7
43 Pumped wells.....enterprises reporting..	9,977	9,952	15	1	16	.....	20
44 wells..	15,070	15,005	17	.....	17	.....	20
45 Wells for which pumping lift was reported.....wells..	14,206	14,144	14	12	16	.....	20
46 Average pumping lift.....feet..	125	125	58	110	70	.....	86
47 Irrigation pumps.....enterprises reporting..	11,248	11,166	22	6	29	.....	25
48 pumps..	17,815	17,210	29	.....	357	.....	181
49 Electric motors used for pumping.....enterprises reporting..	2,034	1,988	15	2	19	.....	10
50 electric motors..	3,238	2,931	15	.....	217	.....	66
51 Other motors and engines used for pumping.....enterprises reporting..	9,769	9,721	7	4	20	.....	17
52 other motors and engines..	14,620	14,342	14	27	128	.....	109
SEASON OF IRRIGATION, 1949							
53 Water delivered only before July 1.....enterprises reporting..	326	325	1	.....	.....	.....	.....
54 ..acres irrigated.....	27,281	26,681	600	.....	.....	.....	.....
55 Water delivered before and after July 1.....enterprises reporting..	9,616	9,497	33	11	44	1	30
56 ..acres irrigated.....	2,919,540	1,877,426	14,472	38,013	590,529	67,079	332,021
57 Water delivered only after July 1.....enterprises reporting..	1,191	1,191	.....	.....	.....	.....	.....
58 ..acres irrigated.....	169,186	169,186	.....	.....	.....	.....	.....
CAPITAL INVESTMENT, 1950 AND 1940							
59 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars, 1940..	66,441,376	9,105,016	136,760	1,798,140	42,700,333	3,147,764	9,553,363
New capital investment Jan. 1, 1940 to Jan. 1, 1950:							
60 Enterprises reporting.....enterprises 1950..	9,511	9,430	19	6	31	2	23
61 Amount.....dollars 1950..	78,003,937	64,443,537	53,315	1,047,840	6,831,029	619,441	5,008,775
62 Area irrigated direct.....acres 1950..	2,715,018	1,820,927	4,888	31,333	523,726	67,079	267,065
63 Total capital investment, Jan. 1, 1950.....dollars 1950..	144,445,313	73,548,553	190,075	2,845,980	49,531,362	3,767,205	14,562,138
INDEBTEDNESS, 1950³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
64 Enterprises reporting.....enterprises..	54	.....	.....	3	39	1	11
65 Amount.....dollars..	30,832,875	.....	.....	286,000	22,423,763	1,775,000	6,348,112
66 Area irrigated direct.....acres..	865,447	.....	.....	8,457	584,184	67,079	205,727
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
67 Enterprises reporting.....enterprises..	1	.....	.....	.....	.....	.....	1
68 Amount.....dollars..	3,752	.....	.....	.....	.....	.....	3,752
69 Area irrigated direct.....acres..	7,217	.....	.....	.....	.....	.....	7,217

¹Data for less than 3 enterprises shown with permission of the enterprise. Data for less than 3 Bureau of Reclamation projects operated by water users and for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.
²Enterprises 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.
³Not 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 explanation, see text)	Type of enterprise						Operated by U.S. Bureau of Reclamation ¹	Commercial, Indian, State, city, and other
	All types	Single- farm	Mutual		District			
			Unincor- porated	Incor- porated				
COST OF WATER TO FARMS, 1949²								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	11,330	11,213	34	10	43	1	29	
Cost.....dollars..	29,792,425	11,895,082	48,091	546,760	4,456,080	465,000	3,471,592	
Area irrigated direct.....acres..	3,177,173	2,134,459	15,072	38,013	590,529	67,079	332,021	
Cost per acre irrigated direct.....dollars..	6.54	5.53	3.18	14.38	7.55	6.93	10.46	
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	770	753	12	1	2		2	
acres irrigated..	153,858	140,093	3,456	47	823		9,439	
\$1.00-\$1.99.....enterprises reporting..	1,044	1,036	3	2	1		2	
acres irrigated..	260,399	243,245	8,268	2,968	5,628		290	
\$2.00-\$4.99.....enterprises reporting..	4,285	4,266	6	2	8		3	
acres irrigated..	992,998	902,552	733	1,157	81,340		7,216	
\$5.00-\$9.99.....enterprises reporting..	3,150	3,116	7	1	18		7	
acres irrigated..	1,177,348	591,187	1,613	532	413,334	67,079	103,603	
\$10.00 or more.....enterprises reporting..	2,081	2,042	6	4	14		15	
acres irrigated..	592,570	257,382	1,002	33,309	89,404		211,473	
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	11,238	11,122	34	10	43	1	28	
Cost.....dollars..	20,631,163	11,679,122	47,751	545,994	4,439,864	465,000	3,453,432	
Area supplied primary irrigation.....acres..	3,150,527	2,113,579	14,629	37,613	587,121	67,079	330,506	
Cost per acre supplied.....dollars..	6.55	5.53	3.26	14.52	7.56	6.93	10.45	
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	146	137	2	1	4		2	
Cost.....dollars..	161,262	125,960	250	766	16,216		18,070	
Area supplied supplemental irrigation.....acres..	26,646	20,880	443	400	3,408		1,515	
Cost per acre supplied.....dollars..	6.05	6.03	0.56	1.92	4.76		11.93	
Cost to farms for purposes other than operation and maintenance: ³								
Enterprises reporting.....enterprises..	53		2	2	36	1	12	
Cost.....dollars..	2,073,630		1,465	55,674	1,332,297	98,246	585,948	
Area irrigated direct.....acres..	862,227		502	6,432	574,004	67,079	214,210	
Cost per acre irrigated.....dollars..	2.40		2.92	8.66	2.32	1.46	2.74	
Arrearage in payments by farms, Jan. 1, 1950: ³								
Enterprises reporting.....enterprises..	38			1	29		8	
Amount.....dollars..	951,832			1,500	768,990		181,342	
Area irrigated direct.....acres..	708,794			532	520,860		187,402	
QUANTITIES OF WATER REPORTED, 1949³								
Total obtained from all sources ⁴.....enterprises reporting..	112		30	9	43	2	28	
Surface sources.....enterprises reporting..	4,522,891		68,541	142,856	2,268,078	950,527	1,092,889	
Pumped wells.....enterprises reporting..	4,249,663		60,758	134,356	2,038,448	950,527	1,065,574	
Other enterprises.....enterprises reporting..	23		14	1	2		6	
Conveyance loss ⁴.....enterprises reporting..	30,053		7,783	8,500	7,820		5,950	
Delivered: ⁴								
Direct to farms.....enterprises reporting..	107		30	8	41	1	27	
To other enterprises.....enterprises reporting..	2,577,914		61,341	124,986	1,020,877	464,200	906,510	
For use other than irrigation.....enterprises reporting..	48			5	28	2	13	
Delivered direct to farms for primary irrigation:								
Quantity delivered.....acre-feet..	357,990			4,200	153,869	132,108	67,813	
Area supplied primary irrigation.....acres..	22		2	1	15	1	3	
Quantity per acre supplied.....acre-feet..	740,689		309	87	728,528	10,000	1,765	
Delivered direct to farms for supplemental irrigation:								
Quantity delivered.....acre-feet..	106		30	8	41	1	26	
Area supplied supplemental irrigation.....acres..	2,306,678		59,707	123,986	1,015,947	204,000	903,038	
Quantity per acre supplied.....acre-feet..	1,020,709		13,937	35,880	576,287	67,079	327,526	
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	8,899,158		46,947	543,347	4,403,432	465,000	3,440,432	
Average cost per acre-foot.....dollars..	3.86		0.79	4.38	4.33	2.28	3.81	
Cost for supplemental irrigation.....dollars..	35,302		250	766	16,216		18,070	
Average cost per acre-foot.....dollars..	3.20		0.15	0.77	3.29		5.20	
Measurement of water to farms:								
No water measured.....enterprises reporting..	97		28	9	35		25	
Part of water measured.....enterprises reporting..	873,719		12,460	35,045	528,056		298,158	
All water measured.....enterprises reporting..	4				2	1	1	
Acres..	114,185				40,106	67,079	7,000	
Acres..	7				6			
Acres..	20,449			1,282	19,167			

¹Data for less than 3 enterprises shown with permission of the enterprise. Data for less than 3 Bureau of Reclamation projects operated by water users and for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.
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	10,000 and over
		All gravity	All pumped						
ENTERPRISES: FARMS AND LAND IRRIGATED									
1 Number of enterprises..... enterprises..	11,029	177	1,028	9,662	162	3,686	7,183	139	21
2 Farms irrigated direct per enterprise..... farms..	1.7	6.0	6.9	1.0	1.2	1.0	1.1	5.3	289.5
3 Area irrigated..... acres..	2,762,339	91,377	766,167	1,857,994	46,801	160,670	1,736,951	241,467	623,251
4 Average per enterprise..... acres..	250	516	745	192	289	44	242	1,737	29,679
CHARACTERISTICS OF ENTERPRISES									
5 Multiple-purpose enterprises..... enterprises..	8	1	6	1	.....	1	.....	2	5
6 Area irrigated..... acres..	117,715	27,734	89,936	45	.....	45	.....	5,253	112,417
Type of enterprise:									
7 Single farm..... enterprises..	10,951	157	994	9,641	159	3,672	7,158	131	.....
8 Area irrigated..... acres..	2,068,687	23,170	149,013	1,850,363	46,141	159,756	1,726,940	179,971	.....
Mutual:									
9 Unincorporated..... enterprises..	30	10	4	13	3	12	16	2	.....
10 Area irrigated..... acres irrigated..	14,380	2,578	8,846	1,296	660	779	4,116	(4)	.....
11 Incorporated..... enterprises..	7	3	3	1	.....	.....	.....	.....	.....
12 Area irrigated..... acres irrigated..	30,380	2,439	25,916	(4)	.....	.....	1,689	9,607	(4)
Commercial.....									
13 enterprises..	21	.....	14	7	.....	.....	.....	.....	.....
14 Area irrigated..... acres irrigated..	247,091	.....	242,781	4,310	.....	(4)	2,077	16,622	228,257
District.....									
15 enterprises..	19	6	.....	.....	.....	.....	.....	.....	.....
16 Area irrigated..... acres irrigated..	399,362	59,751	339,611	.....	.....	.....	(4)	23,342	375,910
U.S. Bureau of Reclamation.....									
17 enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
18 Area irrigated..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
U.S. Bureau of Indian Affairs.....									
19 enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
20 Area irrigated..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
State.....									
21 enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
22 Area irrigated..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
City.....									
23 enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 Area irrigated..... acres irrigated..	(4)	(4)	.....	.....	.....	.....	.....	(4)	.....
Enterprises by primary and supplemental irrigation:⁵									
25 All primary..... enterprises reporting..	10,900	172	1,002	9,572	154	3,631	7,115	124	20
26 Area irrigated..... acres irrigated..	2,694,020	83,627	725,689	1,840,186	44,518	158,415	1,716,852	229,502	589,251
Part primary, part supplemental.....									
27 enterprises reporting..	49	4	4	38	3	10	35	3	1
28 Area irrigated..... acres irrigated..	45,288	6,559	33,359	4,735	635	267	5,499	6,522	33,000
29 Primary irrigation..... acres irrigated..	6,185	1,151	1,743	2,801	490	234	3,527	1,423	1,000
30 Supplemental irrigation..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
All supplemental.....									
31 enterprises reporting..	80	1	22	52	5	45	33	2	.....
32 Area irrigated..... acres irrigated..	16,846	40	5,376	10,272	1,158	1,754	11,072	4,020	.....
Enterprises by number of farms irrigated:									
33 1-3..... enterprises reporting..	10,945	160	979	9,647	159	3,671	7,160	118	.....
34 4-9..... enterprises reporting..	43	6	19	15	3	14	17	12	.....
35 10-29..... enterprises reporting..	15	5	10	.....	.....	.....	.....	.....	.....
36 30-99..... enterprises reporting..	15	3	12	.....	.....	.....	.....	.....	.....
37 100-299..... enterprises reporting..	5	3	2	.....	.....	.....	.....	.....	.....
38 300-999..... enterprises reporting..	4	.....	.....	.....	.....	.....	.....	.....	.....
39 1,000 and over..... enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acreage irrigated:									
39 1-29..... enterprises reporting..	1,425	94	465	473	33	1,425	.....	.....	.....
40 30-99..... enterprises reporting..	2,261	33	210	1,884	34	2,261	.....	.....	.....
41 100-499..... enterprises reporting..	6,629	32	249	6,261	67	.....	6,629	.....	.....
42 500-999..... enterprises reporting..	554	6	53	481	14	.....	554	.....	.....
43 1,000-2,999..... enterprises reporting..	121	4	22	102	13	.....	.....	121	.....
44 3,000-9,999..... enterprises reporting..	18	5	11	1	.....	.....	.....	.....	12
45 10,000-29,999..... enterprises reporting..	12	2	10	.....	.....	.....	.....	.....	.....
46 30,000 and over..... enterprises reporting..	9	1	8	.....	.....	.....	.....	.....	9
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
47 Gravity only..... enterprises reporting..	177	177	.....	.....	.....	127	38	9	3
48 Area irrigated..... acres irrigated..	91,377	91,377	.....	.....	.....	3,112	11,086	26,291	50,888
Pumped only.....									
49 enterprises reporting..	1,028	.....	1,028	.....	.....	675	301	34	18
50 Area irrigated..... acres irrigated..	766,167	.....	766,167	.....	.....	21,196	89,530	83,078	572,363
Gravity and pumped.....									
51 enterprises reporting..	31	.....	.....	.....	3,390	20	11	.....	.....
52 Area irrigated..... acres irrigated..	3,390	.....	.....	.....	.....	658	2,732	.....	.....
Ground water only (pumped from wells).....									
53 enterprises reporting..	9,662	.....	.....	9,662	.....	2,816	6,763	83	.....
54 Area irrigated..... acres irrigated..	1,857,994	.....	.....	1,857,994	.....	133,841	1,612,033	112,120	.....
Surface (gravity or pumped) and ground.....									
55 enterprises reporting..	131	.....	.....	.....	43,411	48	21,570	19,978	.....
56 Area irrigated..... acres irrigated..	43,411	.....	.....	.....	.....	1,863	.....	.....	.....
Stored water:									
57 None stored..... enterprises reporting..	10,665	136	893	9,504	132	3,502	7,034	118	11
58 Area irrigated..... acres irrigated..	2,318,305	55,257	389,615	1,837,162	36,271	155,389	1,698,776	197,747	266,393
Part stored.....									
59 enterprises reporting..	146	18	49	57	22	44	81	13	8
60 Area irrigated..... acres irrigated..	323,868	14,090	287,164	14,007	8,607	1,749	24,195	25,754	272,170
All stored.....									
61 enterprises reporting..	218	23	86	101	8	140	68	8	2
62 Area irrigated..... acres irrigated..	120,166	22,030	89,388	6,825	1,923	3,532	13,980	17,966	84,488

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. Enterprises that delivered no water in 1949 are excluded; and (2) obtained less than 10 percent of their water from other irrigation enterprises.
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	10,000 and over
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁴									
1 Streams (and lakes).....enterprises reporting..	1,134	87	935	.....	112	708	358	47	21
2 Streams (and lakes).....acres irrigated..	864,507	74,220	753,768	.....	36,419	22,784	107,834	110,638	623,251
3 Springs.....enterprises reporting..	63	26	29	.....	8	55	5	3	.....
4 Springs.....acres irrigated..	13,642	10,455	450	.....	2,737	848	1,866	10,928	.....
5 Flowing wells.....enterprises reporting..	104	64	5	.....	35	73	29	2	.....
6 Flowing wells.....acres irrigated..	11,235	4,233	490	.....	6,512	1,726	6,635	2,874	.....
7 Drainage water.....enterprises reporting..	78	1	62	.....	15	40	32	4	2
8 Drainage water.....acres irrigated..	54,230	26	49,217	.....	4,987	1,206	10,179	4,928	37,917
9 Sewage.....enterprises reporting..	18	4	11	.....	3	10	6	2	.....
10 Sewage.....acres irrigated..	5,298	2,537	2,396	.....	365	474	1,245	3,579	.....
11 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
12 Other sources.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
13 Enterprises reporting.....enterprises..	359	13	98	228	20	95	229	23	12
14 Acreage supplied primary irrigation.....acres..	611,404	46,133	478,420	76,710	10,141	3,580	81,837	49,270	476,717
15 Acreage artificially drained.....acres..	451,834	6,530	365,930	70,764	8,610	3,046	73,368	43,275	332,145
Irrigated land in need of drainage:									
16 Enterprises reporting.....enterprises..	257	18	99	121	19	70	152	18	17
17 Acreage supplied primary irrigation.....acres..	627,490	44,749	541,759	34,169	6,813	3,059	46,866	36,595	540,970
18 Acreage in need of drainage.....acres..	446,542	12,049	410,380	18,591	5,522	1,799	28,652	14,666	401,425
IRRIGATION WORKS									
19 Diversion dams.....enterprises reporting..	311	90	135	.....	86	227	71	10	3
20 Diversion dams.....dams..	384	97	162	.....	125	271	91	17	5
Diversion dams by material:									
21 Concrete or masonry.....dams..	90	14	46	.....	30	61	22	4	3
22 Timber.....dams..	6	4	2	.....	4	1	.....	.....	1
23 Earth or rock.....dams..	272	73	107	.....	92	193	66	12	1
24 Other, mixed, and not reported.....dams..	16	6	7	.....	3	13	2	1	.....
25 Reservoirs.....enterprises reporting..	371	43	135	158	35	184	153	24	10
26 Reservoirs.....reservoirs..	485	49	185	190	61	213	203	52	17
27 Reservoirs for which capacity was reported.....reservoirs..	436	47	163	169	57	185	187	47	17
28 Reservoirs.....total capacity, acre-feet..	1,040,983	945,239	88,423	3,212	4,109	2,406	15,381	296,415	726,781
Reservoirs by capacity:									
29 1-99 acre-feet.....reservoirs..	347	36	104	163	44	181	143	22	1
30 100-999 acre-feet.....reservoirs..	73	6	49	5	13	4	43	21	5
31 1,000 acre-feet and over.....reservoirs..	16	5	10	1	.....	.....	1	4	11
Reservoir dams by material:									
32 Concrete or masonry.....dams..	32	2	13	15	2	17	12	1	2
33 Earth or rock.....dams..	431	45	159	169	58	180	185	51	15
34 Other, mixed, and not reported.....dams..	22	2	13	6	1	16	6	.....	.....
35 Canals and ditches.....enterprises reporting..	1,508	95	299	1,058	56	504	935	48	21
36 Canals and ditches.....total length, miles..	7,779	1,167	3,701	2,741	170	559	2,680	1,045	3,495
37 Pipelines and siphons.....enterprises reporting..	384	16	259	75	34	257	109	10	8
38 Pipelines and siphons.....total length, miles..	714	12	638	39	25	107	102	42	463
39 Tunnels.....enterprises reporting..	5	1	2	1	1	.....	3	2	.....
40 Tunnels.....total length, feet..	1,239	70	884	225	60	.....	355	884	.....
41 Flowing wells.....enterprises reporting..	104	64	5	.....	35	68	34	2	.....
42 Flowing wells.....wells..	146	88	7	.....	51	81	6	5	.....
43 Pumped wells.....enterprises reporting..	9,788	.....	.....	9,662	126	2,866	6,824	98	.....
44 Pumped wells.....wells..	14,802	.....	.....	14,551	251	3,279	11,009	514	.....
45 Wells for which pumping lift was reported.....wells..	13,980	.....	.....	13,740	240	3,055	10,454	471	.....
46 Average pumping lift.....feet..	126	.....	.....	126	88	107	131	124	.....
47 Irrigation pumps.....enterprises reporting..	10,831	3	1,019	9,649	160	3,551	7,134	130	16
48 Irrigation pumps.....pumps..	16,794	5	1,755	14,609	425	4,130	11,795	670	199
49 Electric motors used for pumping.....enterprises reporting..	1,963	.....	168	1,745	50	797	1,117	39	10
50 Electric motors used for pumping.....electric motors..	2,978	.....	350	2,528	100	988	1,720	142	128
51 Other motors and engines used for pumping.....enterprises reporting..	9,403	3	898	8,367	135	2,869	6,414	110	10
52 Other motors and engines used for pumping.....other motors and engines..	13,912	4	1,384	12,206	318	3,202	10,120	519	71
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
53 Water delivered only before July 1.....enterprises reporting..	313	16	123	158	16	225	88	.....	.....
54 Water delivered only before July 1.....acres irrigated..	26,194	269	8,097	17,011	817	6,056	20,138	.....	.....
55 Water delivered before and after July 1.....enterprises reporting..	9,335	145	801	8,258	131	2,911	6,280	123	21
56 Water delivered before and after July 1.....acres irrigated..	2,511,483	81,253	743,316	1,642,640	44,274	130,148	1,543,733	214,351	623,251
57 Water delivered only after July 1.....enterprises reporting..	1,182	11	85	1,075	11	475	703	4	.....
58 Water delivered only after July 1.....acres irrigated..	167,565	158	6,692	159,177	1,538	21,194	141,494	4,877	.....
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
59 Enterprises reporting.....enterprises..	9,188	54	632	8,389	113	2,733	6,334	102	19
60 Amount.....dollars..	71,814,186	738,970	11,981,735	57,877,966	1,215,515	9,815,715	49,624,513	3,568,114	8,805,844
61 Area irrigated.....acres..	2,385,500	33,283	672,223	1,647,052	32,942	128,765	1,526,566	158,127	572,042
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
62 Enterprises reporting.....enterprises..	28	5	22	1	.....	.....	1	10	17
63 Amount.....dollars..	16,435,375	5,748,263	10,642,112	45,000	.....	.....	1,000	1,642,175	14,792,200
64 Area irrigated.....acres..	545,211	59,641	483,545	2,025	.....	.....	532	33,619	511,060
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
65 Enterprises reporting.....enterprises..	1	.....	1	.....	.....	.....	.....	1	.....
66 Amount.....dollars..	3,752	.....	3,752	.....	.....	.....	.....	3,752	.....
67 Area irrigated.....acres..	7,217	.....	7,217	.....	.....	.....	.....	7,217	.....

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.

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.....enterprises..	11,029	177	1,028	9,662	162	3,686	7,183	139	21
Cost.....dollars..	17,276,344	448,314	6,571,618	9,993,539	262,873	1,282,797	9,110,877	1,301,672	5,580,998
Area irrigated.....acres..	2,762,399	91,377	766,167	1,857,994	46,801	160,670	1,736,951	241,467	623,251
Cost per acre irrigated.....dollars..	6.25	4.91	8.58	5.38	5.62	7.98	5.25	5.39	8.95
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	744	136	137	453	18	352	376	16	.....
.....acres irrigated..	140,397	24,082	20,288	91,041	4,986	11,396	100,619	28,382	.....
\$1.00-\$1.99.....enterprises reporting..	1,027	10	93	3,947	11	242	761	24	.....
.....acres irrigated..	255,660	10,413	31,131	209,052	5,064	11,903	193,083	50,674	.....
\$2.00-\$4.99.....enterprises reporting..	4,226	13	213	3,947	53	934	3,250	41	.....
.....acres irrigated..	907,243	11,922	42,404	833,788	19,129	52,910	779,842	64,370	10,121
\$5.00-\$9.99.....enterprises reporting..	3,076	11	252	2,775	38	975	2,055	36	10
.....acres irrigated..	981,273	44,733	403,026	522,371	11,143	48,158	485,508	51,827	395,780
\$10.00 or more.....enterprises reporting..	1,956	7	333	1,574	42	1,183	741	22	10
.....acres irrigated..	477,766	227	269,318	201,742	6,479	36,303	177,899	46,214	217,350
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	10,949	176	1,006	9,610	157	3,641	7,150	137	21
Cost.....dollars..	17,137,817	445,387	6,523,630	9,911,628	256,172	1,265,142	9,024,127	1,273,970	5,574,578
Area supplied primary irrigation.....acres..	2,739,308	90,186	759,048	1,844,921	45,153	158,682	1,722,351	236,024	622,251
Cost per acre supplied.....dollars..	6.26	4.95	8.59	5.37	5.67	7.97	5.24	5.40	8.96
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	129	5	26	90	8	55	68	5	1
Cost.....dollars..	138,527	1,927	47,988	81,911	6,701	17,655	86,750	27,702	6,420
Area supplied supplemental irrigation.....acres..	23,031	1,191	7,119	13,073	1,648	1,988	14,600	5,443	1,000
Cost per acre supplied.....dollars..	6.01	1.62	6.74	6.27	4.07	8.88	5.94	5.09	6.42
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....enterprises..	27	4	21	1	1	1	2	8	16
Cost.....dollars..	1,204,534	140,374	1,062,695	165	1,300	165	2,300	73,863	1,128,206
Area irrigated.....acres..	528,431	49,520	478,409	52	450	52	982	29,591	497,806
Cost per acre irrigated.....dollars..	2.28	2.83	2.22	3.17	2.89	3.17	2.34	2.50	2.27
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....enterprises..	22	4	18	.....	.....	.....	2	3	17
Amount.....dollars..	679,430	175,626	503,804	.....	.....	.....	1,508	59,124	618,798
Area irrigated.....acres..	557,545	44,002	513,543	.....	.....	.....	642	8,328	548,575
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶.....enterprises reporting..	76	19	34	20	3	14	25	17	20
.....acre-feet..	2,600,222	908,611	1,667,336	21,750	2,525	5,521	34,532	196,139	2,364,030
Surface sources.....enterprises reporting..	55	19	33	.....	3	4	15	16	20
.....acre-feet..	2,572,755	908,611	1,662,102	.....	2,042	2,688	23,110	187,488	2,359,469
Pumped wells.....enterprises reporting..	21	.....	.....	20	1	10	10	.....	.....
.....acre-feet..	22,233	.....	.....	21,750	483	2,833	10,900	8,500	.....
Other enterprises.....enterprises reporting..	3	.....	3	.....	.....	.....	1	.....	.....
.....acre-feet..	5,234	.....	5,234	.....	.....	.....	522	151	4,561
Conveyance loss ⁶.....enterprises reporting..	73	17	33	20	3	14	10	4	19
.....acre-feet..	353,275	58,231	293,409	1,420	215	531	4,245	33,423	315,076
Delivered: ⁶									
Direct to farms.....enterprises reporting..	76	19	34	20	3	14	25	17	20
.....acre-feet..	1,527,156	185,042	1,319,649	20,155	2,310	4,815	29,870	160,258	1,332,213
To other enterprises.....enterprises reporting..	20	2	18	.....	.....	.....	1	4	15
.....acre-feet..	35,872	310	35,562	.....	.....	.....	20	498	35,354
For use other than irrigation.....enterprises reporting..	13	7	5	1	.....	.....	4	1	7
.....acre-feet..	683,919	665,028	18,716	175	.....	175	397	1,960	681,387
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	75	19	34	19	3	14	24	17	20
Quantity delivered.....acre-feet..	1,518,643	181,372	1,317,206	17,755	2,310	4,815	25,836	157,150	1,330,842
Acreage supplied primary irrigation.....acres..	677,395	56,935	615,439	4,361	660	914	6,748	57,603	612,130
Quantity per acre supplied.....acre-feet..	2.2	3.2	2.1	4.1	3.5	5.3	3.8	2.7	2.2
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	7	4	2	1	.....	.....	3	3	1
Quantity delivered.....acre-feet..	8,513	3,670	2,443	2,400	.....	.....	4,034	3,108	1,371
Acreage supplied supplemental irrigation.....acres..	3,666	1,151	1,715	800	.....	.....	1,243	1,423	1,000
Quantity per acre supplied.....acre-feet..	2.3	3.2	1.4	3.0	.....	.....	3.2	2.2	1.4
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	6,071,856	390,728	5,619,991	52,677	8,460	5,537	47,972	480,201	5,538,146
Average cost per acre-foot.....dollars..	4.00	2.15	4.27	2.97	3.66	1.15	1.86	3.06	4.16
Cost for supplemental irrigation.....dollars..	26,417	1,927	20,490	4,000	.....	.....	4,250	15,747	6,420
Average cost per acre-foot.....dollars..	3.10	0.53	8.39	1.67	.....	.....	1.05	5.07	4.68
Measurement of water to farms:									
No water measured.....enterprises reporting..	68	15	32	18	3	12	23	13	20
.....acres..	655,099	59,932	590,356	5,051	660	804	7,226	47,416	599,653
Part of water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
All water measured.....enterprises reporting..	2	2	.....	.....	.....	.....	.....	2	.....
.....acres..	6,910	6,910	.....	.....	.....	.....	.....	6,910	.....

¹Complete-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.

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	Archer	Arm- strong	Atascosa	Austin	Bailey	Baylor	Bezar	Bra- zoria	Brew- ster
1	Irrigated farms.....number 1950..	21,427	3	11	118	4	338	3	171	174	4
2	.....number 1949..	15,110	.....	1	164	3	134	.....	292	153	1
3	Proportion of all farms.....percent 1950..	6.5	0.6	3.1	6.8	0.2	39.0	0.5	5.5	10.6	2.6
4	Land in irrigated farms.....acres 1950..	10,929,981	2,409	13,107	44,793	5,022	90,075	1,152	32,450	185,586	66,695
5	.....average per farm, acres 1950..	510.1	803.0	1,191.5	379.6	1,255.5	266.5	384.0	1,066.6	1,066.6	16,673.8
6	Value of land and buildings.....average per farm, dollars 1950..	50,690	22,675	66,357	27,067	71,500	38,748	43,000	36,840	57,766	113,980
7	.....average per acre, dollars 1950..	98.61	25.00	48.07	70.08	50.00	122.88	107.50	245.30	37.50	4.57
8	Proportion of irrigated farms reporting value.....percent 1950..	83	33	64	73	12	97	167	94	51	50
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	83	38	74	74	14	114	174	74	73	75
Land in irrigated farms according to use, 1949:											
10	Cropland harvested.....farms reporting..	21,104	3	11	117	4	334	3	163	173	3
11	.....acres..	4,354,847	549	5,414	7,522	1,645	74,082	745	9,265	79,923	116
12	Cropland used only for pasture.....acres..	764,066	492	315	3,299	1,034	955	50	7,369	25,176	23
13	Cropland not harvested and not pastured.....acres..	435,285	.....	742	1,634	.....	4,259	.....	3,010	7,589	.....
14	Woodland pastured.....acres..	856,749	.....	.....	29,906	200	285	256	9,511	4,981	.....
15	Other pasture (not cropland and not woodland).....acres..	4,187,680	1,332	6,498	110	685	9,618	97	652	63,915	66,140
16	Land pastured, total.....farms reporting..	10,600	3	9	80	2	216	3	84	105	3
17	.....acres..	5,810,495	1,824	6,813	33,315	1,919	10,858	403	17,532	94,072	66,163
18	Irrigated land in farms.....acres 1949..	3,131,534	724	1,093	4,106	1,239	50,125	144	9,521	78,036	259
19	.....acres 1944..	1,320,216	.....	150	2,943	857	12,117	.....	9,770	49,118	2
20	Land irrigated by sprinklers.....farms reporting 1949..	415	.....	.....	2	.....	.....	2	17	.....	.....
21	.....acres 1949..	41,508	.....	.....	103	.....	.....	44	1,109	.....	.....
Irrigated land in farms according to use, 1949:											
22	Irrigated cropland harvested.....farms reporting..	20,948	3	11	112	4	334	3	155	172	2
23	.....acres..	2,969,799	304	1,093	2,319	1,239	46,951	144	5,711	76,773	114
24	Irrigated pasture.....farms reporting..	3,091	1	.....	16	.....	139	.....	47	.....	2
25	.....acres..	105,688	20	.....	1,743	.....	1,927	.....	3,421	.....	125
26	Irrigated wild grass pasture.....farms reporting..	1,089	1	.....	7	.....	18	.....	24	.....	.....
27	.....acres..	35,273	20	.....	1,213	.....	621	.....	1,718	.....	.....
28	Irrigated tame grass pasture.....farms reporting..	2,210	.....	.....	10	.....	122	.....	26	.....	2
29	.....acres..	70,415	.....	.....	530	.....	1,306	.....	1,703	.....	125
30	Irrigated cropland not harvested and not pastured.....farms reporting..	1,750	1	.....	7	.....	45	.....	27	4	1
31	.....acres..	56,047	400	.....	44	.....	1,247	.....	389	1,263	20
Irrigated farms by acres irrigated in 1949:											
32	1-9 acres.....farms reporting..	2,601	.....	.....	46	.....	16	.....	45	5	.....
33	10-19 acres.....farms reporting..	2,268	.....	.....	30	.....	15	.....	28	7	1
34	20-29 acres.....farms reporting..	1,436	1	.....	13	.....	15	.....	25	6	2
35	30-49 acres.....farms reporting..	2,044	.....	2	16	.....	25	.....	33	7	.....
36	50-99 acres.....farms reporting..	3,319	1	3	8	.....	68	.....	22	18	.....
37	100-199 acres.....farms reporting..	4,971	.....	3	1	.....	125	.....	6	36	.....
38	200 acres and over.....farms reporting..	4,788	1	2	4	3	74	.....	12	95	1
Irrigated farms by tenure of operator, 1950:											
39	Full owners.....number..	9,067	1	4	55	1	166	1	101	19	2
40	Part owners.....number..	6,005	.....	5	26	3	88	2	29	101	2
41	Managers.....number..	523	.....	.....	1	.....	3	.....	4	8	.....
42	Tenants.....number..	5,832	2	2	36	.....	81	.....	37	46	.....
Land in wholly and in partly irrigated farms:											
43	Wholly irrigated farms.....number 1950..	13,330	1	.....	26	.....	211	.....	100	140	2
44	All land.....acres 1950..	5,202,193	1,347	.....	3,236	.....	33,616	.....	13,151	124,973	34,585
45	Cropland harvested.....acres 1949..	1,777,230	194	.....	554	.....	28,290	.....	3,046	66,342	114
46	Irrigated land.....acres 1949..	1,883,851	614	.....	608	.....	30,329	.....	5,041	66,902	214
47	Partly irrigated farms.....number 1950..	8,097	2	11	92	4	127	3	71	34	2
48	All land.....acres 1950..	5,727,788	1,062	13,107	41,557	5,022	56,459	1,152	19,307	60,613	32,110
49	Cropland harvested, total.....farms reporting 1949..	7,774	2	11	91	4	123	3	63	33	1
50	.....acres 1949..	2,577,617	355	5,414	6,968	1,645	45,792	745	6,219	13,581	2
51	Irrigated land.....acres 1949..	1,247,683	110	1,093	3,498	1,239	19,796	144	4,480	11,134	45
52	Irrigated cropland harvested.....farms reporting 1949..	7,618	2	11	86	4	123	3	55	32	.....
53	.....acres 1949..	1,192,569	110	1,093	1,765	1,239	18,661	144	2,665	10,431	.....
Characteristics of wholly irrigated and nonirrigated farms:											
54	Wholly irrigated farms.....number 1950..	13,330	1	.....	26	.....	211	.....	100	140	2
55	Average acreage per farm:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
56	All land.....acres 1949..	390.3	1,347.0	.....	124.5	.....	159.3	.....	131.5	892.7	17,292.5
57	Cropland harvested.....acres 1949..	133.3	194.0	.....	21.3	.....	134.1	.....	30.5	473.9	57.0
58	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	9.2	(1)	.....	(1)	.....	(1)	.....	0.4	0.1	.....
59	Vegetables harvested for sale.....acres 1949..	12.3	.....	.....	8.0	.....	0.9	.....	12.0	.....	0.5
60	Small grains (including sorghums).....acres 1949..	55.8	130.0	.....	0.8	.....	62.1	.....	3.0	473.8	50.0
61	All hay.....acres 1949..	4.1	.....	.....	0.2	.....	15.8	.....	5.3	0.2	.....
Farms by tenure of operator:											
62	Full owners and managers.....number 1950..	6,629	1	.....	11	.....	128	.....	60	20	1
63	Part owners.....number 1950..	3,328	.....	.....	4	.....	29	.....	15	78	1
64	Tenants.....number 1950..	3,373	.....	.....	11	.....	54	.....	25	42	.....
65	Value of land and buildings per farm.....dollars 1950..	41,567	.....	.....	11,250	.....	37,274	.....	26,356	40,733	200,000
Nonirrigated farms.....number 1950..											
66	Average acreage per farm:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
67	All land.....acres 1949..	433.5	1,302.0	2,264.5	451.0	159.1	667.3	640.5	204.3	336.8	18,209.3
68	Cropland harvested.....acres 1949..	76.6	138.6	434.9	80.0	34.5	367.3	186.6	42.6	23.3	4.0
69	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.5	0.1	(1)	0.2	0.2	(1)	0.2	0.3	0.2	0.1
70	Vegetables harvested for sale.....acres 1949..	0.7	0.1	(1)	5.0	0.5	0.1	(1)	0.7	0.7	(1)
71	Small grains (including sorghums).....acres 1949..	29.6	118.6	402.4	26.1	1.0	189.5	148.2	11.6	0.5	.....
72	All hay.....acres 1949..	3.6	6.7	2.8	0.6	9.0	0.2	2.5	7.1	3.0	2.3
Farms by tenure of operator:											
73	Full owners and managers.....number 1950..	157,917	234	157	692	1,296	169	313	1,958	777	87
74	Part owners.....number 1950..	57,228	154	92	431	449	128	146	479	393	29
75	Tenants.....number 1950..	94,995	152	93	496	619	232	180	524	298	36
76	Value of land and buildings per farm.....dollars 1950..	18,282	50,801	62,318	16,760	9,351	31,055	30,474	22,847	17,211	152,551
Irrigated farms and irrigated land by origin of water, 1949:											
77	Individually operated supply works and—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
78	No other irrigation enterprise.....farms reporting..	10,786	.....	10	103	4	327	3	54	49	4
79	.....acres irrigated..	1,988,787	.....	1,073	3,989	1,239	49,805	144	2,994	15,460	259
80	1 other irrigation enterprise.....farms reporting..	380	.....	.....	.....	.....	2	.....	4	2	.....
81	.....acres irrigated..	121,051	.....	.....	.....	.....	81	.....	1,674	545	.....
82	2 or more other irrigation enterprises.....farms reporting..	53	.....	.....	.....	.....	1	.....	1	1	.....
83	.....acres irrigated..	26,740	.....	.....	.....	.....	.....	.....	.....	1,490	.....
No individually operated supply works but—											
84	1 other irrigation enterprise.....farms reporting..	9,676	3	1	15	.....	9	.....	106	117	.....
85	.....acres irrigated..	885,805	724	20	117	.....	239	.....	4,513	58,742	.....
86	2 or more other irrigation enterprises.....farms reporting..	532	.....	.....	.....	.....	.....	.....	7	5	.....
87	.....acres irrigated..	109,150	.....	.....	.....	.....	.....	.....	340	1,799	.....

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]

Briscoe	Brooks	Brown	Calhoun	Cameron	Castro	Chambers	Cherokee	Child-ress	Cochran	Coleman	Colorado	Comanche	Concho	Crockett	Crosby	Culber-son
90	21	65	35	2,937	401	124	41	3	47	7	153	3	3	4	304	6
6	19	25	1	2,424	176	157	3	.....	.....	0	94	.....	33	.....	21	.....
19.4	7.6	3.7	10.6	82.4	67.1	32.0	1.0	0.4	10.7	0.4	6.3	0.1	0.5	770	114,898	141,600
60,358	24,974	24,687	30,769	363,114	324,398	146,692	5,856	1,662	31,540	8,017	142,264	3,159	256.7	1,723,500	28,724.5	466.1
670.6	1,189.2	379.8	879.1	123.6	660.7	1,183.0	142.8	554.0	671.1	1,145.3	929.8	1,052.7	.....	18.23	60,212	117,773
61,551	27,106	33,766	21,355	31,999	71,642	55,953	5,999	32,500	46,523	104,105	44,998	.....	.....	25	132.51	8.82
111.05	32.76	161.89	43.38	256.62	105.19	46.19	21.95	41.94	117.93	56.43	50.75	.....	.....	89	133	.....
77	148	86	103	82	93	60	73	167	79	71	83	.....	.....	82	87	99
63	103	47	58	83	96	62	140	233	46	115	79	.....	.....	.....	.....	.....
90	21	59	35	2,904	491	123	41	3	45	7	152	3	3	4	303	5
34,839	1,912	4,739	10,769	293,935	213,224	60,218	1,155	461	21,264	1,703	43,033	810	679	795	107,471	1,795
1,725	156	2,086	8,568	8,632	5,517	31,568	773	601	176	748	36,258	61	11	304	2,294	260
3,556	246	200	1,813	19,423	22,808	12,391	638	300	162	37	2,740	.....	.....	.....	4,496	216
7	22,250	15,675	43	3,688	1,345	1,603	1,116	.....	.....	3,500	25,520	2,284	.....	.....	1,569	.....
19,229	.....	630	9,269	8,577	75,929	29,090	1,369	270	9,602	1,999	33,286	.....	46	113,667	22,859	105,113
75	11	50	21	625	395	91	37	3	34	7	117	2	3	3	229	4
20,961	22,406	18,391	17,880	21,097	82,791	62,261	3,258	871	9,778	6,247	95,064	2,345	57	113,971	26,722	105,373
14,315	460	2,075	9,966	226,828	128,207	69,396	197	160	6,590	127	41,060	30	115	701	57,039	1,885
878	250	855	1,070	108,977	39,324	38,043	90	.....	.....	159	33,159	.....	75	.....	3,250	.....
.....	5	2	1	36	1	.....	2	1	2	2	.....	.....	1	.....	.....	.....
.....	128	22	74	5,013	150	.....	20	70	14	20	.....	.....	12	.....	.....	.....
90	21	58	35	2,897	491	123	41	3	45	6	151	3	3	4	302	5
14,151	455	1,537	9,438	219,289	124,719	67,585	197	130	6,440	123	40,015	26	115	701	56,241	1,795
10	.....	18	.....	163	90	3	.....	1	11	1	4	.....	.....	.....	56	1
115	.....	445	.....	2,975	2,164	350	2	30	148	4	1,020	4	.....	.....	717	10
2	.....	8	.....	96	28	2	.....	1	3	1	3	.....	.....	.....	18	.....
58	.....	158	.....	1,326	662	250	.....	30	56	4	970	.....	.....	.....	309	.....
8	.....	12	.....	81	66	1	.....	.....	9	.....	1	.....	.....	.....	38	1
57	.....	287	.....	1,649	1,502	100	.....	.....	92	.....	50	4	.....	.....	408	10
3	1	5	2	209	26	8	.....	.....	1	.....	1	.....	.....	.....	6	1
49	5	93	528	4,564	1,324	1,461	.....	.....	2	.....	25	.....	.....	.....	81	80
.....	7	21	.....	540	3	.....	37	.....	2	2	.....	.....	1	.....	.....	.....
.....	8	14	.....	522	2	.....	4	.....	2	2	.....	.....	2	.....	.....	.....
2	3	5	.....	325	5	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....
4	.....	11	.....	448	2	.....	.....	.....	4	.....	8	.....	.....	.....	.....	.....
18	2	10	.....	510	45	.....	.....	.....	8	1	23	.....	.....	.....	.....	.....
39	1	3	.....	344	187	.....	.....	.....	20	.....	40	.....	.....	.....	.....	.....
27	.....	16	.....	248	247	.....	.....	.....	11	.....	78	.....	.....	.....	.....	.....
20	12	25	9	1,213	206	14	20	3	9	1	28	.....	.....	.....	79	1
35	8	23	14	981	110	83	13	.....	15	4	89	.....	.....	.....	74	3
2	.....	1	.....	62	7	1	.....	.....	1	.....	1	.....	.....	.....	2	.....
33	1	16	12	681	168	26	8	.....	22	.....	35	.....	.....	.....	149	1
16	9	25	26	2,411	168	102	6	.....	4	.....	115	.....	.....	.....	54	5
3,872	22,357	3,714	17,867	201,667	67,978	118,594	475	.....	879	.....	106,652	3	90	16,358	12,731	86,788
2,976	259	543	5,917	161,651	47,537	60,722	27	.....	647	.....	33,769	2	70	441	10,333	1,795
3,056	259	741	6,445	167,140	49,059	62,483	27	.....	671	.....	34,064	2	70	441	10,597	1,795
74	12	40	9	526	323	22	35	3	43	7	38	.....	.....	.....	250	1
56,486	2,617	20,973	12,902	162,047	256,420	28,098	5,381	1,662	30,661	0,017	35,612	3,155	680	98,540	128,949	20,746
74	12	34	9	493	323	21	35	3	61	7	37	.....	.....	.....	249	.....
31,862	1,653	4,196	4,852	132,284	165,687	7,496	1,128	461	20,617	1,703	9,264	808	609	354	97,138	90
11,259	201	1,334	59,688	79,148	6,913	170	160	.....	5,919	127	6,996	28	45	260	46,442	51
74	12	33	9	486	323	21	35	3	41	6	36	.....	.....	.....	248	.....
11,175	196	994	3,521	57,638	77,182	6,863	170	130	5,793	123	6,246	24	45	260	45,908	53
16	9	25	26	2,411	168	102	6	.....	4	.....	115	.....	.....	.....	54	5
242.0	2,484.1	148.6	687.2	83.4	404.6	1,162.7	79.2	.....	219.8	.....	927.4	3.0	90.0	8,179.0	235.8	17,357.6
186.0	28.8	21.7	227.6	67.0	283.0	595.3	4.5	.....	161.8	.....	293.6	2.0	70.0	220.5	191.4	359.0
0.1	22.2	0.9	(1)	8.0	(1)	(1)	(1)	.....	(1)	.....	(1)	.....	(1)	(1)	(1)	(1)
.....	0.9	0.8	.....	14.5	2.5	.....	1.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
131.0	.....	.....	227.6	-1.6	221.0	596.7	.....	.....	25.2	.....	294.3	.....	70.0	.....	43.0	.....
4.1	.....	18.1	.....	0.4	5.4	.....	.....	.....	.....	.....	0.3	.....	.....	120.0	0.4	19.0
9	7	13	5	1,102	75	12	6	.....	.....	.....	16	.....	.....	.....	14	2
3	2	7	9	733	19	67	.....	.....	1	.....	66	.....	.....	.....	9	62
4	.....	5	12	576	74	23	.....	.....	3	.....	33	.....	.....	.....	31	1
37,733	26,667	57,976	10,511	25,707	54,169	51,713	5,500	.....	36,000	.....	42,957	.....	.....	.....	30,727	140,681
374	257	1,704	296	627	241	263	4,106	782	393	1,589	1,687	2,333	615	139	570	64
809.2	2,792.8	317.9	713.5	220.7	749.8	664.5	119.0	507.7	732.6	482.8	259.5	234.4	946.9	13,395.2	498.0	32,986.3
250.5	60.0	59.4	106.6	96.7	458.0	9.9	17.8	187.4	370.4	132.3	30.8	63.7	190.4	6.7	310.0	(1)
(1)	0.8	0.8	(1)	2.9	(1)	0.1	0.6	0.1	(1)	0.8	0.6	2.7	(1)	(1)	(1)	(1)
(1)	16.8	0.1	0.1	9.0	0.1	0.1	1.9	(1)	(1)	(1)	0.2	0.7	(1)	.....	(1)	(1)
162.5	8.2	32.2	17.1	1.7	432.2	0.7	0.1	59.1	124.2	98.1	1.0	17.9	124.6	1.0	122.7	69
0.4	2.8	2.9	3.6	0.7	1.6	4.5	1.1	0.9	0.3	1.4	8.1	1.9	3.0	1.3	0.4	71
172	111	992	122	300	111	159	2,198	317	115	643	880	1,263	311	40	244	33
94	69	373	63	109	53	59	690	142	89	353	325	570	117	35	116	15
108	77	339	111	218	77	45	1,218	323	189	593	482	500	187	64	210	16
34,822	36,375	14,156	24,464	36,370	53,945	22,097	4,496	23,200	33,395	23,366	16,511	12,380	48,634	239,016	41,249	242,319
89	21	3	.....	163	478	18	40	.....	45	6	27	.....	.....	.....	294	5
14,273	460	92	.....	22,721	126,519	6,295										

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)	Dallam	Dallas	Dawson	Deaf Smith	Dickens	Dimmit	Donley	Ector	Edwards	El Paso
1 Irrigated farms.....number 1950..	37	24	6	375	5	179	4	6	3	700
2	53	35	1	189	.....	209	.....	8	1	862
3 Proportion of all farms.....percent 1950..	9.9	0.7	0.5	52.0	0.6	53.4	0.6	9.8	1.2	91.0
4 Land in irrigated farms.....acres 1950..	27,586	2,432	3,021	321,676	14,498	169,548	980	5,472	570	204,628
5	745.6	101.3	503.5	857.8	2,899.6	947.2	245.0	912.0	190.0	292.3
6 Value of land and buildings.....average per farm, acres 1950..	59,408	26,720	.....	78,633	53,943	53,920	12,800	177,000	15,640	77,735
7	65.66	119.39	.....	96.31	25.23	71.88	80.00	50.00	40.10	257.02
8 Proportion of irrigated farms reporting value.....percent 1950..	81	104	.....	87	140	109	125	83	167	94
9 Proportion of land in irrigated farms for which value was reported.....percent 1950..	98	230	.....	83	103	86	82	323	342	97
Land in irrigated farms according to use, 1949:										
10 Cropland harvested.....farms reporting..	37	23	6	371	5	173	4	5	3	697
11	15,494	1,199	2,732	159,806	2,075	16,363	859	711	55	70,288
12 Cropland used only for pasture.....acres..	748	501	31	6,450	312	11,832	24	.....	10	404
13 Cropland not harvested and not pastured.....acres..	2,300	175	29	46,273	.....	2,797	71	100	.....	1,393
14 Woodland pastured.....acres..	.....	111	.....	10,618	244	59,282	.....	.....	354	752
15 Other pasture (not cropland and not woodland).....acres..	8,778	329	188	94,871	11,791	73,781	16	1,815	.....	121,365
16 Land pastured, total.....farms reporting..	31	13	5	286	5	133	3	2	9	30
17	9,526	941	219	111,939	12,347	144,895	40	1,815	364	122,522
18 Irrigated land in farms.....acres 1949..	4,883	328	423	93,111	153	21,898	107	395	26	71,362
19	706	238	3	45,773	.....	13,345	.....	2	.....	58,457
20 Land irrigated by sprinklers.....farms reporting 1949..	1	2	4	2	.....	19	.....	.....	.....	.....
21	50	5	348	172	.....	1,646	.....	167	.....	.....
Irrigated land in farms according to use, 1949:										
22 Irrigated cropland harvested.....farms reporting..	37	22	6	368	4	172	3	5	3	697
23	4,650	287	423	88,059	148	13,567	87	295	26	70,275
24 Irrigated pasture.....farms reporting..	10	2	.....	67	1	62	.....	1	.....	10
25	188	40	.....	2,159	5	7,900	.....	100	.....	59
26 Irrigated wild grass pasture.....farms reporting..	1	1	.....	21	1	15	.....	.....	.....	4
27	9	3	.....	622	2	2,291	.....	.....	.....	38
28 Irrigated tame grass pasture.....farms reporting..	20	1	.....	49	1	52	.....	1	.....	6
29	168	37	.....	1,537	3	5,609	.....	100	.....	21
30 Irrigated cropland not harvested and not pastured.....farms reporting..	2	1	.....	47	.....	17	1	.....	.....	29
31	45	1	.....	2,893	.....	431	20	.....	.....	1,028
Irrigated farms by acres irrigated in 1949:										
32 1-9 acres.....farms reporting..	1	13	.....	5	3	23	.....	4	2	180
33 10-19 acres.....farms reporting..	1	4	2	13	.....	23	1	.....	1	67
34 20-29 acres.....farms reporting..	.....	4	.....	10	1	19	1	.....	.....	45
35 30-49 acres.....farms reporting..	3	2	.....	13	.....	32	2	.....	.....	84
36 50-99 acres.....farms reporting..	17	1	3	35	.....	32	.....	.....	.....	122
37 100-199 acres.....farms reporting..	6	.....	.....	133	1	23	.....	1	.....	82
38 200 acres and over.....farms reporting..	9	.....	1	166	.....	27	.....	.....	.....	100
Irrigated farms by tenure of operator, 1950:										
39 Full owners.....number..	17	10	.....	197	3	83	1	4	2	392
40 Part owners.....number..	6	3	4	91	.....	60	2	1	.....	170
41 Managers.....number..	.....	1	.....	2	1	8	.....	.....	.....	25
42 Tenants.....number..	14	10	2	85	1	28	1	1	1	113
Land in wholly and in partly irrigated farms:										
43 Wholly irrigated farms.....number 1950..	9	12	1	154	.....	105	.....	3	.....	695
44 All land.....acres 1950..	1,383	133	60	62,394	.....	112,874	.....	7	.....	204,500
45 Cropland harvested.....acres 1949..	1,124	77	60	38,457	.....	8,890	.....	7	.....	70,173
46 Irrigated land.....acres 1949..	1,250	78	60	41,726	.....	15,661	.....	7	.....	71,314
47 Partly irrigated farms.....number 1950..	28	12	5	221	5	74	4	3	3	5
48 All land.....acres 1950..	26,203	2,299	2,961	259,282	14,498	56,674	980	5,465	570	128
49 Cropland harvested, total.....farms reporting 1949..	28	11	5	217	5	68	4	2	3	2
50	14,370	1,122	2,672	121,349	2,075	7,473	859	704	55	115
51 Irrigated land.....acres 1949..	3,633	250	363	51,385	153	6,237	107	388	26	48
52 Irrigated cropland harvested.....farms reporting 1949..	28	10	5	214	4	67	3	2	3	2
53	3,526	210	363	49,602	148	4,677	87	288	26	102
Characteristics of wholly irrigated and nonirrigated farms:										
54 Wholly irrigated farms.....number 1950..	9	12	1	154	.....	105	.....	3	.....	695
55 Average acreage per farm:										
56 All land.....acres 1949..	153.7	11.1	60.0	405.2	.....	1,075.0	.....	2.3	.....	294.2
57 Cropland harvested.....acres 1949..	124.9	6.4	60.0	249.7	.....	84.7	.....	2.3	.....	101.0
58 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	0.1	.....	(¹)	.....	6.2	.....	0.3	.....	0.2
59 Vegetables harvested for sale.....acres 1949..	.....	5.2	.....	3.8	.....	52.7	.....	.....	.....	0.6
60 Small grains (including sorghums).....acres 1949..	58.9	.....	50.0	207.2	.....	3.3	.....	.....	.....	0.3
61 All hay.....acres 1949..	63.9	.....	25.0	10.4	.....	4.4	.....	.....	.....	14.5
Farms by tenure of operator:										
62 Full owners and managers.....number 1950..	5	8	.....	91	.....	61	.....	3	.....	412
63 Part owners.....number 1950..	1	2	.....	28	.....	28	.....	.....	.....	170
64 Tenants.....number 1950..	3	2	1	35	.....	16	.....	.....	.....	113
65 Value of land and buildings per farm.....dollars 1950..	16,000	1,250	.....	73,327	.....	50,021	.....	.....	.....	78,463
Nonirrigated farms.....number 1950..										
66 Average acreage per farm:										
67 All land.....acres 1949..	2,616.6	105.8	433.3	1,381.4	658.6	925.5	822.2	9,983.0	4,320.2	4,531.9
68 Cropland harvested.....acres 1949..	621.2	45.4	311.3	585.5	184.8	14.0	166.1	6.8	14.3	11.2
69 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	0.6	0.1	(¹)	0.1	0.8	0.3	0.1	0.6	0.2
70 Vegetables harvested for sale.....acres 1949..	(¹)	0.2	(¹)	(¹)	(¹)	1.8	0.3	(¹)	(¹)	0.1
71 Small grains (including sorghums).....acres 1949..	575.6	12.7	59.8	567.8	63.6	1.5	87.9	0.5	3.0	.....
72 All hay.....acres 1949..	2.3	6.3	0.3	1.8	0.3	3.1	2.5	0.1	3.4	0.2
Farms by tenure of operator:										
73 Full owners and managers.....number 1950..	147	2,312	393	187	367	76	323	36	139	56
74 Part owners.....number 1950..	95	391	278	81	173	46	142	10	40	6
75 Tenants.....number 1950..	93	792	552	78	239	34	216	9	71	7
76 Value of land and buildings per farm.....dollars 1950..	67,088	23,037	38,819	72,878	26,162	56,641	27,899	94,490	106,205	33,142
Irrigated farms and irrigated land by origin of water, 1949:										
77 Individually operated supply works and—										
78 No other irrigation enterprise.....farms reporting..	37	24	6	367	5	166	4	4	3	2
79	4,883	328	423	92,703	153	21,482	107	10	26	610
80 1 other irrigation enterprise.....farms reporting..	.....	.....	.....	1	.....	1	.....	2	.....	6
81 .....	.....	.....	.....	20	.....	20	.....	385	.....	3,266
82 2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
83 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
84 No individually operated supply works but—										
85 1 other irrigation enterprise.....farms reporting..	.....	.....	.....	7	.....	12	.....	.....	.....	689
86 .....	.....	.....	.....	388	.....	396	.....	.....	.....	64,994
87 2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
88 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,492

See footnote at end of County Table 1.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

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

Falls	Fisher	Floyd	Fort Bend	Frio	Gaines	Galveston	Garza	Gil-lespie	Glass-cock	Gonzales	Gray	Hale	Hansford	Hardeman	Hardin	Harris
5	6	584	45	18	49	28	22	3	9	6	3	1,482	6	12	5	122
0.2	0.5	48.0	1.8	3.0	10.3	4.7	5.0	0.2	5.8	0.2	0.5	79.1	1.9	1.5	0.5	5.2
1,324	3,140	246,795	158,563	18,066	38,998	27,365	11,602	2,650	73,659	7,574	485	532,922	17,197	7,012	1,277	116,511
264.8	523.3	422.6	3,523.6	1,033.7	795.9	977.3	527.4	883.3	8,184.3	1,262.3	161.7	359.6	2,866.2	584.3	255.4	955.0
		63,177	182,500	90,165	55,550	47,661	74,802		226,640		6,400	53,516	189,733	14,190		149,287
		136.55	51.92	63.56	88.72	111.64	80.52		16.99		40.00	142.03	55.16	30.00		136.70
		74	80	94	98	93	73		56		167	95	100	42		56
		82	80	133	77	41	128		90		165	100	120	34		64
4	5	581	45	17	48	28	22	3	8	5	3	1,453	6	12	5	120
1,041	2,229	195,191	27,399	2,491	13,631	23,267	6,851	147	1,275	703	79	417,226	2,362	2,156	489	39,448
35	4,701	1,848	1,672	1,848	1,672	826	308		123	50	78	10,021	268	269	489	51,412
16	105	9,780	19,114	70	1,360	2,004	99	14	60	107	3	16,295	6,353	1,015		4,770
78	404	405	16,868	13,426	8,183	15	754	1,416		3,963	49	718			210	6,291
139	3	30,667	63,526	150	13,822	977	3,409	57	71,977	2,529	260	73,749	8,179	3,509		11,405
4	5	488	34	13	28	10	21	3	9	6	3	1,104	5	12	5	79
252	758	35,773	107,658	15,424	23,677	1,818	4,471	1,473	72,100	6,542	387	84,488	8,447	3,778	699	69,108
42	591	134,535	24,774	2,323	7,216	22,777	1,527	14	643	844	80	318,410	375	485	489	37,161
		56,615	15,844	916	2	8,330	353	3		77	4	101,283				17,175
		2	1	4			1		2	1	1	3	2			4
		13	307	307			4		120	470	45	60	135			417
4	5	580	45	14	47	28	22	3	8	4	3	1,443	6	11	5	120
30	562	129,515	24,374	1,429	7,126	22,777	1,415	14	574	129	45	308,972	375	410	489	36,841
1	1	147	2	7	4		3		3	4	1	345		3		24
12	29	3,310	400	884	30		12		68	715	30	7,631		41		65
		70	1	1	1				3			136		1		26
1	8	1,742	100	100					245			3,920		8		27
1	2	95	1	6	4		3		3	1	1	241		3		28
12	21	1,568	300	784	30		12		68	470	30	3,711		33		65
		33		1	1		5		1		1	75		2		3
		1,710		10	60		100		1		5	1,807		34		255
3	2	3		2	1	7	1	3	1			55			1	13
1	1	4		3	2	2	3					36				2
1		7	1	2	1		1		2	1	1	25		3	2	34
		15	2	3	3		3		1	1	1	47		5	1	35
		76	4	4	14		7		3	2		140		3	4	36
		210	5	1	18		6		3	1		557		1		22
		269	33	3	12		2			1		622			1	37
1	4	211	7	8	21	8	11	3	1	5	1	591	2	8		24
1	2	156	22	7	15	11	4		7	1		295	1	4	5	55
1		5	4		1				1			10				6
2		212	12	3	12	9	7				2	586	3			37
		289	31	5	21	18	1		3	1	1	791	3	1	5	82
		83,263	47,747	538	5,441	25,650	153		41,280	145	85	202,117	3,607	400	1,277	81,764
		66,097	19,890	134	3,768	22,341	100		165	30	15	164,579	160	50	489	28,860
		69,904	20,190	213	3,784	22,341	125		225	80	20	170,020	160	50	489	28,925
5	6	295	14	13	28	10	21	3	6	5	2	691	3	11		40
1,324	3,140	163,532	110,816	17,528	33,557	1,715	11,449	2,650	32,379	7,429	400	330,805	13,590	6,612		34,747
4	5	292	14	12	27	10	21	3	5	4	2	662	3	11		38
1,041	2,229	129,094	7,509	2,357	9,863	926	6,751	147	1,110	673	64	252,647	2,202	2,106		10,588
42	591	64,631	4,584	2,110	3,432	436	1,402	14	418	764	60	148,390	215	435		8,236
4	5	291	14	9	26	10	21	3	5	3	2	652	3	10		38
30	562	63,418	4,484	1,295	3,358	436	1,315	14	409	99	30	144,393	215	360		7,981
		289	31	5	21	18	1		3	1	1	791	3	1	5	82
		288.1	1,540.2	107.6	259.1	1,425.0	153.0		13,760.0	145.0	85.0	255.5	1,202.3	400.0	255.4	997.1
		228.7	641.6	26.8	179.4	1,241.2	100.0		55.0	30.0	15.0	208.1	53.3	50.0	97.8	352.0
	(1)	(1)	(1)	1.4	(1)	(1)			(1)		3.0	0.1	2.0	(1)	(1)	57
	(1)	(1)	11.2	4.0	(1)	0.1					2.0	0.2				1.1
		109.1	641.6	4.0	2.6	1,244.0	95.0		33.3			102.6			92.2	360.2
		12.0			1.0				13.7	15.0		8.1	53.3	50.0		0.6
		128	5	4	13	3			1	1	1	333	2	1		16
		58	15	1	3	7			2			120			5	38
		103	11		5	8	1					338	1			28
		48,675	62,932	29,300	40,980	69,245			228,267			42,997				201,678
2,896	1,253	632	2,480	582	427	562	422	1,353	145	2,488	548	391	305	783	991	3,238
154.5	391.0	542.8	178.5	1,073.8	1,956.5	136.9	1,170.7	494.8	3,597.6	236.6	978.6	223.2	2,155.5	477.0	40.2	149.1
77.6	153.2	292.4	48.4	119.9	277.1	15.8	192.9	57.6	119.3	31.7	263.5	156.9	938.3	208.7	3.2	11.5
0.4	0.4	(1)	0.3	0.1	0.1	0.9	0.2	2.5	0.1	0.5	0.2	(1)	(1)	0.1	0.3	0.1
0.7	0.1	(1)	0.4	12.5	0.1	0.8	(1)	0.2	(1)	0.9	0.3	(1)	(1)	(1)	0.1	0.9
6.1	41.1	233.6	0.6	18.9	132.6	0.2	39.5	31.9	13.1	3.5	234.8	107.3	915.2	125.7	(1)	0.4
5.5	1.2	0.7	5.4	1.8	0.2	13.3	0.6	2.9		2.6	3.8	0.4	1.5	1.9	0.3	4.3
1,059	519	262	872	267	158	340	167	901	45	1,362	229	233	110	353	762	2,214
556	281	160	138	147	138	154	71	259	57	486	141	49	120	163	68	507
1,281	453	210	1,222	168	131	68	184	193	43	640	178	109	75	267	161	517
11,774	19,889	35,600	14,692	37,415	35,066	17,085	32,956	24,976	89,732	13,620	50,578	27,041	114,297	24,279	4,270	23,256
3	6	559	29	17	47	14	22	3	9	6	2	1,426	6	12	5	94
17	591	131,019	12,605	2,311	7,031	2,185	1,527	14	643	844	65	316,278	375	485	489	31,712
		12				1						4				2
		2,204				145						459				890
		2														79
		434														80
																81
2		11	16	1	2	13					1	51				26
25		878	12,169	12	185	20,447		</								

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)		Hays	Henderson	Hidalgo	Hockley	Houston	Hudspeth	Irion	Jackson	Jeff Davis
1	Irrigated farms..... number 1950..	3	4	4,608	512	4	93	32	58	16
2	Proportion of all farms..... percent 1945..	0.3	0.1	4,716	22	2	81	51	27	16
3	Land in irrigated farms..... acres 1950..	1,063	1,512	549,651	198,951	1,670	154,767	38,892	63,536	56,975
4	Value of land and buildings..... average per farm, acres 1950..	354.3	378.0	119.3	388.6	417.5	1,664.2	1,215.4	1,095.4	3,560.9
5	Proportion of irrigated farms reporting value..... percent 1950..	167	76	37,969	48,832	133,000	118,840	18,867	78,869	37,362
6	Proportion of land in irrigated farms for which value was reported..... percent 1950..	11	87	276.85	131.74	100.00	41.63	144.76	55.04	14.48
7	Land in irrigated farms according to use, 1949:									
8	Cropland harvested..... farms reporting..	3	4	4,547	511	4	92	31	58	16
9	Cropland used only for pasture..... acres..	77	116	378,267	169,855	652	21,254	1,374	21,342	1,306
10	Cropland not harvested and not pastured..... acres..	9	280	13,207	2,929	563	365	222	2,329	572
11	Woodland pastured..... acres..	800	18	41,863	15,679	56	3,364	98	545	545
12	Other pasture (not cropland and not woodland)..... acres..	2	866	53,697	142	329	1,140	27,902	1,326	707
13	Land pastured, total..... farms reporting..	2	154	35,807	6,686	2	103,867	9,211	38,177	51,710
14	Irrigated land in farms..... acres 1949..	809	3	817	367	4	27	28	38	12
15	Land irrigated by sprinklers..... farms reporting 1949..	29	1,300	102,711	9,757	894	105,372	37,335	41,832	52,989
16	Irrigated land in farms according to use, 1949:	16	31	359,528	70,067	512	21,779	1,058	19,552	1,505
17	Irrigated cropland harvested..... farms reporting..	2	2	181,198	2,798	16	15,451	2,386	8,224	1,047
18	Irrigated pasture..... farms reporting..	3	4	4,534	507	4	92	31	58	16
19	Irrigated wild grass pasture..... farms reporting..	29	31	330,366	68,928	512	21,177	955	19,324	1,269
20	Irrigated tame grass pasture..... farms reporting..	2	3	416	71	9	6	2	1	1
21	Irrigated cropland not harvested and not pastured..... farms reporting..	2	3	10,366	588	365	93	220	100	100
22	Irrigated cropland not harvested and not pastured..... acres..	2	3	263	6	1	1	1	1	1
23	Irrigated cropland not harvested and not pastured..... acres..	2	3	4,829	51	23	40	30	50	50
24	Irrigated cropland not harvested and not pastured..... acres..	2	3	174	66	8	5	1	1	1
25	Irrigated cropland not harvested and not pastured..... acres..	2	3	5,537	537	342	53	190	50	50
26	Irrigated cropland not harvested and not pastured..... acres..	2	3	794	9	8	2	1	4	4
27	Irrigated cropland not harvested and not pastured..... acres..	2	3	18,796	551	237	10	8	136	136
28	Irrigated farms by acres irrigated in 1949:									
29	1-9 acres..... farms reporting..	2	3	966	5	3	1	3	2	6
30	10-19 acres..... farms reporting..	1	1	906	11	1	10	2	3	3
31	20-29 acres..... farms reporting..	1	1	509	9	3	5	1	1	1
32	30-49 acres..... farms reporting..	1	1	37	37	3	7	1	1	1
33	50-99 acres..... farms reporting..	1	1	639	37	3	3	2	2	2
34	100-199 acres..... farms reporting..	1	1	713	133	31	6	14	1	1
35	200 acres and over..... farms reporting..	1	1	521	220	22	1	14	1	1
36	Irrigated farms by tenure of operator, 1950:									
37	Full owners..... number..	2	1	354	97	1	32	38	3	3
38	Part owners..... number..	2	1	2,541	150	3	55	19	7	11
39	Managers..... number..	1	3	1,161	122	1	20	10	30	1
40	Tenants..... number..	1	3	240	6	6	2	2	2	2
41	Tenants..... number..	1	3	666	234	12	3	19	4	4
42	Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms..... number 1950..	1	1	4,231	56	1	91	25	47	14
44	All land..... acres 1950..	547	49,313	10,354	5	154,081	16,266	25,617	56,800	56,800
45	Cropland harvested..... acres 1949..	20	295,579	9,090	3	20,877	723	14,271	1,247	1,247
46	Irrigated land..... acres 1949..	20	322,945	9,275	3	21,404	792	14,491	1,483	1,483
47	Partly irrigated farms..... number 1950..	3	3	377	456	3	2	7	11	2
48	All land..... acres 1950..	1,063	965	100,338	188,597	1,665	686	22,626	37,919	175
49	Cropland harvested, total..... farms reporting 1949..	3	3	316	455	3	1	6	11	2
50	Irrigated land..... acres 1949..	77	96	82,688	160,775	649	377	651	7,071	59
51	Irrigated cropland harvested..... farms reporting 1949..	29	11	36,583	60,792	509	375	266	5,061	22
52	Irrigated cropland harvested..... farms reporting 1949..	3	3	303	451	3	1	6	11	2
53	Irrigated cropland harvested..... acres 1949..	29	11	34,787	59,838	509	300	232	5,053	22
54	Characteristics of wholly irrigated and nonirrigated farms:									
55	Wholly irrigated farms..... number 1950..	1	1	4,231	56	1	91	25	47	14
56	Average acreage per farm:									
57	All land..... acres 1949..	547.0	106.2	184.9	5.0	1,693.2	650.6	545.0	4,057.1	4,057.1
58	Cropland harvested..... acres 1949..	20.0	69.9	162.3	3.0	229.4	28.9	303.6	89.1	89.1
59	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards..... acres 1949..	0.4	0.3	12.9	(¹)	0.3	0.1	(¹)	(¹)	0.2
60	Vegetables harvested for sale..... acres 1949..	0.1	1.8	8.1	(¹)	1.1	1.3	0.1	(¹)	(¹)
61	Small grains (including sorghums)..... acres 1949..	10.1	0.2	4.0	66.9	1.9	0.9	20.6	6.1	6.1
62	All hay..... acres 1949..	7.1	1.1	0.8	0.1	2.6	1.7	4.4	2.1	2.1
63	Farms by tenure of operator:									
64	Full owners and managers..... number 1950..	1	1	2,627	30	1	60	15	5	9
65	Part owners..... number 1950..	1	1	1,004	4	1	19	7	24	1
66	Tenants..... number 1950..	1	1	600	22	1	12	3	18	4
67	Value of land and buildings per farm..... dollars 1950..	34,242	16,232	118,840	18,867	106,817	60,600	60,600	60,600	60,600
68	Nonirrigated farms..... number 1950..	924	2,689	706	855	2,634	57	88	1,068	76
69	Average acreage per farm:									
70	All land..... acres 1949..	404.0	163.7	586.9	467.6	199.5	38,763.0	8,386.2	332.9	26,300.6
71	Cropland harvested..... acres 1949..	44.1	23.5	113.0	261.4	35.4	2.7	27.1	45.2	2.4
72	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards..... acres 1949..	0.4	0.3	12.9	(¹)	0.3	0.1	(¹)	(¹)	0.2
73	Vegetables harvested for sale..... acres 1949..	0.1	1.8	8.1	(¹)	1.1	1.3	0.1	(¹)	(¹)
74	Small grains (including sorghums)..... acres 1949..	10.1	0.2	4.0	66.9	1.9	0.9	20.6	6.1	6.1
75	All hay..... acres 1949..	7.1	1.1	0.8	0.1	2.6	1.7	4.4	2.1	2.1
76	Farms by tenure of operator:									
77	Full owners and managers..... number 1950..	610	1,390	336	258	1,450	20	34	424	48
78	Part owners..... number 1950..	111	609	121	133	500	28	23	220	21
79	Tenants..... number 1950..	203	690	249	464	684	9	31	424	7
80	Value of land and buildings per farm..... dollars 1950..	20,257	5,444	56,341	26,404	5,662	235,415	213,914	16,663	398,757
81	Irrigated farms and irrigated land by origin of water, 1949:									
82	Individually operated supply works and—									
83	No other irrigation enterprise..... farms reporting..	3	4	189	505	3	30	44	12	12
84	1 other irrigation enterprise..... acres irrigated..	29	31	27,876	69,884	509	7,318	1,058	14,969	337
85	2 or more other irrigation enterprises..... farms reporting..	1	1	110	110	1	1	1	1	1
86	2 or more other irrigation enterprises..... acres irrigated..	1	1	38,630	38,630	1	1	1	700	700
87	No individually operated supply works but—									
88	1 other irrigation enterprise..... farms reporting..	1	1	15,720	15,720	1	1	1	1	1
89	1 other irrigation enterprise..... acres irrigated..	1	1	3,876	7	63	13	4	1,168	1,168
90	2 or more other irrigation enterprises..... farms reporting..	1	1	203,250	183	3	14,461	3,883	1,168	1,168
91	2 or more other irrigation enterprises..... acres irrigated..	1	1	410	74,052	1	1	1	1	1

See footnote at end of County Table 1.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

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

Jefferson	Jim Wells	Jones	Kendall	Kerr	Kimble	Kinney	Kleberg	Knox	Lamb	La Salle	Lavaca	Liberty	Loving	Lubbock	Lynn	McLennan
197	11	8	3	22	20	6	7	4	1,036	28	4	67	5	1,584	181	12
220	.....	.....	.....	24	3	7	.....	.....	145	59	.....	66	7	312	8	14
20.5	1.2	0.5	0.4	3.8	4.5	4.6	2.6	0.4	58.3	7.6	0.1	4.8	38.5	65.6	14.4	0.3
280,908	2,186	2,218	1,292	11,034	41,239	30,978	5,340	3,728	397,764	91,691	3,921	169,106	837	437,211	64,167	2,153
1,425.9	198.7	277.2	430.7	501.5	2,062.0	5,163.0	762.9	932.0	383.9	3,274.7	980.2	2,524.0	167.4	276.0	354.5	179.4
55,047	32,975	21,250	.....	11,750	73,221	173,200	.....	460,500	43,881	122,095	33,835	109,036	.....	59,802	55,930	55,750
42.73	71.07	85.00	.....	230.39	41.39	18.62	.....	150.00	133.27	28.03	39.57	37.40	.....	202.32	142.61	149.16
86	45	62	.....	45	85	17	.....	25	84	68	250	60	.....	89	98	33
78	106	56	.....	5	73	30	.....	82	72	90	218	69	.....	96	109	69
197	11	8	3	20	18	3	7	4	1,030	28	4	67	5	1,567	181	12
66,472	1,472	1,448	181	1,390	873	278	2,115	3,340	249,925	4,141	1,016	38,375	432	356,184	60,047	1,438
80,851	177	84	11	144	995	507	2,572	78	32,657	2,845	1,520	85,745	40	8,563	1,288	121
7,252	26	148	.....	175	120	.....	20	133	9,207	646	7,292	201	.....	12,232	491	34
15,702	460	399	532	8,325	780	.....	571	.....	1,000	57,802	1,312	8,874	.....	1,179	69	45
79,883	.....	96	49	381	36,311	30,179	6	142	95,544	25,960	18,811	145	.....	47,896	1,029	460
144	6	3	3	15	20	5	3	3	716	24	2	60	1	910	127	5
176,436	637	581	592	8,850	38,086	30,686	3,179	220	129,201	86,607	2,832	113,430	185	57,638	2,386	626
63,579	408	143	15	461	394	470	408	355	179,051	1,812	1,875	37,902	387	240,119	18,221	283
52,969	.....	.....	.....	403	112	1,040	.....	.....	25,845	5,217	24,555	493	.....	33,493	417	242
.....	2	1	.....	5	9	.....	2	.....	9	2	1	.....	.....	7	1	3
.....	230	10	.....	62	150	.....	55	.....	780	310	.....	325	.....	1,973	10	62
197	11	7	3	20	18	3	6	4	1,026	24	4	67	5	1,555	181	11
63,407	404	114	15	384	377	70	50	355	176,073	952	815	36,902	347	235,637	17,906	232
2	.....	.....	.....	5	3	3	2	.....	216	7	1	.....	.....	1	361	12
99	.....	28	.....	69	17	400	358	.....	2,021	849	1,060	.....	40	3,313	315	24
.....	.....	1	.....	2	9	.....	1	.....	63	1	1	.....	.....	37	6	26
.....	.....	21	.....	9	2	.....	323	.....	947	200	1,060	.....	.....	600	50	27
1	.....	2	.....	5	1	3	1	.....	172	6	.....	.....	1	337	26	1
99	.....	7	.....	69	8	400	35	.....	1,074	649	.....	.....	40	2,713	265	29
2	1	1	.....	2	.....	.....	.....	.....	28	1	.....	2	.....	52	.....	30
73	4	1	.....	8	.....	.....	.....	.....	957	11	.....	1,000	.....	1,169	.....	31
3	4	2	3	14	9	.....	3	.....	18	6	.....	.....	.....	49	2	6
7	3	3	.....	5	5	.....	2	.....	15	3	1	.....	.....	108	6	4
4	.....	2	.....	2	2	3	1	.....	18	3	.....	.....	1	69	9	34
10	1	.....	.....	2	2	1	1	.....	20	8	.....	.....	4	86	16	75
17	2	1	.....	4	2	.....	.....	.....	164	3	.....	.....	2	264	56	1
44	1	.....	.....	.....	.....	.....	.....	.....	505	2	1	.....	1	594	79	1
112	.....	.....	.....	.....	.....	1	1	.....	296	4	2	48	.....	414	13	38
44	6	4	1	13	14	5	2	.....	357	12	1	47	1	482	54	39
104	4	2	2	4	1	3	3	.....	251	10	.....	12	2	315	47	4
3	.....	.....	.....	3	3	.....	1	.....	13	.....	.....	1	.....	9	.....	41
46	1	2	.....	5	2	.....	.....	.....	415	6	3	7	.....	778	80	42
149	1	.....	.....	1	3	1	.....	.....	416	10	2	46	.....	555	15	2
157,260	73	.....	.....	4	15,786	15,542	.....	.....	93,319	17,266	590	80,185	427	83,476	1,861	30
44,832	6	.....	.....	1	83	20	.....	.....	76,250	560	539	23,544	252	71,638	1,595	23
44,971	6	.....	.....	2	83	20	.....	.....	78,116	676	539	23,544	252	73,219	1,646	45
48	10	8	3	21	17	5	7	4	620	18	2	21	2	1,029	166	10
123,648	2,113	2,218	1,292	11,030	25,453	15,436	5,340	3,728	304,445	74,425	3,331	88,921	410	353,735	62,306	2,123
48	10	8	3	19	15	2	7	4	614	18	2	21	2	1,012	166	10
21,640	1,466	1,448	181	1,389	790	258	2,115	3,340	173,675	3,581	477	14,831	180	284,546	58,452	1,418
18,608	402	143	15	459	311	450	408	355	100,935	1,136	1,336	14,358	135	166,900	16,575	260
48	10	7	3	19	15	5	6	4	610	14	2	21	2	1,000	166	9
18,575	398	114	15	383	294	50	50	355	99,823	392	276	13,358	95	163,999	16,311	209
149	1	.....	.....	1	3	1	.....	.....	416	10	2	46	3	555	15	2
1,055.4	73.0	.....	.....	4.0	5,262.0	15,542.0	.....	.....	224.3	1,726.6	295.0	1,743.2	142.3	150.4	124.1	15.0
300.9	6.0	.....	.....	1.0	27.7	20.0	.....	.....	183.3	56.0	269.5	511.8	84.0	129.1	106.3	11.5
0.4	.....	.....	.....	(1)	(1)	.....	.....	.....	(1)	1.8	.....	(1)	.....	(1)	0.1	(1)
.....	.....	.....	.....	.....	.....	.....	.....	.....	0.1	12.8	.....	0.2	.....	0.2	.....	58
300.7	.....	.....	.....	.....	.....	.....	.....	.....	60.9	10.8	269.5	506.2	.....	25.4	27.9	59
0.1	.....	.....	.....	.....	7.3	18.0	.....	.....	2.3	.....	.....	4.5	.....	0.3	0.2	60
38	1	.....	.....	1	2	1	.....	.....	165	5	.....	13	.....	191	10	61
73	.....	.....	.....	.....	.....	.....	.....	.....	66	2	.....	28	.....	63	.....	1
38	.....	.....	.....	.....	.....	.....	.....	.....	185	3	.....	5	.....	301	5	63
40,960	.....	.....	.....	.....	117,458	.....	.....	.....	36,509	280,000	6,070	95,485	.....	37,288	21,450	64
762	863	1,700	663	560	426	123	266	883	741	339	3,394	1,337	8	832	1,071	3,742
270.7	515.4	349.3	562.9	1,210.0	1,633.2	6,765.4	3,824.0	531.1	258.4	2,351.3	158.0	124.5	22,946.8	174.8	418.4	148.4
4.1	139.4	180.1	41.1	41.3	25.8	14.7	124.0	210.2	209.8	114.3	35.3	11.3	.....	136.1	297.0	80.9
0.1	0.1	0.4	0.5	0.3	1.3	0.3	0.2	0.1	(1)	0.1	0.3	0.1	(1)	(1)	(1)	0.3
(1)	6.1	0.1	0.2	(1)	0.1	(1)	8.1	(1)	(1)	4.9	0.4	0.3	.....	27.6	100.3	18.7
0.7	67.8	83.4	27.0	23.8	11.2	1.1	40.1	99.8	76.2	30.5	0.6	0.3	.....	0.2	0.1	4.9
2.5	5.7	0.7	4.3	7.1	5.4	7.0	1.3	1.0	0.1	1.0	2.0	1.5	.....	.....	.....	71
548	343	615	460	376	273	64	93	308	316	128	1,780	955	1	339	269	1,889
125	251	370	103	70	52	27	108	194	141	101	522	164	6	85	190	570
89	269	715	100	114	101	32	65	381	284	110	1,092	218	1	408	612	1,283
16,033	29,331	21,481	28,769	50,424	56,524	131,786	52,928	37,217	25,394	43,984	9,262	7,418	90,860	23,882	35,598	14,540
30	11	8	3	19	20	6	6	4	1,000	26	4	21	.....	1,535	181	12
13,344	408	143	15	384	394	470	85	355	175,402	1,757	1,875	9,093	.....	238,202	18,221	283
17	.....	.....	.....	3	.....	.....	.....	.....	12	.....	.....	.....	.....	235	.....	78
8,676	.....	.....	.....	77	.....	.....	.....	.....	2,347	.....	.....	425	.....	.....	.....	79
2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	80
1,730	.....	.....	.....	.....	.....	.....	323	.....	.....	.....	2,500	.....	.....	.....	.....	81
144	.....	.....	.....	.....	.....	.....	.....	.....	23	2	.....	42	5	48	.....	82
38,223	.....	.....	.....	.....	.....	.....	.....	.....	1,237	55	.....	21,434	387	1,682	.....	83
4	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	.....	84
1,606	.....	.....	.....	.....	.....	.....	.....	.....	65	.....	.....	4,450	.....	.....	.....	85

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)		Martin	Matagorda	Maverick	Medina	Menard	Midland	Moore	Nacog- doches	Nolan
1	Irrigated farms.....number 1950..	50	159	209	111	31	14	5	4	4
2	.....acres 1945..	5	135	205	297	18	2	6	5	.....
3	Proportion of all farms.....percent 1950..	8.3	12.0	85.0	6.6	8.8	4.2	2.9	0.1	0.5
4	Land in irrigated farms.....acres 1953..	34,094	218,420	224,864	7,538	77,743	10,848	18,557	799	1,491
5	.....average per farm, acres 1950..	681.9	1,373.7	1,075.9	67.9	2,507.8	774.9	3,711.4	199.8	372.8
6	Value of land and buildings.....average per farm, dollars 1950..	39,498	51,702	25,887	8,501	104,021	35,490	259,200	18,900	.....
7	.....average per acre, dollars 1950..	122.27	49.23	22.74	188.13	19.92	24.01	86.40	71.05	.....
8	Proportion of irrigated farms reporting value.....percent 1950..	92	90	73	72	45	71	40	125	.....
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	44	69	77	48	94	136	32	166	.....
Land in irrigated farms according to use, 1949:										
10	Cropland harvested.....farms reporting..	50	159	190	103	26	13	5	4	4
11	.....acres..	19,398	63,023	30,853	2,765	2,718	3,350	9,399	230	871
12	Cropland used only for pasture.....acres..	6,931	53,398	7,754	1,581	1,177	439	.....	138	215
13	Cropland not harvested and not pastured.....acres..	209	2,884	3,087	672	126	5	579	141	68
14	Woodland pastured.....acres..	2,195	21,341	11,271	2,305	98	235	.....	75	115
15	Other pasture (not cropland and not woodland).....acres..	5,189	75,358	168,385	53	73,469	6,789	8,424	189	182
16	Land pastured, total.....farms reporting..	43	115	134	67	27	13	4	4	3
17	.....acres..	14,315	150,097	187,410	3,939	74,744	7,463	8,424	402	512
18	Irrigated land in farms.....acres 1949..	5,095	59,327	34,691	1,744	1,635	653	1,781	67	160
19	.....1944..	231	36,057	22,901	6,704	939	3	22	28	.....
20	Land irrigated by sprinklers.....farms reporting 1949..	7	.....	1	.....	2	4	.....	.....	.....
21	.....acres 1949..	696	.....	180	.....	75	383	.....	.....	.....
Irrigated land in farms according to use, 1949:										
22	Irrigated cropland harvested.....farms reporting..	48	159	189	103	24	10	5	2	3
23	.....acres..	5,009	59,007	29,780	1,294	1,117	522	1,716	2	87
24	Irrigated pasture.....farms reporting..	7	2	74	17	13	4	.....	2	1
25	.....acres..	86	320	4,059	384	514	125	.....	65	63
26	Irrigated wild grass pasture.....farms reporting..	1	.....	19	8	4	2	.....	1	.....
27	.....acres..	20	.....	1,465	259	110	100	.....	40	.....
28	Irrigated tame grass pasture.....farms reporting..	6	2	62	9	11	2	.....	1	1
29	.....acres..	66	320	2,594	125	404	25	.....	25	63
30	Irrigated cropland not harvested and not pastured.....farms reporting..	.....	.....	13	7	2	1	1	.....	1
31	.....acres..	.....	.....	852	66	4	6	65	.....	10
Irrigated farms by acres irrigated in 1949:										
32	1-9 acres.....farms reporting..	3	1	39	57	6	4	.....	2	.....
33	10-19 acres.....farms reporting..	3	.....	38	27	2	.....	.....	.....	1
34	20-29 acres.....farms reporting..	5	1	15	18	3	2	.....	1	1
35	30-49 acres.....farms reporting..	3	5	26	7	6	2	.....	1	1
36	50-99 acres.....farms reporting..	17	21	29	1	7	5	3	.....	.....
37	100-199 acres.....farms reporting..	12	43	26	.....	7	1	1	.....	1
38	200 acres and over.....farms reporting..	7	88	36	1	.....	.....	1	.....	.....
Irrigated farms by tenure of operator, 1950:										
39	Full owners.....number..	13	24	126	63	12	9	1	2	1
40	Part owners.....number..	12	94	43	37	12	3	4	1	2
41	Managers.....number..	.....	5	3	1	1	.....	.....	.....	.....
42	Tenants.....number..	25	36	37	10	6	2	.....	1	1
Land in wholly and in partly irrigated farms:										
43	Wholly irrigated farms.....number 1950..	2	106	171	48	11	1	.....	.....	1
44	All land.....acres 1950..	206	98,752	179,932	1,952	19,595	10	.....	.....	297
45	Cropland harvested.....acres 1949..	143	47,147	25,654	735	413	5	.....	.....	37
46	Irrigated land.....acres 1949..	152	47,407	29,169	997	622	5	.....	.....	100
47	Partly irrigated farms.....number 1950..	48	53	38	63	20	13	5	4	3
48	All land.....acres 1950..	33,888	119,668	44,932	5,586	58,148	10,838	18,557	799	1,194
49	Cropland harvested, total.....farms reporting 1949..	48	53	19	55	15	12	5	4	3
50	.....acres 1949..	19,255	15,876	5,199	2,030	2,305	3,345	9,399	230	834
51	Irrigated land.....acres 1949..	4,943	11,920	5,522	747	1,013	648	1,781	67	60
52	Irrigated cropland harvested.....farms reporting 1949..	46	53	18	55	13	9	5	2	2
53	.....acres 1949..	4,866	11,860	4,126	559	704	517	1,716	2	50
Characteristics of wholly irrigated and nonirrigated farms:										
54	Wholly irrigated farms.....number 1950..	2	106	171	48	11	1	.....	.....	1
55	Average acreage per farm:									
56	All land.....acres 1949..	103.0	931.6	1,052.2	40.7	1,781.4	10.0	.....	.....	297.0
57	Cropland harvested.....acres 1949..	71.5	444.8	150.0	15.3	37.5	5.0	.....	.....	37.0
58	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	(¹)	0.2	0.1	0.1	1.0	.....	(¹)	(¹)
59	Vegetables harvested for sale.....acres 1949..	1.0	.....	77.4	13.7	0.2	.....	.....	.....	.....
60	Small grains (including sorghums).....acres 1949..	.....	442.9	1.3	3.7	13.8	.....	.....	.....	.....
61	All hay.....acres 1949..	.....	0.8	4.7	0.7	17.0	.....	.....	.....	.....
Farms by tenure of operator:										
62	Full owners and managers.....number 1950..	1	20	103	28	6	1	.....	.....	.....
63	Part owners.....number 1950..	.....	58	38	15	2	.....	.....	.....	.....
64	Tenants.....number 1950..	1	28	30	5	3	.....	.....	.....	1
65	Value of land and buildings per farm.....dollars 1950..	2,500	40,645	29,546	8,393	343,650	.....	.....	.....	.....
66	Nonirrigated farms.....number 1950..	551	1,170	37	1,561	322	317	166	2,739	796
67	Average acreage per farm:									
68	All land.....acres 1949..	634.8	354.9	5,637.5	472.4	1,686.5	3,823.2	2,599.1	133.9	723.3
69	Cropland harvested.....acres 1949..	280.3	33.1	1.1	72.5	40.0	149.8	934.6	14.8	154.4
70	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	0.4	(¹)	0.5	1.4	0.1	(¹)	0.1	0.2
71	Vegetables harvested for sale.....acres 1949..	(¹)	0.4	2.4	1.1	(¹)	0.1	.....	1.4	(¹)
72	Small grains (including sorghums).....acres 1949..	27.5	1.5	.....	326	23.8	12.1	900.6	0.1	57.1
73	All hay.....acres 1949..	0.5	4.5	0.3	3.6	3.4	0.5	1.7	2.1	1.3
Farms by tenure of operator:										
74	Full owners and managers.....number 1950..	193	500	26	925	183	131	38	1,835	328
75	Part owners.....number 1950..	106	291	4	402	61	70	78	341	174
76	Tenants.....number 1950..	252	379	7	234	78	116	50	563	294
77	Value of land and buildings per farm.....dollars 1950..	32,179	14,815	157,568	22,975	63,720	78,238	113,919	5,662	39,331
Irrigated farms and irrigated land by origin of water, 1949:										
78	Individually operated supply works and—									
79	No other irrigation enterprise.....farms reporting..	49	20	14	2	17	14	5	4	2
80	.....acres irrigated..	4,825	11,711	4,799	26	813	653	1,781	67	120
81	1 other irrigation enterprise.....farms reporting..	1	5	5	.....	4	.....	.....	.....	.....
82	.....acres irrigated..	270	2,145	8,607	.....	355	.....	.....	.....	.....
83	2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
84	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
85	No individually operated supply works but—									
86	1 other irrigation enterprise.....farms reporting..	.....	132	190	109	10	.....	.....	.....	2
87	.....acres irrigated..	.....	43,051	21,285	1,718	467	.....	.....	.....	40
88	2 or more other irrigation enterprises.....farms reporting..	.....	2	.....	.....	.....	.....	.....	.....	.....
89	.....acres irrigated..	.....	2,420	.....	.....	.....	.....	.....	.....	.....

See footnote at end of County Table 1.

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)		Sterling	Swisher	Tarrant	Taylor	Terrell	Terry	Tom Green	Travis
1	Irrigated farms.....number 1950..	3	683	15	9	5	64	174	17
2	.....number 1945..	1	229	14	7	.....	2	154	8
3	Proportion of all farms.....percent 1950..	3.4	68.6	0.4	0.6	4.5	5.8	16.2	0.8
4	Land in irrigated farms.....acres 1950..	2,607	365,377	1,553	3,548	50,107	42,380	97,329	12,341
5	.....average per farm, acres 1950..	869.0	535.0	103.5	394.2	10,021.4	662.6	559.4	725.9
6	Value of land and buildings.....average per farm, dollars 1950..	129,200	57,450	32,852	.....	264,694	39,261	42,348	46,889
7	.....average per acre, dollars 1950..	53.83	107.49	272.63	.....	21.19	100.96	78.50	104.50
8	Proportion of irrigated farms reporting value.....percent 1950..	167	94	173	.....	80	97	86	159
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	460	94	202	.....	100	57	83	98
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	2	680	15	8	5	62	167	16
11	.....acres..	90	246,633	775	1,119	734	28,632	24,350	2,546
12	Cropland used only for pasture.....acres..	.....	4,803	30	1,700	60	880	6,875	504
13	Cropland not harvested and not pastured.....acres..	9	20,389	232	85	10	1,744	1,036	168
14	Woodland pastured.....acres..	2,453	1,986	129	111	.....	333	36,499	4,695
15	Other pasture (not cropland and not woodland).....acres..	40	87,044	223	378	47,043	10,170	23,578	4,089
16	Land pastured, total.....farms reporting..	3	583	8	7	5	53	120	12
17	.....acres..	2,493	93,833	382	2,189	47,103	11,383	66,952	9,290
18	Irrigated land in farms.....acres 1949..	60	150,554	193	659	734	7,102	8,836	1,647
19	.....acres 1944..	4	53,631	392	882	.....	12	6,838	229
20	Land irrigated by sprinklers.....farms reporting 1949..	.....	1	5	1	.....	10	3	9
21	.....acres 1949..	.....	100	66	5	.....	940	16	1,145
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	2	678	15	8	5	62	162	14
23	.....acres..	52	144,978	146	55	734	6,569	7,837	385
24	Irrigated pasture.....farms reporting..	1	147	1	1	.....	16	32	5
25	.....acres..	8	3,679	40	601	.....	330	947	1,262
26	Irrigated wild grass pasture.....farms reporting..	.....	67	.....	1	.....	2	7	3
27	.....acres..	.....	1,993	.....	200	.....	15	251	1,175
28	Irrigated tame grass pasture.....farms reporting..	1	104	1	2	.....	15	25	3
29	.....acres..	8	1,686	40	401	.....	315	696	87
30	Irrigated cropland not harvested and not pastured.....farms reporting..	.....	54	2	1	.....	2	5	.....
31	.....acres..	.....	1,897	7	3	.....	203	52	.....
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	1	2	7	6	.....	2	29	4
33	10-19 acres.....farms reporting..	1	9	4	2	.....	1	25	2
34	20-29 acres.....farms reporting..	.....	8	3	.....	2	6	13	2
35	30-49 acres.....farms reporting..	1	22	1	.....	1	4	28	3
36	50-99 acres.....farms reporting..	.....	104	.....	.....	.....	17	54	3
37	100-199 acres.....farms reporting..	.....	255	.....	.....	1	26	21	2
38	200 acres and over.....farms reporting..	.....	283	.....	1	1	8	4	1
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	3	251	7	2	1	27	90	8
40	Part owners.....number..	.....	156	4	4	3	19	37	3
41	Managers.....number..	.....	3	.....	1	.....	2	5	1
42	Tenants.....number..	.....	273	4	2	1	16	42	5
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	1	266	5	.....	5	3	47	3
44	All land.....acres 1950..	75	90,694	109	.....	50,107	621	6,970	2,057
45	Cropland harvested.....acres 1949..	40	67,045	41	.....	734	538	1,922	36
46	Irrigated land.....acres 1949..	40	70,240	43	.....	734	546	2,364	36
47	Partly irrigated farms.....number 1950..	2	417	10	9	.....	61	127	14
48	All land.....acres 1950..	2,532	274,683	1,444	3,548	.....	41,759	90,359	10,284
49	Cropland harvested, total.....farms reporting 1949..	1	414	10	8	.....	59	120	13
50	.....acres 1949..	50	179,588	734	1,119	.....	28,094	22,428	2,508
51	Irrigated land.....acres 1949..	20	80,314	150	659	.....	6,556	6,472	1,609
52	Irrigated cropland harvested.....farms reporting 1949..	1	412	10	8	.....	59	115	11
53	.....acres 1949..	12	77,933	105	55	.....	6,031	5,915	347
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	1	266	5	.....	5	3	47	3
55	Average acreage per farm:	.....	.....	.....	.....	.....	.....	.....	.....
56	All land.....acres 1949..	75.0	341.0	21.8	.....	10,021.4	207.0	148.3	685.7
57	Cropland harvested.....acres 1949..	40.0	252.0	8.2	.....	146.8	179.3	40.9	12.7
58	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	.....	(¹)	(¹)	.....	0.2	(¹)	0.4	.....
59	Vegetables harvested for sale.....acres 1949..	.....	0.3	6.6	.....	3.4	.....	11.4	.....
60	Small grains (including sorghums).....acres 1949..	.....	185.9	.....	.....	104.0	.....	11.3	.....
61	All hay.....acres 1949..	40.0	4.1	.....	.....	10.4	2.7	10.7	.....
Farms by tenure of operator:									
62	Full owners and managers.....number 1950..	1	101	3	.....	1	2	32	2
63	Part owners.....number 1950..	.....	30	1	.....	3	1	5	.....
64	Tenants.....number 1950..	.....	135	1	.....	1	.....	10	1
65	Value of land and buildings per farm.....dollars 1950..	.....	45,734	20,000	.....	264,694	16,000	19,178	.....
66	Nonirrigated farms.....number 1950..	86	312	3,391	1,444	107	1,033	902	2,245
67	Average acreage per farm:	.....	.....	.....	.....	.....	.....	.....	.....
68	All land.....acres 1949..	8,769.8	566.5	116.1	337.2	12,562.9	451.1	1,117.6	216.5
69	Cropland harvested.....acres 1949..	70.4	286.6	32.1	128.2	(¹)	325.1	141.7	55.4
70	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	0.1	0.5	(¹)	0.3	0.1	0.2	0.5
71	Vegetables harvested for sale.....acres 1949..	.....	0.1	0.5	.....	.....	0.1	(¹)	0.3
72	Small grains (including sorghums).....acres 1949..	53.5	283.9	11.2	83.6	.....	162.3	44.1	7.2
73	All hay.....acres 1949..	1.7	0.3	7.6	0.9	(¹)	0.9	2.3	4.0
Farms by tenure of operator:									
74	Full owners and managers.....number 1950..	31	166	2,497	695	36	323	446	1,223
75	Part owners.....number 1950..	37	67	320	313	26	206	142	295
76	Tenants.....number 1950..	18	79	574	436	45	504	314	727
77	Value of land and buildings per farm.....dollars 1950..	205,120	43,767	19,201	18,534	158,424	23,099	44,470	19,226
Irrigated farms and irrigated land by origin of water, 1949:									
Individually operated supply works and—									
78	No other irrigation enterprise.....farms reporting..	3	660	13	8	4	61	167	16
79	.....acres irrigated..	60	147,471	186	59	604	6,821	8,611	1,632
80	1 other irrigation enterprise.....farms reporting..	.....	7	.....	1	.....	.....	1	.....
81	.....acres irrigated..	.....	1,989	.....	600	.....	.....	47	.....
82	2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....
83	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
No individually operated supply works but—									
84	1 other irrigation enterprise.....farms reporting..	.....	15	2	.....	1	3	6	1
85	.....acres irrigated..	.....	1,019	7	.....	130	281	178	15
86	2 or more other irrigation enterprises.....farms reporting..	.....	1	.....	.....	.....	.....	.....	.....
87	.....acres irrigated..	.....	75	.....	.....	.....	.....	.....	.....

¹Less than 0.05.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

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

Uvalde	Val Verde	Victoria	Waller	Ward	Webb	Wharton	Wichita	Willbarger	Willacy	Williamson	Wilson	Yoakum	Zapata	Zavala	All other counties
66	44	6	27	71	69	159	217	7	266	6	9	31	91	161	82
15	106	1	24	116	64	176	150	7	237	2	2	.....	13	158	159
9.6	17.3	0.3	2.4	56.3	21.1	5.7	21.1	0.6	28.1	0.2	0.5	10.8	29.4	53.0	(¹)
170,217	122,068	6,829	40,397	115,614	129,596	277,216	49,714	1,997	89,465	2,397	7,012	48,756	151,288	138,207	83,372
2,579.0	2,792.5	1,138.2	1,496.2	1,628.4	1,878.2	1,743.5	229.1	285.3	336.3	399.5	779.1	1,572.8	1,662.5	858.4	1,016.7
170,628	173,788	105,900	208,232	29,810	38,216	69,159	20,066	.....	65,515	.....	.....	42,825	50,154	73,918	59,701
31.92	17.02	107.62	89.59	20.60	13.12	55.06	93.21	.....	189.52	.....	.....	30.64	35.74	86.21	56.00
68	18	83	19	89	41	70	91	.....	80	.....	.....	56	77	84	100
141	66	72	29	79	63	50	85	.....	82	.....	.....	80	65	84	105
63	41	6	27	68	69	159	202	7	265	5	9	31	90	140	80
7,703	1,698	2,387	12,824	12,019	9,575	63,610	18,633	1,731	53,230	333	2,208	7,909	6,048	29,231	18,320
15,255	743	740	13,910	1,251	2,271	85,099	4,147	34	1,894	148	620	228	622	24,545	5,133
868	31	674	2,270	5,506	5,239	16,655	2,776	.....	5,240	15	496	1,184	5,315	4,952	3,084
17,655	.....	.....	235	7	14,282	51,051	5,756	105	25,696	1,403	2,516	70	73,396	66,120	26,301
126,282	120,128	3,024	10,735	94,186	93,469	45,683	15,989	120	97	301	1,121	36,955	63,321	4,409	26,295
58	28	5	22	29	37	113	162	5	62	6	7	26	63	129	67
159,192	120,871	3,764	24,880	95,444	110,022	181,833	25,892	259	27,687	1,852	4,257	37,253	137,339	95,074	57,729
8,521	2,105	1,490	12,250	11,984	9,300	57,562	12,020	479	30,809	245	635	4,191	5,576	46,287	3,707
2,285	2,482	1,000	9,310	16,468	9,135	46,260	9,854	135	24,122	2	70	.....	577	32,367	1,467
11	1	.....	.....	1	2	.....	.....	2	1	.....	.....	4	.....	1	21
556	2	.....	.....	75	280	.....	.....	141	157	86	.....	420	.....	200	21
58	41	6	27	68	67	158	193	7	262	3	7	30	89	134	76
6,515	1,560	1,490	12,200	11,612	9,122	57,181	10,312	479	29,781	79	403	3,918	5,035	23,413	3,455
27	8	.....	.....	5	5	3	68	.....	17	3	3	5	3	90	23
1,920	510	.....	.....	69	97	218	1,173	.....	297	166	167	243	233	20,501	238
11	6	.....	.....	1	.....	1	22	.....	5	1	1	3	2	7	25
447	95	.....	.....	40	.....	16	677	.....	58	40	15	125	217	302	133
16	3	.....	.....	4	5	3	48	.....	13	6	3	3	1	87	6
1,473	415	.....	.....	29	97	202	496	.....	239	126	172	118	16	20,199	105
3	5	.....	1	14	4	1	27	.....	19	.....	1	1	4	19	3
86	35	.....	50	303	81	163	535	.....	731	.....	45	30	308	2,373	14
7	21	.....	.....	5	6	1	59	4	12	2	1	.....	20	10	37
7	12	.....	.....	5	6	2	31	.....	22	.....	.....	.....	26	13	15
9	.....	1	.....	5	6	2	25	1	17	.....	.....	1	9	8	4
8	5	.....	.....	8	12	6	27	.....	50	2	3	4	12	18	6
10	1	.....	.....	17	9	22	45	.....	68	2	2	10	8	27	10
13	1	1	2	12	14	38	20	1	64	.....	3	13	6	27	7
12	4	4	25	19	16	88	10	1	33	.....	.....	3	10	58	3
41	32	2	2	36	31	24	113	4	74	5	4	10	33	94	45
16	7	2	19	17	11	91	48	1	121	.....	4	12	24	41	24
2	.....	1	2	2	2	2	6	2	4	.....	.....	.....	.....	8	3
7	5	1	4	16	25	42	50	.....	67	1	1	9	34	18	6
40	37	3	23	60	58	99	102	.....	151	.....	.....	11	65	68	11
26,615	121,857	2,524	33,602	112,043	64,384	126,095	13,018	.....	20,079	.....	.....	28,520	88,040	71,086	2,213
4,431	1,472	960	11,225	10,926	8,088	37,066	5,051	.....	15,410	.....	.....	1,487	4,263	17,078	72
5,347	1,984	960	11,225	11,263	8,175	37,240	5,778	.....	16,100	.....	.....	1,617	4,584	34,322	115
26	7	3	4	11	11	60	115	7	115	6	9	20	26	93	71
143,602	1,011	4,305	6,795	3,571	65,212	151,121	36,696	1,997	69,386	2,397	7,012	20,236	63,248	67,121	81,159
23	4	3	8	11	60	100	7	7	114	5	9	20	25	72	69
3,272	226	1,427	1,093	1,486	26,544	13,582	1,731	37,820	333	2,208	6,422	1,785	12,153	18,248	50
3,174	121	530	1,025	721	1,125	20,322	6,242	479	14,709	245	635	2,574	992	11,965	3,592
18	4	3	8	8	9	59	91	7	111	3	7	19	24	66	65
2,084	88	530	975	686	1,034	20,115	5,261	479	14,371	79	403	2,431	772	6,335	3,383
40	37	3	23	60	58	99	102	.....	151	.....	.....	11	65	68	11
665.4	3,293.4	841.3	1,461.0	1,867.4	1,110.1	1,273.7	127.6	.....	133.0	.....	.....	2,592.7	1,354.5	1,045.4	201.2
110.8	39.8	320.0	488.0	182.1	139.4	374.4	49.5	.....	102.1	.....	.....	135.2	65.6	251.1	6.5
0.9	0.5	(¹)	.....	(¹)	4.0	(¹)	0.2	.....	16.1	.....	.....	(¹)	(¹)	4.2	3.9
54.5	0.1	(¹)	.....	.....	86.8	.....	0.4	.....	20.6	.....	.....	.....	37.7	138.5	0.6
13.2	5.4	320.0	483.7	3.8	1.4	377.8	11.3	.....	1.7	.....	.....	14.0	0.7	30.6	4.2
4.5	24.0	.....	.....	17.7	4.7	.....	7.7	.....	0.5	.....	.....	3.8	0.8	11.3	0.5
30	28	1	4	32	29	15	55	.....	56	.....	.....	5	22	43	10
7	6	2	16	16	5	52	20	.....	45	.....	.....	3	12	15	1
3	3	.....	3	12	24	32	27	.....	50	.....	.....	3	31	10	.....
115,672	173,788	105,900	142,140	31,725	24,978	63,294	10,303	.....	40,747	.....	.....	48,133	49,335	105,174	45,850
624	210	1,288	1,103	55	258	2,565	812	1,104	680	3,741	1,758	257	219	143	184,382
1,804.8	9,834.6	386.9	207.9	6,867.3	6,075.8	155.6	344.5	920.3	424.6	183.4	239.5	1,712.8	1,432.2	5,039.0	301.7
85.0	4.8	57.0	36.9	15.1	23.2	56.7	114.4	212.2	182.6	88.7	69.5	283.6	24.0	31.6	60.4
0.6	(¹)	0.1	0.1	(¹)	0.1	0.3	0.6	0.3	1.8	0.2	0.2	(¹)	(¹)	0.1	0.4
0.8	(¹)	(¹)	2.3	.....	0.2	0.4	0.1	0.2	12.5	0.3	4.1	0.4	0.5	2.0	0.7
52.1	0.1	7.7	1.7	3.6	1.7	2.6	101.2	112.4	15.8	12.5	19.8	192.5	0.2	11.5	18.6
11.0	4.0	4.5	4.4	.....	1.0	6.0	3.9	20.3	0.3	1.6	1.8	.....	0.6	4.4	3.9
396	122	628	482	22	132	794	476	388	216	1,540	903	94	149	86	94,077
101	30	220	308	15	62	445	138	206	231	474	439	66	52	31	33,271
127	58	440	313	18	64	1,326	198	510	233	1,727	416	97	18	26	57,034
49,079	177,224	19,829	13,927	71,234	106,464	11,700	20,536	38,506	73,073	16,502	13,822	32,374	35,713	125,261	13,605
66	5	6	27	6	54	87	1	7	11	6	9	31	66	148	67
8,521	1,247	1,490	12,250	1,134	8,408	36,450	15	479	2,137	245	635	4,191	5,145	42,095	2,925
.....	.....	.....	.....	24	.....	5	.....	.....	2	.....	.....	.....	.....	3	4
.....	.....	.....	6,727	.....	3,352	.....	.....	.....	1,232	.....	.....	.....	.....	3,390	79
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
.....	.....	.....	395	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
.....	39	.....	.....	40	15	66	216	.....	253	.....	.....	.....	24	10	11
.....	858	.....	.....	3,728	892	17,317	12,005	.....	27,440	.....	.....	.....	420	802	745
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
.....	.....	.....	.....	.....	.....	443	.....	.....	.....	.....	.....	.....	11	.....	.....

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	Anderson	Armstrong	Atascosa	Austin	Bailey	Bandera	Baylor
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	11,502	3	10	103	3	330	5	4
2	1940..	4,040	(*)	5	57	(*)	95	4	(*)
3	Intercounty enterprises.....enterprises 1950..	124					2		1
4	Irrigated farms ¹.....farms 1950..	21,427	1	11	118	4	338	2	3
5	Average per enterprise.....farms 1950..	1.9	0.3	1.1	1.1	1.3	1.0	0.4	0.8
6	Farms irrigated direct per enterprise ².....farms 1950..	2.0	1.0	1.1	1.1	1.0	1.0	1.0	0.8
7	Irrigated land ¹.....acres 1949..	3,150,527	17	1,088	4,060	1,200	50,212	91	144
8	1939..	1,045,224	(*)	535	2,321	(*)	5,849	12	(*)
9	Average per irrigated farm.....acres 1949..	147.0	17.0	98.9	34.4	300.0	148.6	45.5	48.0
10	Average per enterprise.....acres 1949..	274	6	109	39	400	152	18	36
11	Average acreage irrigated direct per enterprise ².....acres 1949..	276	6	109	39	400	152	18	36
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	11,380	3	10	103	3	330	5	3
13	acres irrigated..	2,134,459	17	1,088	4,060	1,200	50,282	91	144
Mutual:									
14	Unincorporated.....enterprises..	34							
15	acres irrigated..	15,072							
16	Incorporated.....enterprises..	11							
17	acres irrigated..	38,013							
18	Commercial.....enterprises..	27							
19	acres irrigated..	329,072							
20	District.....enterprises..	45							1
21	acres irrigated..	590,529							(3)
22	U. S. Bureau of Reclamation ⁴.....enterprises..	2							
23	acres irrigated..	67,079							
24	U. S. Bureau of Indian Affairs.....enterprises..								
25	acres irrigated..								
26	State.....enterprises..								
27	acres irrigated..								
28	City.....enterprises..	3							
29	acres irrigated..	2,949							
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	210			33			2	1
31	acres irrigated..	175,160			1,080			6	
32	Pumped only.....enterprises reporting..	1,229	2					3	3
33	acres irrigated..	1,022,202	7					85	144
34	Gravity and pumped.....enterprises reporting..	74			1				
35	acres irrigated..	32,414			40				
36	Ground water only (pumped from wells).....enterprises reporting..	9,824	1	10	65	3	330		
37	acres irrigated..	1,859,758	10	1,088	1,743	1,200	50,282		
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	165			4				
39	acres irrigated..	87,639			1,197				
Stored water:									
40	None stored.....enterprises reporting..	11,018	3	10	73	3	330	5	3
41	acres irrigated..	2,464,800	17	1,088	1,579	1,200	50,282	91	144
42	Part stored.....enterprises reporting..	187			4				
43	acres irrigated..	485,628			119				
44	All stored.....enterprises reporting..	297			26				1
45	acres irrigated..	226,745			2,362				
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	1,432	2		1			3	3
47	acres irrigated..	1,274,715	7		41			85	112
48	Springs.....enterprises reporting..	67			4			2	1
49	acres irrigated..	22,795			47			6	32
50	Flowing wells.....enterprises reporting..	107			33				
51	acres irrigated..	11,553			2,229				
52	Drainage water.....enterprises reporting..	96							
53	acres irrigated..	84,983							
54	Sewage.....enterprises reporting..	18							
55	acres irrigated..	5,298							
56	Other sources.....enterprises reporting..	1							
57	acres irrigated..	112							
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	446			3	1			
59	Area supplied primary irrigation.....acres 1949..	922,967			57	400			
60	Area artificially drained.....acres 1949..	710,930			20	400			
61	acres 1939..	397,227	(*)			(*)		(*)	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	321			3				
63	Area supplied primary irrigation.....acres 1949..	910,751			60				
64	Area in need of drainage.....acres 1949..	522,215			16				
65	acres 1939..	106,837	(*)			(*)			(*)

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)	Dallam	Dallas	Dawson	Deaf Smith	Dickens	Dimmit	Donley	El Paso
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	44	30	5	377	3	171	6	8
2 1940..	12	39	(*)	193	21	237	3	1
3 Intercounty enterprises.....enterprises 1950..				4		5		1
4 Irrigated farms ¹.....farms 1950..	37	24	6	375	5	179	4	700
5 Average per enterprise.....farms 1950..	0.8	0.8	1.2	1.0	1.7	1.0	0.7	87.5
6 Farms irrigated direct per enterprise ².....farms 1950..	0.9	1.0	1.0	1.0	1.0	1.1	0.8	89.6
7 Irrigated land ¹.....acres 1949..	5,072	439	363	96,247	28	21,218	207	69,595
8 1939..	467	287	(*)	28,688	24	14,305	6	61,153
9 Average per irrigated farm.....acres 1949..	137.1	18.3	60.5	256.7	5.6	118.5	51.8	99.4
10 Average per enterprise.....acres 1949..	115	15	73	255	9	124	34	8,699
11 Average acreage irrigated direct per enterprise ².....acres 1949..	115	15	73	255	9	124	34	8,699
Type of enterprise, 1950:								
12 Single-farm.....enterprises..	44	30	5	377	3	169	6	7
13 acres irrigated..	5,072	439	363	96,247	28	21,173	207	2,516
Mutual:								
14 Unincorporated.....enterprises..								
15 acres irrigated..								
16 Incorporated.....enterprises..								
17 acres irrigated..								
18 Commercial.....enterprises..						1		
19 acres irrigated..						(³)		
20 District.....enterprises..						1		
21 acres irrigated..						(³)		
22 U. S. Bureau of Reclamation ⁴.....enterprises..								1
23 acres irrigated..								67,079
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		1
31 acres irrigated..								67,079
32 Pumped only.....enterprises reporting..		11				12		
33 acres irrigated..		251				2,275		
34 Gravity and pumped.....enterprises reporting..								
35 acres irrigated..								
36 Ground water only (pumped from wells).....enterprises reporting..	44	19	5	376	3	146	6	7
37 acres irrigated..	5,072	188	363	96,117	28	11,351	207	2,516
38 Surface (gravity or pumped) and ground water.....enterprises reporting..				1		12		
39 acres irrigated..				130		7,592		
Stored water:								
40 None stored.....enterprises reporting..	44	20	5	377	3	115	6	6
41 acres irrigated..	5,072	275	363	96,247	28	12,568	207	2,106
42 Part stored.....enterprises reporting..		2				22		1
43 acres irrigated..		43				5,532		410
44 All stored.....enterprises reporting..		8				34		1
45 acres irrigated..		121				3,118		67,079
Sources of surface water, 1949: ⁵								
46 Streams (and lakes).....enterprises reporting..		6				24		1
47 acres irrigated..		130				9,667		67,079
48 Springs.....enterprises reporting..		7						
49 acres irrigated..		164						
50 Flowing wells.....enterprises reporting..				1		1		
51 acres irrigated..				130		200		
52 Drainage water.....enterprises reporting..								
53 acres irrigated..								
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..		18	1	2		2		1
59 Area supplied primary irrigation.....acres 1949..		265	15	455		1,120		67,079
60 Area artificially drained.....acres 1949..		226	15	184		135		67,079
61 acres 1939..		40	(*)					61,153
Irrigated land in need of drainage:								
62 Enterprises reporting.....enterprises 1949..				1		3		1
63 Area supplied primary irrigation.....acres 1949..				305		251		67,079
64 Area in need of drainage.....acres 1949..				305		41		54
65 acres 1939..		5	(*)					500

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]

Falls	Fisher	Floyd	Fort Bend	Frio	Gaines	Galveston	Garza	Gillespie	Glasscock	Gonzales	Guadalupe	Hale	Hansford	Hardeman	Harris	
5	3	579	37	17	61	19	22	3	8	4	4	1,449	5	12	103	1
(*)	8	225	13	31	(*)	3	(*)	12	7	(*)	3	328	6	(*)	30	2
.....	.....	18	5	.....	.....	3	.....	.....	.....	.....	.....	29	.....	.....	6	3
5	6	584	45	18	49	28	22	3	9	6	.....	1,482	6	12	122	4
1.0	2.0	1.0	1.2	1.1	0.8	1.5	1.0	1.0	1.1	1.5	.....	1.0	1.2	1.0	1.2	5
1.0	1.0	1.0	1.6	1.0	0.8	3.3	1.0	1.0	1.0	1.2	0.8	1.0	1.0	1.0	1.0	6
42	210	132,045	23,691	2,310	7,236	25,270	1,522	14	461	764	111	316,510	340	485	37,549	7
(*)	291	39,354	12,209	761	(*)	36	(*)	48	81	(*)	224	46,212	103	(*)	7,487	8
8.4	35.0	226.1	526.5	128.3	147.7	902.5	69.2	4.7	51.2	127.3	.....	213.6	56.7	40.4	307.8	9
8	70	228	658	136	119	1,330	69	5	58	191	28	218	68	40	365	10
8	70	229	658	136	119	1,330	69	5	58	191	28	218	68	40	365	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
5	3	579	32	17	61	17	22	3	8	4	4	1,449	5	12	101	12
42	210	132,808	12,810	2,310	7,236	3,537	1,522	14	461	764	111	316,572	340	485	35,628	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	(³)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
.....	.....	.....	4,581	.....	.....	(³)	.....	.....	.....	.....	.....	.....	.....	.....	(³)	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	(³)	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
1	.....	.....	2	2	.....	.....	.....	.....	.....	3	.....	.....	.....	1	2	31
12	.....	.....	500	99	.....	.....	.....	.....	.....	294	.....	.....	.....	40	515	32
2	2	.....	6	1	1	11	.....	1	.....	1	4	.....	2	4	13	33
5	120	.....	11,106	80	31	25,227	.....	5	.....	470	111	.....	150	132	6,040	34
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
.....	90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
2	.....	579	25	14	60	8	22	2	8	.....	.....	1,447	3	7	85	37
25	.....	132,808	10,695	2,131	7,205	43	1,522	9	461	.....	.....	316,127	190	313	30,247	38
.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	3	39
.....	.....	.....	1,390	.....	.....	.....	.....	.....	.....	.....	.....	445	.....	.....	747	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
3	3	579	35	14	61	17	22	2	5	2	3	1,448	5	12	91	42
27	210	132,808	19,779	1,703	7,236	16,022	1,522	9	215	104	76	316,233	340	485	35,661	43
.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	1	.....	.....	3	44
.....	.....	.....	3,912	512	.....	9,233	.....	.....	.....	.....	.....	339	.....	.....	815	45
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46
2	.....	.....	.....	2	.....	1	.....	1	3	2	1	.....	.....	.....	9	47
15	.....	.....	.....	95	.....	15	.....	5	246	660	35	.....	.....	.....	1,073	48
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49
1	3	.....	11	1	.....	11	.....	1	.....	1	4	.....	2	5	16	50
2	210	.....	12,996	80	.....	25,227	.....	5	.....	470	111	.....	150	172	7,295	51
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	295	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
1	.....	.....	15	.....	.....	2	.....	.....	.....	3	.....	1	.....	.....	45	59
20	.....	.....	10,747	.....	.....	9,730	.....	.....	.....	730	.....	150	.....	.....	18,484	60
20	.....	.....	6,750	.....	.....	7,497	.....	.....	.....	705	.....	15	.....	.....	18,025	61
(*)	156	.....	(*)	.....	(*)	(*)	(*)	.....	.....	(*)	(*)	.....	.....	(*)	(*)	62
.....	.....	.....	1	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	9	63
.....	.....	.....	271	9,776	.....	21,733	.....	.....	.....	.....	.....	150	.....	.....	3,062	64
.....	.....	.....	10	6,430	.....	15,000	.....	.....	.....	.....	.....	15	.....	.....	2,882	65
(*)	20	.....	.....	.....	(*)	.....	(*)	.....	.....	(*)	.....	.....	.....	(*)	.....	66

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)		Harrison	Hays	Hidalgo	Hockley	Hudspeth	Irion	Jackson	Jeff Davis
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	3	3	357	510	24	18	60	13
2	..... 1940..	(*)	3	67	38	27	18	11	39
3	Intercounty enterprises.....enterprises 1950..	.....	.....	6	10	1	.....	4	1
4	Irrigated farms ¹.....farms 1950..	1	3	4,608	512	93	32	58	16
5	Average per enterprise.....farms 1950..	0.3	1.0	12.9	1.0	3.9	1.8	1.0	1.2
6	Farms irrigated direct per enterprise ².....farms 1950..	1.0	1.0	15.1	1.0	4.0	1.8	1.1	1.2
7	Irrigated land ¹.....acres 1949..	21	29	367,575	70,909	23,420	998	21,829	1,505
8	..... acres 1939..	(*)	9	198,141	2,475	13,734	2,346	3,017	1,158
9	Average per irrigated farm.....acres 1949..	21.0	9.7	79.8	138.5	251.8	31.2	376.4	94.1
10	Average per enterprise.....acres 1949..	7	10	1,030	139	976	55	364	116
11	Average acreage irrigated direct per enterprise ².....acres 1949..	7	10	1,046	139	976	55	365	116
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	3	3	341	510	23	16	59	12
13	..... acres irrigated..	21	29	64,017	70,909	6,304	716	19,459	337
Mutual:									
14	Unincorporated.....enterprises..	.....	.....	.....	.....	.....	2	.....	.....
15	..... acres irrigated..	.....	.....	.....	.....	.....	(³)	.....	.....
16	Incorporated.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
17	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
18	Commercial.....enterprises..	.....	.....	3	.....	.....	.....	1	.....
19	..... acres irrigated..	.....	.....	22,572	.....	.....	.....	(³)	.....
20	District.....enterprises..	.....	.....	13	.....	1	.....	.....	1
21	..... acres irrigated..	.....	.....	286,959	.....	(³)	.....	.....	(³)
22	U. S. Bureau of Reclamation ⁴.....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..	1	.....	2	.....	.....	3	.....	2
31	..... acres irrigated..	8	.....	155	.....	.....	94	.....	1,173
32	Pumped only.....enterprises reporting..	.....	.....	207	.....	7	10	3	2
33	..... acres irrigated..	.....	.....	343,541	.....	1,181	404	523	7
34	Gravity and pumped.....enterprises reporting..	.....	.....	13	.....	.....	4	.....	.....
35	..... acres irrigated..	.....	.....	2,512	.....	.....	492	.....	.....
36	Ground water only (pumped from wells).....enterprises reporting..	2	3	112	510	14	1	54	6
37	..... acres irrigated..	13	29	14,780	70,909	5,000	8	18,195	227
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	.....	.....	23	.....	3	.....	3	3
39	..... acres irrigated..	.....	.....	12,560	.....	17,239	.....	3,211	98
Stored water:									
40	None stored.....enterprises reporting..	3	3	296	509	23	15	60	11
41	..... acres irrigated..	21	29	150,938	70,709	6,304	774	21,929	319
42	Part stored.....enterprises reporting..	.....	.....	21	1	.....	2	.....	1
43	..... acres irrigated..	.....	.....	165,426	200	17,116	120	.....	1,168
44	All stored.....enterprises reporting..	.....	.....	40	.....	.....	1	.....	1
45	..... acres irrigated..	.....	.....	57,184	.....	.....	104	.....	18
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	1	.....	215	.....	10	17	6	5
47	..... acres irrigated..	8	.....	354,853	.....	18,420	990	3,734	1,263
48	Springs.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	3
49	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....	17
50	Flowing wells.....enterprises reporting..	.....	.....	2	.....	.....	.....	.....	.....
51	..... acres irrigated..	.....	.....	393	.....	.....	.....	.....	.....
52	Drainage water.....enterprises reporting..	.....	.....	36	.....	1	.....	.....	.....
53	..... acres irrigated..	.....	.....	25,480	.....	17,116	.....	.....	.....
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..	.....	.....	68	1	1	.....	9	.....
59	Area supplied primary irrigation.....acres 1949..	.....	.....	275,506	240	17,116	.....	3,764	.....
60	Area artificially drained.....acres 1949..	.....	.....	155,212	240	17,116	.....	3,764	.....
61	..... acres 1939..	(*)	(*)	163,660	.....	.....	.....	.....	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	.....	.....	85	1	5	.....	2	.....
63	Area supplied primary irrigation.....acres 1949..	.....	.....	299,920	240	891	.....	1,598	.....
64	Area in need of drainage.....acres 1949..	.....	.....	178,387	240	653	.....	1,398	.....
65	..... acres 1939..	(*)	.....	18,001	.....	.....	.....	.....	.....

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]

Jefferson	Jim Wells	Jones	Kendall	Kerr	Kimble	Kinney	Kleberg	Lamb	La Salle	Lavaca	Liberty	Lubbock	Lynn	McCulloch	McLennan	
56	9	6	3	22	20	7	6	1,056	27	5	28	1,558	182	6	9	1
30	26	(*)	36	49	28	13	(*)	158	55	(*)	6	171	25	3	13	2
4						1		23			6	12	2			3
197	11	8	3	22	20	6	7	1,036	28	4	67	1,584	181	1	12	4
3.5	1.2	1.3	1.0	1.0	1.0	0.9	1.2	1.0	1.0	0.8	2.4	1.0	1.0	0.2	1.3	5
4.4	1.0	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0	1.2	2.8	1.0	1.0	1.0	1.2	6
69,407	401	91	15	517	413	390	403	181,910	1,812	1,875	38,249	242,453	18,446	203	260	7
41,511	400	(*)	109	588	342	1,310	(*)	16,497	3,094	(*)	18,833	15,325	326	17	232	8
352.3	36.5	11.4	5.0	23.5	20.6	65.0	57.6	175.6	64.7	468.8	570.9	153.1	101.9	203.0	21.7	9
1,239	45	15	5	24	21	56	67	172	67	375	1,366	156	101	34	29	10
1,252	45	15	5	24	21	56	67	173	67	375	1,366	156	101	34	29	11
50	9	6	3	22	20	6	6	1,056	26	5	23	1,558	182	6	9	12
30,022	401	91	15	517	413	390	403	182,345	1,812	1,875	9,703	242,453	18,446	203	260	13
																14
																15
																16
																17
																18
6											5					19
40,100											28,546					20
																21
																22
																23
																24
																25
																26
																27
																28
																29
																30
					2	4	6				1			4		31
					65	91	365				100			35		32
54	4	5	1	10	11		1				9	2		1	1	33
69,532	270	84	7	278	125		5				29,886	1,160		3	135	34
1																35
580																36
	2	1	2	8	4	1	5	1,053	4	4	13	1,553	182	1	8	37
	51	7	8	78	118	25	398	181,665	46	1,860	5,963	240,569	18,446	165	125	38
1	3			2	1			3	2		5	3				39
10	80			96	79			680	360		2,300	724				40
36	6	4	3	22	20	7	6	1,056	18	5	15	1,558	182	4	9	41
51,194	129	69	15	517	413	390	403	182,345	708	1,875	32,634	242,453	18,446	173	260	42
9	2								3		10			1		43
16,640	192								460		5,515			15		44
11	1	2							6		3			1		45
2,288	80	22							644		100			15		46
52		5	1	11	12	6	1	1	19	1	12	1		1	1	47
67,924		84	7	371	197	365	5	155	964	15	30,886	20		3	135	48
				2	4			1								49
				8	98			410								50
	5	1	1	1					5		3			4		51
	90			5					902			724		35		52
6											3					53
3,265											1,400					54
	2			1				1				1				55
	260			60				115				1,140				56
																57
24								4			25	1	1		1	58
44,058								580			36,744	400	75		8	59
43,781								580			36,239	175	75		6	60
(*)		(*)					(*)			(*)	(*)				75	61
14								16			18	1				62
42,208								2,814			25,088	100				63
24,770								389			24,648	50				64
		(*)					(*)			(*)	(*)				35	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)		Martin	Matagorda	Maverick	Menard	Midland	Mills	Moore	Nacogdoches
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	50	30	20	26	13	3	5	3
2	..... 1940..	5	6	6	21	26	9	10	(*)
3	Intercounty enterprises.....enterprises 1950..		3	2					
4	Irrigated farms ¹.....farms 1950..	50	159	209	31	14	1	5	4
5	Average per enterprise.....farms 1950..	1.0	5.3	10.4	1.2	1.1	0.3	1.0	1.3
6	Farms irrigated direct per enterprise ².....farms 1950..	1.0	5.6	10.8	1.8	1.0	1.3	1.0	1.0
7	Irrigated land ¹.....acres 1949..	5,195	55,110	34,915	1,810	588	172	1,781	66
8	.....acres 1939..	53	31,992	15,260	3,006	92	140	22	(*)
9	Average per irrigated farm.....acres 1949..	103.9	346.6	167.1	97.0	42.0	172.0	356.2	16.5
10	Average per enterprise.....acres 1949..	104	1,837	1,746	70	45	57	356	22
11	Average acreage irrigated direct per enterprise ².....acres 1949..	109	1,837	1,811	85	45	57	356	22
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	50	27	19	25	13	3	5	3
13	.....acres irrigated..	5,465	8,510	8,481	928	588	172	1,781	66
Mutual:									
14	Unincorporated.....enterprises..		1						
15	.....acres irrigated..		(³)						
16	Incorporated.....enterprises..				1				
17	.....acres irrigated..				(³)				
18	Commercial.....enterprises..		2						
19	.....acres irrigated..		(³)						
20	District.....enterprises..			1					
21	.....acres irrigated..			(³)					
22	U. S. Bureau of Reclamation ⁴.....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..		3	3	2				1
31	.....acres irrigated..		3,107	28,577	1,307				25
32	Pumped only.....enterprises reporting..		6	7	12	1	3		2
33	.....acres irrigated..		46,906	2,124	512	50	172		41
34	Gravity and pumped.....enterprises reporting..			1					
35	.....acres irrigated..			700					
36	Ground water only (pumped from wells).....enterprises reporting..	50	18	5	11	12		5	
37	.....acres irrigated..	5,465	4,383	1,071	276	538		1,781	
38	Surface (gravity or pumped) and ground water.....enterprises reporting..		3	4	1				
39	.....acres irrigated..		714	3,743	115				
Stored water:									
40	None stored.....enterprises reporting..	50	22	18	26	9	2	5	2
41	.....acres irrigated..	5,465	54,176	34,165	2,210	523	122	1,781	26
42	Part stored.....enterprises reporting..		8	1					
43	.....acres irrigated..		934	1,800					
44	All stored.....enterprises reporting..			1		4	1		1
45	.....acres irrigated..			250		65	50		40
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..		12	14	15		3		3
47	.....acres irrigated..		50,727	34,894	1,934		172		66
48	Springs.....enterprises reporting..								
49	.....acres irrigated..								
50	Flowing wells.....enterprises reporting..								
51	.....acres irrigated..								
52	Drainage water.....enterprises reporting..			1					
53	.....acres irrigated..			250					
54	Sewage.....enterprises reporting..					1			
55	.....acres irrigated..					50			
56	Other sources.....enterprises reporting..								
57	.....acres irrigated..								
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..		15	1	1				
59	Area supplied primary irrigation.....acres 1949..		6,654	27,734	47				
60	Area artificially drained.....acres 1949..		6,654	1,500	23				
61	.....acres 1939..		(*)					(*)	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..		11	3	1				
63	Area supplied primary irrigation.....acres 1949..		45,314	29,534	75				
64	Area in need of drainage.....acres 1949..		43,434	1,570	5				
65	.....acres 1939..								(*)

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)		Swisher	Tarrant	Taylor	Terrell	Terry	Tom Green	Travis
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	690	14	10	3	62	180	15
2	..... 1940..	233	28	4	3	4	160	(*)
3	Intercounty enterprises.....enterprises 1950..	19						
4	Irrigated farms ¹.....farms 1950..	683	15	9	5	64	174	17
5	Average per enterprise.....farms 1950..	1.0	1.1	0.9	1.7	1.0	1.0	1.1
6	Farms irrigated direct per enterprise ².....farms 1950..	1.0	0.9	1.0	1.3	1.0	1.0	1.0
7	Irrigated land ¹.....acres 1949..	152,450	186	680	204	6,526	8,855	1,621
8	..... acres 1939..	31,442	534	841	347	104	8,728	(*)
9	Average per irrigated farm.....acres 1949..	223.2	12.4	75.6	40.8	102.0	50.9	95.4
10	Average per enterprise.....acres 1949..	221	13	68	68	105	49	108
11	Average acreage irrigated direct per enterprise ².....acres 1949..	221	13	68	68	105	49	108
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	690	14	10	3	62	178	15
13	..... acres irrigated..	152,630	186	680	204	6,526	8,745	1,621
Mutual:								
14	Unincorporated.....enterprises..						1	
15	..... acres irrigated..						(3)	
16	Incorporated.....enterprises..						1	
17	..... acres irrigated..						(3)	
18	Commercial.....enterprises..							
19	..... acres irrigated..							
20	District.....enterprises..							
21	..... acres irrigated..							
22	U. S. Bureau of Reclamation ⁴.....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..			2	2		7	
31	..... acres irrigated..			16	182		476	
32	Pumped only.....enterprises reporting..		6	6			60	6
33	..... acres irrigated..		115	653			3,968	1,216
34	Gravity and pumped.....enterprises reporting..						3	
35	..... acres irrigated..						405	
36	Ground water only (pumped from wells).....enterprises reporting..	690	8	2	1	62	104	9
37	..... acres irrigated..	152,630	71	11	22	6,526	3,539	405
38	Surface (gravity or pumped) and ground water.....enterprises reporting..						6	
39	..... acres irrigated..						514	
Stored water:								
40	None stored.....enterprises reporting..	690	14	9	2	62	180	15
41	..... acres irrigated..	152,630	186	664	52	6,526	8,902	1,621
42	Part stored.....enterprises reporting..				1			
43	..... acres irrigated..				152			
44	All stored.....enterprises reporting..			1				
45	..... acres irrigated..			16				
Sources of surface water, 1949: ⁵								
46	Streams (and lakes).....enterprises reporting..		6	7	2		75	6
47	..... acres irrigated..		115	69	182		5,273	1,216
48	Springs.....enterprises reporting..	1			2			
49	..... acres irrigated..	139			182			
50	Flowing wells.....enterprises reporting..							
51	..... acres irrigated..							
52	Drainage water.....enterprises reporting..							
53	..... acres irrigated..							
54	Sewage.....enterprises reporting..			1			1	
55	..... acres irrigated..			600			90	
56	Other sources.....enterprises reporting..							
57	..... acres irrigated..							
Drainage of irrigated land: ⁶								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	1	2	2				
59	Area supplied primary irrigation.....acres 1949..	200	25	14				
60	Area artificially drained.....acres 1949..	8	11	14				
61	..... acres 1939..		103					(*)
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	5	2					
63	Area supplied primary irrigation.....acres 1949..	1,245	25					
64	Area in need of drainage.....acres 1949..	24	17					
65	..... acres 1939..		17					(*)

*Not available.

¹Farms or acres irrigated direct by 2 or more enterprises are counted only on e. 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.

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	Anderson	Armstrong	Atascosa	Austin	Bailey	Bandera	Baylor
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	345	1		4		7	2	
2	dams 1950..	438	1		4		7	2	
3	1940..	244	(*)			(*)		1	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	106							
5	Timber.....dams 1950..	6							
6	Earth and rock.....dams 1950..	304	1		4		7	2	
7	Other, mixed, and not reported.....dams 1950..	22							
8	Reservoirs.....enterprises reporting 1950..	421	1		29				2
9	reservoirs 1950..	566	1		38				2
10	1940..	542	(*)	3	17	(*)		1	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	508	1		34				2
12	total capacity, acre-feet 1950..	1,402,883	5		368				631,581
13	1940..	1,405,024	(*)	5	60	(*)		(*)	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	384	1		32				1
15	100-999 acre-feet.....reservoirs 1950..	96			2				
16	1,000 acre-feet and over.....reservoirs 1950..	28							1
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	36			1				
18	Earth and rock.....dams 1950..	501	1		36				2
19	Other, mixed, and not reported.....dams 1950..	29			1				
20	Canals and ditches.....enterprises reporting 1950..	1,682			20	2	5		2
21	total length, miles 1950..	10,092			11	10	18		4
22	1940..	5,936	(*)		12	(*)			(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	465			4				
24	total length, miles 1950..	1,168			1				
25	1940..	923	(*)		(1)	(*)		(1)	(*)
26	Tunnels.....enterprises reporting 1950..	5							
27	total length, feet 1950..	1,239							
28	Flowing wells.....enterprises reporting 1950..	107			33				
29	wells 1950..	152			49				
30	1940..	100	(*)		25	(*)			(*)
31	Pumped wells.....enterprises reporting 1950..	9,977	1	10	69	3	329		
32	wells 1950..	15,070	1	13	85	3	439		
33	1940..	3,396	(*)	5	43	(*)	101	1	(*)
34	Wells for which pumping lift was reported.....wells 1949..	14,206	1	13	74	2	427		
35	Average pumping lift.....feet 1949..	125	105	133	39	92	76		
36	1939..	82	(*)	85	19	(*)	45	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	11,248	3	10	69	3	330	3	3
38	pumps 1950..	17,815	5	13	82	3	442	3	3
39	pumping plants 1940..	4,674	(*)	6	42	(*)	101	3	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	2,034			20		123		
41	electric motors 1950..	3,238			22		158		
42	Other motors and engines used for pumping.....enterprises reporting 1950..	9,769	3	10	51	3	237	3	3
43	other motors and engines 1950..	14,620	5	13	58	3	299	3	3
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	326			9		2		
45	acres irrigated..	27,281			100		96		
46	Water delivered before and after July 1.....enterprises reporting..	9,616	2	6	87	3	295	5	4
47	acres irrigated..	2,919,540	14	628	3,850	1,200	45,832	91	144
48	Water delivered only after July 1.....enterprises reporting..	1,191	1	4	5		16		
49	acres irrigated..	169,186	3	460	69		1,652		
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	66,441,376	(*)	9,866	111,477	(*)	96,766	800	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	9,511	3	10	57	1	318	3	2
52	Amount.....dollars 1950..	78,003,937	3,611	47,300	128,202	20,000	1,596,131	6,000	7,100
53	Area irrigated direct.....acres 1949..	2,715,018	17	1,088	3,027	350	49,332	85	44
54	Total capital investment Jan. 1, 1950.....dollars 1950..	144,445,313	(*)	57,166	239,679	(*)	1,692,897	6,800	(*)
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	54							
56	Amount.....dollars 1950..	30,832,875							
57	1940..	36,041,388	(*)		7,729	(*)			(*)
58	Area irrigated direct.....acres 1949..	865,447							
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
59	Enterprises reporting.....enterprises 1950..	1							
60	Amount.....dollars 1950..	3,752							
61	Area irrigated direct.....acres 1949..	7,217							

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.

[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)		Dallas	Dallas	Dawson	Deaf Smith	Dickens	Dimmit	Donley	El Paso
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..				3		1	4	1
2	dams 1950..				3		1	9	1
3	1940..		4	(*)			1		2
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..						1		1
5	Timber.....dams 1950..								
6	Earth and rock.....dams 1950..				3			9	
7	Other, mixed, and not reported.....dams 1950..								
8	Reservoirs.....enterprises reporting 1950..		7				53		
9	reservoirs 1950..		8				73		
10	1940..		4	(*)	2		105		
11	Reservoirs for which capacity was reported.....reservoirs 1950..		6				73		
12	total capacity, acre-feet 1950..		111				8,244		
13	1940..		15	(*)	(*)		14,827		
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..		6				71		
15	100-999 acre-feet.....reservoirs 1950..								
16	1,000 acre-feet and over.....reservoirs 1950..						2		
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..						2		
18	Earth and rock.....dams 1950..		8				70		
19	Other, mixed, and not reported.....dams 1950..						1		
20	Canals and ditches.....enterprises reporting 1950..	2	10	3	91		4		4
21	total length, miles 1950..	2	4	4	204		4		257
22	1940..			(*)			4		256
23	Pipelines and siphons ².....enterprises reporting 1950..	1	11			1	6		
24	total length, miles 1950..	1	2				4		
25	1940..		15	(*)		(1)	2		1
26	Tunnels.....enterprises reporting 1950..								
27	total length, feet 1950..								
28	Flowing wells.....enterprises reporting 1950..				1		1		
29	wells 1950..				1		1		
30	1940..			(*)	1				
31	Pumped wells.....enterprises reporting 1950..	44	19	5	376	3	157	6	7
32	wells 1950..	78	30	6	651	3	226	6	7
33	1940..	16	65	(*)	227	21	251	3	
34	Wells for which pumping lift was reported.....wells 1949..	75	21	6	594	3	216	6	4
35	Average pumping lift.....feet 1949..	81	26	146	123	30	140	126	128
36	1939..	50	25	(*)	95	40	65	132	
37	Irrigation pumps.....enterprises reporting 1950..	44	30	5	376	3	169	6	7
38	pumps 1950..	78	43	6	650	3	284	8	7
39	1940..	16	49	(*)	229	21	289	3	
40	Electric motors used for pumping.....enterprises reporting 1950..	14	10		216	1	75		
41	electric motors 1950..	29	15		330	1	118		
42	Other motors and engines used for								
43	pumping.....enterprises reporting 1950..	37	24	5	229	2	117	6	7
	other motors and engines 1950..	49	29	6	327	2	170	8	7
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..				9		3		
45	acres irrigated.....				1,464		123		
46	Water delivered before and after July 1.....enterprises reporting..	29	28	5	320	2	143	3	8
47	acres irrigated.....	4,009	437	363	87,925	3	18,634	152	69,595
48	Water delivered only after July 1.....enterprises reporting..	9	1		42	1	25	2	
49	acres irrigated.....	1,063	2		6,858	25	2,402	55	
Capital investment:									
50	Capital investment in irrigation works and water								
	rights to Jan. 1, 1940.....dollars 1940..	20,745	32,754	(*)	630,146	2,554	936,095	800	2,847,764
	New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
51	Enterprises reporting.....enterprises 1950..	42	18	4	276	1	116	6	4
52	Amount.....dollars 1950..	355,600	31,042	27,900	1,995,346	1,000	599,657	33,550	195,400
53	Area irrigated direct.....acres 1949..	4,822	291	298	77,118	25	13,142	207	67,128
54	Total capital investment Jan. 1, 1950.....dollars 1950..	376,345	63,796	(*)	2,625,492	3,554	1,535,752	34,350	3,043,164
Indebtedness: ³									
Outstanding bonds, construction cost, and other									
funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..						1		1
56	Amount.....dollars 1950..						161,000		1,775,000
57	1940..			(*)			57,600		1,819,000
58	Area irrigated direct.....acres 1949..								67,079
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.

[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)		Martin	Matagorda	Maverick	Menard	Midland	Mills	Moore	Nacogdoches
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..		6						1
2	Diversion dams.....dams 1950..		8						1
3	Diversion dams.....dams 1940..		1		2	1			(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..		1						
5	Timber.....dams 1950..								
6	Earth and rock.....dams 1950..		6						1
7	Other, mixed, and not reported.....dams 1950..		1						
8	Reservoirs.....enterprises reporting 1950..		6	1		4	1		1
9	Reservoirs.....reservoirs 1950..		6	3		8	4		2
10	Reservoirs.....reservoirs 1940..	4	1	1			5	7	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..		6	3		8			
12	Reservoirs.....total capacity, acre-feet 1950..		712	122		59			
13	Reservoirs.....total capacity, acre-feet 1940..	4	(*)	(*)			59	5	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..		2	2		8			
15	100-999 acre-feet.....reservoirs 1950..		4	1					
16	1,000 acre-feet and over.....reservoirs 1950..								
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..								
18	Earth and rock.....dams 1950..		6	3		6	4		2
19	Other, mixed, and not reported.....dams 1950..					2			
20	Canals and ditches.....enterprises reporting 1950..		21	7	12		3		1
21	Canals and ditches.....total length, miles 1950..		431	62	28		2		(1)
22	Canals and ditches.....total length, miles 1940..	1	312	194	20		1		(*)
23	Pipelines and siphons ².....enterprises reporting 1950..		2	3	7	1			1
24	Pipelines and siphons ².....total length, miles 1950..		2	(1)	2	4			(1)
25	Pipelines and siphons ².....total length, miles 1940..	1		1	1	1	1	5	(*)
26	Tunnels.....enterprises reporting 1950..								
27	Tunnels.....total length, feet 1950..								
28	Flowing wells.....enterprises reporting 1950..								
29	Flowing wells.....wells 1950..								
30	Flowing wells.....wells 1940..								(*)
31	Pumped wells.....enterprises reporting 1950..	50	21	8	12	12		5	
32	Pumped wells.....wells 1950..	68	25	19	14	16		7	
33	Pumped wells.....wells 1940..	6	1	1	5	29		15	(*)
34	Wells for which pumping lift was reported.....wells 1949..	64	24	19	13	16		7	
35	Wells.....Average pumping lift.....feet 1949..	133	76	78	34	79		235	
36	Wells.....Average pumping lift.....feet 1939..	90	(*)	(*)	72	53		169	(*)
37	Irrigation pumps.....enterprises reporting 1950..	50	26	17	24	13	3	5	2
38	Irrigation pumps.....pumps 1950..	71	50	39	33	17	3	7	2
39	Irrigation pumps.....pumping plants 1940..	7	11	5	20	34	6	17	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	4	5	11	7	5		1	
41	Electric motors used for pumping.....electric motors 1950..	4	14	30	8	6		1	
42	Other motors and engines used for pumping.....enterprises reporting 1950..	47	20	10	20	10	2	4	2
43	Other motors and engines used for pumping.....other motors and engines 1950..	67	36	18	25	11	2	6	2
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..			2	4				
45	Water delivered only before July 1.....acres irrigated..			750	145				
46	Water delivered before and after July 1.....enterprises reporting..	40	29	16	18	12	2	2	
47	Water delivered before and after July 1.....acres irrigated..	4,520	54,910	34,475	2,065	582	150	166	
48	Water delivered only after July 1.....enterprises reporting..	5	1			1	1	3	3
49	Water delivered only after July 1.....acres irrigated..	360	200			6	22	1,615	66
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	2,050	896,091	4,625,116	31,650	12,163	3,775	9,420	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	37	23	10	18	12	3	4	
52	Amount.....dollars 1950..	245,355	537,597	521,730	45,463	89,086	7,800	57,100	
53	Area irrigated direct.....acres 1949..	4,180	47,982	30,603	777	538	172	1,701	
54	Total capital investment Jan. 1, 1950.....dollars 1950..	247,405	1,433,688	5,146,846	77,113	101,249	11,575	66,520	(*)
Indebtedness: ³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..		1	1					
56	Amount.....dollars 1950..		477,375	3,365,000					
57	Amount.....dollars 1940..		643,524	3,957,000	1,250				(*)
58	Area irrigated direct.....acres 1949..		39,700	27,734					
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 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.]

Nueces	Ochiltree	Orange	Parmer	Pecos	Potter	Presidio	Randall	Reagan	Real	Reeves	Runnels	San Patricio	San Saba	Smith	Starr
		1		6		37				8	3		4	2	27
		1		21		39				9	3		6	2	27
(*)	(*)			21		52	2	(*)	18	5	2	(*)	2	(*)	(*)
				3		2				3	2		1	1	4
				18		36				4	1		5	1	27
		1		1		1				2					7
			1	21		1				4		3	3	7	2
			1	22		1				8		4	5	7	2
(*)	(*)		3	2		15	1	(*)	1	5	6	(*)	2	(*)	(*)
				21		1				2		4	2	7	2
(*)	(*)			14,649		3				316,000		45	2	161	45
		122		(*)		8,213	(*)	(*)	(*)	306,455	217	(*)	5	(*)	(*)
				19		1						4	2	6	2
				1										1	15
				1						2					16
				22		1				1				1	17
			1							7		4	2	5	2
													3	1	19
1		2	3	13	7	43	23		4	75	2	2	11	2	23
(*)	(*)	126	16	280	1	103	44		2	530	2	2	13	1	28
		117		257	5	97		(*)	15	126	2	(*)	11	(*)	(*)
				3		2			4	6	7	2	4	6	13
(1)				2		(1)			2	5	5	(1)	2	3	10
(*)	(*)		(1)	(1)	(1)	1	1	(*)	1		1	(*)	2	(*)	(*)
						1									26
		60				70									27
		1		5		1							3		28
		1		9		1							3		29
(*)	(*)			10		3		(*)		12		(*)		(*)	(*)
															30
3	3	3	203	92	23	29	166	3	6	96	5	2	4	1	31
(*)	(*)	5	268	192	34	34	214	3	8	259	6	2	4		32
		1	25	2	9	20	37	(*)	7	26	4	(*)		(*)	33
1	3	5	249	188	26	30	205	3	7	249	6	2	4	1	34
(*)	(*)	180	181	86	164	30	158	139	22	127	65	18	82	12	35
		38	125	(*)	108	36	126	(*)	22	41	36	(*)		(*)	(*)
															36
4	3	6	203	93	23	51	166	3	11	97	17	5	24	7	91
(*)	(*)	12	268	187	30	75	214	3	12	260	24	7	28	7	116
		5	27	2	7	68	44	(*)	8	28	36	(*)	19	(*)	(*)
		1	5	12	18	12	106		2	26	2	3	3	1	17
		2	5	41	21	13	127		2	57	2	3	3	1	24
															42
4	3	5	200	75	9	44	72	3	9	82	16	4	20	7	81
7	3	10	263	141	9	62	87	3	10	203	22	4	24	7	93
															44
			2	1		6	3		2	4	3	1	7	1	5
			417	28		299	354		127	812	30	8	163	6	136
		6	184	82	21	80	112	3	9	96	11	2	20	4	86
3,520	3	8,198	45,378	30,889	1,970	9,303	16,552	81	326	44,824	406	33	1,020	362	8,296
		1	14	3	2		40		1		4		3	2	1
		4	1,957	130	627		4,149		6		35		156	5	30
															49
(*)	(*)	631,122	28,893	1,228,577	9,506	154,335	79,020	(*)	9,838	631,662	22,041	(*)	30,472	(*)	(*)
															50
	2	5	191	85	19	48	148	3	9	93	15	4	17	4	27
	14,800	24,425	1,516,785	1,118,286	84,371	125,085	953,034	12,600	40,860	2,854,114	32,949	6,600	33,970	26,035	142,725
	135	955	44,598	25,262	2,162	6,694	20,615	81	382	33,830	319	41	954	358	4,600
(*)	(*)	655,547	1,545,678	2,346,863	93,877	279,420	1,032,054	(*)	50,698	3,485,776	54,990	(*)	64,442	(*)	(*)
															54
															55
104,000		1		2						2					1
(*)	(*)	369,675		592,500						504,000					1,000
		483,750		442,038				(*)		160,449		(*)		(*)	(*)
															57
3,250		7,217		9,351						10,121					532
															58
															59
		1													60
		3,752													61
		7,217													

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)	Swisher	Tarrant	Taylor	Terrell	Terry	Tom Green	Travis
ALL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..			6	2		32	6
2 Diversion dams.....dams 1950..			7	2		32	6
3 Diversion dams.....dams 1940..			10	2		23	(*)
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..						26	
5 Timber.....dams 1950..							
6 Earth and rock.....dams 1950..			7	2		1	6
7 Other, mixed, and not reported.....dams 1950..						5	
8 Reservoirs.....enterprises reporting 1950..			2	1			
9 Reservoirs.....reservoirs 1950..			3	1			
10 Reservoirs.....reservoirs 1940..	11		7			22	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..			3	1			
12 total capacity, acre-feet 1950..			60	18			
13 total capacity, acre-feet 1940..	35		103			1,601	(*)
Reservoirs by capacity:							
14 1-99 acre-feet.....reservoirs 1950..			3	1			
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..				1			
18 Earth and rock.....dams 1950..			3				
19 Other, mixed, and not reported.....dams 1950..							
20 Canals and ditches.....enterprises reporting 1950..	2	2	5	2	22	19	
21 total length, miles 1950..	2	1	2	2	50	25	
22 total length, miles 1940..			1	1	(¹)	50	(*)
23 Pipelines and siphons ².....enterprises reporting 1950..		3	7		5	2	
24 total length, miles 1950..		1	1		5	2	
25 total length, miles 1940..	1	29	1			7	(*)
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..	688	8	2	1	62	110	9
32 wells 1950..	1,087	8	2	1	78	159	13
33 wells 1940..	247	24	1		4	121	(*)
34 Wells for which pumping lift was reported.....wells 1949..	1,067	2	2	1	75	146	13
35 Average pumping lift.....feet 1949..	116	40	15	30	126	84	34
36 Average pumping lift.....feet 1939..	97	18	(*)		112	69	(*)
37 Irrigation pumps.....enterprises reporting 1950..	688	14	8	1	62	173	15
38 pumps 1950..	1,086	16	13	1	82	234	20
39 pumping plants 1940..	263	39	1		4	175	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	14	1	3		2	86	6
41 electric motors 1950..	35	2	5		3	124	9
42 Other motors and engines used for pumping.....enterprises reporting 1950..	682	13	5	1	61	93	10
43 other motors and engines 1950..	1,071	13	8	1	80	105	10
Season of irrigation, 1949:							
44 Water delivered only before July 1.....enterprises reporting..	8				2	3	1
45 Water delivered only before July 1.....acres irrigated..	915			30	360	38	30
46 Water delivered before and after July 1.....enterprises reporting..	485	3	8	2	53	130	10
47 Water delivered before and after July 1.....acres irrigated..	119,396	70	652	174	6,166	7,027	1,387
48 Water delivered only after July 1.....enterprises reporting..	186	4	2			40	4
49 Water delivered only after July 1.....acres irrigated..	31,789	77	28			1,936	204
Capital investment:							
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	511,236	44,860	37,400	3,200	7,662	299,996	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51 Enterprises reporting.....enterprises 1950..	631	4	7	3	53	92	
52 Amount.....dollars 1950..	3,403,132	10,645	23,850	5,000	358,207	174,007	
53 Area irrigated direct.....acres 1949..	143,003	87	68	204	5,431	4,166	
54 Total capital investment Jan. 1, 1950.....dollars 1950..	3,914,368	55,505	61,250	8,200	365,869	474,003	(*)
Indebtedness:³							
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..							
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..							

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

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	Anderson	Armstrong	Atascosa	Austin	Bailey	Bandera	Baylor
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	11,330	3	10	102	3	329	5	3
2	Cost.....dollars..	20,792,425	96	5,317	18,773	4,500	180,491	0	240
3	Area irrigated direct.....acres..	3,177,173	17	1,088	4,060	1,200	50,282	91	144
4	Cost per acre irrigated direct.....dollars..	6.54	5.65	4.89	4.62	3.75	3.59	0.00	1.67
5	Total cost per irrigated acre.....dollars..	6.60	5.65	4.89	4.62	3.75	3.59	0.00	1.67
6	Total cost per acre-foot of water.....dollars..	2.87	(²)	(²)	(²)	(²)	(²)	0.00	(²)
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	770	.....	.....	42	1	13	5	1
8	.....acres irrigated..	153,858	.....	.....	1,359	450	1,530	91	100
9	\$1.00-\$1.99.....enterprises reporting..	1,044	.....	1	4	.....	65	.....	.....
10	.....acres irrigated..	260,399	.....	200	1,190	.....	12,372	.....	.....
11	\$2.00-\$4.99.....enterprises reporting..	4,285	1	6	10	1	155	.....	1
12	.....acres irrigated..	992,998	10	517	478	400	26,320	.....	32
13	\$5.00-\$9.99.....enterprises reporting..	3,150	1	2	13	1	67	.....	1
14	.....acres irrigated..	1,177,348	3	266	627	350	8,641	.....	12
15	\$10.00 and over.....enterprises reporting..	2,081	1	1	33	.....	29	.....	.....
16	.....acres irrigated..	592,570	4	105	406	.....	1,419	.....	.....
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	11,238	3	10	102	3	329	5	3
18	Cost.....dollars..	20,631,163	96	5,317	18,773	4,500	180,196	0	240
19	Area supplied primary irrigation.....acres..	3,150,527	17	1,088	4,060	1,200	50,212	91	144
20	Cost per acre supplied.....dollars..	6.55	5.65	4.89	4.62	3.75	3.59	0.00	1.67
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	146	.....	.....	.....	.....	3	.....	.....
22	Cost.....dollars..	161,262	.....	.....	.....	.....	295	.....	.....
23	Area supplied supplemental irrigation.....acres..	26,646	.....	.....	.....	.....	70	.....	.....
24	Cost per acre supplied.....dollars..	6.05	.....	.....	.....	.....	4.21	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁴									
25	Enterprises reporting.....enterprises..	53	.....	.....	.....	.....	.....	.....	.....
26	Cost.....dollars..	2,073,630	.....	.....	.....	.....	.....	.....	.....
27	Area irrigated direct.....acres..	862,227	.....	.....	.....	.....	.....	.....	.....
28	Cost per acre irrigated.....dollars..	2.40	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29	Enterprises reporting.....enterprises..	38	.....	.....	.....	.....	.....	.....	.....
30	Amount.....dollars..	951,832	.....	.....	.....	.....	.....	.....	.....
31	Area irrigated direct.....acres..	708,794	.....	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	11,380	3	10	103	3	330	5	3
33	Area irrigated.....acres..	2,134,459	17	1,088	4,060	1,200	50,282	91	144
34	Complete-system enterprises ⁵.....enterprises..	10,951	3	10	101	3	329	5	3
35	Area irrigated.....acres..	2,068,687	17	1,088	4,019	1,200	50,282	91	144
Other farms irrigated:									
36	Enterprises reporting.....number..	406	.....	1	3	.....	13	.....	.....
37	Number of other farms.....farms..	563	.....	1	8	.....	14	.....	.....
38	Area irrigated in other farms.....acres..	44,908	.....	15	48	.....	539	.....	.....
Enterprises by origin of water supply: ⁵									
39	No water from other enterprises.....enterprises reporting..	11,122	3	10	102	3	330	5	3
40	.....acres irrigated..	2,069,243	17	1,088	4,019	1,200	50,282	91	144
41	Part of water from other enterprises.....enterprises reporting..	73	.....	.....	.....	.....	.....	.....	.....
42	.....acres irrigated..	28,914	.....	.....	.....	.....	.....	.....	.....
43	All of water from other enterprises.....enterprises reporting..	185	.....	.....	1	.....	.....	.....	.....
44	.....acres irrigated..	36,302	.....	.....	41	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	11,076	3	10	102	3	326	5	3
46	.....acres irrigated..	2,108,139	17	1,088	4,060	1,200	50,059	91	144
47	Part primary, part supplemental.....enterprises reporting..	46	.....	.....	.....	.....	3	.....	.....
48	.....acres irrigated..	5,440	.....	.....	.....	.....	153	.....	.....
49	Supplemental irrigation.....acres irrigated..	3,337	.....	.....	.....	.....	70	.....	.....
50	All supplemental.....enterprises reporting..	91	.....	.....	.....	.....	.....	.....	.....
51	.....acres irrigated..	17,543	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵									
52	None.....enterprises reporting..	167	.....	.....	1	.....	1	.....	.....
53	1-9 acres.....enterprises reporting..	570	2	.....	33	.....	11	.....	.....
54	10-29 acres.....enterprises reporting..	916	1	.....	38	.....	25	2	1
55	30-59 acres.....enterprises reporting..	966	.....	3	20	.....	34	1	1
56	60-99 acres.....enterprises reporting..	1,362	.....	2	6	.....	62	.....	.....
57	100-199 acres.....enterprises reporting..	3,718	.....	3	1	.....	121	.....	1
58	200-499 acres.....enterprises reporting..	2,977	.....	2	3	3	67	.....	.....
59	500-999 acres.....enterprises reporting..	567	.....	.....	.....	.....	9	.....	.....
60	1,000 acres or more.....enterprises reporting..	137	.....	.....	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.]

Bexar	Brazoria	Brewster	Briscoe	Brooks	Brown	Cameron	Castro	Chambers	Cherokee	Cochran	Coleman	Colorado	Crockett	Crosby	Culberson
81	57	5	92	21	6	282	502	32	43	45	6	37	3	309	5
30,267	919,345	824	57,911	5,964	15,773	1,540,436	601,065	568,444	3,003	30,880	682	502,420	5,558	387,249	17,434
9,237	77,695	298	14,851	452	2,138	216,899	132,010	68,725	212	6,590	123	41,268	700	58,158	1,760
3.27	11.83	2.77	3.90	13.19	7.38	7.10	4.55	8.27	14.17	4.69	5.54	12.17	7.94	6.66	9.91
3.32	11.84	2.77	3.90	13.43	7.41	7.23	4.56	8.27	14.37	4.69	5.54	12.39	7.94	6.75	9.91
0.77	6.23	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
23	5	2	7	.....	.....	33	25	3	7	1	2	1	.....	11	.....
4,778	1,915	239	934	.....	.....	6,880	5,473	1,763	44	180	36	260	.....	2,380	.....
3	4	.....	22	.....	.....	25	56	6	3	7	.....	1	.....	9	.....
229	1,063	.....	3,868	.....	.....	5,898	14,555	1,871	19	1,306	.....	200	.....	2,518	.....
19	11	1	36	2	1	70	266	9	2	20	1	5	.....	116	2
1,669	2,161	20	6,804	90	76	36,637	72,371	3,458	19	2,853	20	1,995	.....	24,269	515
12	17	.....	20	4	2	77	120	6	9	12	2	15	.....	92	.....
2,139	8,805	.....	2,590	147	2,018	127,443	32,036	48,823	47	1,494	57	5,482	450	16,290	.....
24	20	2	7	15	2	77	35	8	22	5	1	15	1	75	3
442	63,751	39	655	215	37	40,041	7,375	12,810	83	757	10	33,331	250	12,701	1,245
81	56	5	92	20	6	269	501	32	43	45	6	33	3	302	5
30,267	918,735	824	57,911	5,794	15,721	1,521,738	600,584	568,444	3,003	30,880	682	498,793	5,558	381,934	17,434
9,114	77,655	298	14,851	444	2,128	213,189	131,765	68,725	209	6,590	123	40,548	700	57,424	1,760
3.32	11.83	2.77	3.90	13.05	7.39	7.14	4.56	8.27	14.37	4.69	5.54	12.30	7.94	6.65	9.91
1	1	.....	.....	1	1	17	2	.....	1	.....	.....	4	.....	1	.....
0	610	.....	.....	170	52	18,698	481	.....	0	.....	.....	3,667	.....	5,415	.....
143	40	.....	.....	8	10	3,710	245	.....	3	.....	.....	720	.....	734	.....
0.00	15.25	.....	.....	21.25	5.20	5.04	1.96	.....	0.00	.....	.....	5.09	.....	7.38	.....
1	3	.....	.....	.....	.....	15	.....	3	.....	.....	.....	.....	.....	.....	.....
2,025	100,378	.....	.....	.....	.....	361,056	.....	96,838	.....	.....	.....	.....	.....	.....	.....
845	26,352	.....	.....	.....	.....	172,664	.....	35,672	.....	.....	.....	.....	.....	.....	.....
2.40	3.81	.....	.....	.....	.....	2.09	.....	2.71	.....	.....	.....	.....	.....	.....	.....
1	2	.....	.....	.....	1	13	.....	3	.....	.....	.....	.....	.....	.....	.....
14,936	32,401	.....	.....	.....	2,302	233,121	.....	96,883	.....	.....	.....	.....	.....	.....	.....
845	46,662	.....	.....	.....	2,003	164,036	.....	50,770	.....	.....	.....	.....	.....	.....	.....
60	53	5	94	21	5	267	514	28	43	46	6	33	3	308	5
3,576	17,133	298	14,851	452	129	39,949	132,010	9,955	212	6,590	123	9,904	700	58,158	1,760
57	49	5	92	21	2	190	502	21	43	45	6	31	3	303	5
3,561	14,805	298	14,851	452	83	29,583	132,010	8,272	212	6,590	123	9,591	700	58,158	1,760
2	2	.....	1	.....	.....	16	12	2	1	2	.....	2	.....	13	.....
2	3	.....	1	.....	.....	30	13	2	1	2	.....	3	.....	15	.....
54	523	.....	42	.....	.....	2,013	1,519	290	3	62	.....	785	.....	1,502	.....
59	49	5	94	21	2	193	514	21	43	46	6	31	3	308	5
3,561	14,805	298	14,851	452	83	29,583	132,010	8,272	212	6,590	123	9,591	700	58,158	1,760
.....	.....	.....	.....	.....	2	17	.....	3	.....	.....	.....	2	.....	.....	.....
.....	.....	.....	.....	.....	40	2,487	.....	615	.....	.....	.....	113	.....	.....	.....
1	4	.....	.....	.....	1	57	.....	4	.....	.....	.....	.....	.....	.....	.....
15	2,328	.....	.....	.....	12	7,879	.....	1,068	.....	.....	.....	.....	.....	.....	.....
58	52	5	92	20	4	249	500	28	42	45	6	29	3	302	5
3,576	17,093	298	14,851	444	120	39,188	131,530	9,955	200	6,590	123	8,984	700	57,424	1,760
.....	.....	.....	.....	.....	1	2	1	.....	1	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	5	51	235	.....	9	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	10	26	25	.....	3	.....	.....	.....	.....	.....	.....
.....	1	.....	.....	1	.....	13	1	.....	.....	.....	.....	.....	.....	1	.....
.....	40	.....	.....	8	.....	684	220	.....	.....	.....	.....	720	.....	734	.....
2	.....	.....	2	.....	.....	3	12	.....	.....	1	.....	.....	.....	5	.....
15	3	.....	.....	7	1	11	3	.....	38	.....	1	.....	.....	2	.....
16	9	3	2	11	3	59	6	.....	5	3	1	.....	1	.....	.....
11	2	1	5	.....	.....	43	6	.....	2	4	1	.....	2	.....	11
7	2	.....	16	2	1	38	36	.....	2	.....	7	.....	5	.....	23
4	10	.....	38	1	.....	63	184	.....	4	.....	20	.....	7	.....	154
4	18	1	29	.....	.....	32	212	.....	10	.....	10	.....	11	2	98
1	6	.....	2	.....	.....	11	47	.....	9	.....	1	.....	6	.....	14
.....	3	.....	.....	.....	.....	7	8	.....	1	.....	.....	1	.....	1	.....

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)	Dallam	Dallas	Dawson	Deaf Smith	Dickens	Dimmit	Donley	El Paso
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	38	29	5	371	3	170	5	8
2 Cost.....dollars..	34,770	6,380	1,133	367,217	235	273,272	3,422	478,310
3 Area irrigated direct.....acres..	5,072	439	363	96,247	28	21,218	207	69,595
4 Cost per acre irrigated direct.....dollars..	6.86	14.53	3.12	3.82	8.39	12.88	16.53	6.87
5 Total cost per irrigated acre.....dollars..	6.86	14.53	3.12	3.82	8.39	12.88	16.53	6.87
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..				27	1	18		
8 ..acres irrigated.....				7,830	1	2,236		
9 \$1.00-\$1.99.....enterprises reporting..	2	1	2	63		6		
10 ..acres irrigated.....	445	26	80	21,972		2,328		
11 \$2.00-\$4.99.....enterprises reporting..	9	8	1	163		16	2	2
12 ..acres irrigated.....	1,180	175	220	44,521		4,764	75	2,027
13 \$5.00-\$9.99.....enterprises reporting..	16	2	2	84	2	31	1	3
14 ..acres irrigated.....	2,395	3	63	18,771	27	3,807	20	67,514
15 \$10.00 and over.....enterprises reporting..	11	18		34		99	2	3
16 ..acres irrigated.....	1,052	235		3,153		8,083	112	54
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	38	29	5	371	3	170	5	8
18 Cost.....dollars..	34,770	6,380	1,133	367,217	235	273,272	3,422	478,310
19 Area supplied primary irrigation.....acres..	5,072	439	363	96,247	28	21,218	207	69,595
20 Cost per acre supplied.....dollars..	6.86	14.53	3.12	3.82	8.39	12.88	16.53	6.87
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..								1
26 Cost.....dollars..								98,246
27 Area irrigated direct.....acres..								67,079
28 Cost per acre irrigated.....dollars..								1.46
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29 Enterprises reporting.....enterprises..						1		
30 Amount.....dollars..						573		
31 Area irrigated direct.....acres..								
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	44	30	5	377	3	169	6	7
33 Area irrigated.....acres..	5,072	439	363	96,247	28	21,173	207	2,516
34 Complete-system enterprises ⁵.....enterprises..	38	29	5	371	3	162	5	7
35 Area irrigated.....acres..	5,072	439	363	96,247	28	17,717	207	2,516
Other farms irrigated:								
36 Enterprises reporting.....number..	1			4		11		
37 Number of other farms.....farms..	1			5		14		
38 Area irrigated in other farms.....acres..	14			146		686		
Enterprises by origin of water supply:⁵								
39 No water from other enterprises.....enterprises reporting..	44	30	5	377	3	162	6	7
40 ..acres irrigated.....	5,072	439	363	96,247	28	17,717	10,207	2,516
41 Part of water from other enterprises.....enterprises reporting..						5		
42 ..acres irrigated.....						3,106		
43 All of water from other enterprises.....enterprises reporting..						2		
44 ..acres irrigated.....						350		
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	38	29	5	371	3	169	5	7
46 ..acres irrigated.....	5,072	439	363	96,247	28	21,173	207	2,516
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:⁵								
52 None.....enterprises reporting..	6	1		6			1	
53 1-9 acres.....enterprises reporting..	1	14		3	2	22		1
54 10-29 acres.....enterprises reporting..	1	10	2	20	1	31	2	2
55 30-59 acres.....enterprises reporting..	5	4	1	15		38	2	1
56 60-99 acres.....enterprises reporting..	15	1	1	29		26	1	
57 100-199 acres.....enterprises reporting..	7			132		23	1	
58 200-499 acres.....enterprises reporting..	8		1	123		18		2
59 500-999 acres.....enterprises reporting..	1			40		6		
60 1,000 acres or more.....enterprises reporting..				9		5		1

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

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.]

Falls	Fisher	Floyd	Fort Bend	Frio	Gaines	Galveston	Garza	Gillespie	Glasscock	Gonzales	Guadalupe	Hale	Hansford	Hardeman	Harris	
5	3	578	35	17	47	19	22	3	8	4	3	1,445	5	12	101	1
437	1,282	649,918	283,798	9,720	28,620	293,693	12,651	107	6,998	550	258	1,575,534	4,660	3,358	255,566	2
42	210	132,808	23,691	2,310	7,236	25,270	1,522	14	461	764	111	316,572	340	485	37,549	3
10.40	6.10	4.89	11.98	4.21	3.96	11.62	8.31	7.64	15.18	0.72	2.32	4.98	13.71	6.92	6.81	4
10.40	6.10	4.92	11.98	4.21	3.96	11.62	8.31	7.64	15.18	0.72	2.32	4.98	13.71	6.92	6.81	5
(3)	(3)	(3)	3.99	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	6
1	.....	22	5	3	5	1	.....	1	.....	3	.....	27	.....	1	32	7
12	.....	5,795	2,100	189	450	497	.....	6	.....	294	.....	6,341	.....	40	9,762	8
.....	.....	69	.....	1	11	.....	.....	4	.....	1	.....	123	.....	3	1	9
.....	.....	18,032	.....	10	1,660	.....	410	.....	.....	470	.....	105	.....	87	8	10
.....	1	279	5	5	19	1	7	.....	.....	.....	.....	704	.....	3	10	11
.....	105	66,472	1,725	1,043	3,692	701	515	.....	.....	.....	.....	160,087	.....	145	3,887	12
1	1	154	1.5	6	6	6	3	.....	2	.....	.....	426	.....	3	1	13
20	90	32,156	5,800	1,023	904	431	148	.....	85	.....	.....	92,229	210	40	15,296	14
3	1	54	10	2	6	11	8	.....	6	.....	.....	165	.....	2	4	15
10	1.5	10,353	14,066	45	530	23,641	449	8	376	.....	.....	22,893	130	173	8,596	16
5	3	578	35	17	47	19	22	3	8	4	3	1,445	5	12	101	17
437	1,282	647,532	283,798	9,720	28,620	293,693	12,651	107	6,998	550	258	1,575,371	4,660	3,358	255,566	18
42	210	132,045	23,691	2,310	7,236	25,270	1,522	14	461	764	111	316,510	340	485	37,549	19
10.40	6.10	4.90	11.98	4.21	3.96	11.62	8.31	7.64	15.18	0.72	2.32	4.98	13.71	6.92	6.81	20
.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	21
.....	.....	2,386	.....	.....	.....	.....	.....	.....	.....	.....	.....	163	.....	.....	.....	22
.....	.....	763	.....	.....	.....	.....	.....	.....	.....	.....	.....	62	.....	.....	.....	23
.....	.....	3.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.63	.....	.....	.....	24
.....	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	.....	7,905	.....	.....	55,491	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,320	26
.....	.....	4,581	.....	.....	21,733	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,411	27
.....	.....	1.73	.....	.....	2.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.77	28
.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	6,132	.....	.....	14,715	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,669	30
.....	.....	3,912	.....	.....	9,233	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,411	31
5	3	579	32	17	61	17	22	3	8	4	4	1,449	5	12	101	32
42	210	132,808	12,810	2,310	7,236	3,537	1,522	14	461	764	111	316,572	340	485	35,628	33
5	3	578	32	17	47	12	22	3	8	4	3	1,444	5	12	93	34
42	210	132,808	12,810	2,310	7,236	1,648	1,522	14	461	764	111	316,341	340	485	33,913	35
.....	.....	28	.....	.....	2	.....	.....	.....	.....	.....	.....	45	.....	.....	.....	36
.....	.....	30	.....	.....	3	.....	.....	.....	.....	.....	.....	52	.....	.....	.....	37
.....	.....	2,349	.....	.....	195	.....	.....	.....	.....	25	.....	2,289	.....	.....	1,100	38
5	3	579	32	17	61	12	22	3	8	4	4	1,448	5	12	95	39
42	210	132,808	12,810	2,310	7,236	1,648	1,522	14	461	764	111	316,341	340	485	33,913	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	231	.....	.....	800	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	43
.....	.....	.....	.....	.....	.....	1,889	.....	.....	.....	.....	.....	.....	.....	.....	915	44
5	3	568	32	17	47	17	22	3	8	4	3	1,442	5	12	99	45
42	210	130,720	12,810	2,310	7,236	3,537	1,522	14	461	764	111	316,433	340	485	35,628	46
.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
.....	.....	1,325	.....	.....	.....	.....	.....	.....	.....	.....	.....	77	.....	.....	.....	48
.....	.....	763	.....	.....	.....	.....	.....	.....	.....	.....	.....	62	.....	.....	.....	49
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
.....	.....	1	.....	.....	14	.....	.....	.....	.....	.....	1	4	.....	.....	.....	52
3	3	.....	.....	2	1	6	1	3	1	.....	1	36	.....	.....	.....	53
2	1	8	1	4	1	2	4	.....	2	.....	.....	41	1	3	.....	54
.....	.....	19	.....	3	3	.....	5	.....	2	.....	1	60	.....	8	.....	55
.....	1	60	.....	4	12	.....	5	.....	1	1	1	120	3	1	.....	56
.....	1	204	3	1	18	1	6	.....	1	1	.....	553	1	.....	.....	57
.....	.....	241	20	1	11	4	1	.....	.....	1	.....	524	.....	.....	.....	58
.....	.....	37	6	2	1	4	.....	.....	.....	.....	.....	97	.....	.....	.....	59
.....	.....	6	2	.....	.....	.....	.....	.....	.....	.....	.....	14	.....	.....	.....	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)		Harrison	Hays	Hidalgo	Hockley	Hudspeth	Irion	Jackson	Jeff Davis
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	3	3	355	510	24	18	56	13
2	Cost.....dollars..	205	521	3,027,822	435,048	225,514	4,038	100,970	7,222
3	Area irrigated direct.....acres..	21	29	373,548	70,909	23,420	998	21,929	1,505
4	Cost per acre irrigated direct.....dollars..	9.76	17.97	8.11	6.14	9.63	4.05	4.60	4.80
5	Total cost per irrigated acre.....dollars..	9.76	17.97	8.24	6.14	9.63	4.05	4.63	4.80
6	Total cost per acre-foot of water ².....dollars..	(³)	(³)	4.58	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	1	.....	41	11	.....	2	7	2
8	.....acres irrigated..	8	.....	13,417	2,064	.....	89	1,866	20
9	\$1.00-\$1.99.....enterprises reporting..	.....	1	20	20	1	3	8	.....
10	.....acres irrigated..	.....	6	2,426	3,879	420	332	4,771	.....
11	\$2.00-\$4.99.....enterprises reporting..	.....	.....	68	210	4	3	17	2
12	.....acres irrigated..	.....	.....	49,323	31,271	938	280	8,585	1,172
13	\$5.00-\$9.99.....enterprises reporting..	.....	1	94	184	11	5	11	6
14	.....acres irrigated..	.....	3	219,417	25,052	19,278	200	4,533	296
15	\$10.00 and over.....enterprises reporting..	2	1	132	85	8	5	13	3
16	.....acres irrigated..	13	20	88,965	8,643	2,784	97	2,174	17
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	3	3	325	510	24	18	56	13
18	Cost.....dollars..	205	521	2,989,405	435,048	225,514	4,038	100,552	7,222
19	Area supplied primary irrigation.....acres..	21	29	367,575	70,909	23,420	998	21,829	1,505
20	Cost per acre supplied.....dollars..	9.76	17.97	8.13	6.14	9.63	4.05	4.61	4.80
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	.....	.....	36	.....	.....	.....	1	.....
22	Cost.....dollars..	.....	.....	38,417	.....	.....	.....	418	.....
23	Area supplied supplemental irrigation.....acres..	.....	.....	5,973	.....	.....	.....	100	.....
24	Cost per acre supplied.....dollars..	.....	.....	6.43	.....	.....	.....	4.18	.....
Cost to farms for purposes other than operation and maintenance: ⁴									
25	Enterprises reporting.....enterprises..	.....	.....	12	.....	1	.....	.....	.....
26	Cost.....dollars..	.....	.....	719,330	.....	25,674	.....	.....	.....
27	Area irrigated direct.....acres..	.....	.....	302,291	.....	17,116	.....	.....	.....
28	Cost per acre irrigated.....dollars..	.....	.....	2.38	.....	1.50	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29	Enterprises reporting.....enterprises..	.....	.....	10	.....	.....	.....	.....	.....
30	Amount.....dollars..	.....	.....	351,426	.....	.....	.....	.....	.....
31	Area irrigated direct.....acres..	.....	.....	275,997	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	3	3	341	510	23	16	59	12
33	Area irrigated.....acres..	21	29	64,017	70,909	6,304	716	19,459	337
34	Complete-system enterprises ⁵.....enterprises..	3	3	258	510	23	13	54	12
35	Area irrigated.....acres..	21	29	40,470	70,909	6,304	501	18,859	337
Other farms irrigated:									
36	Enterprises reporting.....number..	.....	.....	29	10	.....	.....	5	.....
37	Number of other farms.....farms..	.....	.....	52	10	.....	.....	6	.....
38	Area irrigated in other farms.....acres..	.....	.....	2,106	384	.....	.....	1,859	.....
Enterprises by origin of water supply: ⁵									
39	No water from other enterprises.....enterprises reporting..	3	3	264	510	23	13	58	12
40	.....acres irrigated..	21	29	41,026	70,909	6,304	501	18,859	337
41	Part of water from other enterprises.....enterprises reporting..	.....	.....	19	.....	.....	1	1	.....
42	.....acres irrigated..	.....	.....	9,791	.....	.....	55	600	.....
43	All of water from other enterprises.....enterprises reporting..	.....	.....	58	.....	.....	2	.....	.....
44	.....acres irrigated..	.....	.....	13,200	.....	.....	160	.....	.....
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	3	3	304	510	23	16	54	12
46	.....acres irrigated..	21	29	57,889	70,909	6,304	716	19,344	337
47	Part primary, part supplemental.....enterprises reporting..	.....	.....	5	.....	.....	.....	1	.....
48	Primary irrigation.....acres irrigated..	.....	.....	255	.....	.....	.....	15	.....
49	Supplemental irrigation.....acres irrigated..	.....	.....	377	.....	.....	.....	100	.....
50	All supplemental.....enterprises reporting..	.....	.....	30	.....	.....	.....	.....	.....
51	.....acres irrigated..	.....	.....	5,496	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵									
52	None.....enterprises reporting..	.....	.....	2	.....	.....	.....	4	.....
53	1-9 acres.....enterprises reporting..	2	2	27	3	.....	2	.....	5
54	10-29 acres.....enterprises reporting..	1	1	61	14	.....	4	.....	3
55	30-59 acres.....enterprises reporting..	.....	.....	72	55	4	6	2	2
56	60-99 acres.....enterprises reporting..	.....	.....	37	113	3	3	2	1
57	100-199 acres.....enterprises reporting..	.....	.....	59	222	3	1	14	1
58	200-499 acres.....enterprises reporting..	.....	.....	55	95	10	.....	27	.....
59	500-999 acres.....enterprises reporting..	.....	.....	21	8	2	.....	5	.....
60	1,000 acres or more.....enterprises reporting..	.....	.....	7	.....	1	.....	5	.....

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

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]

Jefferson	Jim Wells	Jones	Kendall	Kerr	Kimble	Kinney	Kleberg	Lamb	La Salle	Lavaca	Liberty	Lubbock	Lynn	McCulloch	McLennan
56	9	6	3	22	20	4	6	1,027	26	5	28	1,546	182	6	9
438,340	2,310	2,658	335	2,550	2,779	400	1,670	871,131	8,272	12,570	326,169	1,224,186	92,073	458	849
70,122	401	91	15	517	413	390	403	182,345	1,812	1,875	38,249	242,453	18,446	203	260
6.25	5.76	29.21	22.33	4.93	6.73	1.03	4.14	4.78	4.57	6.70	8.53	5.05	4.99	2.26	3.27
6.32	5.76	29.21	22.33	4.93	6.73	1.03	4.14	4.79	4.57	6.70	8.53	5.05	4.99	2.26	3.27
2.04	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	2.84	(3)	(3)	(3)	(3)
6	1	.....	.....	11	2	3	2	38	3	.....	2	67	8	4	1
6,229	80	.....	.....	266	61	345	55	7,657	452	.....	1,180	9,081	715	35	135
8	1	.....	.....	.....	.....	.....	.....	110	4	.....	.....	137	16	.....	.....
11,252	180	39	.....	.....	.....	.....	.....	23,914	439	.....	.....	19,196	1,820	.....	.....
13	.....	.....	.....	1	5	.....	2	459	6	1	4	666	73	2	11
9,898	.....	.....	.....	25	83	.....	328	81,821	544	700	4,716	120,789	8,834	168	67
10	2	2	.....	5	6	1	2	319	7	2	12	496	61	.....	4
39,578	86	35	.....	128	175	45	20	56,926	199	810	21,738	78,396	5,551	.....	48
19	5	2	.....	5	7	.....	.....	101	6	2	10	180	24	.....	2
3,165	55	17	15	98	94	.....	.....	12,027	178	365	10,615	14,991	1,526	.....	10
56	9	6	3	22	20	4	6	1,027	26	5	28	1,546	182	6	9
424,270	2,310	2,658	335	2,550	2,779	400	1,670	869,399	8,272	12,570	326,169	1,224,186	92,073	458	849
69,407	401	91	15	517	413	390	403	181,910	1,812	1,875	38,249	242,453	18,446	203	260
6.11	5.76	29.21	22.33	4.93	6.73	1.03	4.14	4.78	4.57	6.70	8.53	5.05	4.99	2.26	3.27
1	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....
14,070	.....	.....	.....	.....	.....	.....	.....	1,732	.....	.....	.....	.....	.....	.....	.....
715	.....	.....	.....	.....	.....	.....	.....	435	.....	.....	.....	.....	.....	.....	.....
19.68	.....	.....	.....	.....	.....	.....	.....	3.98	.....	.....	.....	.....	.....	.....	.....
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....
153,076	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51,902	.....	.....	.....	.....
36,160	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14,416	.....	.....	.....	.....
4.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.60	.....	.....	.....	.....
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
700	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13,061	.....	.....	.....	.....
1,500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18,546	.....	.....	.....	.....
50	9	6	3	22	20	6	6	1,056	26	5	23	1,558	182	6	9
30,022	401	91	15	517	413	390	403	182,345	1,812	1,875	9,703	242,453	18,446	203	260
38	9	6	3	22	20	4	6	1,019	26	5	19	1,546	182	6	9
28,676	401	91	15	517	413	390	403	181,047	1,812	1,875	8,263	242,453	18,446	203	260
11	.....	.....	.....	.....	.....	1	.....	38	1	1	1	47	.....	.....	1
52	.....	.....	.....	.....	.....	1	.....	41	1	1	1	50	.....	.....	2
11,363	.....	.....	.....	.....	.....	20	.....	2,608	45	260	40	1,939	.....	.....	16
38	9	6	3	22	20	6	6	1,048	26	5	19	1,558	182	6	9
28,676	401	91	15	517	413	390	403	181,047	1,812	1,875	8,263	242,453	18,446	203	260
.....	.....	.....	.....	.....	.....	.....	.....	903	.....	.....	2	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	903	.....	.....	1,300	.....	.....	.....	.....
12	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	2	.....	.....	.....	.....
1,346	.....	.....	.....	.....	.....	.....	.....	395	.....	.....	140	.....	.....	.....	.....
50	9	6	3	22	20	4	6	1,020	26	5	23	1,546	182	6	9
30,022	401	91	15	517	413	390	403	180,950	1,812	1,875	9,703	242,453	18,446	203	260
.....	.....	.....	.....	.....	.....	.....	.....	960	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	435	.....	.....	.....	.....	.....	.....	.....
.....
.....	2	1	3	11	9	2	2	29	6	.....	.....	12	.....	.....	.....
6	3	5	.....	3	6	2	2	12	4	.....	.....	46	2	3	4
5	2	.....	.....	4	3	1	1	21	7	.....	1	147	16	2	3
.....	.....	.....	.....	.....	.....	.....	.....	37	.....	.....	2	112	27	.....	1
4	1	.....	.....	4	2	.....	.....	138	3	.....	.....	223	44	.....	.....
7	1	.....	.....	.....	.....	.....	.....	505	2	.....	3	594	79	1	1
13	.....	.....	.....	.....	.....	1	1	285	4	.....	9	381	12	.....	.....
8	.....	.....	.....	.....	.....	.....	.....	27	.....	.....	2	35	2	.....	.....
7	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	3	8	.....	.....	.....

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)	Martin	Matagorda	Maverick	Menard	Midland	Mills	Moore	Nacog- doches
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
1 Total cost of water to farms:								
2 Enterprises reporting.....enterprises..	50	30	20	22	13	3	5	3
3 Cost.....dollars..	34,844	554,433	334,359	7,919	5,232	900	8,640	30
4 Area irrigated direct.....acres..	5,465	55,110	36,215	2,210	588	172	1,781	66
5 Cost per acre irrigated direct.....dollars..	6.38	10.06	9.23	3.58	8.90	5.23	4.85	0.45
6 Total cost per irrigated acre.....dollars..	6.71	10.06	9.58	4.38	8.90	5.23	4.85	0.45
Total cost per acre-foot of water ².....dollars..	(3)	2.79	(3)	(3)	(3)	(3)	(3)	(3)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	1	7	3		1		1	2
8 acres irrigated..	18	4,040	732		50		80	65
9 \$1.00-\$1.99.....enterprises reporting..	2	1	2	4				
10 acres irrigated..	335	3,400	697	1,497				
11 \$2.00-\$4.99.....enterprises reporting..	14	7	3	5	2	2	1	
12 acres irrigated..	1,707	1,740	1,790	442	181	150	1,360	
13 \$5.00-\$9.99.....enterprises reporting..	21	10	8	3	5		3	
14 acres irrigated..	2,627	2,035	30,685	87	179		341	
15 \$10.00 and over.....enterprises reporting..	12	5	4	10	5	1		1
16 acres irrigated..	778	43,895	2,311	184	178	22		1
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	50	30	18	22	13	3	5	3
18 Cost.....dollars..	33,927	554,433	327,944	7,153	5,232	900	8,640	30
19 Area supplied primary irrigation.....acres..	5,195	55,110	34,915	1,810	588	172	1,781	66
20 Cost per acre supplied.....dollars..	6.53	10.06	9.39	3.95	8.90	5.23	4.85	0.45
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	1		3	1				
22 Cost.....dollars..	917		6,415	766				
23 Area supplied supplemental irrigation.....acres..	270		1,200	400				
24 Cost per acre supplied.....dollars..	3.40		4.93	1.92				
Cost to farms for purposes other than operation and maintenance:⁴								
25 Enterprises reporting.....enterprises..		1	1					
26 Cost.....dollars..		68,970	107,964					
27 Area irrigated direct.....acres..		39,700	27,734					
28 Cost per acre irrigated.....dollars..		1.74	3.89					
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29 Enterprises reporting.....enterprises..		1	1					
30 Amount.....dollars..		2,375	83,300					
31 Area irrigated direct.....acres..		39,700	27,734					
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	50	27	19	25	13	3	5	3
33 Area irrigated.....acres..	5,465	8,510	8,481	928	588	172	1,781	66
34 Complete-system enterprises ⁵.....enterprises..	50	26	11	20	13	3	5	3
35 Area irrigated.....acres..	5,465	8,483	3,861	903	588	172	1,781	66
Other farms irrigated:								
36 Enterprises reporting.....number..	2					1		
37 Number of other farms.....farms..	2					1		
38 Area irrigated in other farms.....acres..	370					60		
Enterprises by origin of water supply:⁵								
39 No water from other enterprises.....enterprises reporting..	50	26	11	24	13	3	5	3
40 acres irrigated..	5,465	8,483	3,861	903	588	172	1,781	66
41 Part of water from other enterprises.....enterprises reporting..			1					
42 acres irrigated..			1,800					
43 All of water from other enterprises.....enterprises reporting..		1	7	1				
44 acres irrigated..		27	2,820	25				
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	49	27	16	21	13	3	5	3
46 acres irrigated..	5,178	8,510	6,681	928	588	172	1,781	66
47 Part primary, part supplemental.....enterprises reporting..	1		1					
48 Primary irrigation.....acres irrigated..	17		500					
49 Supplemental irrigation.....acres irrigated..	270		200					
50 All supplemental.....enterprises reporting..			2					
51 acres irrigated..			1,100					
Enterprises by number of acres irrigated:⁵								
52 None.....enterprises reporting..				4				1
53 1-9 acres.....enterprises reporting..	3			5	4			1
54 10-29 acres.....enterprises reporting..	7	1		4	2	1		1
55 30-59 acres.....enterprises reporting..	6	1	1	6	3	1		1
56 60-99 acres.....enterprises reporting..	14	2	2	2	3		3	
57 100-199 acres.....enterprises reporting..	11	6	3	4	1	1		
58 200-499 acres.....enterprises reporting..	8	15	5					
59 500-999 acres.....enterprises reporting..	1	1	6					
60 1,000 acres or more.....enterprises reporting..		1	2				1	

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

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.]

Nueces	Ochiltree	Orange	Parmer	Pecos	Potter	Presidio	Randall	Reagan	Real	Reeves	Runnels	San Patricio	San Saba	Smith	Starr
4	3	7	200	91	23	86	166	3	12	100	18	4	31	9	92
12,376	575	87,348	257,017	194,225	10,014	53,738	101,377	1,215	1,727	522,813	2,587	93	5,007	575	59,818
3,520	270	8,202	47,752	38,362	2,608	9,602	22,321	81	459	45,628	471	53	1,347	381	8,462
3.52	2.13	10.65	5.38	5.06	3.84	5.60	4.54	15.00	3.76	11.46	5.49	1.75	3.72	1.51	7.07
(3)	(3)	(3)	(3)	5.47	3.84	5.78	4.54	15.00	3.76	11.49	5.49	1.75	3.72	1.51	7.09
				2.38	(3)	1.99	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
.....	.....	2	2	14	2	20	5	.....	5	3	3	2	10	4	34
.....	.....	45	700	9,401	210	3,590	614	.....	160	1,775	30	20	439	265	1,634
2	2	.....	22	3	1	5	14	.....	1	1	4	1	5	1	1
230	225	.....	5,914	5,958	180	126	1,926	.....	40	400	210	30	257	100	530
2	.....	2	86	18	7	17	87	.....	3	7	7	.....	9	1	9
3,290	.....	486	22,447	12,237	1,736	1,031	14,863	.....	140	10,542	91	.....	445	6	2,182
.....	1	.....	68	23	4	19	33	.....	1	22	2	.....	2	1	28
.....	45	.....	13,359	3,821	441	3,321	3,845	.....	63	7,628	19	.....	11	2	3,276
.....	.....	3	22	33	9	25	27	.....	2	67	2	.....	1	2	20
.....	.....	7,671	5,332	6,945	41	1,534	1,073	.....	45	25,283	121	.....	195	8	840
4	3	7	200	74	23	86	166	3	12	99	18	4	31	9	91
12,376	575	87,348	257,017	172,860	10,014	53,488	101,349	1,215	1,727	521,513	2,587	93	5,007	575	58,418
3,520	270	8,202	47,752	35,497	2,608	9,302	22,311	81	459	45,486	471	53	1,347	381	8,432
3.52	2.13	10.65	5.38	4.87	3.84	5.75	4.54	15.00	3.76	11.47	5.49	1.75	3.72	1.51	6.93
.....	.....	.....	.....	21	.....	1	1	.....	.....	1	.....	.....	.....	.....	1
.....	.....	.....	.....	21,365	.....	250	28	.....	.....	1,300	.....	.....	.....	.....	1,400
.....	.....	.....	.....	2,865	.....	300	10	.....	.....	142	.....	.....	.....	.....	30
.....	.....	.....	.....	7.46	.....	0.83	2.80	.....	.....	9.15	.....	.....	.....	.....	46.67
1	.....	2	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
1,800	.....	33,254	.....	10,810	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000
3,250	.....	7,667	.....	12,751	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	532
0.55	.....	4.34	.....	0.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.88
.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,900
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	532
3	3	5	203	97	24	81	166	3	12	102	18	5	32	9	91
270	270	535	47,752	25,611	2,608	6,357	22,321	81	459	35,507	471	53	1,347	381	7,930
3	3	4	200	87	23	78	166	3	12	88	18	4	31	9	90
270	270	531	47,752	25,411	2,608	6,126	22,321	81	459	34,510	471	53	1,347	381	7,915
.....	.....	.....	2	8	.....	10	4	.....	1	.....	.....	.....	.....	.....	2
.....	.....	.....	2	10	.....	22	4	.....	1	.....	.....	.....	.....	.....	3
.....	.....	.....	195	1,191	.....	552	186	.....	9	.....	.....	.....	.....	.....	665
3	3	4	203	96	24	78	166	3	12	92	18	5	32	9	90
270	270	531	47,752	25,411	2,608	6,126	22,321	81	459	34,510	471	53	1,347	381	7,915
.....	.....	.....	1	.....	.....	3	.....	.....	.....	4	.....	.....	.....	.....	.....
.....	.....	.....	200	.....	.....	231	.....	.....	.....	596	.....	.....	.....	.....	.....
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	1
.....	.....	.....	4	.....	.....	.....	.....	.....	.....	401	.....	.....	.....	.....	15
3	3	5	200	68	23	81	165	3	12	97	18	4	31	9	90
270	270	535	47,752	22,364	2,608	6,357	22,186	81	459	35,365	471	53	1,347	381	7,900
.....	.....	.....	.....	3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	690	.....	.....	125	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	603	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	17	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
.....	.....	.....	.....	1,954	.....	.....	.....	.....	.....	142	.....	.....	.....	.....	30
.....	.....	.....	3	9	1	.....	.....	.....	.....	4	.....	1	.....	.....	.....
.....	.....	.....	1	3	2	.....	9	7	2	3	8	2	10	6	14
.....	.....	.....	2	8	2	31	9	1	2	5	7	9	9	1	26
2	1	1	3	7	1	19	20	2	5	6	1	1	5	.....	30
.....	1	.....	5	9	1	8	27	.....	3	4	.....	.....	4	.....	5
.....	1	.....	82	28	5	6	64	.....	.....	19	2	.....	1	.....	4
.....	.....	1	90	22	5	6	36	.....	.....	35	.....	.....	2	.....	9
.....	.....	.....	15	9	1	2	3	.....	.....	20	.....	.....	.....	.....	2
.....	.....	.....	2	3	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	1

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Swisher	Tarrant	Taylor	Terrell	Terry	Tom Greene	Travis
ALL ENTERPRISES							
Cost of water to farms, 1949: ¹							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	682	13	10	3	55	173	15
2 Cost.....dollars..	665,675	1,610	454	2,000	38,005	43,563	5,047
3 Area irrigated direct.....acres..	152,630	186	680	204	6,526	8,902	1,621
4 Cost per acre irrigated direct.....dollars..	4.36	8.66	0.67	9.80	5.82	4.89	3.11
5 Total cost per irrigated acre.....dollars..	4.37	8.66	0.67	9.80	5.82	4.92	3.11
6 Total cost per acre-foot of water ².....dollars..	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	17		4		3	22	2
8 .....acres irrigated..	3,036		618		148	1,521	82
9 \$1.00-\$1.99.....enterprises reporting..	92	4		2	5	14	3
10 .....acres irrigated..	22,762	78		182	752	1,388	1,115
11 \$2.00-\$4.99.....enterprises reporting..	321		2		24	52	2
12 .....acres irrigated..	80,537	5	40		3,389	2,884	180
13 \$5.00-\$9.99.....enterprises reporting..	191				10	46	2
14 .....acres irrigated..	38,979	19			1,260	2,139	111
15 \$10.00 and over.....enterprises reporting..	51	5	4	1	13	39	6
16 .....acres irrigated..	7,716	84	22	22	977	970	133
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	682	13	10	3	55	172	15
18 Cost.....dollars..	663,373	1,610	454	2,000	38,005	43,433	5,047
19 Area supplied primary irrigation.....acres..	152,450	186	680	204	6,526	8,855	1,621
20 Cost per acre supplied.....dollars..	4.35	8.66	0.67	9.80	5.82	4.90	3.11
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	2					1	
22 Cost.....dollars..	2,302					130	
23 Area supplied supplemental irrigation.....acres..	180					47	
24 Cost per acre supplied.....dollars..	12.79					2.77	
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..	690	14	10	3	62	178	15
33 Area irrigated.....acres..	152,630	186	680	204	6,526	8,745	1,621
34 Complete-system enterprises ⁵.....enterprises..	682	13	10	3	55	164	15
35 Area irrigated.....acres..	152,630	186	680	204	6,526	8,216	1,621
Other farms irrigated:							
36 Enterprises reporting.....number..	29			1	3	2	
37 Number of other farms.....farms..	29			1	4	3	
38 Area irrigated in other farms.....acres..	2,306			130	164	87	
Enterprises by origin of water supply: ⁵							
39 No water from other enterprises.....enterprises reporting..	690	14	10	3	62	171	15
40 .....acres irrigated..	152,630	186	680	204	6,526	8,216	1,621
41 Part of water from other enterprises.....enterprises reporting..						2	
42 .....acres irrigated..						253	
43 All of water from other enterprises.....enterprises reporting..						5	
44 .....acres irrigated..						276	
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	680	13	10	3	55	170	15
46 .....acres irrigated..	152,153	186	680	204	6,526	8,698	1,621
47 Part primary, part supplemental.....enterprises reporting..	2						
48 Primary irrigation.....acres irrigated..	297						
49 Supplemental irrigation.....acres irrigated..	180						
50 All supplemental.....enterprises reporting..						1	
51 .....acres irrigated..						47	
Enterprises by number of acres irrigated: ⁵							
52 None.....enterprises reporting..	8	1			7	7	
53 1-9 acres.....enterprises reporting..	1	5	6		1	30	4
54 10-29 acres.....enterprises reporting..	14	7	3	1	5	36	2
55 30-59 acres.....enterprises reporting..	30	1		1	5	48	4
56 60-99 acres.....enterprises reporting..	84				11	30	2
57 100-199 acres.....enterprises reporting..	250			1	24	23	2
58 200-499 acres.....enterprises reporting..	240				9	4	
59 500-999 acres.....enterprises reporting..	55		1				
60 1,000 acres or more.....enterprises reporting..	7						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 intercountry and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

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.]

Uvalde	Val Verde	Victoria	Waller	Ward	Webb	Wharton	Wilbarger	Willacy	Williamson	Wilson	Yoakum	Zapata	Zavala	All other counties
69	7	4	26	34	56	102	5	16	5	8	32	70	162	69
36,423	5,800	8,567	87,615	146,688	114,833	466,034	519	208,928	1,172	3,398	19,403	104,643	308,017	290,418
8,580	1,840	980	11,785	17,066	8,630	57,432	44	33,481	240	565	4,341	7,404	47,036	34,948
4.25	3.15	8.74	7.43	8.60	13.31	8.11	11.80	6.24	4.88	6.01	4.47	14.13	6.55	8.31
(3)	(3)	(3)	(3)	12.20	13.31	8.28	(3)	(3)	(3)	(3)	(3)	(3)	6.60	8.31
				6.10	(3)	2.30							5.08	(3)
12	2	1	4	3	6	10		8		1	6	1	9	4
2,723	323	20	1,710	1,790	777	4,517		2,238		40	559	17	2,014	137
4	1			2		7		1		1	6		6	7
195	500			173		10,559		200		80	43		4,675	447
23	1		2	7	3	11	1	4	2	2	14	2	43	15
3,282	870		1,000	2,570	1,045	3,531	8	873	105	292	2,476	423	18,406	2,626
20	2	2	13	8	10	32		2		1	4	8	46	24
2,168	102	660	6,780	6,494	1,937	10,318		29,970		35	530	2,464	13,661	17,054
10	1	1	7	14	37	42	4	1	2	2	2	59	58	19
212	45	300	2,295	6,039	4,871	28,507	36	200	55	155	206	4,500	8,283	14,704
68	7	4	26	16	56	99	5	15	5	8	32	70	161	69
35,923	5,800	8,567	87,615	113,835	114,833	461,411	519	208,928	1,172	3,398	19,403	104,643	306,378	290,418
8,400	1,840	980	11,785	12,024	8,630	56,277	44	32,822	240	565	4,341	7,404	46,701	34,948
4.28	3.15	8.74	7.43	9.47	13.31	8.20	11.80	6.37	4.88	6.01	4.47	14.13	6.56	8.31
1				20		3		1					3	
500				32,853		4,623		0					1,839	
180				5,042		1,155		659					335	
2.78				6.52		4.00		0.00					5.49	
				2		1		1					1	5
				18,912		3,630		56,580					165	93,304
				9,160		2,000		29,655					52	29,406
				2.06		1.82		1.91					3.17	3.17
				1		1		1					2	4
				5,094		125		348					508	86,663
				5,167		2,000		29,655					110	28,981
70	6	4	26	32	56	94	5	15	5	8	32	71	163	65
8,580	970	980	11,785	6,651	8,630	35,204	44	3,826	240	565	4,341	7,404	46,637	5,542
69	6	4	26	30	56	93	5	6	5	8	32	70	153	64
8,580	970	980	11,785	6,576	8,630	34,650	44	1,075	240	565	4,341	7,404	41,228	5,542
	1		1		4	6		2				15	6	1
	1		1		17	6		3				23	6	2
	8		375		926	1,547		200				444	612	40
70	6	4	26	31	56	93	5	6	5	8	32	71	158	65
8,580	970	980	11,785	6,576	8,630	34,650	44	1,075	240	565	4,341	7,404	41,228	5,542
				1		1		1					4	4
				75		554		315					4,849	
								8					1	1
								2,436					560	44
68	6	4	26	11	56	92	5	14	5	8	32	70	155	64
8,400	970	980	11,785	1,467	8,630	34,849	44	3,167	240	565	4,341	7,404	45,718	5,542
				2									2	47
				142									584	48
				83									120	49
				18		2		1					1	50
180				4,959		355		659					215	51
1				1								1	5	1
7	1			1	8				1	1		10	8	13
16	1	1		2	7		4				1	22	17	23
12	1			4	7	6		5	2	4	4	14	20	11
7				4	6	8		1	2		10	5	22	6
12				11	12	19		2		3	14	4	28	7
11	2	3	13	6	12	41		2			2	12	32	1
2	1		10	2	3	14		3			1	2	20	2
2			1	1	1	6		2				1	11	1

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	Bexar	Brazoria	Cameron	Chambers	Colorado	El Paso ¹	Fort Bend	Hidalgo
MULTIPLE-FARM ENTERPRISES, 1950									
Multiple-farm enterprises, total number ².....enterprises..	122	23	4	20	4	4	1	4	16
Area irrigated direct.....acres..	1,842,714	5,681	68,562	176,956	58,770	31,564	67,079	10,881	369,531
Multiple-purpose enterprises ².....enterprises..	15	3	2	3	1	1	1	2	3
Area irrigated direct.....acres..	210,421	.....	20,452	29,536	.....	.....	67,079	4,581	16,892
Complete-system enterprises ².....enterprises..	78	29	3	9	3	4	.....	4	6
Area irrigated direct.....acres..	693,652	5,681	54,662	133,255	50,770	31,564	.....	10,881	172,420
Enterprises by origin of water supply:²									
No water from other enterprises.....enterprises reporting..	96	23	4	13	4	3	1	4	7
acres irrigated.....	891,561	5,681	68,562	164,143	58,770	17,064	67,079	10,881	246,450
Part of water from other enterprises.....enterprises reporting..	9	.....	1	.....	.....	.....	.....	.....	4
acres irrigated.....	98,047	.....	.....	1,500	.....	14,500	.....	.....	39,841
All water from other enterprises.....enterprises reporting..	17	.....	.....	6	.....	.....	.....	.....	5
acres irrigated.....	53,127	.....	.....	11,327	.....	.....	.....	.....	23,249
Enterprises by delivery of irrigation water:²									
No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	1
Water delivered direct to farms only.....enterprises reporting..	65	12	.....	5	.....	.....	.....	.....	1
acres irrigated.....	195,027	4,230	.....	2,556	.....	15,275	.....	6,300	1,155
Water delivered to farms and to other enterprises.....enterprises reporting..	52	1	4	14	4	1	1	3	15
acres irrigated.....	346,987	365	68,562	128,542	58,770	14,299	67,079	4,581	303,376
Water delivered to other enterprises only.....enterprises reporting..	5	.....	.....	1	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:³									
All primary.....enterprises reporting..	13	22	4	16	4	4	1	3	15
acres irrigated.....	959,685	5,481	68,562	119,466	58,770	31,564	67,079	10,881	293,531
Part primary, part supplemental.....enterprises reporting..	2	1	.....	2	.....	.....	.....	.....	1
acres irrigated.....	57,263	27	.....	84,684	.....	.....	.....	.....	15,900
Supplemental irrigation.....enterprises reporting..	4,966	143	.....	3,881	.....	.....	.....	.....	100
acres irrigated.....	830	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²									
None.....enterprises reporting..	5	.....	.....	1	.....	.....	.....	.....	.....
1-3.....enterprises reporting..	23	16	.....	1	.....	.....	.....	.....	1
4-9.....enterprises reporting..	31	13	.....	4	.....	.....	.....	.....	2
10-29.....enterprises reporting..	21	2	1	4	1	.....	.....	.....	2
30-99.....enterprises reporting..	21	.....	2	3	2	2	.....	2	4
100-299.....enterprises reporting..	16	1	.....	3	1	.....	.....	.....	2
300-999.....enterprises reporting..	.....	.....	.....	4	.....	.....	.....	.....	5
1,000 or more.....enterprises reporting..	3	.....	.....	1	.....	.....	1	.....	2
Enterprises by acres irrigated direct:²									
None.....enterprises reporting..	5	.....	.....	1	.....	.....	.....	.....	.....
1-99 acres.....enterprises reporting..	16	15	.....	1	.....	.....	.....	.....	.....
100-999 acres.....enterprises reporting..	35	12	.....	4	.....	2	.....	.....	2
1,000-2,999 acres.....enterprises reporting..	15	1	.....	3	.....	.....	.....	.....	1
3,000-9,999 acres.....enterprises reporting..	21	1	1	4	.....	.....	.....	1	2
10,000-29,999 acres.....enterprises reporting..	17	.....	2	3	2	2	.....	2	4
30,000 acres or more.....enterprises reporting..	13	.....	1	4	2	.....	1	1	5
Quantities of water reported, 1949:									
Total obtained from all sources ¹.....enterprises reporting..	112	23	4	19	4	4	1	4	15
percent of all enterprises reporting..	1	23	7	7	11	11	12	11	4
acres-foot.....	4,541,891	37,362	318,217	658,631	391,265	159,542	923,600	208,774	379,397
Surface sources.....enterprises reporting..	78	12	4	13	4	4	1	4	11
acres-foot.....	4,266,663	30,321	318,217	627,935	391,265	157,495	923,600	208,774	322,824
Pumped wells.....enterprises reporting..	23	11	.....	.....	.....	.....	.....	.....	.....
acres-foot.....	36,552	7,140	.....	.....	.....	.....	.....	.....	.....
Other enterprises.....enterprises reporting..	23	.....	.....	.....	.....	.....	.....	.....	.....
acres-foot.....	243,175	.....	.....	28,928	.....	.....	.....	.....	56,569
Conveyance loss ¹.....enterprises reporting..	100	23	4	18	4	4	1	4	15
acres-foot.....	346,288	6,460	21,021	151,181	41,633	9,930	332,160	19,890	179,662
Delivered:⁴									
Direct to farms.....enterprises reporting..	107	23	4	13	4	4	1	4	15
acres-foot.....	2,277,914	26,345	188,596	437,232	321,234	147,612	464,360	182,064	597,789
To other enterprises.....enterprises reporting..	42	1	4	14	4	1	1	3	14
acres-foot.....	227,997	100	8,200	49,034	23,346	2,100	117,360	6,200	88,452
For use other than irrigation.....enterprises reporting..	23	.....	.....	.....	.....	.....	.....	.....	7
acres-foot.....	74,029	2,309	.....	15,318	.....	.....	10,140	.....	13,484
Delivered direct to farms for primary irrigation:¹									
Enterprises reporting.....enterprises..	106	23	4	17	4	4	1	3	15
Quantity delivered.....acres-foot..	2,306,675	23,881	113,277	222,502	165,862	167,747	204,000	31,348	552,819
Area supplied primary irrigation.....acres..	1,289,959	5,938	68,562	172,264	98,770	31,564	67,079	10,881	368,718
Quantity supplied per acre.....acres-foot..	2.3	4.3	1.9	1.3	2.8	3.2	3.0	3.0	1.8
Delivered direct to farms for supplemental irrigation:¹									
Enterprises reporting.....enterprises..	9	1	.....	2	.....	.....	.....	.....	1
Quantity delivered.....acres-foot..	11,000	294	.....	3,656	.....	.....	.....	.....	238
Area supplied supplemental irrigation.....acres..	5,700	143	.....	3,831	.....	.....	.....	.....	100
Quantity supplied per acre.....acres-foot..	1.9	2.0	.....	1.2	.....	.....	.....	.....	2.4
Total quantity per irrigated acre ⁵.....acres-foot..	2.3	4.3	1.9	1.3	2.8	3.2	3.0	3.0	2.8
Cost of water to farms for enterprises reporting quantity delivered, 1949:¹									
Cost for primary irrigation.....dollars..	2,269,158	11,634	779,193	1,266,959	523,220	423,559	465,000	183,171	2,497,356
Average cost per acre-foot.....dollars..	3.86	0.49	6.93	5.69	3.17	3.93	2.28	5.48	4.52
Cost for supplemental irrigation.....dollars..	35,262	0	.....	13,670	.....	.....	.....	.....	1,635
Average cost per acre-foot.....dollars..	3.23	0.00	.....	3.74	.....	.....	.....	.....	6.87
Measurement of water to farms, 1949:³									
No water measured.....enterprises reporting..	97	22	4	18	3	4	.....	4	15
acres irrigated.....	873,719	5,451	68,562	172,819	35,672	31,564	.....	10,881	274,590
Part of water measured.....enterprises reporting..	4	.....	.....	.....	.....	.....	.....	.....	1
acres irrigated.....	114,135	.....	.....	.....	.....	.....	.....	.....	.....
All water measured.....enterprises reporting..	7	.....	.....	.....	.....	.....	67,079	.....	34,939
acres irrigated.....	20,449	.....	.....	.....	.....	.....	.....	.....	.....

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

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)	Jefferson	Liberty	Mata-gorda	Pecos	Presidio	Reeves	Ward	Wharton	Zavala	All other counties
MULTIPLE-FARM ENTERPRISES, 1950										
1 Multiple-farm enterprises, total number ².....enterprises..	6	5	3	3	5	4	3	5	5	31
2 Area irrigated direct.....acres..	40,100	28,546	46,600	12,751	3,245	10,121	10,415	22,228	399	147,291
3 Multiple-purpose enterprises ².....enterprises..	.....	.....	.....	.....	.....	1	.....	.....	.....	8
4 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....	71,281
5 Complete-system enterprises ².....enterprises..	3	2	3	1	4	1	.....	2	4	24
6 Area irrigated direct.....acres..	3,935	14,930	46,600	5,628	2,945	8,653	.....	22,228	399	128,801
Enterprises by origin of water supply:²										
7 No water from other enterprises.....enterprises reporting..	5	4	3	1	5	2	.....	7	5	28
8 acres irrigated.....	35,100	24,930	46,600	5,628	3,245	.....	.....	12,426	399	128,582
9 Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	1	1	1	.....	2
10 acres irrigated.....	.....	.....	.....	.....	.....	8,953	5,167	9,802	.....	18,284
11 All water from other enterprises.....enterprises reporting..	1	1	.....	2	.....	1	2	.....	.....	1
12 acres irrigated.....	1,000	3,616	.....	7,123	.....	1,168	5,248	.....	.....	425
Enterprises by delivery of irrigation water:²										
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	3	1	3	2	4	1	2	7	4	13
15 acres irrigated.....	4,328	3,616	46,600	9,628	2,945	8,953	6,422	19,433	399	57,774
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3	4	.....	1	1	1	1	1	.....	16
17 acres irrigated.....	35,665	24,930	.....	3,723	300	1,168	3,993	3,795	.....	89,517
18 Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....	.....	.....	2	.....	.....	1	2
Enterprises by primary and supplemental irrigation:³										
19 All primary.....enterprises reporting..	5	5	3	2	4	2	3	7	4	25
20 acres irrigated.....	39,655	28,546	46,600	7,123	2,445	10,121	10,415	21,428	399	146,609
21 Part primary, part supplemental.....enterprises reporting..	1	.....	.....	1	1	.....	.....	.....	.....	1
22 Primary irrigation.....acres irrigated.....	320	.....	.....	5,320	100	.....	.....	.....	.....	822
23 Supplemental irrigation.....acres irrigated.....	715	.....	.....	303	200	.....	.....	.....	.....	400
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
25 acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	800	.....	.....
Enterprises by number of farms irrigated direct:²										
26 None.....enterprises reporting..	.....	.....	.....	.....	.....	2	.....	.....	1	2
27 1-3.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	4	6
28 4-9.....enterprises reporting..	4	2	.....	.....	3	.....	.....	.....	.....	6
29 10-29.....enterprises reporting..	1	1	2	1	2	1	2	1	.....	7
30 30-99.....enterprises reporting..	1	1	.....	2	.....	1	1	2	.....	5
31 100-299.....enterprises reporting..	1	1	1	.....	.....	.....	.....	1	.....	1
32 300-999.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
33 1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Enterprises by acres irrigated direct:²										
34 None.....enterprises reporting..	.....	.....	.....	.....	.....	2	.....	.....	1	2
35 1-99 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1	2	2
36 100-999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	2	2	6
37 1,000-2,999 acres.....enterprises reporting..	3	.....	.....	3	1	1	1	1	.....	3
38 3,000-9,999 acres.....enterprises reporting..	1	2	2	3	.....	.....	2	1	.....	3
39 10,000-29,999 acres.....enterprises reporting..	1	1	.....	.....	.....	1	.....	2	.....	10
40 30,000 acres or more.....enterprises reporting..	2	2	1	.....	.....	.....	.....	1	.....	3
Quantities of water reported, 1949:⁴										
41 Total obtained from all sources.....enterprises reporting..	6	5	3	3	4	3	3	8	5	24
42 percent of all enterprises reporting..	11	12	10	3	5	3	3	8	3	3
43 acre-feet.....	364,420	336,153	210,032	41,408	9,734	67,143	29,300	363,259	14,643	2,456,455
44 Surface sources.....enterprises reporting..	3	4	3	1	4	2	.....	4	3	27
45 acre-feet.....	290,572	266,305	210,032	25,580	9,734	63,292	.....	356,477	14,449	2,300,390
46 Pumped wells.....enterprises reporting..	.....	.....	.....	.....	.....	.....	1	.....	.....	3
47 acre-feet.....	.....	.....	.....	.....	.....	.....	7,526	11,738	190	1,008
48 Other enterprises.....enterprises reporting..	1	1	.....	2	.....	.....	1	3	.....	7
49 acre-feet.....	13,843	10,842	.....	15,828	.....	2,296	21,643	.....	.....	113,427
50 Conveyance loss ⁴.....enterprises reporting..	6	3	3	3	4	3	3	8	4	12
51 acre-feet.....	24,500	17,073	12,950	1,493	1,140	13,159	3,600	22,221	145	191,311
Delivered:⁴										
52 Direct to farms.....enterprises reporting..	6	5	3	3	4	1	1	6	4	22
53 acre-feet.....	265,351	318,187	197,082	39,919	8,628	1,500	20,714	342,034	500	2,213,350
54 To other enterprises.....enterprises reporting..	3	4	.....	1	.....	3	1	1	1	1
55 acre-feet.....	18,569	24,931	.....	5,100	.....	52,469	.....	2,000	14,000	46,000
56 For use other than irrigation.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	1	9
57 acre-feet.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1,075,721
Delivered direct to farms for primary irrigation:³										
58 Enterprises reporting.....enterprises..	6	5	3	3	4	1	3	7	4	19
59 Quantity delivered.....acre-feet..	121,319	141,597	159,737	24,933	7,273	1,500	20,714	76,326	502	393,096
60 Area supplied primary irrigation.....acres..	30,325	24,546	46,600	10,443	2,645	1,168	10,415	21,428	309	142,314
61 Quantity supplied per acre.....acre-feet..	3.1	3.0	3.6	2.0	2.8	1.3	2.0	3.5	1.5	2.7
Delivered direct to farms for supplemental irrigation:³										
62 Enterprises reporting.....enterprises..	1	.....	.....	1	1	.....	.....	1	.....	1
63 Quantity delivered.....acre-feet..	1,073	.....	.....	1,136	1,350	.....	.....	2,400	.....	1,000
64 Area supplied supplemental irrigation.....acres..	715	.....	.....	303	200	.....	.....	800	.....	400
65 Quantity supplied per acre.....acre-feet..	1.5	.....	.....	3.4	4.5	.....	.....	3.0	.....	2.5
66 Total quantity per irrigated acre ⁵.....acre-feet..	3.1	3.0	3.6	2.3	2.9	1.3	2.0	3.6	1.3	2.7
Cost of water to farms for enterprises reporting quantity delivered, 1949:³										
67 Cost for primary irrigation.....dollars..	334,091	239,237	233,850	41,564	7,901	5,000	99,620	284,674	4,335	1,271,246
68 Average cost per acre-foot.....dollars..	2.75	2.83	3.09	1.62	1.09	3.33	4.81	2.96	8.66	3.35
69 Cost for supplemental irrigation.....dollars..	14,070	.....	.....	911	250	.....	.....	4,000	.....	700
70 Average cost per acre-foot.....dollars..	13.12	.....	.....	1.28	0.19	.....	.....	1.67	.....	0.77
Measurement of water to farms, 1949:³										
71 No water measured.....enterprises reporting..	5	4	3	.....	3	2	.....	8	5	23
72 acres irrigated.....	39,360	21,546	46,600	.....	1,145	8,953	.....	22,228	399	147,747
73 Part of water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
74 acres irrigated.....	.....	.....	7,000	.....	.....	.....	5,167	.....	.....	.....
75 All water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
76 acres irrigated.....	.....	.....	.....	12,751	.....	1,168	5,248	.....	.....	1,282

¹Data for less than 3 enterprises shown with permission of the enterprise. 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.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Anderson	Armstrong	Atascosa	Austin	Bailey	Bandera	Baylor
1 Irrigated land, 1949.....acres..	3,150,527	17	1,088	4,060	1,200	50,212	91	144
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2 All basins.....acres..	3,197,806	17	1,088	4,101	1,200	50,282	91	144
3 Gulf of Mexico excluding Mississippi River (V).....acres..	2,750,092	17		4,101	1,200	50,282	91	144
4 Excluding Rio Grande (V-A).....acres..	1,854,543	17		4,101	1,200	50,282	91	144
5 Gulf of Mexico direct (1a).....acres..	91,632							
6 Nueces River (2).....acres..	90,880			4,060				
7 Guadalupe River (3).....acres..	27,389			41			91	
8 Lavaca River (4).....acres..	57,215							
9 Colorado River.....acres..	154,275							
10 Colorado River direct (5a, b).....acres..	141,979							
11 Concho River (5c).....acres..	12,296							
12 Brazos River.....acres..	1,235,973				1,200	50,282		144
13 Brazos River direct (6a, b).....acres..	721,404				1,200	50,282		144
14 Salt Fork (6c).....acres..	514,569							
15 San Jacinto River (7).....acres..	44,543							
16 Trinity River (8).....acres..	86,633	17						
17 Sabine River.....acres..	66,003							
18 Sabine River direct (9a).....acres..	8,182							
19 Neches River (9b).....acres..	57,821							
20 Rio Grande below Fort Quitman (V-B).....acres..	808,717							
21 Rio Grande direct (1a, b, c).....acres..	704,809							
22 Pecos River.....acres..	103,908							
23 Pecos River direct (2a, b).....acres..	75,536							
24 Comanche Creek (2c).....acres..	10,025							
25 Toyah Creek (2f).....acres..	18,347							
26 Rio Grande direct above Fort Quitman (V-C-1a).....acres..	86,832							
27 Mississippi River (VI).....acres..	447,714		1,088					
28 Excluding Arkansas River (Red River) (VI-A).....acres..	436,039		1,088					
29 Red River direct (2a).....acres..	13,212							
30 Pease River (2b).....acres..	88,143							
31 North and Salt Forks (2c).....acres..	272							
32 Prairie Dog Town Fork.....acres..	334,412		1,088					
33 Prairie Dog Town Fork direct (2d).....acres..	164,094							
34 Tierra Blanca Creek (2e).....acres..	170,318			1,088				
35 Arkansas River (Canadian River) (VI-B-2a).....acres..	11,675							

Item (For definitions and explanations, see text)	Dallam	Dallas	Dawson	Deaf Smith	Dickens	Dinmit	Donley	El Paso
1 Irrigated land, 1949.....acres..	5,072	439	363	96,247	28	21,218	207	69,595
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2 All basins.....acres..	5,072	439	363	96,247	28	21,218	207	69,595
3 Gulf of Mexico excluding Mississippi River (V).....acres..		439	363		3	21,218		69,595
4 Excluding Rio Grande (V-A).....acres..		439	363		3	21,218		
5 Gulf of Mexico direct (1a).....acres..								
6 Nueces River (2).....acres..						21,218		
7 Guadalupe River (3).....acres..								
8 Lavaca River (4).....acres..								
9 Colorado River.....acres..			363					
10 Colorado River direct (5a, b).....acres..			363					
11 Concho River (5c).....acres..								
12 Brazos River.....acres..					3			
13 Brazos River direct (6a, b).....acres..								
14 Salt Fork (6c).....acres..					3			
15 San Jacinto River (7).....acres..								
16 Trinity River (8).....acres..		439						
17 Sabine River.....acres..								
18 Sabine River direct (9a).....acres..								
19 Neches River (9b).....acres..								
20 Rio Grande below Fort Quitman (V-B).....acres..								
21 Rio Grande direct (1a, b, c).....acres..								
22 Pecos River.....acres..								
23 Pecos River direct (2a, b).....acres..								
24 Comanche Creek (2c).....acres..								
25 Toyah Creek (2f).....acres..								
26 Rio Grande direct above Fort Quitman (V-C-1a).....acres..								69,595
27 Mississippi River (VI).....acres..	5,072			96,247	25		207	
28 Excluding Arkansas River (Red River) (VI-A).....acres..				96,247	25		207	
29 Red River direct (2a).....acres..								
30 Pease River (2b).....acres..					25			
31 North and Salt Forks (2c).....acres..							207	
32 Prairie Dog Town Fork.....acres..				96,247				
33 Prairie Dog Town Fork direct (2d).....acres..								
34 Tierra Blanca Creek (2e).....acres..				96,247				
35 Arkansas River (Canadian River) (VI-B-2a).....acres..	5,072							

See footnote at end of County Table 3.

COUNTIES IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950

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

Bexar	Brazoria	Brewster	Briscoe	Brooks	Brown	Cameron	Castro	Chambers	Cherokee	Cochran	Coleman	Colorado	Crockett	Crosby	Culberson	
9,114	77,655	298	14,851	444	2,128	213,189	131,765	68,725	209	6,590	123	40,548	700	57,424	1,760	1
9,257	79,533	298	14,851	452	2,138	216,899	132,010	84,925	212	6,590	123	41,268	700	58,158	1,760	2
9,257	79,533	298	.....	452	2,138	216,899	57,053	84,925	212	6,590	123	41,268	700	58,158	1,760	3
9,257	79,533	.....	.....	452	2,138	.....	57,053	84,925	212	6,590	123	41,268	.....	58,158	.....	4
.....	21,437	.....	.....	452	.....	.....	.....	24,822	.....	.....	.....	2,970	.....	.....	.....	5
9,257	6
.....	7
.....	3,607	.....	.....	.....	8
.....	2,138	.....	.....	.....	.....	.....	430	123	34,691	.....	.....	9
.....	2,138	.....	.....	.....	.....	.....	430	123	34,691	.....	.....	10
.....	11
.....	58,096	.....	.....	.....	.....	.....	57,053	.....	.....	6,160	.....	.....	.....	58,158	.....	12
.....	58,096	.....	.....	.....	.....	.....	.....	.....	.....	6,160	.....	.....	.....	29,528	.....	13
.....	57,053	.....	.....	.....	.....	.....	.....	28,630	.....	14
.....	52,103	.....	.....	.....	.....	.....	.....	.....	15
.....	8,000	212	.....	.....	.....	.....	.....	.....	16
.....	17
.....	8,000	212	.....	.....	.....	.....	.....	.....	18
.....	19
.....	298	.....	.....	.....	216,899	.....	.....	.....	.....	.....	.....	.....	700	1,760	20
.....	298	.....	.....	.....	216,899	.....	.....	.....	.....	.....	.....	.....	.....	1,760	21
.....	700	.....	22
.....	700	.....	23
.....	24
.....	25
.....	26
.....	14,851	.....	.....	.....	74,957	.....	.....	.....	.....	.....	.....	.....	.....	27
.....	14,851	.....	.....	.....	74,957	.....	.....	.....	.....	.....	.....	.....	.....	28
.....	2,197	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	30
.....	31
.....	12,654	.....	.....	.....	74,957	.....	.....	.....	.....	.....	.....	.....	.....	32
.....	12,654	.....	.....	.....	43,232	.....	.....	.....	.....	.....	.....	.....	.....	33
.....	31,725	.....	.....	.....	.....	.....	.....	.....	.....	34
.....	35

Falls	Fisher	Floyd	Fort Bend	Frio	Gaines	Galveston	Garza	Gillespie	Glasscock	Gonzales	Guadalupe	Hale	Hansford	Hardeman	Harris	
42	210	132,045	23,691	2,310	7,236	25,270	1,522	14	461	764	111	316,510	340	485	37,549	1
42	210	132,808	23,691	2,310	7,236	25,270	1,522	14	461	764	111	316,572	340	485	37,549	2
42	210	81,715	23,691	2,310	7,236	25,270	1,522	14	461	764	111	282,212	.....	.....	37,549	3
42	210	81,715	23,691	2,310	7,236	25,270	1,522	14	461	764	111	282,212	.....	.....	37,549	4
.....	1,730	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
.....	2,310	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
.....	7
.....	764	111	.....	.....	.....	.....	8
.....	9
.....	7,236	.....	.....	14	461	.....	.....	.....	.....	.....	.....	10
.....	7,236	.....	.....	14	461	.....	.....	.....	.....	.....	.....	11
42	210	81,715	19,381	.....	.....	23,540	1,522	.....	.....	.....	.....	282,212	.....	.....	.....	12
42	210	.....	19,381	.....	.....	23,540	1,522	.....	.....	.....	.....	47,920	.....	.....	.....	13
.....	81,715	.....	.....	.....	.....	.....	.....	.....	.....	.....	234,292	.....	.....	.....	14
.....	4,310	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36,138	15
.....	1,411	16
.....	17
.....	18
.....	19
.....	20
.....	21
.....	22
.....	23
.....	24
.....	25
.....	26
.....	51,093	.....	.....	.....	.....	.....	.....	.....	.....	.....	34,360	340	485	.....	27
.....	51,093	.....	.....	.....	.....	.....	.....	.....	.....	.....	34,360	.....	485	.....	28
.....	29
.....	51,093	.....	.....	.....	.....	.....	.....	.....	.....	.....	34,360	.....	.....	.....	30
.....	31
.....	485	32
.....	485	33
.....	34
.....	35

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Harrison	Hays	Hidalgo	Hockley	Hudspeth	Irion	Jackson	Jeff Davis
1	Irrigated land, 1949.....acres..	21	29	367,575	70,909	23,420	998	21,829	1,505
	Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2	All basins.....acres..	21	29	373,548	70,909	23,420	998	21,929	1,505
3	Gulf of Mexico excluding Mississippi River (V).....acres..	21	29	373,548	70,909	23,420	998	21,929	1,505
4	Excluding Rio Grande (V-A).....acres..	21	29		70,909		998	21,929	
5	Gulf of Mexico direct (1a).....acres..								
6	Nueces River (2).....acres..								
7	Guadalupe River (3).....acres..		29						
8	Lavaca River (4).....acres..							21,929	
9	Colorado River.....acres..						998		
10	Colorado River direct (5a, b).....acres..								
11	Concho River (5c).....acres..						998		
12	Brazos River.....acres..				70,909				
13	Brazos River direct (6a, b).....acres..				70,909				
14	Salt Fork (6c).....acres..								
15	San Jacinto River (7).....acres..								
16	Trinity River (8).....acres..								
17	Sabine River.....acres..	21							
18	Sabine River direct (9a).....acres..	21							
19	Neches River (9b).....acres..								
20	Rio Grande below Fort Quitman (V-B).....acres..			373,548		6,183			1,505
21	Rio Grande direct (1a, b, c).....acres..			373,548		6,183			182
22	Pecos River.....acres..								1,323
23	Pecos River direct (2a, b).....acres..								15
24	Comanche Creek (2c).....acres..								
25	Toyah Creek (2f).....acres..								1,308
26	Rio Grande direct above Fort Quitman (V-C-1a).....acres..					17,237			
27	Mississippi River (VI).....acres..								
28	Excluding Arkansas River (Red River) (VI-A).....acres..								
29	Red River direct (2a).....acres..								
30	Pease River (2b).....acres..								
31	North and Salt Forks (2c).....acres..								
32	Prairie Dog Town Fork.....acres..								
33	Prairie Dog Town Fork direct (2d).....acres..								
34	Tierra Blanca Creek (2e).....acres..								
35	Arkansas River (Canadian River) (VI-B-2a).....acres..								

Item (For definitions and explanations, see text)		Martin	Matagorda	Maverick	Menard	Midland	Mills	Moore	Nacogdoches
1	Irrigated land, 1949.....acres..	5,195	55,116	34,915	1,810	586	172	1,781	66
	Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2	All basins.....acres..	5,465	55,116	38,015	2,210	588	172	1,781	66
3	Gulf of Mexico excluding Mississippi River (V).....acres..	5,465	55,116	38,015	2,210	588	172		66
4	Excluding Rio Grande (V-A).....acres..	5,465	55,116	1,800	2,210	588	172		66
5	Gulf of Mexico direct (1a).....acres..		6,869						
6	Nueces River (2).....acres..			1,800					
7	Guadalupe River (3).....acres..								
8	Lavaca River (4).....acres..								
9	Colorado River.....acres..	5,465	48,241		2,210	588	172		
10	Colorado River direct (5a, b).....acres..	5,465	48,241		2,210	588	172		
11	Concho River (5c).....acres..								
12	Brazos River.....acres..								
13	Brazos River direct (6a, b).....acres..								
14	Salt Fork (6c).....acres..								
15	San Jacinto River (7).....acres..								
16	Trinity River (8).....acres..								
17	Sabine River.....acres..								66
18	Sabine River direct (9a).....acres..								
19	Neches River (9b).....acres..								66
20	Rio Grande below Fort Quitman (V-B).....acres..			36,215					
21	Rio Grande direct (1a, b, c).....acres..			36,215					
22	Pecos River.....acres..								
23	Pecos River direct (2a, b).....acres..								
24	Comanche Creek (2c).....acres..								
25	Toyah Creek (2f).....acres..								
26	Rio Grande direct above Fort Quitman (V-C-1a).....acres..								
27	Mississippi River (VI).....acres..							1,781	
28	Excluding Arkansas River (Red River) (VI-A).....acres..								
29	Red River direct (2a).....acres..								
30	Pease River (2b).....acres..								
31	North and Salt Forks (2c).....acres..								
32	Prairie Dog Town Fork.....acres..								
33	Prairie Dog Town Fork direct (2d).....acres..								
34	Tierra Blanca Creek (2e).....acres..								
35	Arkansas River (Canadian River) (VI-B-2a).....acres..							1,781	

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

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

Item (For definitions and explanations, see text)		Swisher	Tarrant	Taylor	Terrell	Terry	Tom Green	Travis
1	Irrigated land, 1949.....acres..	152,450	186	680	204	6,526	8,855	1,621
	Area irrigated direct, by drainage basin origin of water, 1949: ¹							
2	All basins.....acres..	152,630	186	680	204	6,526	8,902	1,621
3	Gulf of Mexico excluding Mississippi River (V).....acres..	42,012	186	680	204	6,526	8,902	1,621
4	Excluding Rio Grande (V-A).....acres..	42,012	186	680		6,526	8,902	1,621
5	Gulf of Mexico direct (1a).....acres..							
6	Nueces River (2).....acres..							
7	Guadalupe River (3).....acres..							
8	Lavaca River (4).....acres..							
9	Colorado River.....acres..							
10	Colorado River direct (5a, b).....acres..					6,198	8,902	1,621
11	Concho River (5c).....acres..					6,198		1,621
12	Brazos River.....acres..	42,012		680		328	8,902	
13	Brazos River direct (6a, b).....acres..			680		328		
14	Salt Fork (6c).....acres..	42,012						
15	San Jacinto River (7).....acres..							
16	Trinity River (8).....acres..		186					
17	Sabine River.....acres..							
18	Sabine River direct (9a).....acres..							
19	Neches River (9b).....acres..							
20	Rio Grande below Fort Quitman (V-B).....acres..				204			
21	Rio Grande direct (1a, b, c).....acres..							
22	Pecos River.....acres..				204			
23	Pecos River direct (2a, b).....acres..				204			
24	Comanche Creek (2e).....acres..							
25	Toyah Creek (2f).....acres..							
26	Rio Grande direct above Fort Quitman (V-C-1a).....acres..							
27	Mississippi River (VI).....acres..	110,618						
28	Excluding Arkansas River (Red River) (VI-A).....acres..	110,618						
29	Red River direct (2a).....acres..							
30	Pease River (2b).....acres..	117						
31	North and Salt Forks (2c).....acres..							
32	Prairie Dog Town Fork.....acres..	110,501						
33	Prairie Dog Town Fork direct (2d).....acres..	107,593						
34	Tierra Blanca Creek (2e).....acres..	2,908						
35	Arkansas River (Canadian River) (VI-B-2a).....acres..							

¹Acres irrigated direct by 2 or more irrigation enterprises is counted for each enterprise; acres 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.

COUNTIES IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950—Continued

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

Uvalde	Val Verde	Victoria	Waller	Ward	Webb	Wharton	Wilbarger	Willacy	Williamson	Wilson	Yoakum	Zapata	Zavala	All other counties	
8,400	1,840	980	11,785	12,024	8,630	56,277	44	32,822	240	565	4,341	7,404	46,701	34,948	1
8,580	1,840	980	11,785	17,066	8,630	57,986	44	33,481	240	565	4,341	7,404	47,036	34,948	2
8,580	1,840	900	11,785	17,066	8,630	57,986		33,481	240	565	4,341	7,404	47,036	20,984	3
8,580		980	11,785		85	57,986			240	565	4,341		47,036	20,559	4
						4,439								150	5
8,580					85								47,036		6
										565				15,999	7
		980				28,824									8
						24,723					4,341			2,845	9
						24,723					4,341			530	10
														2,315	11
			7,690						240					432	12
			7,690						240					367	13
														65	14
			4,095												15
														1,129	16
														4	17
														4	18
															19
	1,840			17,066	8,545			33,481				7,404		425	20
	1,840			17,066	8,545			33,481				7,404			21
				17,066										425	22
				17,066										425	23
															24
															25
															26
							44							13,964	27
							44							13,714	28
														13,212	29
							44							307	30
														65	31
														130	32
														130	33
															34
														250	35

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 Mexico excluding Mississippi River, total (V)	Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)				
			Total	Gulf of Mexico direct (1a)	Nueces River (2)	Guadalupe River (3)	Lavaca River (4)
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	11,502	9,416	8,131	224	568	136	143
2 1940..	4,040	3,223	2,571	(*)	589	(*)	(*)
3 Interbasin.....enterprises 1950..	55	49	46	13	3	1	3
4 Farms irrigated direct per enterprise ¹.....farms 1950..	2.0	2.2	1.2	3.8	1.3	1.9	1.3
5 Irrigated land ².....acres 1949..	3,150,527	2,703,283	1,828,193	281,113	90,638	11,464	60,077
6 1939..	1,045,224	915,826	453,099	76,792	49,082	34,197	5,718
7 Average per enterprise.....acres 1949..	274	287	225	1,255	160	84	429
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	276	290	226	1,255	160	85	431
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	11,380	9,295	8,064	209	559	113	137
10 acres irrigated..	2,134,459	1,699,778	1,472,259	67,657	85,386	5,719	51,793
Mutual:							
11 Unincorporated.....enterprises..	34	34	28		3	20	
12 acres irrigated..	15,072	15,072	11,227		289	2,110	
13 Incorporated.....enterprises..	11	11	8	1	1	1	2
14 acres irrigated..	38,013	38,013	34,925	(³)	(³)	(³)	(³)
15 Commercial.....enterprises..	27	27	24	14	1		4
16 acres irrigated..	329,072	329,072	304,500	207,604	(³)		3,490
17 District.....enterprises..	45	44	5		4	1	
18 acres irrigated..	590,529	577,496	8,488		5,433	(³)	
19 U. S. Bureau of Reclamation ⁴.....enterprises..	2	2					
20 acres irrigated..	67,079	67,079					
21 U. S. Bureau of Indian Affairs.....enterprises..							
22 acres irrigated..							
23 State.....enterprises..							
24 acres irrigated..							
25 City.....enterprises..	3	3	2			1	
26 acres irrigated..	2,949	2,949	(³)			(³)	
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
27 Gravity only.....enterprises reporting..	210	208	133	7	43	30	1
28 acres irrigated..	175,160	162,087	22,071	2,730	3,815	6,095	3,000
29 Pumped only.....enterprises reporting..	1,229	1,220	522	118	68	32	7
30 acres irrigated..	1,022,202	1,021,706	427,687	260,471	12,862	1,368	5,100
31 Gravity and pumped.....enterprises reporting..	74	73	25	3	1	4	
32 acres irrigated..	22,414	32,399	2,689	845	40	405	
33 Ground water only (pumped from wells).....enterprises reporting..	9,824	7,752	7,349	90	419	59	125
34 acres irrigated..	1,859,758	1,425,868	1,340,175	16,218	51,341	3,446	44,860
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	165	163	102	6	37	11	15
36 acres irrigated..	87,639	87,399	41,726	897	23,095	293	8,722
Stored water:							
37 None stored.....enterprises reporting..	11,018	8,936	7,849	185	450	104	141
38 acres irrigated..	2,464,870	2,030,246	1,698,644	208,208	66,832	4,794	59,537
39 Part stored.....enterprises reporting..	187	186	120	21	51	22	1
40 acres irrigated..	485,628	485,613	115,081	70,670	13,590	4,812	2,525
41 All stored.....enterprises reporting..	297	294	162	18	67	10	1
42 acres irrigated..	226,745	213,600	20,623	2,283	10,731	2,001	23
Sources of surface water, 1949:⁵							
43 Streams (and lakes).....enterprises reporting..	1,432	1,420	610	111	101	45	17
44 acres irrigated..	1,274,715	1,261,081	475,691	262,302	36,107	3,408	16,422
45 Springs.....enterprises reporting..	67	67	50		8	6	
46 acres irrigated..	22,795	22,795	1,544		173	47	
47 Flowing wells.....enterprises reporting..	107	106	95	5	42	31	1
48 acres irrigated..	11,553	11,423	7,506	90	3,680	2,274	450
49 Drainage water.....enterprises reporting..	96	96	32	19			
50 acres irrigated..	84,983	84,983	6,156	3,616			
51 Sewage.....enterprises reporting..	18	17	16	2		2	
52 acres irrigated..	5,298	5,238	5,205	260		2,499	
53 Other sources.....enterprises reporting..	1	1					
54 acres irrigated..	112	112					
Drainage of irrigated land:⁶							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	446	439	260	56	6	9	28
56 Area supplied primary irrigation.....acres 1949..	922,967	909,160	276,421	140,390	4,427	1,024	13,983
57 Area artificially drained.....acres 1949..	710,930	706,250	257,003	135,860	3,405	933	13,779
58 1939..	397,227	397,227	61,308	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	321	295	145	40	14	9	10
60 Area supplied primary irrigation.....acres 1949..	910,751	890,413	289,502	167,626	4,132	1,251	8,794
61 Area in need of drainage.....acres 1949..	522,215	513,140	234,542	137,791	538	363	5,465
62 1939..	106,837	106,657	40,387	(*)			(*)

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)	Rio Grande below Fort Quitman (V-B)						
	Total	Rio Grande direct			Pecos River		
		Total	Below Rio Grande City (1a)	Rio Grande City to Del Rio (1b)	Del Rio to Fort Quitman (1c)	Total	Pecos River direct below vicinity Grand Falls (2a)
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	1,275	1,018	742	153	123	257	52
2 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3 Interbasin.....enterprises 1950..	4	2		2		2	
4 Farms irrigated direct per enterprise ¹.....farms 1950..	7.9	9.4	12.0	2.9	1.6	2.1	3.4
5 Irrigated land ².....acres 1949..	788,258	692,599	621,459	52,551	18,589	95,659	21,821
6 1939..	389,715	327,514	287,134	25,440	14,940	62,201	5,787
7 Average per enterprise.....acres 1949..	618	680	838	343	151	372	420
8 Average acreage irrigated direct per enterprise.....acres 1949..	634	692	852	352	154	404	451
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	1,223	977	709	150	118	246	49
10 acres irrigated..	224,882	156,054	115,695	24,715	15,644	68,828	10,693
Mutual:							
11 Unincorporated.....enterprises..	6	6	1		5		
12 acres irrigated..	3,845	3,845	(³)		3,245		
13 Incorporated.....enterprises..	3	3	1	2			
14 acres irrigated..	3,088	3,088	(³)	(³)			
Commercial:							
15 District.....enterprises..	3	3	3				
16 acres irrigated..	24,572	24,572	24,572				
17 State.....enterprises..	38	28	27	1		10	3
18 acres irrigated..	551,892	517,012	489,278	(³)		34,880	12,751
19 U. S. Bureau of Reclamation ⁴.....enterprises..	1					1	
20 acres irrigated..							
21 U. S. Bureau of Indian Affairs.....enterprises..							
22 acres irrigated..							
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, 1948:							
Surface water:							
27 Gravity only.....enterprises reporting..	74	51	4	10	37	23	6
28 acres irrigated..	72,937	35,732	505	30,355	4,872	37,205	15,933
29 Pumped only.....enterprises reporting..	697	693	534	129	30	4	
30 acres irrigated..	593,973	593,541	570,721	17,823	4,997	432	
31 Gravity and pumped.....enterprises reporting..	48	46	42	1	3	2	1
32 acres irrigated..	29,710	29,575	28,660	700	215	135	60
33 Ground water only (pumped from wells).....enterprises reporting..	395	180	128	9	43	215	45
34 acres irrigated..	83,102	25,752	16,571	1,230	7,951	57,350	7,451
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	61	48	34	4	10	13	
36 acres irrigated..	28,557	19,971	15,374	3,743	854	8,586	
Stored water:							
37 None stored.....enterprises reporting..	1,080	862	615	129	118	218	46
38 acres irrigated..	329,375	261,260	194,852	47,578	18,830	68,115	15,787
39 Part stored.....enterprises reporting..	64	53	44	9		11	3
40 acres irrigated..	353,006	335,452	330,953	4,499		17,554	474
41 All stored.....enterprises reporting..	131	103	83	15	5	28	3
42 acres irrigated..	125,898	107,859	106,026	1,774	59	18,039	7,183
Sources of surface water, 1949:⁵							
43 Streams (and lakes).....enterprises reporting..	808	779	562	141	76	29	5
44 acres irrigated..	701,149	665,748	603,378	51,496	10,874	35,401	10,305
45 Springs.....enterprises reporting..	17	5		1	4	12	3
46 acres irrigated..	21,251	921		870	51	20,330	5,810
47 Flowing wells.....enterprises reporting..	11	4	3		1	7	1
48 acres irrigated..	3,917	511	493		18	3,406	60
49 Drainage water.....enterprises reporting..	63	62	60	2		1	
50 acres irrigated..	61,711	61,711	61,456	255			
51 Sewage.....enterprises reporting..	1					1	
52 acres irrigated..	33					33	
53 Other sources.....enterprises reporting..	1	1	1				
54 acres irrigated..	112	112	112				
Drainage of irrigated land:⁶							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	177	111	109	2		66	1
56 Area supplied primary irrigation.....acres 1949..	548,544	511,571	483,827	27,744		36,973	5,320
57 Area artificially drained.....acres 1949..	365,052	333,334	331,824	1,510		31,718	640
58 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	148	143	128	9	6	5	
60 Area supplied primary irrigation.....acres 1949..	533,786	532,719	500,224	29,906	2,589	1,067	
61 Area in need of drainage.....acres 1949..	278,498	275,504	275,504	1,747	807	440	
62 acres 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)

* Not available. ¹ Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise. ² Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries. ³ Data for less than 3 enterprises not shown separately. ⁴ Data for less than 3 enterprises shown with permission of the enterprise. ⁵ Enterprises reporting water from more than 1 source are counted for each. ⁶ For 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	Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)						
		Gulf of Mexico excluding Mississippi River, total (V)	Total	Gulf of Mexico direct (1a)	Nueces River (2)	Guadalupe River (3)	Lavaca River (4)	
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	345	331	214	13	32	19	7
2	dams 1950..	438	415	260	17	32	23	21
3	1940..	244	240	167	(*)	26	(*)	(*)
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	106	106	90	1	25	10	.....
5	Timber.....dams 1950..	6	6	4	.....	.....	.....	.....
6	Earth and rock.....dams 1950..	304	281	155	15	6	13	21
7	Other, mixed, and not reported.....dams 1950..	22	22	11	1	1	.....	.....
8	Reservoirs.....enterprises reporting 1950..	421	420	284	35	118	31	2
9	reservoirs 1950..	566	551	375	44	164	35	2
10	1940..	542	498	385	(*)	227	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	508	491	342	37	160	35	2
12	total capacity, acre-feet 1950..	1,402,883	731,253	333,841	33,458	16,432	261,883	47
13	1940..	1,405,024	723,314	319,063	(*)	21,872	(*)	(*)
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..	384	372	279	10	151	33	2
15	100-999 acre-feet.....reservoirs 1950..	96	96	56	25	6	.....	.....
16	1,000 acre-feet and over.....reservoirs 1950..	28	26	10	2	3	2	.....
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..	36	36	24	8	9	1	.....
18	Earth and rock.....dams 1950..	501	486	330	32	153	32	2
19	Other, mixed, and not reported.....dams 1950..	29	29	21	4	2	2	.....
20	Canals and ditches.....enterprises reporting 1950..	1,682	1,464	1,072	108	47	48	109
21	total length, miles 1950..	10,092	9,235	5,097	1,753	198	243	374
22	1940..	5,936	5,624	2,216	(*)	68	(*)	(*)
23	Pipelines and siphons.....enterprises reporting 1950..	465	463	213	17	32	30	3
24	total length, miles 1950..	1,168	1,166	136	21	15	18	1
25	1940..	923	911	169	(*)	22	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	5	5	4	.....	.....	.....	.....
27	total length, feet 1950..	1,239	1,239	1,169	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	107	106	95	5	42	31	1
29	wells 1950..	152	150	131	5	58	39	3
30	1940..	100	99	74	(*)	37	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	9,977	7,905	7,440	96	458	70	135
32	wells 1950..	15,070	11,838	10,932	139	734	97	240
33	1940..	3,396	2,492	2,278	(*)	499	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	14,206	11,139	10,312	105	698	84	196
35	Average pumping lift.....feet 1949..	125	124	127	69	115	66	87
36	1939..	82	(*)	(*)	(*)	67	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	11,248	9,167	7,980	211	524	106	142
38	pumps 1950..	17,815	14,588	12,032	398	936	147	288
39	1940..	4,754	3,815	2,977	(*)	690	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	2,034	1,474	1,272	56	225	42	10
41	electric motors 1950..	3,238	2,437	1,900	84	407	57	19
42	1940..	834	650	482	(*)	131	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	9,769	8,077	7,037	165	368	67	130
44	other motors and engines 1950..	14,620	12,140	10,179	311	531	86	268
45	1940..	3,840	3,090	2,449	(*)	549	(*)	(*)
Season of irrigation, 1949:								
46	Water delivered only before July 1.....enterprises reporting..	326	298	183	5	31	10	1
47	acres irrigated..	27,281	23,141	13,165	225	1,055	504	40
48	Water delivered before and after July 1.....enterprises reporting..	9,616	8,049	6,942	194	453	112	131
49	acres irrigated..	2,919,540	2,548,812	1,675,094	272,591	77,369	10,123	55,669
50	Water delivered only after July 1.....enterprises reporting..	1,191	753	723	11	67	5	1
51	acres irrigated..	169,186	100,072	97,098	796	6,893	528	700
Capital Investment:								
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	66,441,376	59,777,954	18,693,934	(*)	2,434,960	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53	Enterprises reporting.....enterprises 1950..	9,511	7,737	6,883	139	373	85	91
54	Amount.....dollars 1950..	78,003,937	66,964,625	50,961,937	3,943,901	2,410,980	526,833	1,596,322
55	Area irrigated direct.....acres 1949..	2,715,018	2,333,531	1,549,023	209,685	53,085	5,066	38,101
56	Total capital investment Jan. 1, 1950.....dollars 1950..	144,445,313	126,742,579	69,655,871	(*)	4,845,940	(*)	(*)
Indebtedness:								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57	Enterprises reporting.....enterprises 1950..	54	53	15	7	3	1	1
58	Amount.....dollars 1950..	30,832,875	29,332,875	7,727,112	3,867,919	748,300	171,700	45,000
59	1940..	36,041,388	32,495,700	4,684,725	(*)	317,120	(*)	(*)
60	Area irrigated direct.....acres 1949..	865,447	852,414	204,830	115,907	5,323	1,052	2,025
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
61	Enterprises reporting.....enterprises 1950..	1	1	1	.....	.....	.....	.....
62	Amount.....dollars 1950..	3,752	3,752	3,752	.....	.....	.....	.....
63	Area irrigated direct.....acres 1949..	7,217	7,217	7,217	.....	.....	.....	.....

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

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

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

Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)—Continued												
Colorado River				Brazos River				San Jacinto River	Trinity River	Sabine River		
Total	Colorado River direct below Austin (5a)	Colorado River direct above Austin (5b)	Concho River (5c)	Total	Brazos River direct below Waco (6a)	Brazos River direct above Waco (6b)	Salt Fork (6c)			Total	Sabine River direct (9a)	Neches River (9b)
80		23	45	25	6	19						
91		28	47	30	8	22		5	3	32		30
41	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
43	1	7	35	5		5				6		6
42	15	20	7	1		1		2		1		1
6		1	5	24	8	16		3	3	28	3	25
32	5	24	3	20	10	8	2	9	17	20	1	19
45	5	37	3	26	11	13	2	9	21	27	1	28
57	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
37	5	39	2	25	11	13	1	4	19	26		26
5,675	4,182	1,354	139	1,136	440	691	5	246	1,664	13,300		13,300
8,299	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
31	1	28	2	22	10	11	1	3	12	15		15
4	3	1		3	1	2		1	7	10		10
2	1	1								1		1
3			3	1	1					2		2
36	5	31		21	9	11	1	7	21	26	1	25
6		6		4	1	2		1		1		1
143	38	70	35	569	23	303	243	17	20	26	5	21
582	416	119	47	1,425	171	621	633	176	166	180	126	54
664	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	117	(*)
50	3	40	7	29	6	21	2	3	16	33	1	32
43	1	38	4	17	2	14	1	2	7	12	(2)	12
38	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(2)	(*)
1	1			1	1					2	1	1
225	225			600	600					344	60	284
10	1	9		4		3	1			2		2
14	1	9		10		7	3			2		2
9	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)		(*)
432	54	258	120	6,094	45	3,845	2,212	103	45	10	4	6
586	68	341	177	8,911	79	5,526	3,306	149	63	13	5	8
270	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	4	(*)
522	59	305	158	8,548	70	5,270	3,208	100	47	12	4	8
97	106	103	84	133	91	126	145	124	87	38	62	26
63	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
606	67	340	199	6,139	61	3,872	2,214	117	74	75	9	66
843	113	462	268	8,994	120	5,568	3,306	170	134	122	16	106
545	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	8	(*)
153	18	40	95	683	36	314	333	77	19	13	2	11
247	53	59	135	925	69	400	456	106	39	16	3	13
90	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)		(*)
465	52	303	110	5,675	34	3,636	2,013	48	61	66	8	58
601	70	401	130	8,116	52	5,180	2,884	70	92	104	13	91
417	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	8	(*)
31	2	25	4	86		62	24			19		19
1,763	45	1,628	90	9,504		5,422	4,082			74		74
482	63	265	154	5,372	58	3,424	1,898	169	60	47	7	40
108,466	2,037	28,361	8,138	1,040,514	28,939	556,687	454,888	42,216	33,692	34,444	8,169	26,275
79	4	35	40	537	3	279	255	3	6	14	3	11
4,033	204	1,893	1,936	83,591	122	35,292	48,177	53	82	422	13	409
2,738,613	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	631,622	(*)
407	36	271	100	5,616	40	3,521	2,063	71	49	66	7	59
2,422,456	735,299	1,482,188	204,959	36,532,531	1,378,213	22,914,358	12,239,960	1,301,175	1,683,412	542,327	26,975	515,352
81,021	51,577	25,065	4,379	1,074,843	23,419	592,751	478,473	29,185	33,054	25,183	950	24,233
5,161,069	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	658,597	(*)
3	2	1		1	1			1	1	3	1	2
531,365	281,365	250,000		5,649	5,649			8,210	73,894	2,275,075	369,675	1,905,400
688,162	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	483,750	(*)
36,036	34,033	2,003		3,912	3,912			1,411	12,472	26,692	7,217	19,475
										1	1	
										3,752	3,752	
										7,217	7,217	

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)	Rio Grande below Fort Quitman (V-B)						
	Total	Rio Grande direct			Pecos River		
		Total	Below Rio Grande City (1a)	Rio Grande City to Del Rio (1b)	Del Rio to Fort Quitman (1c)	Total	Pecos River direct below vicinity Grand Falls (2a)
ALL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..	115	88	34	12	42	27	5
2 Dams 1950..	153	106	38	16	52	47	16
3 Dams 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..	14	5	1	1	3	9	3
5 Timber.....dams 1950..	2	.....	.....	.....	.....	2	.....
6 Earth and rock.....dams 1950..	126	98	37	13	48	28	13
7 Other, mixed, and not reported.....dams 1950..	11	3	.....	2	.....	8	.....
8 Reservoirs.....enterprises reporting 1950..	134	104	77	23	4	30	5
9 Reservoirs 1950..	173	136	98	34	4	37	5
10 Reservoirs 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	146	117	80	33	4	29	5
12 total capacity, acre-feet 1950..	395,831	65,104	63,910	1,162	32	330,727	10,044
13 Reservoirs 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Reservoirs by capacity:							
14 1-99 acre-feet.....reservoirs 1950..	92	67	35	28	4	25	4
15 100-999 acre-feet.....reservoirs 1950..	38	37	32	5	.....	1	.....
16 1,000 acre-feet and over.....reservoirs 1950..	16	13	13	.....	.....	3	1
Reservoir dams by material:							
17 Concrete or masonry.....dams 1950..	12	9	6	2	1	3	1
18 Earth and rock.....dams 1950..	154	121	87	31	3	33	4
19 Other, mixed, and not reported.....dams 1950..	7	6	5	1	.....	1	.....
20 Canals and ditches.....enterprises reporting 1950..	386	287	189	46	52	99	7
21 total length, miles 1950..	3,808	2,796	2,542	139	115	1,012	258
22 Canals and ditches 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
23 Pipelines and siphons ¹.....enterprises reporting 1950..	248	237	141	91	5	11	2
24 total length, miles 1950..	1,029	1,022	975	45	.....	7	.....
25 Pipelines and siphons 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	1	1	.....	.....	1	.....	.....
27 total length, feet 1950..	70	70	.....	.....	70	.....	.....
28 Flowing wells.....enterprises reporting 1950..	11	4	3	.....	1	7	1
29 wells 1950..	19	7	6	.....	1	12	1
30 wells 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	457	231	165	12	54	226	45
32 wells 1950..	892	354	244	23	87	538	82
33 wells 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	816	298	195	22	81	518	81
35 Average pumping lift.....feet 1949..	90	65	58	77	80	102	83
36 Average pumping lift 1939..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	1,178	944	718	141	85	234	46
38 pumps 1950..	2,526	1,987	1,599	240	148	539	80
39 pumps 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	202	147	96	36	15	55	7
41 electric motors 1950..	536	401	320	61	20	135	13
42 electric motors 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
43 Other motors and engines used for pumping.....enterprises reporting 1950..	1,031	844	655	115	74	187	36
44 other motors and engines 1950..	1,932	1,535	1,225	184	126	397	67
45 other motors and engines 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Season of irrigation, 1949:							
46 Water delivered only before July 1.....enterprises reporting..	115	108	95	7	6	7	1
47 acres irrigated..	9,976	9,091	7,779	1,013	299	885	39
48 Water delivered before and after July 1.....enterprises reporting..	1,097	872	629	130	113	225	39
49 acres irrigated..	786,886	691,508	622,680	90,768	18,060	95,378	20,284
50 Water delivered only after July 1.....enterprises reporting..	30	27	13	11	3	3	3
51 acres irrigated..	2,974	2,844	1,380	1,049	415	130	130
Capital investment:							
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
53 Enterprises reporting.....enterprises 1950..	847	629	441	113	75	218	48
54 Amount.....dollars 1950..	15,354,470	10,919,006	8,982,688	1,339,465	596,853	4,435,464	632,185
55 Area irrigated direct.....acres 1949..	700,143	629,265	571,373	43,730	14,162	70,878	14,803
56 Total capital investment Jan. 1, 1950.....dollars 1950..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Indebtedness:³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
57 Enterprises reporting.....enterprises 1950..	36	30	28	2	.....	6	2
58 Amount.....dollars 1950..	19,464,763	17,115,000	13,749,000	3,366,000	.....	2,349,763	592,500
59 Amount.....dollars 1940..	(*)	(*)	(*)	(*)	(*)	(*)	(*)
60 Area irrigated direct.....acres 1949..	563,389	533,589	505,323	28,266	.....	29,800	9,351
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.
¹ Pipelines in farm-distribution systems were included in 1940, not included in 1950.
² Less than 0.5.
³ Not 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

[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 Mexico excluding Mississippi River, total (V)	Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)				
			Total	Gulf of Mexico direct (1a)	Nueces River (2)	Guadalupe River (3)	Lavaca River (4)
ALL ENTERPRISES							
Cost of water to farms, 1949:¹							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	11,330	9,277	8,017	223	559	133	
2 Cost.....dollars..	20,792,425	18,757,014	11,710,552	2,673,353	679,316	40,046	
3 Area irrigated direct.....acres..	3,177,173	2,729,459	1,834,348	281,161	91,153	11,607	
4 Cost per acre irrigated direct.....dollars..	6.54	6.87	6.38	9.51	7.45	3.45	
5 Total cost per acre irrigated.....dollars..	6.60	6.94	6.41	9.51	7.49	3.49	
6 Total cost per acre-foot of water ².....dollars..	2.87	3.02	2.21	3.66	7.49	0.83	
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	770	674	502	23	93	43	
8 acres irrigated..	153,858	132,100	88,972	11,045	9,183	5,469	
9 \$1.00-\$1.99.....enterprises reporting..	1,044	756	692	20	28	10	
10 acres irrigated..	260,399	186,855	169,345	14,396	9,107	863	
11 \$2.00-\$4.99.....enterprises reporting..	4,285	3,366	3,149	39	105	22	
12 acres irrigated..	992,998	783,414	659,209	18,761	32,006	1,986	
13 \$5.00-\$9.99.....enterprises reporting..	3,150	2,623	2,303	56	123	19	
14 acres irrigated..	1,177,348	1,058,494	534,055	93,040	23,621	2,512	
15 \$10.00 and over.....enterprises reporting..	2,081	1,858	1,371	85	210	39	
16 acres irrigated..	592,570	568,596	382,767	143,919	17,236	777	
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	11,238	9,186	8,007	221	558	133	
18 Cost.....dollars..	20,631,163	18,598,638	11,672,874	2,672,573	676,977	40,046	
19 Area supplied primary irrigation.....acres..	3,150,527	2,703,283	1,828,193	281,113	90,638	11,464	
20 Cost per acre supplied.....dollars..	6.55	6.88	6.38	9.51	7.47	3.49	
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	146	140	41	2	3	1	
22 Cost.....dollars..	161,262	158,376	37,678	780	2,339	0	
23 Area supplied supplemental irrigation.....acres..	26,646	26,176	6,155	48	515	143	
24 Cost per acre supplied.....dollars..	6.05	6.05	6.12	16.25	4.54	0.00	
Cost to farms for purposes other than operation and maintenance:⁴							
25 Enterprises reporting.....enterprises..	53	52	16	8	3	1	
26 Cost.....dollars..	2,073,630	2,051,959	650,887	389,183	6,915	2,550	
27 Area irrigated direct.....acres..	862,227	849,194	209,787	127,721	5,375	1,052	
28 Cost per acre irrigated.....dollars..	2.40	2.42	3.10	3.05	1.29	2.42	
Arrearage in payments by farms, Jan. 1, 1950:⁴							
29 Enterprises reporting.....enterprises..	38	37	12	7	3	1	
30 Amount.....dollars..	951,832	914,832	240,043	113,856	37,591	18,808	
31 Area irrigated direct.....acres..	708,794	695,761	192,640	141,402	2,183	1,052	
SINGLE-FARM ENTERPRISES, 1950							
32 Single-farm enterprises.....enterprises..	11,380	9,295	8,064	209	559	113	
33 Area irrigated.....acres..	2,134,459	1,699,778	1,472,259	67,657	85,386	5,719	
34 Complete-system enterprises ⁵.....enterprises..	10,951	8,899	7,876	185	541	109	
35 Area irrigated.....acres..	2,068,687	1,634,006	1,449,330	59,660	76,480	5,704	
Other farms irrigated:							
36 Enterprises reporting.....number..	406	346	258	15	22	3	
37 Number of other farms.....farms..	563	499	335	56	30	3	
38 Area irrigated in other farms.....acres..	44,908	40,955	32,700	12,586	1,400	79	
Enterprises by origin of water supply:⁵							
39 No water from other enterprises.....enterprises reporting..	11,122	9,037	7,988	186	548	112	
40 acres irrigated..	2,069,243	1,634,562	1,449,330	59,660	76,480	5,704	
41 Part of water from other enterprises.....enterprises reporting..	73	73	26	4	7	1	
42 acres irrigated..	28,914	28,914	13,419	1,769	7,955	600	
43 All of water from other enterprises.....enterprises reporting..	185	185	50	19	4	1	
44 acres irrigated..	36,302	36,302	9,510	6,228	951	15	
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	11,076	9,030	7,915	206	549	110	
46 acres irrigated..	2,108,139	1,674,398	1,464,830	67,609	84,287	5,719	
47 Part primary, part supplemental.....enterprises reporting..	46	41	28	2	2	1	
48 Primary irrigation.....acres irrigated..	5,440	4,970	3,332	584	584	15	
49 Supplemental irrigation.....acres irrigated..	3,337	3,087	1,798	120	120	100	
50 All supplemental.....enterprises reporting..	91	90	9	2	1	3	
51 acres irrigated..	17,543	17,323	2,299	48	395	775	
Enterprises by number of acres irrigated:⁵							
52 None.....enterprises reporting..	167	134	112	1	7	3	
53 1-9 acres.....enterprises reporting..	570	533	441	24	80	35	
54 10-29 acres.....enterprises reporting..	916	842	609	32	113	26	
55 30-59 acres.....enterprises reporting..	966	845	627	13	107	22	
56 60-99 acres.....enterprises reporting..	1,362	1,106	983	13	72	13	
57 100-199 acres.....enterprises reporting..	3,718	2,954	2,738	31	67	8	
58 200-499 acres.....enterprises reporting..	2,977	2,320	2,106	56	68	5	
59 500-999 acres.....enterprises reporting..	567	441	359	30	28	1	
60 1,000 acres or more.....enterprises reporting..	137	120	89	9	17	10	

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]

Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)—Continued													
Colorado River				Brazos River				San Jacinto River	Trinity River	Sabine River			
Total	Colorado River direct below Austin (5a)	Colorado River direct above Austin (5b)	Concho River (5c)	Total	Brazos River direct below Waco (6a)	Brazos River direct above Waco (6b)	Salt Fork (6c)			Total	Sabine River direct (9a)	Neches River (9b)	
607	69	337	201	6,095	62	3,837	2,204	118	73	87	10	77	1
957,639	719,902	177,533	59,654	5,966,666	322,455	3,144,229	2,499,982	315,047	351,013	296,337	87,674	208,663	2
117,515	72,286	32,933	12,296	1,155,901	30,211	611,113	514,577	45,954	34,393	34,982	8,182	26,800	3
8.14	9.96	5.39	4.85	5.16	10.67	5.15	4.86	6.86	10.21	8.47	10.72	7.79	4
8.22	10.00	5.50	4.87	5.17	10.67	5.15	4.87	6.86	10.21	8.65	10.72	8.00	5
2.35	2.78	(3)	(3)	(3)	3.56	(3)	(3)	(3)	3.40	2.54	(3)	2.58	6
70	8	40	22	206	10	146	50	33	1	19	1	18	7
7,507	4,058	1,839	1,610	37,003	3,222	22,354	11,427	10,812	580	2,447	8	2,439	8
64	6	40	18	547	2	347	200	1	5	4	.....	4	9
16,831	9,691	5,368	1,772	117,563	160	59,906	57,497	8	104	119	.....	119	10
178	10	111	57	2,743	7	1,647	1,094	13	16	8	2	6	11
21,376	2,539	13,418	5,419	562,409	1,926	288,459	272,024	5,437	1,304	3,117	486	2,631	12
147	22	70	55	1,860	25	1,205	631	36	17	13	.....	13	13
16,025	5,525	8,125	2,375	335,454	10,465	190,812	134,177	19,091	10,208	19,389	.....	19,389	14
148	23	76	49	739	18	492	229	35	34	43	7	36	15
55,776	50,473	4,183	1,120	103,472	14,438	49,582	39,452	10,666	22,197	9,910	7,688	2,222	16
604	67	337	200	6,095	62	3,837	2,204	118	73	87	10	77	17
952,957	717,635	175,798	59,524	5,956,750	322,455	3,142,451	2,491,844	315,047	351,013	282,267	87,674	194,593	18
116,488	71,986	32,253	12,249	1,153,872	30,211	610,718	512,943	45,954	34,393	34,264	8,182	26,082	19
8.18	9.97	5.45	4.86	5.16	10.67	5.15	4.86	6.86	10.21	8.24	10.72	7.46	20
6	2	3	1	22	.....	8	14	.....	.....	2	.....	2	21
4,132	2,267	1,735	130	9,916	.....	1,778	8,138	.....	.....	14,070	.....	14,070	22
1,027	300	680	47	2,029	.....	395	1,634	.....	.....	718	.....	718	23
4.02	7.96	2.55	2.77	4.89	.....	4.50	4.98	.....	.....	19.60	.....	19.60	24
1	1	.....	.....	2	.....	2	.....	1	2	5	2	3	25
38,054	38,054	.....	.....	7,905	7,905	.....	.....	5,320	83,380	117,380	33,254	84,326	26
22,033	22,033	.....	.....	4,581	4,581	.....	.....	1,411	19,472	28,142	7,667	20,475	27
1.73	1.73	.....	.....	1.73	1.73	.....	.....	3.77	4.28	4.18	4.34	4.12	28
2	1	1	.....	1	1	.....	.....	1	2	1	.....	1	29
3,627	1,325	2,302	.....	6,132	6,132	.....	.....	5,669	54,140	220	.....	220	30
24,036	22,033	2,003	.....	3,912	3,912	.....	.....	1,411	17,644	1,000	.....	1,000	31
628	64	360	204	6,153	59	3,879	2,223	118	72	81	8	73	32
56,955	15,450	29,648	11,857	1,145,020	19,330	611,113	514,577	44,033	9,749	6,040	515	5,525	33
579	62	330	187	6,083	59	3,834	2,198	110	68	73	7	66	34
56,021	15,337	29,571	11,113	1,143,532	19,330	610,590	513,612	42,318	9,009	5,506	511	4,995	35
16	4	9	3	190	2	116	72	1	1	1	.....	1	36
19	4	11	4	210	3	122	85	3	2	1	.....	1	37
1,895	977	791	127	12,833	675	5,739	6,419	1,100	40	3	.....	3	38
611	62	355	194	6,144	59	3,876	2,217	112	70	73	7	66	39
56,021	15,337	29,571	11,113	1,143,532	19,330	610,590	513,612	42,318	9,009	5,506	511	4,995	40
8	2	3	3	5	.....	2	3	2	1	.....	.....	.....	41
461	113	40	308	1,134	.....	363	771	800	700	.....	.....	.....	42
9	.....	2	7	4	.....	1	3	4	1	8	1	7	43
473	.....	37	436	354	.....	160	194	915	40	534	4	530	44
591	62	333	196	6,070	59	3,829	2,190	116	70	80	8	72	45
56,306	15,150	29,346	11,810	1,140,289	19,330	609,817	511,142	44,033	9,749	6,028	515	5,513	46
22	.....	2	.....	22	.....	8	14	.....	.....	1	.....	1	47
280	.....	280	.....	2,702	.....	901	1,801	.....	.....	9	.....	9	48
3	2	.....	1	1,295	.....	395	900	.....	.....	3	.....	3	49
347	300	.....	47	734	.....	.....	734	.....	.....	.....	.....	.....	50
32	.....	25	7	61	.....	42	19	2	2	.....	.....	.....	52
92	4	55	33	127	4	90	33	9	24	50	5	45	53
104	3	57	44	294	5	248	41	3	20	15	2	13	54
109	8	44	57	354	2	287	65	6	7	3	.....	3	55
105	11	60	34	771	3	600	168	2	1	.....	.....	.....	56
119	14	81	24	2,474	5	1,607	862	9	1	3	.....	3	57
57	18	35	4	1,787	28	903	861	55	8	6	1	5	58
6	3	.....	.....	246	10	91	148	23	7	2	.....	2	59
4	3	.....	1	39	2	11	26	9	2	2	.....	2	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)	Rio Grande below Fort Quitman (V-B)						
	Total	Rio Grande direct			Pecos River		
		Total	Below Rio Grande City (1a)	Rio Grande City to Del Rio (1b)	Del Rio to Fort Quitman (1c)	Total	Pecos River direct below vicinity Grand Falls (2a)
ALL ENTERPRISES							
Cost of water to farms, 1949: ¹							
Total cost of water to farms:							
Enterprises reporting.....enterprises..	1,250	1,009	736	150	123	241	44
Cost.....dollars..	6,421,281	5,545,224	4,832,908	557,885	154,431	876,057	104,625
Area irrigated direct.....acres..	808,279	704,571	631,831	53,851	18,889	103,708	23,444
Cost per acre irrigated direct.....dollars..	7.94	7.87	7.65	10.36	8.18	8.45	4.46
Total cost per irrigated acre.....dollars..	8.15	8.01	7.78	10.62	8.31	9.16	4.79
Total cost per acre-foot of water ².....dollars..	4.53	4.71	4.86	2.59	2.87	3.98	2.18
Enterprises by cost per acre:							
Less than \$1.00.....enterprises reporting..	172	150	115	12	23	22	5
acres irrigated..	43,128	30,142	24,204	1,809	4,129	12,986	3,871
\$1.00-\$1.99.....enterprises reporting..	64	56	47	2	7	8	4
acres irrigated..	17,510	10,797	9,054	697	1,046	6,713	6,110
\$2.00-\$4.99.....enterprises reporting..	216	182	150	8	24	34	6
acres irrigated..	122,178	95,649	89,015	4,130	2,504	26,529	8,073
\$5.00-\$9.99.....enterprises reporting..	315	256	197	29	30	59	13
acres irrigated..	439,734	420,810	379,531	35,689	5,590	18,924	2,700
\$10.00 and over.....enterprises reporting..	483	365	227	99	39	118	16
acres irrigated..	185,729	147,173	130,027	11,526	5,620	38,556	2,690
Cost of water for primary irrigation:							
Enterprises reporting.....enterprises..	1,168	962	691	148	123	206	38
Cost.....dollars..	6,300,583	5,480,044	4,774,393	551,470	154,181	820,539	100,952
Area supplied primary irrigation.....acres..	788,258	692,599	621,459	52,551	18,589	95,659	21,821
Cost per acre supplied.....dollars..	7.99	7.91	7.68	10.49	8.29	8.58	4.63
Cost of water for supplemental irrigation:							
Enterprises reporting.....enterprises..	100	59	55	3	1	41	8
Cost.....dollars..	120,698	65,180	58,515	6,415	250	55,518	3,673
Area supplied supplemental irrigation.....acres..	20,021	11,972	10,372	1,300	300	8,049	1,623
Cost per acre supplied.....dollars..	6.03	5.44	5.64	4.93	0.83	6.90	2.26
Cost to farms for purposes other than operation and maintenance: ⁴							
Enterprises reporting.....enterprises..	34	28	26	2	.....	6	3
Cost.....dollars..	1,277,152	1,245,930	1,136,966	108,964	.....	31,222	10,810
Area irrigated direct.....acres..	555,212	532,876	504,610	28,266	.....	22,336	12,751
Cost per acre irrigated.....dollars..	2.30	2.34	2.25	3.85	.....	1.40	0.85
Arrearage in payments by farms, Jan. 1, 1950: ⁴							
Enterprises reporting.....enterprises..	25	24	22	2	.....	1	.....
Amount.....dollars..	674,789	669,695	584,895	84,800	.....	5,094	.....
Area irrigated direct.....acres..	503,121	497,954	469,688	28,266	.....	5,167	.....
SINGLE-FARM ENTERPRISES, 1950							
Single-farm enterprises.....enterprises..	1,223	977	709	150	118	246	49
Area irrigated.....acres..	224,882	156,054	115,695	24,715	15,644	68,828	10,693
Complete-system enterprises ⁵.....enterprises..	1,015	795	541	139	115	220	41
Area irrigated.....acres..	182,039	114,483	78,975	20,095	15,413	67,556	10,693
Other farms irrigated:							
Enterprises reporting.....number..	88	79	49	20	10	9	3
Number of other farms.....farms..	164	153	90	42	21	11	2
Area irrigated in other farms.....acres..	8,255	6,934	4,984	1,398	552	1,321	530
Enterprises by origin of water supply: ⁵							
No water from other enterprises.....enterprises reporting..	1,041	807	550	142	115	234	49
acres irrigated..	182,595	115,039	79,531	20,095	15,413	67,556	10,693
Part of water from other enterprises.....enterprises reporting..	47	41	37	1	3	6	.....
acres irrigated..	15,495	14,624	12,593	1,800	231	871	.....
All of water from other enterprises.....enterprises reporting..	135	129	122	7	.....	6	.....
acres irrigated..	26,792	26,391	23,571	2,820	.....	401	.....
Enterprises by primary and supplemental irrigation:							
All primary.....enterprises reporting..	1,106	914	652	144	118	192	34
acres irrigated..	206,931	146,676	108,117	22,915	15,644	60,255	9,278
Part primary, part supplemental.....enterprises reporting..	13	8	7	1	.....	5	1
Primary irrigation.....acres irrigated..	1,638	806	306	500	.....	832	100
Supplemental irrigation.....acres irrigated..	1,289	603	403	200	.....	686	315
All supplemental.....enterprises reporting..	82	47	45	2	.....	35	6
acres irrigated..	15,024	7,969	6,869	1,100	.....	7,055	1,000
Enterprises by number of acres irrigated: ⁵							
None.....enterprises reporting..	22	8	5	3	.....	14	8
1-9 acres.....enterprises reporting..	91	80	52	19	9	11	1
10-29 acres.....enterprises reporting..	231	211	145	31	35	20	5
30-59 acres.....enterprises reporting..	216	196	149	23	24	20	3
60-99 acres.....enterprises reporting..	122	105	81	12	12	17	2
100-199 acres.....enterprises reporting..	216	157	128	19	10	59	14
200-499 acres.....enterprises reporting..	212	147	97	29	21	65	13
500-999 acres.....enterprises reporting..	83	53	36	11	6	30	2
1,000 acres or more.....enterprises reporting..	30	20	16	3	1	10	2

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. (Drainage Basin Table 1, 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 For 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.]

Rio Grande below Fort Quitman (V-B)—Continued			Rio Grande direct above Fort Quitman (V-C-1a)	Mississippi River, total (VI)	Mississippi River excluding Arkansas River (Red River) (VI-A)							Arkansas River (Canadian River) (VI-B-2a)	
Pecos River—Continued					Total	Red River direct (2a)	Pease River (2b)	North and Salt Forks (2c)	Prairie Dog Town Fork				
Pecos River direct above vicinity Grand Falls (2b)	Comanche Creek (2e)	Toyah Creek (2f)							Total	Prairie Dog Town Fork direct (2d)	Tierra Blanca Creek (2e)		
123	36	39	11	2,068	1,980	4	446	7	1,528	805	727	88	1
547,181	42,251	182,000	625,181	2,035,411	1,967,404	78,650	435,649	4,185	1,448,920	740,449	708,471	68,007	2
51,892	10,025	18,347	86,832	447,714	436,039	13,212	88,143	272	334,412	164,094	170,318	11,675	3
10.54	4.21	9.92	7.20	4.55	4.51	5.95	4.94	15.39	4.33	4.51	4.16	5.83	4
11.83	4.58	9.92	7.20	4.55	4.52	5.95	4.95	15.39	4.34	4.52	4.16	5.83	5
6.23	(3)	(3)	(3)	3.79	3.77	4.96	(3)	(3)	(3)	(3)	(3)	(3)	6
8	7	2	.....	96	93	.....	17	.....	77	35	42	3	7
4,378	4,682	55	.....	21,758	21,468	.....	4,794	.....	16,674	5,631	11,043	290	8
3	1	.....	.....	289	284	1	53	.....	231	128	104	5	9
573	30	.....	.....	73,544	72,694	110	13,232	.....	59,352	27,306	32,046	850	10
16	10	2	2	929	908	1	203	2	703	365	340	21	11
5,236	3,095	10,125	2,027	209,584	204,618	15	41,256	75	163,272	79,005	84,267	4,966	12
30	8	8	5	531	495	2	118	2	375	214	162	36	13
14,413	946	865	84,705	118,854	114,512	13,087	23,183	65	78,177	42,443	35,734	4,342	14
66	10	27	4	223	200	.....	55	3	142	63	79	23	15
27,292	1,272	7,302	100	23,974	22,747	.....	5,678	132	16,937	9,709	7,228	1,227	16
103	27	39	11	2,067	1,979	4	446	7	1,527	804	727	88	17
510,041	27,546	182,000	625,181	2,032,525	1,964,518	78,650	435,493	4,185	1,446,190	737,747	708,443	68,007	18
46,259	9,232	18,347	86,832	447,244	435,569	13,212	88,083	272	334,002	163,694	170,308	11,675	19
11.03	2.98	9.92	7.20	4.54	4.51	5.95	4.94	15.39	4.33	4.51	4.16	5.83	20
24	9	.....	.....	6	6	.....	2	.....	4	3	1	.....	21
37,140	14,705	.....	.....	2,886	2,886	.....	156	.....	2,730	2,702	28	.....	22
5,633	793	.....	.....	470	470	.....	60	.....	410	400	10	.....	23
6.59	18.54	.....	.....	6.14	6.14	.....	2.60	.....	6.66	6.76	2.80	.....	24
3	.....	.....	2	1	1	1	.....	.....	.....	.....	.....	.....	25
20,412	.....	.....	123,920	21,671	21,671	21,671	.....	.....	.....	.....	.....	.....	26
9,585	.....	.....	84,195	13,033	13,033	13,033	.....	.....	.....	.....	.....	.....	27
2.13	.....	.....	1.47	1.66	1.66	1.66	.....	.....	.....	.....	.....	.....	28
1	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	29
5,094	.....	.....	.....	37,000	37,000	37,000	.....	.....	.....	.....	.....	.....	30
5,167	.....	.....	.....	13,033	13,033	13,033	.....	.....	.....	.....	.....	.....	31
124	36	38	9	2,100	2,005	3	450	8	1,549	818	735	95	32
39,884	10,025	8,226	2,637	434,681	423,006	179	88,143	272	334,412	164,094	170,318	11,675	33
107	35	38	9	2,067	1,979	3	446	7	1,528	805	727	88	34
38,812	9,825	8,226	2,637	434,681	423,006	179	88,143	272	334,412	164,094	170,318	11,675	35
4	2	.....	.....	60	59	.....	23	.....	36	26	10	1	36
7	2	.....	.....	64	63	.....	26	.....	37	25	12	1	37
552	239	.....	.....	3,953	3,939	.....	974	.....	2,965	2,378	587	14	38
113	35	38	9	2,100	2,005	3	450	8	1,549	818	735	95	39
38,812	9,825	8,226	2,637	434,681	423,006	179	88,143	272	334,412	164,094	170,318	11,675	40
5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
671	200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
401	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
94	27	38	9	2,061	1,973	3	444	7	1,524	802	726	88	45
33,519	9,232	8,226	2,637	433,741	422,066	179	88,035	272	333,580	163,397	170,183	11,675	46
4	.....	.....	.....	5	5	.....	2	.....	3	2	1	.....	47
732	.....	.....	.....	470	470	.....	48	.....	422	297	125	.....	48
371	.....	.....	.....	250	250	.....	60	.....	190	180	10	.....	49
20	9	.....	.....	1	1	.....	.....	.....	1	1	.....	.....	50
5,262	793	.....	.....	220	220	.....	.....	.....	220	220	.....	.....	51
6	.....	.....	.....	33	26	.....	4	.....	21	13	8	.....	52
1	1	8	1	37	27	.....	11	.....	16	4	12	10	53
6	5	4	2	74	69	.....	16	.....	49	20	29	5	54
7	4	6	2	121	111	.....	28	.....	79	42	37	10	55
11	4	.....	1	256	230	.....	51	.....	179	111	68	26	56
28	11	6	.....	764	744	.....	170	.....	573	312	261	20	57
36	7	10	2	664	650	.....	143	.....	509	264	247	14	58
24	2	2	.....	132	130	.....	26	.....	106	47	61	2	59
5	2	2	1	19	18	.....	1	.....	17	5	12	1	60

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	Gulf of Mexico excluding Mississippi River, total ¹	Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)				
			Total	Gulf of Mexico direct	Nueces River	Guadalupe River	Lavaca River
MULTIPLE-FARM ENTERPRISES, 1950							
1 Multiple-farm enterprises, total number ².....enterprises..	122	121	67	15	9	23	6
2 Area irrigated direct.....acres..	1,042,714	1,029,681	362,089	213,504	5,767	5,888	9,982
3 Multiple-purpose enterprises ².....enterprises..	15	15	5	2	2	.....	.....
4 Area irrigated direct.....acres..	210,421	210,421	52,064	42,185	3,295	.....	.....
5 Complete-system enterprises ².....enterprises..	78	77	55	11	7	23	6
6 Area irrigated direct.....acres..	693,652	680,619	297,459	177,063	5,767	5,888	9,982
7 Enterprises by origin of water supply: ²							
8 No water from other enterprises.....enterprises reporting..	96	95	65	13	9	23	6
9 acres irrigated.....	891,540	878,507	333,171	197,586	5,767	5,888	9,982
10 Part of water from other enterprises.....enterprises reporting..	9	9	1	1	.....	.....	.....
11 acres irrigated.....	98,047	98,047	24,302	12,302	.....	.....	.....
12 All water from other enterprises.....enterprises reporting..	17	17	1	1	.....	.....	.....
acres irrigated.....	53,127	53,127	4,616	3,616	.....	.....	.....
13 Enterprises by delivery of irrigation water: ²							
14 No water delivered.....enterprises reporting..	65	64	45	7	6	22	4
15 Water delivered direct to farms only.....enterprises reporting..	195,727	182,694	125,524	55,728	3,694	4,836	3,045
16 acres irrigated.....	52	52	20	8	1	1	2
17 Water delivered to farms and to other enterprises.....enterprises reporting..	846,987	846,987	236,565	157,776	2,073	1,052	6,937
18 acres irrigated.....	5	5	2	.....	2	.....	.....
19 Water delivered to other enterprises only.....enterprises reporting..	108	107	61	15	7	22	5
20 Enterprises by primary and supplemental irrigation: ³							
21 All primary.....enterprises reporting..	959,685	946,652	358,772	213,504	5,767	5,688	9,182
22 acres irrigated.....	8	8	3	.....	.....	.....	.....
23 Part primary, part supplemental.....enterprises reporting..	77,263	77,263	1,259	.....	.....	57	.....
24 Primary irrigation.....acres irrigated..	4,966	4,966	1,258	.....	.....	143	.....
25 Supplemental irrigation.....acres irrigated..	1	1	1	.....	.....	.....	1
acres irrigated.....	800	800	800	.....	.....	.....	800
26 Enterprises by number of farms irrigated direct: ²							
27 None.....enterprises reporting..	5	5	2	.....	2	.....	.....
28 1-3.....enterprises reporting..	23	23	21	1	4	10	3
29 4-9.....enterprises reporting..	31	31	23	3	1	10	2
30 10-29.....enterprises reporting..	21	21	9	2	1	2	.....
31 30-99.....enterprises reporting..	21	21	9	7	.....	.....	1
32 100-299.....enterprises reporting..	10	9	3	2	1	1	.....
33 300-999.....enterprises reporting..	8	8	.....	.....	.....	.....	.....
1,000 or more.....enterprises reporting..	3	3	.....	.....	.....	.....	.....
34 Enterprises by acres irrigated direct: ²							
35 None.....enterprises reporting..	5	5	2	.....	2	.....	.....
36 1-99 acres.....enterprises reporting..	16	16	15	3	3	10	1
37 100-999 acres.....enterprises reporting..	35	35	22	1	.....	11	2
38 1,000-2,999 acres.....enterprises reporting..	15	15	8	2	.....	1	.....
39 3,000-9,999 acres.....enterprises reporting..	21	21	9	3	2	1	.....
40 10,000-29,999 acres.....enterprises reporting..	17	16	7	5	.....	.....	1
30,000 or more.....enterprises reporting..	13	13	4	4	.....	.....	.....
41 Quantities of water reported, 1949: ⁴							
42 Total obtained from all sources ⁴.....enterprises reporting..	112	111	61	15	9	23	5
43 percent of all enterprises reporting..	1	1	1	7	12	17	3
44 Surface sources.....enterprises reporting..	4,522,891	4,501,220	1,224,616	883,930	28,175	37,363	95,111
45 acre-feet.....	75	74	40	13	6	12	1
46 Pumped wells.....enterprises reporting..	4,249,663	4,227,992	1,188,535	868,266	27,792	30,221	83,333
47 acre-feet.....	23	23	21	1	3	11	4
48 Other enterprises.....enterprises reporting..	30,053	30,053	22,233	1,816	383	7,142	11,778
49 acre-feet.....	23	23	1	1	.....	.....	.....
50 Conveyance loss ⁴.....enterprises reporting..	243,175	243,175	13,848	13,848	.....	.....	5
51 acre-feet.....	106	106	58	15	7	23	8,861
Delivered: ⁴							
52 Direct to farms.....enterprises reporting..	107	106	59	15	7	23	5
53 acre-feet.....	2,577,914	2,561,914	1,041,861	770,808	7,547	28,545	84,250
54 To other enterprises.....enterprises reporting..	48	48	16	8	3	1	.....
55 acre-feet.....	357,990	357,990	54,014	30,269	14,300	100	2,000
56 For use other than irrigation.....enterprises reporting..	22	21	5	.....	3	.....	.....
57 acre-feet.....	740,689	735,018	2,445	.....	2,136	2,269	.....
58 Delivered direct to farms for primary irrigation: ³							
59 Enterprises reporting.....enterprises..	106	105	58	15	7	23	4
60 Quantity delivered.....acre-feet..	2,306,678	2,290,678	1,037,105	564,202	5,507	24,301	25,640
61 Area supplied primary irrigation.....acres..	1,020,709	1,007,676	356,612	213,504	5,767	5,745	6,712
Quantity supplied per acre.....acre-feet..	2.3	2.3	2.9	2.6	1.0	4.2	3.8
62 Delivered direct to farms for supplemental irrigation: ³							
63 Enterprises reporting.....enterprises..	9	9	4	.....	.....	1	1
64 Quantity delivered.....acre-feet..	11,036	11,036	4,756	.....	.....	284	2,400
65 Area supplied supplemental irrigation.....acres..	5,766	5,766	2,058	.....	.....	143	800
66 Quantity supplied per acre.....acre-feet..	1.9	1.9	2.3	.....	.....	2.0	3.0
Total quantity per irrigated acre ⁵.....acre-feet..	2.3	2.3	2.9	2.6	1.0	4.2	3.9
67 Cost of water to farms for enterprises reporting quantity delivered, 1949: ³							
68 Cost for primary irrigation.....dollars..	8,899,158	8,821,158	3,814,644	2,300,514	27,931	12,824	102,675
69 Average cost per acre-foot.....dollars..	3.86	3.85	3.68	4.08	5.07	0.53	4.00
70 Cost for supplemental irrigation.....dollars..	35,302	35,302	18,836	.....	.....	0	4,000
71 Average cost per acre-foot.....dollars..	3.20	3.20	3.96	.....	.....	0.00	1.67
72 Measurement of water to farms, 1949: ³							
73 No water measured.....enterprises reporting..	97	96	56	12	8	21	5
74 acres irrigated.....	873,719	860,686	326,432	189,666	5,722	5,658	7,512
75 Part of water measured.....enterprises reporting..	4	4	1	.....	.....	.....	.....
76 acres irrigated.....	114,185	114,185	7,000	.....	.....	.....	.....
77 All water measured.....enterprises reporting..	7	7	1	.....	.....	.....	.....
78 acres irrigated.....	20,449	20,449	1,282	.....	.....	.....	.....

¹Data for less than 3 enterprises in Basins V-A-5b, V-A-7, V-A-9a, V-R-2f, V-C-1a and VI-A-2a 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

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

Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)—Continued					Rio Grande below Fort Quitman (V-B)										
Colorado River			Brazos River direct below Waco (6a)	Trinity River (8)	Sabine River		Total	Rio Grande direct				Pecos River			
Total ¹	Colorado River direct below Austin (5a)	Concho River (5c)			Total ¹	Neches River (9b)		Total	Total	Below Rio Grande City (1a)	Rio Grande City to Del Rio (1b)	Del Rio to Fort Quitman (1c)	Total ¹	Pecos River direct below vicinity Grand Falls (2a)	Pecos River direct above vicinity Grand Falls (2b)
11	5	4	4	3	6	4	52	41	33	3	5	11	3	6	1
60,560	56,836	439	10,881	24,644	28,942	21,275	583,397	548,517	516,136	29,136	3,245	34,880	12,751	12,008	2
1			2				8	7	6	1		1		1	3
2,003			4,581				74,162	74,162	46,428	27,734					4
7	5		4	2	3	1	22	20	13	3	4	2	1		5
60,121	56,836		10,881	17,644	8,702	1,035	383,160	367,411	335,330	29,136	2,945	15,749	5,628		6
10	4	4	4	3	5	3	29	26	18	3	5	3	1	1	7
48,560	44,836	439	10,881	24,644	27,942	20,275	478,257	472,629	440,248	29,136	3,245	5,628	5,628		8
1	1						7	5	5			2			9
12,000	12,000						56,629	41,341	41,341			15,288		5,167	10
					1	1	16	10	10			6	2	4	11
					1,000	1,000	48,511	34,547	34,547			13,964	7,123	6,841	12
															13
4	4		1	4	4	2	18	12	6	2	4	25,966	9,028	6,847	14
42,219	42,219		6,300		9,702	2,035	40,054	14,058	9,711	1,402	2,945	6	2	3	15
7	1	4	3	3	2	2	31	28	26	1	1	3	1	2	16
18,341	14,617	439	4,581	24,644	19,240	19,240	543,343	534,439	506,425	27,734	300	8,884	3,723	5,161	17
							3	1	1			2		1	18
10	5	4	3	3	5	3	44	36	29	3	4	8	2	5	19
59,278	56,836	439	10,881	24,644	27,907	20,240	503,685	474,433	442,652	29,136	2,645	29,252	7,123	12,008	20
1					1	1	5	4	3		1	1	1		21
882					320	320	76,004	70,684	70,384		300	5,320	5,320		22
400					715	715	3,708	3,400	3,100		300	308	308		23
															24
															25
2	1	1			1		3	1	1			2		1	26
3		3	2	1	3	3	8	7	4		3	1		1	28
2	1			1	1		12	8	5	1	2	4	1	3	29
3	2		2	1			11	7	6	1		4	2	1	30
1	1				1	1	6	6	5	1					31
							8	8	8						32
							2	2	2						33
		1					3	1	1			2		1	34
1	1	1	1				1	1	1						35
4	1	3			1		13	12	6	2	4	1		1	36
2					2	2	7	5	4		1	2		2	37
1	1			1	1	1	12	7	7		5	3		2	38
2	2		2	1			8	7	7		1				39
1	1		1	1	1	1	8	8	7		7				40
7	5		4	3	6	4	48	38	31	3	4	10	3	6	41
1	7		6	4	7	5	4	4	4	2	3	4	6	5	42
365,508	357,108		208,774	189,457	232,499	193,132	2,218,244	2,079,091	1,247,982	821,335	9,774	139,153	41,498	70,788	43
6	4		4	3	5	3	32	29	22	3	4	3	1	1	44
364,877	356,477		208,774	189,457	218,168	179,284	2,093,297	2,003,859	1,172,746	821,335	9,774	89,442	25,550	37,025	45
1	1				1		1					1			46
631	631				483		7,520					7,520		7,520	47
					1	1	21	14	14			7	2	5	48
					13,848	13,848	117,427	75,236	75,236			42,191	15,948	26,243	49
6	5		4	3	6	4	46	37	30	3	4	9	3	5	50
24,324	21,724		19,890	14,588	25,300	17,537	361,842	329,217	282,937	45,134	1,146	32,625	10,493	10,073	51
7	5		4	3	6	4	45	37	30	3	4	8	3	5	52
339,184	333,384		182,684	167,424	188,630	157,026	989,639	940,726	813,194	118,904	8,628	48,913	25,839	23,074	53
3	1		3	3	2	2	31	26	25	1		5	1	3	54
2,000	2,000		6,200	7,445	18,569	18,569	186,676	129,061	128,851	210		57,615	5,166	37,641	55
							14	14	12	2					56
							680,087	680,087	23,000	657,087					57
7	5		3	3	6	4	45	37	30	3	4	8	3	5	58
211,885	207,085		32,848	73,587	95,343	63,739	983,359	935,482	809,300	118,904	7,278	47,877	24,803	23,074	59
59,721	56,836		10,881	24,644	28,227	20,560	566,869	542,418	510,637	29,136	2,645	24,451	12,443	12,008	60
3.5	3.6		3.0	3.0	3.4	3.1	1.7	1.7	1.6	4.1	2.8	2.0	2.0	1.9	61
1					1	1	5	4	3		1	1	1		62
1,000					1,072	1,072	6,280	5,244	3,894		1,350	1,036	1,036		63
400					715	715	3,708	3,400	3,100		300	308	308		64
2.5					1.5	1.5	1.7	1.5	1.3		4.5	3.4	3.4		65
3.5	3.6		3.0	3.0	3.4	3.1	1.8	1.7	1.6		2.9	2.3	2.2	1.9	66
656,486	640,098		180,171	261,390	257,053	171,639	4,396,028	4,246,972	3,964,532	274,540	7,900	149,056	41,564	107,492	67
3.10	3.09		5.48	3.55	2.70	2.69	4.47	4.54	4.90	2.31	1.09	3.11	1.68	4.66	68
766					14,070	14,070	16,466	15,555	15,305		250	911			69
0.77					13.12	13.12	2.62	2.97	3.93		0.19	0.88	0.88		70
8	5	2	4	2	6	4	39	36	30	3	3	3		1	71
58,996	56,836	157	10,881	17,644	28,942	21,275	517,138	506,592	476,311	29,136	1,145	10,546		425	72
				1			2	1	1			1		1	73
				7,000			40,106	34,939	34,939			5,167		5,167	74
1							6					6	3	3	75
1,282							19,167					19,167	12,751	6,416	76

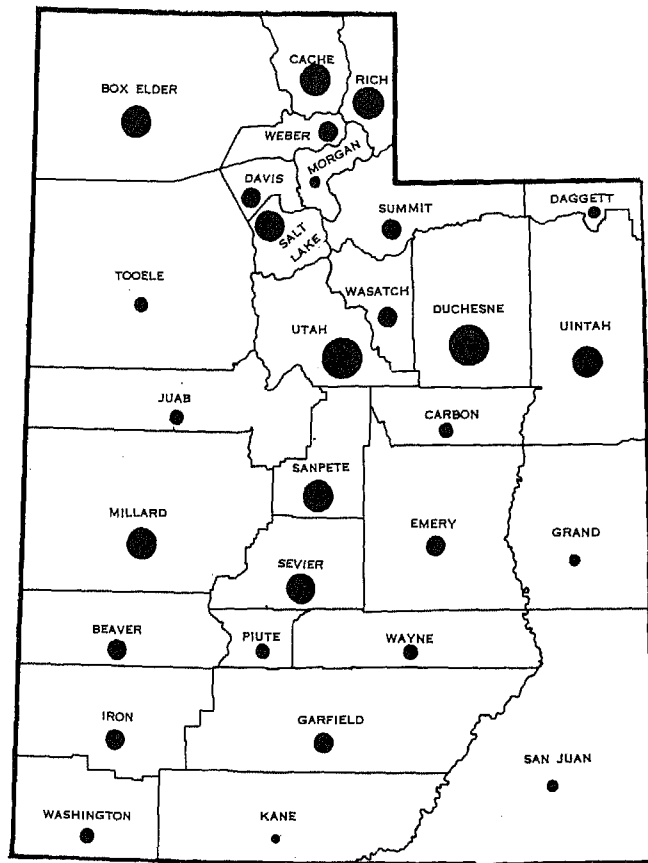
IRRIGATION OF AGRICULTURAL LANDS

UTAH

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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

UTAH: 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 ² (number)	Irrigated acreage reported by		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950	24,176	10,865,165	21,126	1,137,995	1,166,972	3,165	56,539,436
1945	26,322	10,309,107	23,543	1,124,081	(*)	(*)	(*)
1940	25,411	7,302,007	22,612	911,135	1,176,116	2,401	41,896,532
1935	30,695	6,239,318	24,332	583,183	(*)	(*)	(*)
1930	27,159	5,613,101	23,847	917,139	1,324,125	2,714	35,669,819
1920	25,662	5,050,410	22,218	(**)	1,371,651	2,403	32,037,351
1910	21,676	3,397,699	19,709	(**)	999,410	2,472	14,028,717
1900	19,387	4,116,951	17,924	629,293	(*)	(*)	5,865,302
1890	10,517	1,323,705	9,724	263,473	(*)	(*)	2,780,000

*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 land¹ from which crops were harvested, plus 150,042 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.....	3,165	2,401	2,714	2,403
Enterprises by type:				
Single-farm..... number.....	2,107	1,579	2,030	(*)
Mutual:				
Unincorporated..... number.....	406	164		(*)
Incorporated..... number.....	634	618	656	(*)
Commercial..... number.....	2	11	10	(*)
District..... number.....	5	9	4	(*)
U. S. Bureau of Reclamation ¹ number.....	1	7	2	(*)
U. S. Bureau of Indian Affairs..... number.....	3	7	5	(*)
State..... number.....				(*)
City..... number.....	7	6	7	(*)
Other..... number.....				(*)
Irrigated land, total ² acres.....	1,166,972	1,176,116	1,324,125	1,371,651
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres.....	151,688	112,189	172,240	166,887
Mutual:				
Unincorporated..... acres.....	100,181	114,229	934,680	1,014,649
Incorporated..... acres.....	874,588	885,122		
Commercial..... acres.....	(*)	85,600	599,834	586,911
District..... acres.....	11,079	31,394	8,125	21,143
U. S. Bureau of Reclamation ¹ acres.....		200,078	40,000	629,285
U. S. Bureau of Indian Affairs..... acres.....	54,452	58,594	54,619	25,270
State..... acres.....				
City..... acres.....	2,179	11,904	14,627	24,206
Other..... acres.....				3,300
Acreage irrigated, by source of water: ^{3 7}				
Streams (and lakes)..... acres.....	1,133,694	1,422,784	1,101,997	1,144,387
Springs..... acres.....	170,491	45,389	49,593	41,310
Flowing wells..... acres.....	64,034	17,712	12,953	5,623
Pumped wells..... acres.....	64,389	19,446	11,517	7,611
Sewage..... acres.....	161	297	10	
Other and not reported..... acres.....	80,888	21,568	152,945	173,560
Irrigated land artificially drained..... acres.....	151,965	85,157	68,656	85,448
Irrigated land in need of drainage..... acres.....	89,070	28,418	88,338	91,976
Irrigation works:				
Diversion dams..... total number.....	3,080	1,973	1,717	1,479
Reservoirs..... number.....	511	438	413	476
Total capacity (reported)..... acre-feet.....	2,224,361	3,417,704	1,093,252	1,600,505
Reservoir dams..... total number.....	511	362	287	307
Canals and ditches..... total length, miles.....	9,621	9,004	9,237	11,677
Pipe lines..... total length, miles.....	300	172	159	155
Flowing wells..... number.....	1,925	1,216	1,663	1,256
Pumped wells..... number.....	560	286	346	192
Average pumping lift (reported)..... feet.....	50	38	(*)	(*)
Pumps..... number.....	816	409	460	291
Average pumping lift from all sources..... feet.....	(*)	35	36	25
Capital investment, total..... dollars.....	56,539,436	41,896,532	35,669,819	32,037,351
Capital investment by type of enterprise:				
Single-farm..... dollars.....	3,378,697	1,428,479	3,482,497	2,736,804
Mutual:				
Unincorporated..... dollars.....	1,935,384	1,768,625	16,763,420	20,254,212
Incorporated..... dollars.....	22,569,335	18,092,636		
Commercial..... dollars.....	(*)	3,541,088	57,220,629	53,698,770
District..... dollars.....	3,606,426	2,640,455	1,896,590	265,484
U. S. Bureau of Reclamation ¹ dollars.....	819,679,334	12,698,755	5,181,980	3,567,057
U. S. Bureau of Indian Affairs..... dollars.....	1,189,672	1,167,594	927,202	765,354
State..... dollars.....				
City..... dollars.....	624,500	558,900	197,501	729,090
Other..... dollars.....				20,580

*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.
⁵Includes 1 Carey Act enterprise.
⁶Does not include 23,000 acres to which stored water was supplied under Warren Act.
⁷Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City" and "Other mixed" with "Other and not reported."
⁸Data for less than 1 enterprise shown with permission of the enterprise.

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 ^{2 3}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau ¹	Operated by water users ²		
ENTERPRISES: FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises 1950..	3,165	2,107	406	634	5	1	10	36	12
..... 1940..	2,401	1,579	164	618	9	7	(*)	(*)	24
Farms irrigated direct per enterprise.....farms 1949..	9.3	1.0	6.7	36.2	66.0	.....	45.9	140.2	116.0
Area irrigated direct.....acres 1949..	1,234,938	151,688	100,181	874,588	11,079	.....	16,309	217,864	97,402
.....acres 1939..	1,499,110	112,189	114,229	885,122	31,394	200,078	(*)	(*)	156,098
Average per enterprise.....acres 1949..	390	72	247	1,379	2,216	.....	1,630	6,052	8,117
CHARACTERISTICS OF ENTERPRISES, 1949									
Multiple-purpose enterprises.....enterprises..	25	.....	1	20	.....	1	1	19	3
Area irrigated direct.....acres..	39,859	.....	187	38,715	.....	.....	3,851	146,505	957
Complete-system enterprises.....enterprises..	2,615	1,905	318	386	.....	.....	2	3	6
Area irrigated direct.....acres..	628,206	128,681	67,867	430,506	.....	.....	9,645	10,764	1,152
Enterprises by origin of water supply:									
No water from other enterprises.....enterprises reporting..	2,698	1,929	336	424	2	1	9	.....	6
.....acres irrigated..	670,016	128,681	70,757	466,338	168	.....	16,309	.....	4,072
Part of water from other enterprises.....enterprises reporting..	238	73	22	137	1	.....	.....	34	5
.....acres irrigated..	410,106	17,835	7,988	283,673	7,280	.....	.....	213,300	93,330
All water from other enterprises.....enterprises reporting..	229	105	48	73	2	.....	1	2	1
.....acres irrigated..	154,816	5,172	21,436	124,577	3,631	.....	.....	4,564	.....
Enterprises by delivery of irrigation water:									
No water delivered.....enterprises reporting..	24	24	.....	.....	.....	.....	.....	.....	.....
Water delivered direct to farms only.....enterprises reporting..	2,980	2,083	382	506	3	.....	2	18	6
.....acres irrigated..	841,963	151,688	95,970	582,242	10,911	.....	9,645	67,029	1,152
Water delivered to farms and to other enterprises.....enterprises reporting..	133	.....	18	110	1	.....	3	18	4
.....acres irrigated..	392,975	.....	4,211	292,346	168	.....	6,664	150,835	96,250
Water delivered to other enterprises only.....enterprises reporting..	28	.....	6	18	1	1	5	.....	2
Enterprises by primary and supplemental irrigation:⁴									
All primary.....enterprises reporting..	2,712	1,909	336	458	1	.....	4	14	8
.....acres irrigated..	880,939	142,220	84,500	586,158	7,280	.....	12,458	61,429	68,781
Part primary, part supplemental.....enterprises reporting..	260	45	57	154	2	.....	1	22	2
.....acres irrigated..	278,033	2,230	9,373	236,914	1,431	.....	3,031	140,577	28,085
Primary irrigation.....acres irrigated..	59,887	1,179	4,656	51,316	2,200	.....	820	15,878	536
Supplemental irrigation.....enterprises reporting..	138	129	7	1	1	.....	.....	.....	.....
.....acres irrigated..	8,079	6,059	1,652	200	168	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:									
None.....enterprises reporting..	52	24	6	18	1	1	5	.....	2
1-3.....enterprises reporting..	2,252	2,073	159	20	.....	.....	.....	.....	.....
4-9.....enterprises reporting..	290	10	162	116	.....	.....	1	.....	2
10-29.....enterprises reporting..	341	.....	69	267	1	.....	.....	6	4
30-99.....enterprises reporting..	169	.....	10	155	2	.....	1	11	2
100-299.....enterprises reporting..	53	.....	.....	52	1	.....	3	15	.....
300-999.....enterprises reporting..	8	.....	.....	6	.....	.....	.....	4	2
1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:									
None.....enterprises reporting..	52	24	6	18	1	1	5	.....	2
1-29.....enterprises reporting..	1,014	983	27	43	.....	.....	.....	.....	1
30-99.....enterprises reporting..	882	718	118	3	.....	.....	.....	.....	4
100-499.....enterprises reporting..	774	355	209	208	1	.....	.....	.....	1
500-999.....enterprises reporting..	181	19	33	127	1	.....	.....	.....	1
1,000-2,999.....enterprises reporting..	186	6	12	167	.....	.....	2	17	1
3,000-9,999.....enterprises reporting..	64	1	1	9	2	.....	3	15	.....
10,000-29,999.....enterprises reporting..	10	1	.....	60	.....	.....	.....	3	.....
30,000 or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	1	2
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949									
Surface water:									
Gravity only.....enterprises reporting..	2,492	1,567	353	556	4	1	8	34	11
.....acres irrigated..	1,051,757	112,075	80,262	751,107	10,911	.....	10,973	209,675	97,402
Pumped only.....enterprises reporting..	168	143	11	13	1	.....	.....	1	.....
.....acres irrigated..	19,203	6,324	1,662	11,049	168	.....	.....	4,989	.....
Gravity and pumped.....enterprises reporting..	91	24	24	42	.....	.....	2	1	1
.....acres irrigated..	99,589	2,736	15,562	81,291	.....	.....	5,336	3,200	.....
Ground water only (pumped from wells).....enterprises reporting..	331	308	18	5	.....	.....	.....	.....	.....
.....acres irrigated..	27,051	23,062	2,695	1,294	.....	.....	.....	.....	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	83	65	.....	18	.....	.....	.....	.....	.....
.....acres irrigated..	37,338	7,491	.....	29,847	.....	.....	.....	.....	.....
Stored water:									
None stored.....enterprises reporting..	2,570	1,858	328	374	1	1	2	2	8
.....acres irrigated..	580,874	114,744	68,679	342,652	168	.....	9,645	55,748	54,631
Part stored.....enterprises reporting..	405	104	73	223	1	.....	1	32	4
.....acres irrigated..	564,072	27,393	30,755	455,873	7,280	.....	.....	154,055	42,771
All stored.....enterprises reporting..	190	145	5	37	3	.....	7	2	.....
.....acres irrigated..	89,992	9,551	747	76,063	3,631	.....	6,664	8,061	.....

¹Not available.
²Data for less than 3 enterprises shown with permission of the enterprise.
³These enterprises also included under "District" or other types of enterprises as the case may be.
⁴Single-farm enterprises receiving water from Bureau of Reclamation not included.
⁵For 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	Single-farm	Mutual		District	U.S. Bureau of Reclamation		All or part of water from U.S.H.R. projects ^{2,3}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau ¹	Operated by water users ²		
SOURCES OF SURFACE WATER, 1949⁴									
Streams (and lakes).....enterprises reporting..	1,817	899	322	579	5	1	10	36	11
.....acres irrigated..	1,133,694	91,602	87,243	846,290	11,079		16,309	217,864	97,380
Springs.....enterprises reporting..	609	486	87	114				5	2
.....acres irrigated..	170,491	36,018	16,646	117,759				19,434	68
Flowing wells.....enterprises reporting..	533	499	15	18				3	1
.....acres irrigated..	64,034	17,845	2,008	43,325				17,268	856
Drainage water.....enterprises reporting..	230	158	32	39					
.....acres irrigated..	80,888	8,292	5,585	59,731	7,280			18,453	
Sewage.....enterprises reporting..	7								
.....acres irrigated..	161	161							
Other sources.....enterprises reporting..									
.....acres irrigated..									
DRAINAGE OF IRRIGATED LAND, 1949									
Irrigated land drained:									
Enterprises reporting.....enterprises..	435	244	46	141	1			13	3
Area supplied primary irrigation.....acres..	384,172	13,113	25,127	276,594	359			135,229	60,979
Area artificially drained.....acres..	151,965	8,232	10,984	114,413	100			32,464	18,236
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	415	215	49	148	1		1	17	2
Area supplied primary irrigation.....acres..	425,428	16,078	25,237	307,413	359		3,031	133,882	76,341
Area in need of drainage.....acres..	89,070	5,831	8,036	68,259	250		100	19,818	6,694
IRRIGATION WORKS, 1950									
Diversion dams.....enterprises reporting..	1,755	1,098	259	387	2		4	28	9
.....dams..	3,080	1,994	412	639	2		15	61	33
Diversion dams by material:									
Concrete or masonry.....dams..	642	236	69	319	2		9	37	16
Timber.....dams..	361	181	80	98			5	4	2
Earth and rock.....dams..	1,708	1,333	225	149			1	2	1
Other, mixed, and not reported.....dams..	369	244	38	73				18	14
Reservoirs.....enterprises reporting..	323	222	19	79	1	1	7	5	1
.....reservoirs..	511	296	36	170	1	1	19	14	7
Reservoirs for which capacity was reported.....number..	476	267	33	167	1	1	19	14	7
Total capacity.....acre-feet..	2,224,361	25,425	867,147	1,116,205	65,784	149,600	543,638	7,112	200
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	288	237	15	29				4	7
100-999 acre-feet.....reservoirs..	114	22	11	81				9	7
1,000 acre-feet and over.....reservoirs..	74	8	7	57	1	1	10	3	
Reservoir dams by material:									
Concrete or masonry.....dams..	30	21	1	8					
Earth and rock.....dams..	452	258	33	152	1	1	19	14	7
Other, mixed, and not reported.....dams..	29	17	2	10					10
Canals and ditches.....enterprises reporting..	1,837	825	382	618	2		7	35	10
.....total length, miles..	9,621	1,427	920	6,141	41		192	1,831	1,092
Pipelines and siphons.....enterprises reporting..	203	81	26	91	2		2	3	3
.....total length, miles..	300	89	23	135	50		7	5	3
Tunnels.....enterprises reporting..	42		4	37			6	4	1
.....total length, feet..	59,305		430	58,175			38,010	1,800	700
Flowing wells.....enterprises reporting..	533	499	16	17				3	1
.....wells..	1,925	1,755	87	82				8	1
Pumped wells.....enterprises reporting..	414	374	18	22			1		
.....wells..	560	513	18	29			2		
Wells for which pumping lift was reported.....wells..	510	468	13	29			2		
Average pumping lift.....feet..	50	48	71	70			60		
Irrigation pumps.....enterprises reporting..	605	536	31	37	1		2	1	
.....pumps..	816	711	48	53	4		3	2	
Electric motors used for pumping.....enterprises reporting..	429	364	29	35	1		1	1	
.....electric motors..	594	493	46	51	4		2	2	
Other motors and engines used for pumping.....enterprises reporting..	181	177	2	2			1		
.....other motors and engines..	203	199	2	2			1		
SEASON OF IRRIGATION, 1949									
Water delivered only before July 1.....enterprises reporting..	54	28	16	10					
.....acres irrigated..	14,676	2,329	3,694	8,653					
Water delivered before and after July 1.....enterprises reporting..	2,923	1,909	384	614	5				
.....acres irrigated..	1,206,037	140,275	95,958	861,475	11,079		16,309	217,864	97,250
Water delivered only after July 1.....enterprises reporting..	52	40	3	9					
.....acres irrigated..	6,540	1,936	199	4,405					
CAPITAL INVESTMENT, 1950 AND 1940									
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	41,896,532	1,428,479	1,768,625	18,092,636	2,640,455	12,698,755	(*)	(*)	5,267,582
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises 1950..	1,304	795	106	391	4	1	6	27	7
Amount.....dollars 1950..	14,642,904	1,950,218	166,579	4,476,699	965,971	6,980,579	2,280,389	311,184	102,678
Area irrigated direct.....acres 1949..	837,917	69,956	35,888	624,523	10,911		9,718	174,960	97,139
Total capital investment Jan. 1, 1950.....dollars 1950..	56,539,436	3,378,697	1,935,384	22,569,335	3,606,426	19,679,334	(*)	(*)	5,370,260
INDEBTEDNESS, 1950⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	144		11	130	2		10	12	1
Amount.....dollars..	21,971,745		86,315	21,637,630	211,800		19,361,342	1,446,545	36,000
Area irrigated direct.....acres..	276,771		4,368	265,101	7,280		16,309	69,374	22
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	4			4			2		
Amount.....dollars..	62,620			62,620			46,173		
Area irrigated direct.....acres..	6,266			6,266			3,851		

¹Not available.

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

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

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

⁵Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represent characteristics of the entire enterprise, acreage represents acreage within the State.

⁶Not 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 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.R.R. projects ^{2,3}	Commercial, Indian, State, city, and other	
			Unincorporated	Incorporated		Operated by Bureau ¹	Operated by water users ²			
COST OF WATER TO FARMS, 1949⁴										
Total cost of water to farms:										
Enterprises reporting.....enterprises..	3,110	2,083	400	613	4		5	36		10
Cost.....dollars..	2,266,375	319,965	102,691	1,664,414	28,274		60,097	478,968		151,031
Area irrigated direct.....acres..	1,234,938	151,688	100,181	874,588	11,079		16,309	217,864		97,402
Cost per acre irrigated direct.....dollars..	1.84	2.11	1.03	1.90	2.55		3.68	2.19		1.55
Enterprises by cost per acre:										
Less than \$1.00.....enterprises reporting..	1,796	1,348	232	212	1		1	3		3
acres irrigated..	415,806	101,018	59,551	247,682	7,280		1,255	11,882		275
\$1.00-\$1.99.....enterprises reporting..	395	127	97	167				11		4
acres irrigated..	435,366	11,556	25,637	301,956				116,823		96,217
\$2.00-\$4.99.....enterprises reporting..	470	235	58	174	1		2	20		2
acres irrigated..	305,646	17,207	13,452	271,027	3,072		9,645	76,206		888
\$5.00-\$9.99.....enterprises reporting..	271	209	13	49			2	2		
acres irrigated..	67,076	13,236	1,541	52,299			5,409	12,953		
\$10.00 or more.....enterprises reporting..	178	164		11	2					1
acres irrigated..	11,044	8,671		1,624	727					22
Cost of water for primary irrigation:										
Enterprises reporting.....enterprises..	2,972	1,954	393	612	3		5	36		10
Cost.....dollars..	2,124,211	298,664	97,170	1,563,416	14,876		53,922	437,243		150,085
Area supplied primary irrigation.....acres..	1,166,972	144,450	93,873	823,072	8,711		15,489	201,986		96,866
Cost per acre supplied.....dollars..	1.82	2.07	1.04	1.90	1.71		3.48	2.16		1.55
Cost of water for supplemental irrigation:										
Enterprises reporting.....enterprises..	398	174	64	155	3		1	22		2
Cost.....dollars..	142,164	21,301	5,521	100,998	13,398		6,175	41,725		946
Area supplied supplemental irrigation.....acres..	67,966	7,238	6,308	51,516	2,368		820	15,878		536
Cost per acre supplied.....dollars..	2.09	2.94	0.88	1.96	5.66		7.53	2.62		1.76
Cost to farms for purposes other than operation and maintenance: ⁵										
Enterprises reporting.....enterprises..	298		41	253	1		3	20		3
Cost.....dollars..	491,792		12,611	474,431	1,500		19,260	88,422		3,250
Area irrigated direct.....acres..	608,889		22,917	535,921	7,280		11,203	98,262		42,771
Cost per acre irrigated.....dollars..	0.81		0.55	0.89	0.21		1.72	0.89		0.08
Arrearage in payments by farms, Jan. 1, 1950: ⁵										
Enterprises reporting.....enterprises..	73		12	59			2	11		2
Amount.....dollars..	29,790		1,662	24,451			5,297	8,676		3,677
Area irrigated direct.....acres..	177,924		4,268	118,544			5,106	110,020		55,112
QUANTITIES OF WATER REPORTED, 1949⁵										
Total obtained from all sources ⁶.....enterprises reporting..	1,034		397	621	4		10	36		11
acres-feet..	5,408,782		579,864	4,278,856	47,135		39,574	407,440		463,353
Surface sources.....enterprises reporting..	892		335	544	2		1	9		10
acres-feet..	4,326,325		512,596	3,333,208	37,047		39,574	376,008		403,900
Pumped wells.....enterprises reporting..	26		14	12						
acres-feet..	12,396		5,304	7,092						
Other enterprises.....enterprises reporting..	285		70	208	2		1	36		5
acres-feet..	1,070,061		61,964	938,556	10,088		31,432	241,724		59,453
Conveyance loss ⁶.....enterprises reporting..	933		340	579	4		1	7		9
acres-feet..	890,687		59,901	735,679	11,843		8,142	36,299		75,122
Delivered: ⁶										
Direct to farms.....enterprises reporting..	1,008		391	604	3		5	36		10
acres-feet..	3,084,332		259,656	2,558,113	5,171		34,226	632,783		261,392
To other enterprises.....enterprises reporting..	151		24	119	2		1	14		5
acres-feet..	1,214,120		247,007	794,317	25,636		31,432	314,911		115,728
For use other than irrigation.....enterprises reporting..	235		24	204	2		5	19		5
acres-feet..	219,643		13,300	190,747	4,485		22,004	25,806		11,111
Delivered direct to farms for primary irrigation:										
Enterprises reporting.....enterprises..	992		383	598	2		5	36		9
Quantity delivered.....acres-feet..	2,875,853		245,089	2,368,718	2,171		32,406	599,597		259,875
Area supplied primary irrigation.....acres..	1,003,015		93,300	811,570	1,431		15,489	201,986		96,714
Quantity per acre supplied.....acres-feet..	2.9		2.6	2.9	1.5		2.1	2.9		2.7
Delivered direct to farms for supplemental irrigation:										
Enterprises reporting.....enterprises..	217		61	151	3		1	22		2
Quantity delivered.....acres-feet..	154,904		14,220	136,422	3,000		1,820	24,305		1,262
Area supplied supplemental irrigation.....acres..	60,475		6,204	51,367	2,368		820	15,878		536
Quantity per acre supplied.....acres-feet..	2.6		2.3	2.7	1.3		2.2	1.5		2.4
Cost of water to farms for enterprises reporting quantity delivered:										
Cost for primary irrigation.....dollars..	1,804,301		96,896	1,546,944	10,376		53,922	437,243		150,085
Average cost per acre-foot.....dollars..	0.63		0.40	0.65	4.78		1.66	0.72		0.58
Cost for supplemental irrigation.....dollars..	120,106		5,518	100,244	13,398		6,175	41,725		946
Average cost per acre-foot.....dollars..	0.78		0.39	0.73	4.47		3.39	1.71		0.75
Measurement of water to farms:										
No water measured.....enterprises reporting..	628		237	386	1		5	26		4
acres..	455,601		56,049	389,056	559		16,309	139,091		9,937
Part of water measured.....enterprises reporting..	36		5	28	2		2	6		1
acres..	128,408		1,275	78,914	7,448			55,545		40,771
All water measured.....enterprises reporting..	65		19	45	1			4		4
acres..	138,544		4,272	131,200	3,072			23,228		

¹Data for less than 3 enterprises shown with permission of the enterprise.
²These enterprises also included under "District" or other types of enterprises as the case may be.
³Not including single-farm enterprises receiving water from Bureau of Reclamation projects.
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.

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				Acreage 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..	2,615	2,103	106	318	88	1,728	747	138	2
Farms irrigated direct per enterprise.....farms..	514	6.0	1.8	1.2	11.2	1.4	7.0	44.7	243.0
Area irrigated.....acres..	628,206	550,535	8,270	26,774	42,627	56,745	218,484	323,300	29,677
Average per enterprise.....acres..	240	262	78	84	484	33	292	2,343	14,838
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	12	12				2	7	3	
Area irrigated.....acres..	14,236	14,236				51	2,670	11,515	
Type of enterprise:									
Single-farm.....enterprises..	1,905	1,447	91	296	71	1,561	337	7	
acres..	128,681	92,690	5,255	23,035	7,701	47,434	70,540	10,707	
Mutual:									
Unincorporated.....enterprises..	318	289	9	18	2	127	185	6	
acres irrigated..	67,867	63,824	1,101	2,695	247	7,074	48,805	11,988	
Incorporated.....enterprises..	386	361	6	4	15	36	223	125	2
acres irrigated..	430,506	392,869	1,914	1,044	34,679	2,093	98,131	300,605	29,677
Commercial.....enterprises..									
acres irrigated..									
District.....enterprises..									
acres irrigated..									
U. S. Bureau of Reclamation.....enterprises..									
acres irrigated..									
U. S. Bureau of Indian Affairs ⁴.....enterprises..						1	1		
acres irrigated..	196	196				44	152		
State.....enterprises..									
acres irrigated..									
City.....enterprises..	4	4				3	1		
acres irrigated..	956	956				100	856		
Enterprises by primary and supplemental irrigation: ⁵									
All primary.....enterprises reporting..	2,302	1,852	98	276	76	1,559	635	107	1
acres irrigated..	497,156	440,005	7,794	21,723	27,634	50,459	180,413	253,044	13,240
Part primary, part supplemental.....enterprises reporting..	184	160	2	14	8	62	92	29	1
Primary irrigation.....acres irrigated..	98,237	85,620	54	747	11,816	1,993	23,669	57,138	15,437
Supplemental irrigation.....acres irrigated..	25,497	21,145	65	1,314	2,973	1,306	10,073	13,118	1,000
All supplemental.....enterprises reporting..	127	89	6	28	4	107	20		
acres irrigated..	7,316	3,765	357	2,990	204	2,987	4,329		
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	2,054	1,582	94	307	71	1,648	397	9	
4-9.....enterprises reporting..	233	213	8	10	2	64	159	10	
10-29.....enterprises reporting..	219	207	4	1	7	16	161	42	
30-99.....enterprises reporting..	93	88			5		30	63	
100-299.....enterprises reporting..	16	13			3			14	2
300-999.....enterprises reporting..									
1,000 and over.....enterprises reporting..									
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	928	790	40	83	25	928			
30-99.....enterprises reporting..	800	577	39	163	21	800			
100-499.....enterprises reporting..	629	513	22	68	26		629		
500-999.....enterprises reporting..	118	105	5	3	5		118		
1,000-2,999.....enterprises reporting..	110	102		1	7			110	
3,000-9,999.....enterprises reporting..	28	25			3			28	
10,000-29,999.....enterprises reporting..	2	1			1				2
30,000 and over.....enterprises reporting..									
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	2,103	2,103				1,357	618	127	1
acres irrigated..	550,535	550,535				42,155	191,220	295,919	20,241
Pumped only.....enterprises reporting..	106		106			79	27		
acres irrigated..	8,270		8,270			2,583	5,687		
Gravity and pumped.....enterprises reporting..	22					11	9	1	1
acres irrigated..	12,497					463	2,248	350	9,436
Ground water only (pumped from wells).....enterprises reporting..	318			318		246	71	1	
acres irrigated..	26,774			26,774		10,542	13,757	2,475	
Surface (gravity or pumped) and ground.....enterprises reporting..	66				66	35	22	9	
acres irrigated..	30,130				30,130	1,002	5,572	23,556	
Stored water:									
None stored.....enterprises reporting..	2,331	1,871	97	288	75	1,590	645	96	
acres irrigated..	443,992	387,674	7,433	24,174	24,711	51,744	185,234	207,014	
Part stored.....enterprises reporting..	158	138	2	10	8	49	71	35	2
acres irrigated..	165,973	147,057	295	1,002	17,619	1,093	25,856	108,547	29,677
All stored.....enterprises reporting..	126	94	7	20	5	89	31	6	
acres irrigated..	18,241	15,004	542	1,598	297	3,108	7,394	7,739	

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 shown with permission of the enterprise.

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	10,000 and over
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁴									
Streams (and lakes).....enterprises reporting..	1,335	1,199	82		54	672	531	130	2
.....acres irrigated..	532,903	485,560	7,258		40,085	26,471	168,421	308,334	29,677
Springs.....enterprises reporting..	604	571	12		21	402	172	30	
.....acres irrigated..	122,603	116,581	1,284		4,738	11,773	53,993	56,837	
Flowing wells.....enterprises reporting..	508	484			24	447	50	3	
.....acres irrigated..	29,538	27,205			2,333	10,063	13,724	5,751	
Drainage water.....enterprises reporting..	182	162	18		2	131	44	7	
.....acres irrigated..	34,916	33,922	887		107	3,875	12,075	18,966	
Sewage.....enterprises reporting..	5	5				5			
.....acres irrigated..	96	96				96			
Other sources.....enterprises reporting..									
.....acres irrigated..									
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	308	278	14	10	6	212	69	26	1
Acreage supplied primary irrigation.....acres..	93,129	77,422	1,285	155	14,267	5,439	21,947	56,307	9,436
Acreage artificially drained.....acres..	26,945	21,553	604	79	4,709	3,618	6,624	13,203	3,500
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	310	266	15	14	15	165	103	40	2
Acreage supplied primary irrigation.....acres..	175,879	156,538	1,835	493	17,013	5,112	33,917	111,977	24,873
Acreage in need of drainage.....acres..	49,073	44,281	590	347	3,860	2,447	7,550	26,081	13,000
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	1,503	1,445	15	5	38	915	486	101	1
.....dams..	2,666	2,557	24	15	70	1,315	1,069	281	1
Diversion dams by material:									
Concrete or masonry.....dams..	484	454	5	3	22	131	237	115	1
Timber.....dams..	308	294	4		10	120	136	52	
Earth or rock.....dams..	1,557	1,507	14	2	34	930	555	72	
Other, mixed, and not reported.....dams..	317	302	1	10	4	134	141	42	
Reservoirs.....enterprises reporting..	252	203	8	20	11	136	82	33	1
.....reservoirs..	370	297	10	37	26	186	115	63	6
Reservoirs for which capacity was reported.....reservoirs..	338	271	9	37	21	166	103	63	6
.....total capacity, acre-feet..	170,668	167,044	1,014	129	2,481	1,976	30,766	126,976	10,950
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	238	176	8	37	17	164	63	11	
100-999 acre-feet.....reservoirs..	65	61	1		3	2	30	30	3
1,000 acre-feet and over.....reservoirs..	35	34			1		10	22	3
Reservoir dams by material:									
Concrete or masonry.....dams..	21	16	1	1	3	14	4	3	
Earth or rock.....dams..	324	259	9	36	21	163	98	57	6
Other, mixed, and not reported.....dams..	25	22	1		2	9	13	3	
Canals and ditches.....enterprises reporting..	1,388	1,288	36	27	37	675	578	133	2
.....total length, miles..	5,162	4,737	46	41	339	833	2,309	1,882	138
Pipelines and siphons.....enterprises reporting..	136	109	18	2	7	67	57	12	
.....total length, miles..	157	148	5	2	2	62	76	19	
Tunnels.....enterprises reporting..	21	19			2	2	10	9	
.....total length, feet..	20,078	12,473			7,605	120	4,488	15,470	
Flowing wells.....enterprises reporting..	508	484			24	447	58	3	
.....wells..	807	653			154	449	327	31	
Pumped wells.....enterprises reporting..	384			318	66	231	93	10	
.....wells..	520			425	95	334	156	30	
Wells for which pumping lift was reported.....wells..	470			391	79	300	140	30	
Average pumping lift.....feet..	48			49	44	43	51	87	
Irrigation pumps.....enterprises reporting..	567	4	100	316	87	367	127	12	1
.....pumps..	670	5	116	424	125	432	205	32	1
Electric motors used for pumping.....enterprises reporting..	377	2	41	278	56	263	103	10	1
.....electric motors..	506	2	52	376	76	305	171	29	1
Other motors and engines used for pumping.....enterprises reporting..	137	2	59	44	32	107	27	3	
.....other motors and engines..	151	2	62	49	38	115	33	3	
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	47	46		1		23	21	3	
.....acres irrigated..	14,068	13,838		230		883	6,240	6,937	
Water delivered before and after July 1.....enterprises reporting..	2,426	1,944	94	304	84	1,584	706	134	2
.....acres irrigated..	604,540	528,713	7,889	25,367	42,571	52,619	205,881	316,363	29,677
Water delivered only after July 1.....enterprises reporting..	35	17	4	11	3	30	4	1	
.....acres irrigated..	1,782	541	80	1,105	56	733	1,049		
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	1,034	750	60	168	56	556	372	104	2
Amount.....dollars..	4,408,685	3,194,932	268,178	700,634	244,940	707,850	1,383,656	2,190,179	127,000
Area irrigated.....acres..	425,344	376,720	5,559	16,198	26,867	20,813	119,456	255,398	29,677
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	81	74	1	1	5	5	34	41	1
Amount.....dollars..	1,256,674	1,101,229	4,400	350	150,695	42,622	96,440	1,063,612	54,000
Area irrigated.....acres..	48,769	39,120	600	58	0,991	271	17,207	11,050	20,241
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	1	1						1	
Amount.....dollars..	200	200						200	
Area irrigated.....acres..	1,490	1,490						1,490	

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.

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.....enterprises..	2,613	2,101	106	318	88	1,728	747	136	2
Cost.....dollars..	957,481	617,179	26,656	200,244	113,402	141,019	299,744	461,458	55,260
Area irrigated.....acres..	628,206	550,535	8,270	26,774	42,627	56,745	218,484	323,300	29,677
Cost per acre irrigated.....dollars..	1.52	1.12	3.22	7.48	2.66	2.49	1.37	1.43	1.86
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	1,666	1,624	14	11	17	1,136	464	66	.....
acres irrigated.....	324,178	316,115	1,084	1,168	5,811	33,570	132,858	157,750	.....
\$1.00-\$1.99.....enterprises reporting..	271	224	17	11	19	121	109	40	1
acres irrigated.....	160,037	147,782	1,695	2,050	8,510	5,450	38,405	95,941	20,241
\$2.00-\$4.99.....enterprises reporting..	320	177	45	76	22	190	105	24	1
acres irrigated.....	109,620	72,193	4,252	7,357	25,818	7,496	35,050	57,638	9,436
\$5.00-\$9.99.....enterprises reporting..	210	50	17	126	17	151	55	4	.....
acres irrigated.....	23,267	11,287	993	9,058	1,929	6,235	9,625	7,407	.....
\$10.00 or more.....enterprises reporting..	146	26	13	94	13	130	14	2	.....
acres irrigated.....	11,104	3,158	246	7,141	559	3,994	2,546	4,564	.....
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	2,486	2,012	100	290	84	1,621	727	136	2
Cost.....dollars..	906,141	593,781	25,676	181,199	105,465	129,047	278,517	444,313	54,264
Area supplied primary irrigation.....acres..	595,393	525,625	7,848	22,470	39,450	52,452	204,082	310,182	28,677
Cost per acre supplied.....dollars..	1.52	1.13	3.27	8.06	2.67	2.46	1.36	1.43	1.89
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	311	249	8	42	12	169	112	29	1
Cost.....dollars..	51,340	23,398	980	19,045	7,917	11,972	21,227	17,145	996
Area supplied supplemental irrigation.....acres..	32,813	24,910	422	4,304	3,177	4,293	14,402	13,118	1,000
Cost per acre supplied.....dollars..	1.56	0.94	2.32	4.42	2.49	2.79	1.47	1.31	1.00
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....enterprises..	151	140	2	1	8	10	70	69	2
Cost.....dollars..	255,326	214,306	590	180	40,250	2,252	38,393	182,781	31,900
Area irrigated.....acres..	256,536	231,756	703	180	23,897	672	34,367	191,820	29,677
Cost per acre irrigated.....dollars..	1.00	0.92	0.84	1.00	1.68	3.35	1.12	0.95	1.07
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....enterprises..	30	28	1	.....	1	3	18	9	.....
Amount.....dollars..	6,686	6,533	3	.....	150	182	4,275	2,229	.....
Area irrigated.....acres..	34,183	28,210	20	.....	5,953	179	6,281	27,723	.....
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶.....enterprises reporting..	691	637	15	22	17	158	403	128	2
Surface sources.....enterprises reporting..	1,896,407	1,758,994	12,328	8,758	116,327	49,689	608,165	1,124,317	114,236
acres-foot.....	672	636	15	4	17	151	391	124	2
Pumped wells.....enterprises reporting..	1,881,085	1,753,052	12,328	1,074	114,631	47,037	598,569	1,121,243	114,236
acres-foot.....	21	.....	.....	18	3	7	13	1	.....
Other enterprises.....enterprises reporting..	8,989	.....	.....	7,684	1,305	2,436	6,053	500	.....
acres-foot.....	27	26	.....	.....	1	4	17	6	.....
Conveyance loss ⁶.....enterprises reporting..	6,333	5,942	.....	.....	391	216	3,543	2,574	.....
acres-foot.....	622	594	8	5	15	134	363	123	2
Delivered: ⁶									
Direct to farms.....enterprises reporting..	691	637	15	22	17	158	403	128	2
acres-foot.....	1,404,507	1,298,496	9,579	8,649	87,783	31,190	438,212	846,105	89,000
To other enterprises.....enterprises reporting..	15	14	.....	.....	1	.....	3	10	2
acres-foot.....	17,002	16,532	.....	.....	470	.....	375	15,157	1,470
For use other than irrigation.....enterprises reporting..	134	126	1	.....	7	25	69	40	.....
acres-foot.....	91,949	84,342	794	.....	6,813	9,563	48,197	34,189	.....
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	679	631	15	16	17	156	396	125	2
Quantity delivered.....acres-foot..	1,314,016	1,225,825	6,851	3,904	77,346	29,661	410,255	791,567	82,533
Acreage supplied primary irrigation.....acres..	463,057	427,100	2,975	1,021	31,961	8,102	133,960	292,318	28,677
Quantity per acre supplied.....acres-foot..	2.8	2.9	2.3	3.9	2.4	3.7	3.1	2.7	2.9
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	143	121	1	14	7	25	88	29	1
Quantity delivered.....acres-foot..	59,698	48,097	99	4,665	6,837	1,529	27,957	27,345	2,867
Acreage supplied supplemental irrigation.....acres..	26,077	20,354	40	2,718	2,965	672	11,287	13,118	1,000
Quantity per acre supplied.....acres-foot..	2.3	2.4	2.5	1.7	2.3	2.3	2.5	2.1	2.9
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	641,612	551,995	6,915	4,165	78,537	14,813	159,832	412,703	54,264
Average cost per acre-foot.....dollars..	0.49	0.45	1.01	1.05	1.02	0.50	0.39	0.52	0.66
Cost for supplemental irrigation.....dollars..	32,826	20,566	115	5,880	6,265	1,054	13,631	17,145	996
Average cost per acre-foot.....dollars..	0.55	0.43	1.16	1.26	0.92	0.69	0.49	0.63	0.35
Measurement of water to farms:									
No water measured.....enterprises reporting..	430	392	13	11	14	110	241	78	1
acres.....	267,633	234,035	2,744	1,922	28,932	6,070	87,249	164,878	9,436
Part of water measured.....enterprises reporting..	12	11	.....	.....	.....	.....	8	4	.....
acres.....	15,993	15,404	.....	.....	589	.....	3,366	12,627	.....
All water measured.....enterprises reporting..	39	39	.....	.....	.....	7	20	12	.....
acres.....	36,002	36,002	.....	.....	.....	420	7,099	28,483	.....

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.

IRRIGATION OF AGRICULTURAL LANDS

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.]

Item (For definitions and explanations, see text)		The State	Beaver	Box Elder	Cache	Carbon	Daggett	Davis
1	Irrigated farms.....number 1950..	21,126	315	1,432	1,764	288	50	1,141
2	.....number 1945..	23,543	301	1,441	1,948	366	62	1,287
3	Proportion of all farms.....percent 1950..	87.4	94.6	84.6	84.6	92.9	96.2	85.9
4	Land in irrigated farms.....average per farm, acres 1950..	8,150,554	96,264	768,707	278,327	200,413	63,961	319,757
5	.....average per farm, acres 1945..	385.8	305.6	536.8	157.8	695.8	1,279.2	280.2
6	Value of land and buildings.....average per farm, dollars 1950..	19,537	20,432	29,501	21,112	12,462	18,842	21,892
7	.....average per acre, dollars 1950..	53.41	89.46	60.14	130.25	21.07	17.70	79.55
8	Proportion of irrigated farms reporting value.....percent 1950..	92	87	96	94	115	116	89
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	87	65	87	96	98	97	88
Land in irrigated farms according to use, 1949:								
10	Cropland harvested.....farms reporting..	20,223	298	1,414	1,700	281	50	1,103
11	.....acres..	1,098,611	19,886	126,281	107,019	9,629	5,316	32,243
12	Cropland used only for pasture.....acres..	268,194	1,586	12,846	10,490	2,516	1,167	3,984
13	Cropland not harvested and not pastured.....acres..	316,779	5,523	53,244	23,743	5,228	237	3,511
14	Woodland pastured.....acres..	971,856	13,867	19,008	52,270	53,142	.....	15,758
15	Other pasture (not cropland and not woodland).....acres..	5,029,336	49,302	480,529	69,756	120,733	56,489	259,464
16	Land pastured, total.....farms reporting..	14,779	243	956	1,433	186	48	589
17	.....acres..	6,269,386	64,755	512,383	132,516	176,391	57,656	279,206
18	Irrigated land in farms.....acres 1949..	1,137,995	23,483	87,542	74,861	11,153	9,407	35,051
19	.....acres 1944..	1,124,081	20,433	87,340	81,325	13,780	7,196	33,940
20	Land irrigated by sprinklers.....farms reporting 1949..	48	.....	1	15	.....	.....	7
21	.....acres 1949..	1,766	.....	20	426	.....	.....	119
Irrigated land in farms according to use, 1949:								
22	Irrigated cropland harvested.....farms reporting..	20,068	298	1,403	1,654	280	50	1,090
23	.....acres..	847,271	19,218	72,768	58,072	9,501	5,273	28,073
24	Irrigated pasture.....farms reporting..	9,597	171	537	1,073	114	35	426
25	.....acres..	271,063	3,783	13,528	15,944	1,257	4,134	6,442
26	Irrigated wild grass pasture.....farms reporting..	4,080	56	156	284	26	24	150
27	.....acres..	149,672	1,475	9,131	5,738	319	2,084	3,523
28	Irrigated tame grass pasture.....farms reporting..	6,414	130	421	857	96	19	314
29	.....acres..	121,391	2,308	4,397	10,206	938	1,330	2,919
30	Irrigated cropland not harvested and not pastured.....farms reporting..	1,877	16	131	104	31	.....	73
31	.....acres..	19,661	482	1,246	845	395	.....	536
Irrigated farms by acres irrigated in 1949:								
32	1-9 acres.....farms reporting..	4,605	17	181	348	91	1	407
33	10-19 acres.....farms reporting..	3,016	19	162	274	50	3	207
34	20-29 acres.....farms reporting..	2,350	25	161	222	41	5	134
35	30-49 acres.....farms reporting..	3,823	79	309	352	37	3	175
36	50-99 acres.....farms reporting..	4,561	109	416	420	43	11	162
37	100-199 acres.....farms reporting..	1,988	53	150	122	18	5	43
38	200 acres and over.....farms reporting..	783	13	53	26	8	22	13
Irrigated farms by tenure of operator, 1950:								
39	Full owners.....number..	14,515	218	920	1,126	220	40	703
40	Part owners.....number..	4,943	71	343	516	42	8	273
41	Managers.....number..	160	3	11	17	1	.....	8
42	Tenants.....number..	1,508	23	158	105	25	2	157
Land in wholly and in partly irrigated farms:								
43	Wholly irrigated farms.....number 1950..	16,423	282	931	914	276	47	915
44	All land.....acres 1950..	4,995,942	84,853	324,417	73,636	194,408	62,901	224,114
45	Cropland harvested.....acres 1949..	681,878	16,822	48,165	31,451	9,278	5,173	23,706
46	Irrigated land.....acres 1949..	923,399	20,661	55,367	40,249	10,817	9,077	29,090
47	Partly irrigated farms.....number 1950..	4,703	33	501	850	12	3	226
48	All land.....acres 1950..	3,154,612	11,411	444,290	204,691	6,005	1,060	95,643
49	Cropland harvested, total.....farms reporting 1949..	3,800	16	483	786	5	3	188
50	.....acres 1949..	416,733	3,064	78,116	75,568	351	143	8,537
51	Irrigated land.....acres 1949..	214,596	2,822	32,175	34,612	336	330	5,961
52	Irrigated cropland harvested.....farms reporting 1949..	3,645	16	472	740	4	3	175
53	.....acres 1949..	165,393	2,396	24,603	26,621	223	100	4,367
Characteristics of wholly irrigated and nonirrigated farms:								
54	Wholly irrigated farms.....number 1950..	16,423	282	931	914	276	47	915
55	Average acreage per farm: All land.....acres 1949..	304.2	300.9	348.5	80.6	704.4	1,338.3	244.9
56	Cropland harvested.....acres 1949..	41.5	59.7	51.7	34.4	33.6	110.1	25.9
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	1.0	(1)	1.6	0.2	0.2	(1)	1.0
58	Vegetables harvested for sale.....acres 1949..	1.3	(1)	3.3	1.9	0.1	.....	3.4
59	Small grains (including sorghums).....acres 1949..	13.0	17.0	19.3	14.5	13.8	14.4	6.4
60	All hay.....acres 1949..	22.5	37.8	20.0	14.8	16.0	95.1	9.3
61	Farms by tenure of operator: Full owners and managers.....number 1950..	11,541	194	623	594	211	37	567
62	Part owners.....number 1950..	3,625	65	190	264	40	8	206
63	Tenants.....number 1950..	1,256	23	118	56	25	2	142
64	Value of land and buildings per farm.....dollars 1950..	18,422	16,967	26,606	18,566	12,656	20,345	21,541
65	Nonirrigated farms.....number 1950..	3,050	18	261	321	22	2	187
66	Average acreage per farm: All land.....acres 1949..	890.0	1,876.2	1,835.2	344.9	3,073.8	104.0	63.7
67	Cropland harvested.....acres 1949..	59.3	.....	260.1	103.3	(1)	5.0	16.2
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.3	.....	(1)	0.1	.....	.....	3.3
69	Vegetables harvested for sale.....acres 1949..	0.1	.....	(1)	0.4	.....	.....	0.2
70	Small grains (including sorghums).....acres 1949..	50.0	.....	238.3	90.8	.....	.....	7.5
71	All hay.....acres 1949..	5.0	.....	16.8	12.7	.....	5.0	5.7
72	Farms by tenure of operator: Full owners and managers.....number 1950..	2,375	17	179	225	11	2	164
73	Part owners.....number 1950..	428	.....	50	78	9	.....	14
74	Tenants.....number 1950..	247	1	32	18	2	.....	9
75	Value of land and buildings per farm.....dollars 1950..	16,136	97,000	34,498	19,278	30,679	.....	10,929
Irrigated farms and irrigated land by origin of water, 1949:								
Individually operated supply works and—								
76	No other irrigation enterprise.....farms reporting..	1,000	67	52	12	16	10	77
77	.....acres irrigated..	88,148	4,172	4,027	642	1,969	2,456	2,366
78	1 other irrigation enterprise.....farms reporting..	758	8	61	49	3	2	43
79	.....acres irrigated..	74,364	2,303	8,272	3,614	354	1,100	1,734
80	2 or more other irrigation enterprises.....farms reporting..	283	11	12	23	.....	1	21
81	.....acres irrigated..	45,829	1,289	2,197	2,183	.....	336	1,477
No individually operated supply works but—								
82	1 other irrigation enterprise.....farms reporting..	15,178	86	1,246	1,274	256	35	831
83	.....acres irrigated..	626,388	4,947	69,497	44,241	8,286	4,490	22,344
84	2 or more other irrigation enterprises.....farms reporting..	3,907	143	61	406	13	2	169
85	.....acres irrigated..	303,266	10,772	3,549	24,181	544	1,025	7,130

See footnote at end of County Table 1.

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)		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
1	Irrigated farms.....number 1950..	921	700	358	77	435	269	146
2	.....number 1945..	1,011	598	341	87	465	306	139
3	Proportion of all farms.....percent 1950..	97.3	93.7	97.3	90.6	85.3	77.1	83.4
4	Land in irrigated farms.....acres 1950..	538,110	223,035	140,859	44,507	439,962	139,866	208,681
5	.....average per farm, acres 1950..	584.3	318.6	393.5	578.0	1,011.4	519.9	1,429.3
6	Value of land and buildings.....average per farm, dollars 1950..	17,518	10,432	16,356	21,577	23,939	19,225	20,638
7	.....average per acre, dollars 1950..	31.73	32.15	48.99	28.41	27.53	32.68	14.94
8	Proportion of irrigated farms reporting value.....percent 1950..	90	98	77	61	96	80	82
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	85	100	66	80	82	91	79
Land in irrigated farms according to use, 1949:								
10	Cropland harvested.....farms reporting..	886	661	342	74	421	264	143
11	.....acres..	50,574	28,011	7,456	3,285	32,392	29,684	5,543
12	Cropland used only for pasture.....acres..	20,172	9,946	10,398	1,692	10,874	5,310	1,865
13	Cropland not harvested and not pastured.....acres..	12,174	8,685	3,315	602	19,635	20,404	1,222
14	Woodland pastured.....acres..	83,257	31,035	18,415	19,822	60,248	15,246	40,509
15	Other pasture (not cropland and not woodland).....acres..	269,229	105,971	79,135	16,360	301,339	64,821	158,495
16	Land pastured, total.....farms reporting..	848	597	321	54	324	175	122
17	.....acres..	372,658	146,952	107,948	37,874	372,461	85,377	200,869
18	Irrigated land in farms.....acres 1949..	101,206	48,597	24,217	4,057	34,125	13,077	4,253
19	.....acres 1944..	100,328	43,590	23,892	4,320	27,647	14,227	4,949
20	Land irrigated by sprinklers.....farms reporting 1949..	1	.....	.....	1	.....	.....	.....
21	.....acres 1949..	.....	.....	.....	5	35	.....	.....
Irrigated land in farms according to use, 1949:								
22	Irrigated cropland harvested.....farms reporting..	883	658	341	74	418	259	143
23	.....acres..	49,733	27,849	16,523	3,142	29,379	11,524	3,384
24	Irrigated pasture.....farms reporting..	762	502	198	31	120	36	35
25	.....acres..	50,337	17,637	7,392	750	4,089	1,512	848
26	Irrigated wild grass pasture.....farms reporting..	367	272	87	12	45	14	19
27	.....acres..	21,057	8,687	3,683	260	1,729	1,247	454
28	Irrigated tame grass pasture.....farms reporting..	514	328	124	21	82	22	20
29	.....acres..	28,980	8,950	3,709	490	2,360	265	394
30	Irrigated cropland not harvested and not pastured.....farms reporting..	76	203	12	11	36	7	6
31	.....acres..	1,436	3,111	302	165	657	41	21
Irrigated farms by acres irrigated in 1949:								
32	1-9 acres.....farms reporting..	46	92	40	18	42	54	37
33	10-19 acres.....farms reporting..	34	68	54	11	54	45	41
34	20-29 acres.....farms reporting..	38	67	47	8	49	35	20
35	30-49 acres.....farms reporting..	134	121	72	14	70	65	21
36	50-99 acres.....farms reporting..	272	208	69	13	125	49	23
37	100-199 acres.....farms reporting..	270	113	57	11	62	12	3
38	200 acres and over.....farms reporting..	127	31	19	2	33	9	1
Irrigated farms by tenure of operator, 1950:								
39	Full owners.....number..	578	542	254	49	297	151	84
40	Part owners.....number..	268	127	83	14	106	90	57
41	Managers.....number..	3	1	1	1	6	.....	.....
42	Tenants.....number..	72	30	20	13	26	27	5
Land in wholly and in partly irrigated farms:								
43	Wholly irrigated farms.....number 1950..	847	643	316	68	337	84	93
44	All land.....acres 1950..	430,169	218,772	121,405	39,218	329,170	36,695	109,273
45	Cropland harvested.....acres 1949..	47,410	27,307	14,436	3,012	23,293	4,392	1,996
46	Irrigated land.....acres 1949..	94,719	47,316	21,650	3,776	26,669	5,628	2,328
47	Partly irrigated farms.....number 1950..	74	57	42	9	98	185	53
48	All land.....acres 1950..	107,941	4,263	19,454	5,289	110,792	103,171	99,408
49	Cropland harvested, total.....farms reporting 1949..	39	18	26	6	84	180	50
50	.....acres 1949..	3,164	704	3,020	273	9,099	25,292	3,547
51	Irrigated land.....acres 1949..	6,487	1,281	2,567	281	7,556	7,449	1,925
52	Irrigated cropland harvested.....farms reporting 1949..	36	15	25	6	81	175	50
53	.....acres 1949..	2,323	542	2,087	130	6,086	7,132	1,388
Characteristics of wholly irrigated and nonirrigated farms:								
54	Wholly irrigated farms.....number 1950..	847	643	316	68	337	84	93
55	Average acreage per farm.....acres 1949..	507.9	340.2	384.2	576.7	976.8	436.8	1,175.0
56	Cropland harvested.....acres 1949..	56.0	42.5	45.7	44.3	69.1	52.3	21.5
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	0.2	0.3	3.9	0.1	1.0	0.7
58	Vegetables harvested for sale.....acres 1949..	(1)	0.2	(1)	0.6	0.7	0.4	0.1
59	Small grains (including sorghums).....acres 1949..	13.9	16.7	13.6	10.8	26.5	16.5	4.4
60	All hay.....acres 1949..	37.2	22.9	30.5	19.8	31.1	34.3	15.6
Farms by tenure of operator:								
61	Full owners and managers.....number 1950..	532	493	221	47	244	55	58
62	Part owners.....number 1950..	249	123	75	10	74	15	31
63	Tenants.....number 1950..	66	27	20	11	19	14	4
64	Value of land and buildings per farm.....dollars 1950..	17,754	10,778	15,489	24,638	24,033	6,329	16,715
65	Nonirrigated farms.....number 1950..	26	47	10	8	75	80	29
Average acreage per farm:								
66	All land.....acres 1949..	7,127.3	371.9	508.3	1,238.5	1,505.8	640.6	958.6
67	Cropland harvested.....acres 1949..	44.6	1.8	2.4	0.1	24.4	115.9	6.2
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	.....	.....	.....	.....	(1)	(1)	(1)
69	Vegetables harvested for sale.....acres 1949..	.....	.....	.....	.....	(1)	(1)	.....
70	Small grains (including sorghums).....acres 1949..	40.8	0.6	.....	.....	22.2	108.6	3.8
71	All hay.....acres 1949..	5.3	1.2	2.0	.....	1.3	6.7	2.3
Farms by tenure of operator:								
72	Full owners and managers.....number 1950..	13	39	3	5	56	53	21
73	Part owners.....number 1950..	9	5	6	2	11	16	7
74	Tenants.....number 1950..	4	3	1	1	8	11	1
75	Value of land and buildings per farm.....dollars 1950..	35,000	7,013	3,867	11,200	17,922	12,359	12,363
Irrigated farms and irrigated land by origin of water, 1949:								
Individually operated supply works and—								
76	No other irrigation enterprise.....farms reporting..	43	11	25	23	109	13	11
77	.....acres irrigated..	4,294	662	2,216	1,936	11,540	1,611	326
78	1 other irrigation enterprise.....farms reporting..	20	10	4	29	36	3	6
79	.....acres irrigated..	2,360	2,004	3,418	547	8,115	162	741
80	2 or more other irrigation enterprises.....farms reporting..	14	1	10	1	16	1	1
81	.....acres irrigated..	3,825	85	3,130	38	2,945	300	56
No individually operated supply works but—								
82	1 other irrigation enterprise.....farms reporting..	671	656	244	48	200	241	117
83	.....acres irrigated..	60,741	41,430	10,420	1,407	7,273	10,433	2,823
84	2 or more other irrigation enterprises.....farms reporting..	173	22	50	1	74	11	11
85	.....acres irrigated..	29,986	4,416	5,033	129	4,252	571	307

See footnote at end of County Table 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)		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
1	Irrigated farms.....number 1950..	1,041	226	201	227	1,961	150	1,313	871
2	.....acres 1945..	954	223	246	235	2,696	133	1,404	832
3	Proportion of all farms.....percent 1950..	91.9	90.8	99.5	93.4	75.6	42.5	83.6	93.0
4	Land in irrigated farms.....acres 1950..	454,172	197,298	70,197	508,115	363,151	286,357	474,277	144,982
5	.....average per farm, acres 1950..	436.3	873.0	349.2	2,238.4	185.2	1,909.0	361.2	166.4
6	Value of land and buildings.....average per farm, dollars 1950..	21,152	19,927	22,212	39,826	19,211	26,061	16,500	19,654
7	.....average per acre, dollars 1950..	51.83	25.90	87.03	13.83	120.67	15.70	43.60	115.10
8	Proportion of irrigated farms reporting value.....percent 1950..	95	80	94	81	85	112	93	96
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	89	71	68	105	73	97	98	99
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	1,015	218	194	223	1,817	148	1,228	840
11	.....acres..	99,799	13,556	11,866	51,931	51,351	17,135	70,565	43,257
12	Cropland used only for pasture.....acres..	31,994	2,457	1,532	3,323	9,440	6,531	21,622	20,342
13	Cropland not harvested and not pastured.....acres..	55,931	1,149	983	2,928	18,460	9,845	14,383	1,793
14	Woodland pastured.....acres..	9,595	12,773	9,192	6,083	10,291	62,006	64,239	26,402
15	Other pasture (not cropland and not woodland).....acres..	234,756	163,752	38,190	440,022	264,152	179,936	286,141	42,945
16	Land pastured, total.....farms reporting..	582	197	150	205	865	120	1,047	580
17	.....acres..	276,345	178,982	48,914	449,428	283,883	248,473	372,002	89,689
18	Irrigated land in farms.....acres 1949..	77,740	10,343	15,159	59,178	49,499	9,767	75,922	56,306
19	.....1944..	77,140	11,243	17,248	52,278	46,587	8,347	75,724	50,284
20	Land irrigated by sprinklers.....farms reporting 1949..	6	.....	.....	.....	.....	.....	.....	.....
21	.....acres 1949..	581	.....	.....	.....	.....	.....	.....	.....
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	1,006	216	194	219	1,802	147	1,223	840
23	.....acres..	66,830	8,838	11,636	48,906	39,324	8,120	58,711	42,559
24	Irrigated pasture.....farms reporting..	117	132	104	128	636	44	609	452
25	.....acres..	8,069	1,291	3,230	10,225	9,447	1,584	14,528	13,301
26	Irrigated wild grass pasture.....farms reporting..	44	31	60	104	277	16	260	213
27	.....acres..	6,952	303	2,291	9,565	5,961	500	10,201	8,244
28	Irrigated tame grass pasture.....farms reporting..	75	113	53	31	398	33	399	283
29	.....acres..	1,117	988	939	660	3,486	1,084	6,327	5,057
30	Irrigated cropland not harvested and not pastured.....farms reporting..	133	31	10	5	139	7	84	35
31	.....acres..	2,841	214	293	47	728	63	683	446
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	76	29	11	21	917	32	211	77
33	10-19 acres.....farms reporting..	124	26	9	9	346	23	132	71
34	20-29 acres.....farms reporting..	104	42	20	11	192	25	155	80
35	30-49 acres.....farms reporting..	199	66	51	23	249	27	270	205
36	50-99 acres.....farms reporting..	316	45	65	37	185	19	356	292
37	100-199 acres.....farms reporting..	168	16	32	50	59	17	141	115
38	200 acres and over.....farms reporting..	54	2	13	76	13	7	48	31
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	782	169	146	160	1,467	91	845	522
40	Part owners.....number..	207	38	28	55	349	50	374	251
41	Managers.....number..	10	8	.....	2	21	3	6	3
42	Tenants.....number..	42	11	27	10	124	6	88	95
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	711	132	186	163	1,656	88	963	807
44	All land.....acres 1950..	197,844	77,931	68,851	410,014	136,898	128,545	288,628	132,342
45	Cropland harvested.....acres 1949..	51,547	4,341	11,245	40,636	34,220	4,388	47,116	41,066
46	Irrigated land.....acres 1949..	61,266	5,070	14,643	49,948	42,799	4,976	61,508	52,960
47	Partly irrigated farms.....number 1950..	330	94	15	64	305	62	350	64
48	All land.....acres 1950..	256,328	119,367	1,346	98,101	226,253	157,812	185,649	12,640
49	Cropland harvested, total.....farms reporting 1949..	304	86	8	60	161	60	265	33
50	.....acres 1949..	48,252	9,215	621	11,295	17,131	12,747	23,449	2,191
51	Irrigated land.....acres 1949..	16,474	5,273	516	9,230	6,706	4,791	14,414	3,346
52	Irrigated cropland harvested.....farms reporting 1949..	295	84	8	56	148	59	260	33
53	.....acres 1949..	15,283	4,497	391	8,270	5,104	3,732	11,595	1,493
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	711	132	186	163	1,656	88	963	807
Average acreage per farm:									
55	All land.....acres 1949..	278.3	590.4	370.2	2,515.4	82.7	1,460.7	299.7	164.0
56	Cropland harvested.....acres 1949..	72.5	32.9	60.5	249.3	20.7	49.9	48.9	50.9
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	(¹)	(¹)	(¹)	0.8	0.1	(¹)	0.1
58	Vegetables harvested for sale.....acres 1949..	(¹)	1.6	.....	(¹)	1.4	0.1	1.0	0.4
59	Small grains (including sorghums).....acres 1949..	23.1	12.5	14.1	17.0	8.1	11.6	17.8	17.0
60	All hay.....acres 1949..	33.9	18.1	40.3	230.9	7.9	32.1	27.8	23.6
Farms by tenure of operator:									
61	Full owners and managers.....number 1950..	557	108	133	120	1,261	55	620	476
62	Part owners.....number 1950..	119	18	27	36	283	28	270	238
63	Tenants.....number 1950..	35	6	26	7	112	5	73	93
64	Value of land and buildings per farm.....dollars 1950..	21,025	16,973	22,212	39,133	18,509	20,527	16,304	20,014
65	Nonirrigated farms.....number 1950..	92	23	1	16	634	203	257	65
Average acreage per farm:									
66	All land.....acres 1949..	402.7	585.5	420.0	3,710.9	143.1	891.5	351.3	155.9
67	Cropland harvested.....acres 1949..	42.0	7.9	.....	53.2	10.4	190.2	7.3	9.2
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	.....	.....	.....	.....	0.1	0.1	(¹)	(¹)
69	Vegetables harvested for sale.....acres 1949..	.....	.....	.....	.....	(¹)	(¹)	(¹)	(¹)
70	Small grains (including sorghums).....acres 1949..	41.6	4.8	.....	41.9	9.0	137.3	3.5	6.1
71	All hay.....acres 1949..	0.3	2.6	.....	9.4	0.4	1.3	3.4	2.3
Farms by tenure of operator:									
72	Full owners and managers.....number 1950..	85	17	.....	13	575	108	211	54
73	Part owners.....number 1950..	5	1	.....	2	30	70	25	6
74	Tenants.....number 1950..	2	5	1	1	29	25	21	5
75	Value of land and buildings per farm.....dollars 1950..	14,798	20,659	.....	14,358	10,418	24,485	5,536	8,013
Irrigated farms and irrigated land by origin of water, 1949:									
Individually operated supply works and—									
76	No other irrigation enterprise.....farms reporting..	25	15	4	8	17	29	11	6
77	.....acres irrigated..	1,805	1,063	608	11,517	4,093	1,280	473	435
78	1 other irrigation enterprise.....farms reporting..	24	12	5	6	14	8	42	17
79	.....acres irrigated..	4,708	675	799	2,088	308	1,998	2,991	1,896
80	2 or more other irrigation enterprises.....farms reporting..	4	4	.....	1	6	1	15	26
81	.....acres irrigated..	3,075	259	.....	2,615	223	226	1,795	3,637
No individually operated supply works but—									
82	1 other irrigation enterprise.....farms reporting..	841	149	140	157	1,585	109	945	458
83	.....acres irrigated..	48,422	5,323	8,664	23,070	30,396	4,001	41,364	20,740
84	2 or more other irrigation enterprises.....farms reporting..	144	46	52	55	339	3	300	364
85	.....acres irrigated..	19,730	3,023	5,088	19,888	14,479	2,262	29,299	29,598

See footnote at end of County Table 1.

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)		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
1	Irrigated farms.....number 1950..	448	277	886	2,912	387	649	259	1,422
2	.....acres 1945..	451	286	903	3,687	451	633	245	1,812
3	Proportion of all farms.....percent 1950..	93.3	79.4	93.0	91.2	98.2	91.9	89.9	91.6
4	Land in irrigated farms.....acres 1950..	322,571	182,181	292,535	424,300	195,046	269,228	63,578	440,117
5	.....average per farm, acres 1950..	720.0	657.7	330.2	145.8	504.0	399.4	245.5	309.5
6	Value of land and buildings.....average per farm, dollars 1950..	20,994	17,762	13,599	17,602	21,183	18,810	11,875	18,870
7	.....average per acre, dollars 1950..	31.53	25.52	41.10	153.34	49.10	52.76	91.77	58.93
8	Proportion of irrigated farms reporting value.....percent 1950..	87	92	87	95	99	86	106	94
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	81	97	87	75	65	74	56	97
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	419	273	823	2,781	366	629	246	1,366
11	.....acres..	27,306	17,772	38,667	92,777	16,806	21,751	11,321	46,332
12	Cropland used only for pasture.....acres..	13,077	7,021	13,394	11,388	5,361	18,886	2,306	6,674
13	Cropland not harvested and not pastured.....acres..	1,763	6,576	5,951	19,221	284	12,472	1,247	8,970
14	Woodland pastured.....acres..	97,881	7,600	35,017	51,142	133,155	4,412	9,286	10,205
15	Other pasture (not cropland and not woodland).....acres..	175,354	138,914	177,567	237,123	33,209	196,917	30,532	358,203
16	Land pastured, total.....farms reporting..	416	208	816	1,658	343	425	211	1,052
17	.....acres..	286,312	153,535	225,978	299,653	171,725	220,215	42,124	375,082
18	Irrigated land in farms.....acres 1949..	34,456	12,111	66,809	97,683	22,909	17,898	15,575	45,611
19	.....1944..	31,245	11,246	72,913	103,669	23,984	13,408	15,380	50,418
20	Land irrigated by sprinklers.....farms reporting 1949..	1	.....	.....	7	.....	1	.....	4
21	.....acres 1949..	60	.....	.....	370	.....	20	.....	57
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	419	272	819	2,774	365	625	246	1,350
23	.....acres..	25,200	9,624	36,894	79,460	16,616	14,466	10,936	34,712
24	Irrigated pasture.....farms reporting..	324	36	659	1,082	295	169	659	9,820
25	.....acres..	9,054	2,447	29,067	16,099	6,210	2,928	4,410	9,820
26	Irrigated wild grass pasture.....farms reporting..	187	18	327	520	64	77	49	321
27	.....acres..	6,329	2,011	15,598	10,659	1,858	1,511	2,303	5,279
28	Irrigated tame grass pasture.....farms reporting..	163	21	431	623	247	103	69	424
29	.....acres..	2,725	436	13,469	5,440	4,352	1,417	2,107	4,541
30	Irrigated cropland not harvested and not pastured.....farms reporting..	20	8	78	397	12	84	18	110
31	.....acres..	202	40	848	2,124	83	504	229	1,079
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	40	89	108	934	30	204	29	415
33	10-19 acres.....farms reporting..	48	54	105	548	54	159	24	262
34	20-29 acres.....farms reporting..	42	40	63	342	39	98	25	220
35	30-49 acres.....farms reporting..	82	34	158	486	88	93	68	272
36	50-99 acres.....farms reporting..	132	35	239	447	123	71	82	197
37	100-199 acres.....farms reporting..	58	12	152	121	47	17	19	45
38	200 acres and over.....farms reporting..	38	13	61	34	6	7	12	11
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	316	179	557	2,115	288	462	204	1,030
40	Part owners.....number..	91	71	256	635	75	147	42	276
41	Managers.....number..	13	2	.....	23	5	2	.....	9
42	Tenants.....number..	28	25	73	139	19	38	13	107
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	331	151	791	2,468	350	541	232	1,100
44	All land.....acres 1950..	151,175	50,297	274,408	266,897	175,071	177,843	59,989	150,178
45	Cropland harvested.....acres 1949..	19,081	5,397	35,815	67,378	14,984	12,030	10,327	25,866
46	Irrigated land.....acres 1949..	25,405	7,046	63,543	83,214	20,493	14,563	14,719	34,005
47	Partly irrigated farms.....number 1950..	117	126	95	444	37	108	27	322
48	All land.....acres 1950..	171,396	131,884	18,127	157,403	19,975	91,385	3,589	289,939
49	Cropland harvested, total.....farms reporting 1949..	88	122	32	313	16	88	14	266
50	.....acres 1949..	8,225	11,775	2,552	25,399	1,822	9,721	994	20,466
51	Irrigated land.....acres 1949..	9,051	5,065	3,266	14,469	2,416	3,335	856	11,606
52	Irrigated cropland harvested.....farms reporting 1949..	88	121	28	306	15	84	14	250
53	.....acres 1949..	6,119	4,227	1,079	12,082	1,632	2,436	609	8,846
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	331	151	791	2,468	350	541	232	1,100
55	Average acreage per farm: All land.....acres 1949..	456.7	333.1	345.9	108.1	500.2	328.7	258.6	136.5
56	Cropland harvested.....acres 1949..	57.6	35.7	45.3	27.3	42.8	22.2	44.5	23.5
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	.....	0.1	0.1	3.1	(¹)	2.8	0.6	1.2
58	Vegetables harvested for sale.....acres 1949..	0.4	(¹)	0.1	2.4	0.3	0.3	(¹)	2.5
59	Small grains (including sorghums).....acres 1949..	8.5	9.1	14.1	11.5	8.1	5.7	14.6	5.9
60	All hay.....acres 1949..	49.3	26.1	27.6	10.8	34.1	10.5	28.4	9.3
Farms by tenure of operator:									
61	Full owners and managers.....number 1950..	249	110	489	1,843	261	391	180	812
62	Part owners.....number 1950..	61	27	235	507	71	117	39	200
63	Tenants.....number 1950..	21	14	67	118	18	33	13	88
64	Value of land and buildings per farm.....dollars 1950..	19,018	8,729	13,865	17,485	21,923	18,754	11,320	17,426
65	Nonirrigated farms.....number 1950..	32	72	67	279	7	57	29	130
66	Average acreage per farm: All land.....acres 1949..	970.0	422.0	11,092.1	527.1	3,213.4	1,292.1	746.7	383.1
67	Cropland harvested.....acres 1949..	4.5	40.7	6.1	18.6	9.9	16.5	6.0	13.6
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	.....	0.1	.....	0.1	.....	0.1	(¹)	0.2
69	Vegetables harvested for sale.....acres 1949..	.....	.....	.....	0.4	.....	(¹)	.....	0.1
70	Small grains (including sorghums).....acres 1949..	4.2	37.2	1.8	13.6	.....	14.1	1.6	4.2
71	All hay.....acres 1949..	0.3	3.4	2.8	3.6	5.0	3.1	4.4	8.6
Farms by tenure of operator:									
72	Full owners and managers.....number 1950..	21	54	48	233	2	37	26	103
73	Part owners.....number 1950..	5	11	10	23	3	13	1	16
74	Tenants.....number 1950..	6	7	9	23	2	7	2	11
75	Value of land and buildings per farm.....dollars 1950..	16,624	7,012	10,307	11,189	13,688	10,807	11,058	13,169
Irrigated farms and irrigated land by origin of water, 1949:									
76	Individually operated supply works and—								
77	No other irrigation enterprise.....farms reporting..	39	55	61	147	11	63	5	35
78	.....acres irrigated..	4,971	3,588	6,351	6,133	2,455	2,681	1,350	1,148
79	1 other irrigation enterprise.....farms reporting..	28	25	27	14	3	6	6	72
80	.....acres irrigated..	2,871	2,202	3,515	7,955	809	2,216	940	3,669
81	2 or more other irrigation enterprises.....farms reporting..	25	1	8	43	7	6	4	17
82	.....acres irrigated..	4,795	51	1,620	3,893	754	945	1,258	2,822
83	No individually operated supply works but—								
84	1 other irrigation enterprise.....farms reporting..	192	171	662	1,957	195	463	182	1,067
85	.....acres irrigated..	9,954	4,373	37,839	50,562	7,726	9,402	8,243	27,977
86	2 or more other irrigation enterprises.....farms reporting..	164	25	128	619	160	79	62	231
87	.....acres irrigated..	11,865	1,887	17,484	29,140	11,165	2,684	3,784	9,995

¹Less than 0.05.

IRRIGATION OF AGRICULTURAL LANDS

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	Box Elder	Cache	Carbon	Daggett	Davis
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	3,165	128	194	165	30	16	193
2	..... 1940..	2,401	99	142	116	52	20	135
3	Intercounty enterprises.....enterprises 1950..	49	.....	6	9	2	2	4
4	Irrigated farms ¹.....farms 1950..	21,126	315	1,432	1,764	288	50	1,141
5	Average per enterprise.....farms 1950..	6.7	2.5	7.4	10.7	9.6	3.1	5.9
6	Farms irrigated direct per enterprise ².....farms 1950..	9.3	4.6	8.4	15.2	11.4	3.4	8.2
7	Irrigated land ¹.....acres 1949..	1,166,972	24,414	88,990	77,071	12,248	9,344	38,995
8	.....acres 1939..	1,176,116	20,584	73,406	82,160	10,529	10,691	36,495
9	Average per irrigated farm.....acres 1949..	55.2	77.5	62.1	43.7	42.5	186.9	34.2
10	Average per enterprise.....acres 1949..	369	191	459	467	408	584	202
11	Average acreage irrigated direct per enterprise ².....acres 1949..	390	194	463	489	437	594	223
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	2,107	86	127	84	19	13	144
13	.....acres irrigated..	151,688	5,155	8,563	4,601	2,469	3,517	5,242
Mutual:								
14	Unincorporated.....enterprises..	406	25	35	27	5	.....	10
15	.....acres irrigated..	100,181	4,528	12,195	11,721	932	.....	3,603
16	Incorporated.....enterprises..	634	16	31	54	5	3	38
17	.....acres irrigated..	874,588	15,122	28,247	64,412	9,719	5,981	33,944
18	Commercial.....enterprises..	2	.....	1	.....	.....	.....	.....
19	.....acres irrigated..	(³)	.....	(³)	.....	.....	.....	.....
20	District.....enterprises..	5	.....	.....	.....	.....	.....	.....
21	.....acres irrigated..	11,079	.....	.....	.....	(³)	.....	(³)
22	U. S. Bureau of Reclamation ⁴.....enterprises..	1	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	3	.....	.....	.....	.....	.....	.....
25	.....acres irrigated..	54,452	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	7	1	.....	.....	.....	.....	.....
29	.....acres irrigated..	2,179	(³)	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	2,492	59	117	110	29	14	164
31	.....acres irrigated..	1,051,757	20,257	72,442	45,528	13,070	8,633	39,703
32	Pumped only.....enterprises reporting..	168	.....	10	32	.....	.....	3
33	.....acres irrigated..	19,203	.....	2,355	3,761	.....	.....	170
34	Gravity and pumped.....enterprises reporting..	91	.....	27	18	.....	2	7
35	.....acres irrigated..	99,589	.....	13,936	27,777	.....	865	2,803
36	Ground water only (pumped from wells).....enterprises reporting..	331	69	37	.....	.....	.....	10
37	.....acres irrigated..	27,051	4,627	714	.....	.....	.....	59
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	83	.....	3	5	1	.....	9
39	.....acres irrigated..	37,338	.....	329	3,668	50	.....	222
Stored water:								
40	None stored.....enterprises reporting..	2,570	116	143	143	15	12	147
41	.....acres irrigated..	580,874	12,769	22,935	51,577	2,056	3,032	10,217
42	Part stored.....enterprises reporting..	405	8	39	14	11	4	35
43	.....acres irrigated..	564,072	9,834	63,741	24,355	10,764	6,466	32,423
44	All stored.....enterprises reporting..	190	4	12	8	4	.....	11
45	.....acres irrigated..	89,992	2,281	3,100	4,802	300	.....	317
Sources of surface water, 1949:⁵								
46	Streams (and lakes).....enterprises reporting..	1,817	54	83	89	30	16	73
47	.....acres irrigated..	1,133,694	19,565	78,024	72,267	13,120	9,498	39,308
48	Springs.....enterprises reporting..	689	5	76	56	4	6	22
49	.....acres irrigated..	170,491	724	18,089	13,755	2,864	1,719	1,070
50	Flowing wells.....enterprises reporting..	533	2	18	28	.....	.....	96
51	.....acres irrigated..	64,034	773	665	7,234	.....	.....	5,487
52	Drainage water.....enterprises reporting..	230	3	12	18	3	1	20
53	.....acres irrigated..	80,888	30	1,767	2,547	700	1,052	15,190
54	Sewage.....enterprises reporting..	7	.....	.....	.....	.....	.....	1
55	.....acres irrigated..	161	.....	.....	.....	.....	.....	40
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	435	.....	39	37	2	.....	61
59	Area supplied primary irrigation.....acres 1949..	384,172	.....	58,766	47,822	170	.....	31,816
60	Area artificially drained.....acres 1949..	151,965	.....	18,830	11,947	97	.....	14,633
61	.....acres 1939..	85,157	.....	13,083	4,585	.....	.....	9,906
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	415	13	34	57	8	2	40
63	Area supplied primary irrigation.....acres 1949..	425,428	2,085	55,867	52,531	7,570	1,702	23,327
64	Area in need of drainage.....acres 1949..	89,070	272	6,147	12,252	2,260	200	4,413
65	.....acres 1939..	28,418	.....	12,062	3,140	(*)	.....	643

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

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)		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	110	34	90	41	209	33	35
2	..... 1940..	107	40	82	76	136	43	28
3	Intercounty enterprises.....enterprises 1950..	5	2	2	1	2	1	.....
4	Irrigated farms ¹ farms 1950..	921	700	358	77	435	269	145
5	Average per enterprise..... farms 1950..	8.4	20.6	4.0	1.9	2.1	8.2	4.1
6	Farms irrigated direct per enterprise ² farms 1950..	11.0	22.4	5.6	2.3	3.1	8.8	4.6
7	Irrigated land ¹ acres 1949..	102,618	48,994	26,623	5,059	34,346	13,356	4,290
8	..... acres 1939..	98,800	69,957	24,232	5,567	23,537	17,998	3,431
9	Average per irrigated farm..... acres 1949..	111.4	70.0	74.4	65.7	79.0	49.7	29.4
10	Average per enterprise..... acres 1949..	933	1,441	296	123	164	405	119
11	Average acreage irrigated direct per enterprise ² acres 1949..	941	1,509	299	140	208	411	119
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	76	23	61	35	172	17	22
13	..... acres irrigated..	6,604	2,174	5,288	3,578	20,580	1,943	1,170
Mutual:								
14	Unincorporated.....enterprises..	13	3	11	4	16	6	8
15	..... acres irrigated..	5,060	997	1,661	525	4,535	740	948
16	Incorporated.....enterprises..	20	8	18	2	20	10	6
17	..... acres irrigated..	46,230	48,144	19,932	(3)	18,404	10,881	2,172
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....
19	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	.....	.....	.....	.....	.....	.....	.....
21	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....
22	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....
23	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	1	.....	.....	.....	.....	.....	.....
25	..... acres irrigated..	45,575	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....
27	..... acres irrigated..	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	1	.....	.....
29	..... acres irrigated..	.....	.....	.....	.....	(3)	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	108	28	90	32	43	29	34
31	..... acres irrigated..	103,346	50,414	26,881	4,988	20,000	13,433	4,224
32	Pumped only.....enterprises reporting..	2	6	.....	7	.....	1	1
33	..... acres irrigated..	123	901	.....	392	.....	80	41
34	Gravity and pumped.....enterprises reporting..	.....	.....	.....	1	.....	.....	1
35	..... acres irrigated..	.....	.....	.....	350	.....	.....	25
36	Ground water only (pumped from wells).....enterprises reporting..	.....	.....	.....	.....	137	3	.....
37	..... acres irrigated..	.....	.....	.....	.....	17,147	51	.....
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	.....	.....	.....	1	29	.....	.....
39	..... acres irrigated..	.....	.....	.....	20	6,404	.....	.....
Stored water:								
40	None stored.....enterprises reporting..	100	21	73	36	167	26	30
41	..... acres irrigated..	70,077	3,299	16,085	4,493	35,312	11,598	3,988
42	Part stored.....enterprises reporting..	10	9	9	3	18	5	2
43	..... acres irrigated..	33,392	47,466	10,155	751	6,121	1,053	180
44	All stored.....enterprises reporting..	4	8	2	2	24	2	4
45	..... acres irrigated..	.....	550	641	506	2,118	913	122
Sources of surface water, 1949: ⁵								
46	Streams (and lakes).....enterprises reporting..	99	28	80	36	53	21	26
47	..... acres irrigated..	102,640	50,797	26,269	5,425	25,048	12,408	3,913
48	Springs.....enterprises reporting..	15	2	16	7	12	10	11
49	..... acres irrigated..	4,581	675	1,748	634	1,221	2,189	418
50	Flowing wells.....enterprises reporting..	.....	1	.....	.....	9	4	.....
51	..... acres irrigated..	.....	18	.....	.....	496	169	.....
52	Drainage water.....enterprises reporting..	5	4	5	.....	.....	.....	.....
53	..... acres irrigated..	2,503	490	872	.....	.....	.....	.....
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..	2	4	2	1	.....	1	2
59	Area supplied primary irrigation..... acres 1949..	27,499	1,194	1,106	81	.....	725	436
60	Area artificially drained..... acres 1949..	8,221	1,169	155	81	.....	400	50
61	..... acres 1939..	3,062	.....	.....	.....	.....	.....	.....
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	9	10	7	2	4	1	4
63	Area supplied primary irrigation..... acres 1949..	58,863	42,147	1,431	65	326	725	497
64	Area in need of drainage..... acres 1949..	7,457	24,455	110	22	273	400	118
65	..... acres 1939..	5,098	(*)	.....	.....	.....	.....	.....

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)		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	94	71	38	45	105	47	142	100
2	.....enterprises 1940..	74	51	31	32	94	34	91	115
3	Intercounty enterprises.....enterprises 1950..	1	1	5	4	4	.....	2	4
4	Irrigated farms ¹.....farms 1950..	1,041	226	201	227	1,961	150	1,313	871
5	Average per enterprise.....farms 1950..	11.1	3.2	5.3	5.0	18.7	3.2	9.2	8.7
6	Farms irrigated direct per enterprise ².....farms 1950..	13.6	4.6	8.4	6.8	30.7	3.7	13.8	14.2
7	Irrigated land ¹.....acres 1949..	78,367	9,624	17,929	54,676	54,674	9,208	78,532	59,020
8	.....acres 1939..	72,897	9,810	15,720	43,995	72,668	7,450	80,336	57,186
9	Average per irrigated farm.....acres 1949..	75.3	42.6	89.2	240.9	27.9	61.4	59.8	67.8
10	Average per enterprise.....acres 1949..	834	136	472	1,215	521	196	553	590
11	Average acreage irrigated direct per enterprise ².....acres 1949..	847	138	487	1,233	582	201	583	614
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	56	33	13	20	41	39	69	52
13	.....acres irrigated..	3,599	1,624	1,286	12,207	2,363	2,539	2,106	5,392
Mutual:									
14	Unincorporated.....enterprises..	23	23	12	6	12	3	21	9
15	.....acres irrigated..	8,568	1,979	4,378	3,265	1,796	982	6,664	1,409
16	Incorporated.....enterprises..	15	15	13	19	51	3	52	39
17	.....acres irrigated..	67,478	6,181	12,860	40,005	56,992	5,796	74,050	54,614
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	1	.....	.....
19	.....acres irrigated..	.....	.....	.....	.....	.....	(3)	.....	.....
20	District.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
21	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
22	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	.....	1	.....	.....
25	.....acres irrigated..	.....	.....	.....	.....	.....	152	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	1	.....	.....	.....
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	78	67	36	36	70	44	123	96
31	.....acres irrigated..	66,969	9,732	13,615	53,317	17,614	9,362	70,853	60,741
32	Pumped only.....enterprises reporting..	3	3	1	3	12	1	.....	1
33	.....acres irrigated..	112	45	28	580	4,927	90	.....	8
34	Gravity and pumped.....enterprises reporting..	1	1	.....	1	17	.....	.....	.....
35	.....acres irrigated..	11,800	7	.....	32	37,424	.....	.....	.....
36	Ground water only (pumped from wells).....enterprises reporting..	11	.....	.....	1	2	1	14	.....
37	.....acres irrigated..	534	.....	.....	25	19	4	1,245	.....
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	1	.....	1	4	4	1	5	3
39	.....acres irrigated..	230	.....	4,861	1,523	1,167	13	10,722	666
Stored water:									
40	None stored.....enterprises reporting..	78	48	32	36	74	30	122	74
41	.....acres irrigated..	27,100	3,385	15,599	37,099	12,150	8,455	66,771	20,766
42	Part stored.....enterprises reporting..	5	23	4	6	28	8	6	22
43	.....acres irrigated..	10,769	6,399	2,878	18,098	45,720	627	4,579	35,554
44	All stored.....enterprises reporting..	11	.....	2	3	3	9	14	4
45	.....acres irrigated..	41,776	.....	47	280	3,281	387	11,470	5,095
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	36	68	34	39	73	43	74	60
47	.....acres irrigated..	72,271	9,610	18,170	54,790	60,164	9,408	79,505	57,022
48	Springs.....enterprises reporting..	15	9	3	9	15	5	53	16
49	.....acres irrigated..	7,180	1,106	1,033	3,345	7,490	2,851	11,690	14,227
50	Flowing wells.....enterprises reporting..	36	.....	2	1	20	2	13	32
51	.....acres irrigated..	11,296	.....	300	30	383	27	7,014	1,930
52	Drainage water.....enterprises reporting..	1	1	.....	5	10	.....	6	2
53	.....acres irrigated..	30	86	.....	15,162	898	.....	150	125
54	Sewage.....enterprises reporting..	.....	.....	.....	.....	1	1	.....	.....
55	.....acres irrigated..	.....	.....	.....	.....	25	40	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	5	.....	2	4	17	.....	4	27
59	Area supplied primary irrigation.....acres 1949..	43,982	.....	1,274	6,752	23,803	.....	1,490	25,138
60	Area artificially drained.....acres 1949..	40,744	.....	230	110	7,489	.....	293	10,060
61	.....acres 1939..	26,000	.....	.....	(*)	29	.....	437	6,149
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	2	3	4	13	10	.....	7	15
63	Area supplied primary irrigation.....acres 1949..	4,692	729	2,403	29,500	14,155	.....	8,115	22,883
64	Area in need of drainage.....acres 1949..	1,050	49	270	2,485	1,944	.....	1,022	3,606
65	.....acres 1939..	.....	.....	.....	(*)	92	(*)	164	784

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

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)		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	178	103	127	415	60	156	31	207
2	.....enterprises 1940..	107	72	100	243	51	115	18	126
3	Intercounty enterprises.....enterprises 1950..	3	1	5	6	2	2	1	5
4	Irrigated farms ¹.....farms 1950..	448	277	886	2,912	387	649	259	1,422
5	Average per enterprise.....farms 1950..	2.5	2.7	7.0	7.0	6.4	4.2	8.4	6.9
6	Farms irrigated direct per enterprise ².....farms 1950..	4.4	3.3	9.0	10.1	10.7	5.2	9.9	9.7
7	Irrigated land ¹.....acres 1949..	32,692	13,987	68,473	103,807	23,812	18,090	15,073	42,660
8	.....acres 1939..	27,031	9,445	77,344	119,230	24,659	16,947	16,267	47,744
9	Average per irrigated farm.....acres 1949..	73.0	50.5	77.3	35.6	61.5	27.9	58.2	30.0
10	Average per enterprise.....acres 1949..	184	136	539	250	397	116	486	206
11	Average acreage irrigated direct per enterprise ².....acres 1949..	188	138	559	294	406	122	491	229
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	102	81	98	345	31	108	16	129
13	.....acres irrigated..	7,989	6,064	9,742	12,265	3,180	4,831	2,332	3,285
Mutual:									
14	Unincorporated.....enterprises..	40	11	7	13	10	14	8	32
15	.....acres irrigated..	8,789	1,440	1,361	1,395	1,334	981	1,155	7,240
16	Incorporated.....enterprises..	36	11	20	54	18	31	7	45
17	.....acres irrigated..	16,604	6,699	43,979	103,460	19,843	13,043	11,740	36,409
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
19	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	.....	.....	(³) 1	(³) 1	.....	.....	.....	(³) 1
21	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
22	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	1	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	1	.....	.....	1	.....	.....
25	.....acres irrigated..	.....	.....	8,681	.....	.....	44	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28	City, J.....enterprises..	.....	.....	.....	(³) 2	.....	(³) 2	.....	.....
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	175	91	109	395	60	121	30	135
31	.....acres irrigated..	33,257	13,061	69,655	113,471	24,357	16,034	15,146	41,654
32	Pumped only.....enterprises reporting..	1	.....	11	9	.....	4	.....	58
33	.....acres irrigated..	10	.....	850	2,274	.....	370	.....	2,086
34	Gravity and pumped.....enterprises reporting..	2	2	5	3	.....	.....	.....	4
35	.....acres irrigated..	115	252	368	174	.....	.....	.....	3,661
36	Ground water only (pumped from wells).....enterprises reporting..	.....	3	.....	5	.....	28	1	9
37	.....acres irrigated..	.....	53	.....	225	.....	2,178	81	89
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	.....	7	2	3	.....	3	.....	1
39	.....acres irrigated..	.....	837	170	6,048	.....	385	.....	3
Stored water:									
40	None stored.....enterprises reporting..	135	82	112	368	48	142	25	148
41	.....acres irrigated..	16,309	11,106	30,305	35,087	14,178	15,793	5,843	13,490
42	Part stored.....enterprises reporting..	35	9	13	35	9	7	4	40
43	.....acres irrigated..	16,813	2,330	40,198	79,693	10,179	3,004	9,280	31,250
44	All stored.....enterprises reporting..	8	12	2	12	3	7	2	19
45	.....acres irrigated..	260	767	540	7,412	.....	170	104	2,753
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	163	23	91	163	45	91	23	134
47	.....acres irrigated..	32,904	7,545	68,286	106,816	23,913	15,590	14,770	44,648
48	Springs.....enterprises reporting..	33	38	21	104	32	42	9	47
49	.....acres irrigated..	8,406	6,601	2,782	35,774	12,394	1,908	952	3,065
50	Flowing wells.....enterprises reporting..	.....	49	3	196	.....	.....	3	19
51	.....acres irrigated..	.....	2,282	118	16,640	.....	.....	697	8,475
52	Drainage water.....enterprises reporting..	7	6	26	62	3	2	.....	30
53	.....acres irrigated..	177	750	11,852	24,051	178	84	.....	2,194
54	Sewage.....enterprises reporting..	.....	.....	.....	2	.....	2	.....	.....
55	.....acres irrigated..	.....	.....	.....	28	.....	28	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	5	12	5	162	.....	3	1	40
59	Area supplied primary irrigation.....acres 1949..	1,103	1,961	18,441	56,351	.....	3,516	7,657	23,089
60	Area artificially drained.....acres 1949..	201	533	650	20,549	.....	190	100	15,233
61	.....acres 1939..	.....	(*)	.....	14,279	.....	(*)	.....	4,993
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	21	6	23	73	2	9	5	37
63	Area supplied primary irrigation.....acres 1949..	6,479	569	28,641	18,446	170	4,090	9,836	27,584
64	Area in need of drainage.....acres 1949..	834	111	4,130	4,790	35	483	810	9,072
65	.....acres 1939..	(*)	.....	(*)	1,899	.....	(*)	.....	2,821

* 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 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.

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)		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	46	59	30	32	48	31	82	52
2	dams 1950..	71	95	42	100	79	49	119	72
3	1940..	36	59	35	90	96	44	108	54
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	36	10	8	5	43	4	27	27
5	Timber.....dams 1950..	3	5	12	5	2	3	32	6
6	Earth and rock.....dams 1950..	11	43	22	58	14	32	59	38
7	Other, mixed, and not reported.....dams 1950..	1	37	.....	32	20	10	1	1
8	Reservoirs.....enterprises reporting 1950..	13	4	6	8	8	18	15	10
9	reservoirs 1950..	15	4	7	11	11	22	17	13
10	1940..	34	6	4	11	16	2	22	14
11	Reservoirs for which capacity was reported.....reservoirs 1950..	15	4	7	10	11	18	16	13
12	total capacity, acre-feet 1950..	23,161	28,125	133,481	11,265	1,279	331	29,727	49,685
13	1940..	42,559	28,187	123,590	2,254	1,632	(*)	32,117	10,623
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	9	3	2	3	5	17	10	3
15	100-999 acre-feet.....reservoirs 1950..	2	.....	3	6	6	1	1	3
16	1,000 acre-feet and over.....reservoirs 1950..	4	1	2	1	.....	.....	5	7
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	.....	1	.....	2	1	.....	.....	.....
18	Earth and rock.....dams 1950..	15	3	7	8	6	22	16	13
19	Other, mixed, and not reported.....dams 1950..	1	.....	.....	1	4	.....	1	.....
20	Canals and ditches.....enterprises reporting 1950..	49	59	29	40	71	29	100	53
21	total length, miles 1950..	585	150	131	241	497	122	589	280
22	1940..	387	102	113	256	555	91	443	278
23	Pipelines and siphons ¹.....enterprises reporting 1950..	2	5	1	4	9	.....	1	1
24	total length, miles 1950..	4	.....	(2)	.....	12	.....	(2)	2
25	1940..	7	(2)	.....	.....	20	.....	3	6
26	Tunnels.....enterprises reporting 1950..	2	.....	.....	.....	1	1	6	1
27	total length, feet 1950..	2,150	.....	.....	.....	200	400	16,010	200
28	Flowing wells.....enterprises reporting 1950..	36	.....	.....	1	20	2	12	32
29	wells 1950..	98	.....	23	.....	63	2	32	184
30	1940..	56	.....	.....	.....	28	.....	13	290
31	Pumped wells.....enterprises reporting 1950..	12	.....	1	5	6	2	19	3
32	wells 1950..	14	.....	1	5	7	2	20	3
33	1940..	2	.....	1	.....	1	.....	5	5
34	Wells for which pumping lift was reported.....wells 1949..	10	.....	1	5	3	2	19	3
35	Average pumping lift.....feet 1949..	40	.....	12	60	40	55	66	15
36	1939..	(*)	.....	(*)	.....	(*)	.....	47	32
37	Irrigation pumps.....enterprises reporting 1950..	15	4	2	9	17	3	18	5
38	pumps 1950..	17	4	2	14	26	4	20	5
39	1940..	3	.....	1	6	13	.....	5	6
40	Electric motors used for pumping.....enterprises reporting 1950..	.....	2	.....	11	12	1	17	2
41	electric motors 1950..	.....	2	.....	11	19	.....	19	2
42	Other motors and engines used for pumping.....enterprises reporting 1950..	14	2	2	3	6	2	2	3
43	other motors and engines 1950..	16	2	2	3	7	3	2	3
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	8	1	2	1	1	12	7	2
45	acres irrigated..	3,071	215	341	267	250	1,546	3,197	435
46	Water delivered before and after July 1.....enterprises reporting..	81	68	35	41	95	33	128	85
47	acres irrigated..	76,421	9,437	18,172	54,618	59,479	7,771	79,333	60,450
48	Water delivered only after July 1.....enterprises reporting..	1	1	.....	1	2	.....	2	.....
49	acres irrigated..	20	31	.....	75	1,337	.....	199	.....
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	2,902,475	355,049	95,828	280,698	2,277,415	226,575	1,574,262	1,414,572
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	33	15	22	27	31	23	57	24
52	Amount.....dollars 1950..	174,703	22,610	65,686	77,461	95,367	62,850	347,813	113,660
53	Area irrigated direct.....acres 1949..	48,291	2,665	14,180	40,741	25,010	5,899	61,869	29,587
54	Total capital investment Jan. 1, 1950.....dollars 1950..	3,077,178	377,659	161,514	358,159	2,372,782	289,425	1,922,075	1,528,232
Indebtedness: ³									
(Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	3	16	3	.....	6	1	18	6
56	Amount.....dollars 1950..	7,800	82,784	20,095	.....	79,872	34,500	390,718	25,400
57	1940..	183,900	239,316	3,674	725	67,166	16,413	456,731	127,824
58	Area irrigated direct.....acres 1949..	4,935	5,709	2,406	.....	6,881	2,089	39,029	15,203
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..	.....	.....	.....	.....	16,247	.....	146	.....
61	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	925	.....	1,090	.....

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

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)		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
All ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	151	53	108	230	51	111	24	84
2	.....dams 1950..	314	110	213	398	129	156	34	111
3	.....dams 1940..	102	46	93	158	43	131	20	56
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	49	23	21	105	24	25	8	37
5	Timber.....dams 1950..	93	26	14	32	23	10	3	12
6	Earth and rock.....dams 1950..	160	55	143	229	75	112	23	50
7	Other, mixed, and not reported.....dams 1950..	12	6	35	32	7	9	.....	12
Reservoirs.....enterprises reporting 1950..									
8	.....reservoirs 1950..	21	19	8	16	7	14	6	16
9	.....reservoirs 1940..	36	35	21	24	27	25	12	16
10	.....reservoirs 1940..	38	36	13	16	25	33	12	5
11	Reservoirs for which capacity was reported.....reservoirs 1950..	35	35	21	24	27	25	12	15
12	.....total capacity, acre-feet 1950..	88,077	665	25,732	851,636	444,663	14,286	5,546	43,798
13	.....total capacity, acre-feet 1940..	87,566	44	18,074	862,089	297,171	13,275	14,488	43,569
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	20	31	5	19	4	19	5	13
15	100-999 acre-feet.....reservoirs 1950..	8	4	6	4	17	5	5	1
16	1,000 acre-feet and over.....reservoirs 1950..	7	.....	10	1	6	1	2	1
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	1	1	.....	2	.....	3	1	3
18	Earth and rock.....dams 1950..	31	34	21	22	27	21	11	13
19	Other, mixed, and not reported.....dams 1950..	4	.....	.....	.....	.....	1	.....	.....
Canals and ditches.....enterprises reporting 1950..									
20	.....total length, miles 1950..	136	44	105	156	38	103	27	122
21	.....total length, miles 1940..	289	135	834	902	171	316	160	395
22	.....total length, miles 1940..	220	118	746	905	123	202	81	421
Pipelines and siphons ¹.....enterprises reporting 1950..									
23	.....total length, miles 1950..	3	8	7	15	1	20	4	29
24	.....total length, miles 1950..	6	38	1	14	(²)	8	(²)	90
25	.....total length, miles 1940..	1	18	3	16	.....	9	(²)	19
Tunnels.....enterprises reporting 1950..									
26	.....total length, feet 1950..	2	.....	2	3	4	7	2	2
27	.....total length, feet 1950..	270	.....	600	10,700	9,980	7,823	700	4,770
Flowing wells.....enterprises reporting 1950..									
28	.....wells 1950..	.....	48	.....	199	1	1	3	19
29	.....wells 1950..	.....	278	.....	642	1	1	7	37
30	.....wells 1940..	.....	176	.....	364	.....	.....	.....	8
Pumped wells.....enterprises reporting 1950..									
31	.....wells 1950..	.....	10	2	8	.....	31	1	10
32	.....wells 1950..	.....	12	3	8	.....	38	1	10
33	.....wells 1940..	.....	4	.....	10	.....	3	.....	4
34	.....wells 1949..	.....	12	.....	8	.....	34	.....	7
35	Wells for which pumping lift was reported.....wells 1949..	.....	39	.....	43	.....	59	.....	17
36	.....Average pumping lift.....feet 1949..	.....	51	.....	25	.....	41	.....	17
Irrigation pumps.....enterprises reporting 1950..									
37	.....pumps 1950..	3	14	18	19	.....	35	1	69
38	.....pumps 1950..	3	14	23	32	.....	43	1	83
39	.....pumps 1940..	.....	4	11	27	.....	7	.....	13
Electric motors used for pumping.....enterprises reporting 1950..									
40	.....electric motors 1950..	.....	8	3	8	.....	31	1	25
41	.....electric motors 1950..	.....	10	4	20	.....	38	1	28
Other motors and engines used for pumping.....enterprises reporting 1950..									
42	.....other motors and engines 1950..	2	3	15	10	.....	3	.....	48
43	.....other motors and engines 1950..	2	3	17	11	.....	3	.....	53
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	4	.....	3	1	.....	3	.....	3
45	.....acres irrigated.....	369	.....	3,600	42	.....	115	.....	103
46	Water delivered before and after July 1.....enterprises reporting..	156	100	113	389	58	145	29	190
47	.....acres irrigated.....	32,526	13,063	67,089	121,501	24,357	18,157	14,657	46,942
48	Water delivered only after July 1.....enterprises reporting..	5	1	2	4	2	2	.....	8
49	.....acres irrigated.....	65	18	112	150	.....	16	.....	195
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	525,285	171,457	1,684,488	5,636,998	342,253	990,771	151,990	4,391,601
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	53	29	74	142	16	85	18	83
52	.....Amount.....dollars 1950..	223,666	82,166	509,383	419,791	7,045,692	376,965	144,550	618,708
53	.....Area irrigated direct.....acres 1949..	16,380	4,404	64,552	61,910	13,220	14,773	13,653	32,985
54	Total capital investment Jan. 1, 1950.....dollars 1950..	748,951	253,623	2,193,871	6,056,789	7,387,945	1,367,736	296,540	5,010,309
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	13	2	8	7	2	8	3	2
56	.....Amount.....dollars 1950..	11,547,928	10,385	499,846	1,422,786	15,460	82,142	13,000	1,607,442
57	.....Amount.....dollars 1940..	184,666	18,417	480,624	2,210,388	67,212	30,149	800	3,616,948
58	Area irrigated direct.....acres 1949..	8,726	1,341	29,759	15,946	2,068	6,222	2,656	5,113
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..	.....	.....	.....	54	.....	.....	.....	6,564
61	.....Area irrigated direct.....acres 1949..	.....	.....	.....	400	.....	.....	.....	1,663

*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.

IRRIGATION OF AGRICULTURAL LANDS

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	Reaver	Hox Elder	Cnche	Carbon	Daggett	Davis
ALL ENTERPRISES							
Cost of water to farms, 1949:¹							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	3,110	126	194	164	29	16	191
2 Cost.....dollars..	2,266,375	54,585	140,909	162,094	23,926	7,327	125,848
3 Area irrigated direct.....acres..	1,234,938	24,884	89,776	80,734	13,120	9,498	42,957
4 Cost per acre irrigated direct.....dollars..	1.84	2.19	1.57	2.01	1.82	0.77	2.93
5 Total cost per irrigated acre.....dollars..	1.94	2.24	1.58	2.10	1.95	0.78	3.23
6 Total cost per acre-foot of water ².....dollars..	0.63	0.75	0.61	0.78	0.63	0.15	1.20
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	1,796	45	99	90	13	13	120
8 .....acres irrigated..	415,806	14,374	21,159	22,124	1,629	8,211	9,391
9 \$1.00-\$1.99.....enterprises reporting..	395	10	37	33	9	2	13
10 .....acres irrigated..	435,366	3,633	56,935	34,701	8,205	1,267	1,825
11 \$2.00-\$4.99.....enterprises reporting..	470	28	25	29	4	1	32
12 .....acres irrigated..	305,646	2,496	6,083	17,793	2,864	20	28,371
13 \$5.00-\$9.99.....enterprises reporting..	271	39	18	10	2	.....	12
14 .....acres irrigated..	67,076	3,751	5,262	6,090	400	.....	3,052
15 \$10.00 and over.....enterprises reporting..	178	4	15	2	1	.....	14
16 .....acres irrigated..	11,044	630	337	26	22	.....	318
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	2,972	124	189	160	28	15	170
18 Cost.....dollars..	2,124,211	54,305	138,678	157,394	22,898	7,327	114,243
19 Area supplied primary irrigation.....acres..	1,166,972	24,414	88,990	77,071	12,248	9,344	38,995
20 Cost per acre supplied.....dollars..	1.82	2.22	1.56	2.04	1.87	0.78	2.93
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	398	13	13	19	3	1	35
22 Cost.....dollars..	142,164	280	2,231	4,700	1,028	0	11,605
23 Area supplied supplemental irrigation.....acres..	67,966	470	786	3,663	872	154	3,962
24 Cost per acre supplied.....dollars..	2.09	0.60	2.84	1.28	1.18	0.00	2.93
Cost to farms for purposes other than operation and maintenance: ³							
25 Enterprises reporting.....enterprises..	298	6	37	26	2	1	18
26 Cost.....dollars..	491,792	14,384	13,884	64,004	8,584	991	20,208
27 Area irrigated direct.....acres..	608,889	5,397	65,027	51,290	7,986	1,052	22,905
28 Cost per acre irrigated.....dollars..	0.81	2.67	0.21	1.25	1.07	0.94	0.88
Arrearage in payments by farms, Jan. 1, 1950: ³							
29 Enterprises reporting.....enterprises..	73	.....	5	3	4	.....	6
30 Amount.....dollars..	29,790	.....	2,832	218	1,699	.....	1,554
31 Area irrigated direct.....acres..	177,924	.....	5,460	1,567	7,231	.....	7,842
SINGLE-FARM ENTERPRISES, 1950							
32 Single-farm enterprises.....enterprises..	2,107	86	127	84	19	13	144
33 Area irrigated.....acres..	151,688	5,155	8,563	4,601	2,469	3,517	5,242
34 Complete-system enterprises ⁴.....enterprises..	1,905	86	122	76	19	11	134
35 Area irrigated.....acres..	128,681	5,155	7,881	4,206	2,469	3,216	5,141
Other farms irrigated:							
36 Enterprises reporting.....number..	81	1	9	9	1	1	2
37 Number of other farms.....farms..	116	1	14	18	3	3	2
38 Area irrigated in other farms.....acres..	5,031	6	499	712	134	487	3
Enterprises by origin of water supply: ⁴							
39 No water from other enterprises.....enterprises reporting..	1,929	86	122	76	19	11	134
40 .....acres irrigated..	128,681	5,155	7,881	4,206	2,469	3,216	5,141
41 Part of water from other enterprises.....enterprises reporting..	73	.....	2	.....	.....	.....	2
42 .....acres irrigated..	17,835	.....	605	.....	.....	.....	11
43 All of water from other enterprises.....enterprises reporting..	105	.....	3	8	.....	2	8
44 .....acres irrigated..	5,172	.....	77	395	.....	301	90
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	1,909	81	119	80	18	12	122
46 .....acres irrigated..	142,220	4,956	8,217	4,489	2,205	3,363	4,567
47 Part primary, part supplemental.....enterprises reporting..	45	3	3	1	.....	.....	2
48 Primary irrigation.....acres irrigated..	2,230	92	194	7	.....	.....	7
49 Supplemental irrigation.....acres irrigated..	1,179	84	33	7	.....	.....	29
50 All supplemental.....enterprises reporting..	129	2	5	3	1	1	20
51 .....acres irrigated..	6,059	23	119	98	264	154	639
Enterprises by number of acres irrigated: ⁴							
52 None.....enterprises reporting..	24	.....	.....	.....	.....	.....	.....
53 1-9 acres.....enterprises reporting..	417	4	32	9	1	1	66
54 10-29 acres.....enterprises reporting..	566	13	34	31	4	1	46
55 30-59 acres.....enterprises reporting..	441	39	23	23	2	1	15
56 60-99 acres.....enterprises reporting..	277	20	13	8	3	.....	9
57 100-199 acres.....enterprises reporting..	215	6	15	9	3	3	4
58 200-499 acres.....enterprises reporting..	140	4	6	2	5	5	3
59 500-999 acres.....enterprises reporting..	19	.....	2	2	1	2	.....
60 1,000 acres or more.....enterprises reporting..	8	.....	2	.....	.....	.....	1

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

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)		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	109	34	89	41	201	31	36
2	Cost.....dollars..	170,622	84,370	32,501	9,513	181,983	17,315	8,708
3	Area irrigated direct.....acres..	103,469	51,315	26,881	5,750	43,551	13,564	4,290
4	Cost per acre irrigated direct.....dollars..	1.65	1.64	1.21	1.65	4.18	1.28	2.03
5	Total cost per irrigated acre.....dollars..	1.66	1.72	1.22	1.88	5.30	1.30	2.03
6	Total cost per acre-foot of water ².....dollars..	0.59	0.54	0.37	0.47	1.96	0.48	0.48
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	61	10	63	27	32	21	25
8	.....acres irrigated..	13,336	1,076	11,171	3,832	14,205	5,619	2,018
9	\$1.00-\$1.99.....enterprises reporting..	24	10	14	5	14	4	3
10	.....acres irrigated..	69,781	38,222	12,131	303	9,258	6,836	420
11	\$2.00-\$4.99.....enterprises reporting..	20	10	11	3	41	2	5
12	.....acres irrigated..	20,133	11,713	3,554	1,325	7,891	958	1,811
13	\$5.00-\$9.99.....enterprises reporting..	2	1	1	3	64	1	1
14	.....acres irrigated..	192	99	25	281	6,564	100	15
15	\$10.00 and over.....enterprises reporting..	2	3	.....	3	50	3	2
16	.....acres irrigated..	27	205	.....	9	5,633	51	26
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	104	32	84	37	188	31	36
18	Cost.....dollars..	169,890	81,264	32,301	9,493	162,281	16,974	8,708
19	Area supplied primary irrigation.....acres..	102,618	48,994	26,623	5,059	34,346	13,356	4,290
20	Cost per acre supplied.....dollars..	1.66	1.66	1.21	1.88	4.72	1.27	2.03
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	14	5	6	5	34	2	.....
22	Cost.....dollars..	732	3,106	200	20	19,702	341	.....
23	Area supplied supplemental irrigation.....acres..	851	2,321	258	691	9,205	208	.....
24	Cost per acre supplied.....dollars..	0.86	1.34	0.78	0.03	2.14	1.64	.....
Cost to farms for purposes other than operation and maintenance: ³								
25	Enterprises reporting.....enterprises..	12	5	12	1	6	5	4
26	Cost.....dollars..	51,741	32,050	12,184	1,490	4,461	11,213	2,450
27	Area irrigated direct.....acres..	42,003	43,994	13,483	1,021	12,226	8,799	1,596
28	Cost per acre irrigated.....dollars..	1.23	0.73	0.90	1.46	0.36	1.27	1.54
Arrearage in payments by farms, Jan. 1, 1950: ³								
29	Enterprises reporting.....enterprises..	1	1	1	.....	2	3	1
30	Amount.....dollars..	1,576	282	55	.....	113	1,080	165
31	Area irrigated direct.....acres..	45,575	2,013	312	.....	1,289	1,508	273
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	76	23	61	35	172	17	22
33	Area irrigated.....acres..	6,604	2,174	5,288	3,378	20,580	1,943	1,170
34	Complete system enterprises ⁴.....enterprises..	75	21	57	34	156	17	21
35	Area irrigated.....acres..	6,574	2,081	5,028	3,543	19,275	1,943	1,145
Other farms irrigated:								
36	Enterprises reporting.....number..	7	1	.....	1	4	.....	1
37	Number of other farms.....farms..	7	1	.....	1	4	.....	1
38	Area irrigated in other farms.....acres..	284	55	.....	129	432	.....	16
Enterprises by origin of water supply: ⁴								
39	No water from other enterprises.....enterprises reporting..	75	21	58	34	163	17	21
40	.....acres irrigated..	6,574	2,081	5,028	3,543	19,275	1,943	1,145
41	Part of water from other enterprises.....enterprises reporting..	.....	.....	3	.....	9	.....	.....
42	.....acres irrigated..	.....	.....	260	.....	1,305	.....	.....
43	All of water from other enterprises.....enterprises reporting..	1	2	.....	.....	.....	.....	1
44	.....acres irrigated..	30	93	.....	35	.....	.....	25
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	65	21	55	31	153	17	22
46	.....acres irrigated..	5,604	1,889	5,040	2,902	19,270	1,943	1,170
47	Part primary, part supplemental.....enterprises reporting..	6	.....	.....	.....	3	.....	.....
48	Primary irrigation.....acres irrigated..	578	.....	.....	.....	249	.....	.....
49	Supplemental irrigation.....acres irrigated..	132	.....	.....	.....	320	.....	.....
50	All supplemental.....enterprises reporting..	5	2	5	4	9	.....	.....
51	.....acres irrigated..	290	285	248	676	741	.....	.....
Enterprises by number of acres irrigated: ⁴								
52	None.....enterprises reporting..	.....	.....	1	.....	7	.....	.....
53	1-9 acres.....enterprises reporting..	1	.....	1	4	9	4	3
54	10-29 acres.....enterprises reporting..	7	5	20	6	14	4	8
55	30-59 acres.....enterprises reporting..	24	7	18	9	32	3	5
56	60-99 acres.....enterprises reporting..	21	4	4	3	49	1	3
57	100-199 acres.....enterprises reporting..	16	4	10	8	33	1	2
58	200-499 acres.....enterprises reporting..	7	2	6	4	26	3	1
59	500-999 acres.....enterprises reporting..	.....	1	1	.....	.....	1	.....
60	1,000 acres or more.....enterprises reporting..	.....	.....	.....	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)	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	92	69	36	43	99	46	139	96
2 Cost.....dollars..	132,301	15,113	12,144	27,803	135,464	21,073	112,062	121,063
3 Area irrigated direct.....acres..	79,645	9,784	18,524	55,477	61,151	9,469	82,820	61,415
4 Cost per acre irrigated direct.....dollars..	1.66	1.54	0.66	0.50	2.22	2.23	1.35	1.97
5 Total cost per irrigated acre.....dollars..	1.69	1.57	0.68	0.51	2.48	2.29	1.43	2.05
6 Total cost per acre-foot of water ².....dollars..	0.84	0.39	0.24	0.17	0.53	0.85	0.68	0.54
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	64	34	31	32	47	34	101	67
8 acres irrigated..	20,228	3,718	12,656	51,849	11,691	7,020	43,066	20,453
9 \$1.00-\$1.99.....enterprises reporting..	10	18	1	3	20	2	16	8
10 acres irrigated..	31,070	4,312	4,881	643	23,496	89	14,154	9,683
11 \$2.00-\$4.99.....enterprises reporting..	12	11	3	4	15	3	11	13
12 acres irrigated..	27,757	1,537	959	2,224	18,815	67	21,720	27,366
13 \$5.00-\$9.99.....enterprises reporting..	4	5	1	4	12	4	4	3
14 acres irrigated..	470	210	28	721	7,130	2,159	3,658	3,333
15 \$10.00 and over.....enterprises reporting..	2	1	.....	.....	5	3	7	5
16 acres irrigated..	120	7	.....	.....	19	134	222	580
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	90	67	35	42	90	45	128	94
18 Cost.....dollars..	131,151	14,496	11,832	27,541	120,718	21,018	105,279	118,987
19 Area supplied primary irrigation.....acres..	78,367	9,624	17,929	54,676	54,674	9,208	78,532	59,020
20 Cost per acre supplied.....dollars..	1.67	1.51	0.66	0.50	2.21	2.28	1.34	2.02
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	7	4	3	4	39	3	33	14
22 Cost.....dollars..	1,150	617	312	262	14,746	55	6,783	2,074
23 Area supplied supplemental irrigation.....acres..	1,278	160	595	801	6,477	261	4,288	2,355
24 Cost per acre supplied.....dollars..	0.90	3.86	0.52	0.33	2.28	0.21	1.58	0.87
Cost to farms for purposes other than operation and maintenance: ³								
25 Enterprises reporting.....enterprises..	8	17	6	11	15	2	18	6
26 Cost.....dollars..	29,380	5,776	5,650	8,788	19,142	13,700	29,899	10,473
27 Area irrigated direct.....acres..	53,744	5,804	9,140	34,805	29,475	4,731	41,521	16,297
28 Cost per acre irrigated.....dollars..	0.55	1.00	0.62	0.25	0.65	2.90	0.72	0.65
Arrearage in payments by farms, Jan. 1, 1950: ³								
29 Enterprises reporting.....enterprises..	.....	3	1	.....	10	.....	1	.....
30 Amount.....dollars..	.....	317	190	.....	4,328	.....	146	.....
31 Area irrigated direct.....acres..	.....	1,366	600	.....	15,226	.....	1,090	.....
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	56	33	13	20	41	39	69	52
33 Area irrigated.....acres..	3,599	1,624	1,286	12,207	2,363	2,539	2,106	5,392
34 Complete-system enterprises ⁴.....enterprises..	53	28	13	18	30	32	64	50
35 Area irrigated.....acres..	3,559	1,374	1,286	3,132	2,165	1,904	2,055	5,392
Other farms irrigated:								
36 Enterprises reporting.....number..	.....	.....	.....	.....	2	.....	2	1
37 Number of other farms.....farms..	.....	.....	.....	.....	2	.....	3	1
38 Area irrigated in other farms.....acres..	.....	.....	.....	.....	73	.....	22	150
Enterprises by origin of water supply: ⁴								
39 No water from other enterprises.....enterprises reporting..	55	28	13	18	33	32	67	52
40 acres irrigated..	3,559	1,374	1,286	3,132	2,165	1,904	2,055	5,392
41 Part of water from other enterprises.....enterprises reporting..	.....	2	.....	1	2	3	.....	.....
42 acres irrigated..	.....	127	.....	9,000	59	249	.....	.....
43 All of water from other enterprises.....enterprises reporting..	1	3	.....	1	6	4	2	.....
44 acres irrigated..	40	123	.....	75	139	306	51	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	52	31	12	19	28	38	53	47
46 acres irrigated..	3,504	1,594	1,186	11,957	2,210	2,493	1,682	4,881
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	1	.....	3	1
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	60	.....	73	450
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	18	.....	57	20
50 All supplemental.....enterprises reporting..	2	2	1	1	9	1	10	2
51 acres irrigated..	95	30	100	250	75	46	294	41
Enterprises by number of acres irrigated: ⁴								
52 None.....enterprises reporting..	2	.....	.....	.....	3	.....	3	2
53 1-9 acres.....enterprises reporting..	3	8	2	1	21	4	16	19
54 10-29 acres.....enterprises reporting..	14	9	2	2	10	14	25	13
55 30-59 acres.....enterprises reporting..	14	7	2	2	2	9	13	6
56 60-99 acres.....enterprises reporting..	12	3	2	2	1	4	7	4
57 100-199 acres.....enterprises reporting..	9	5	3	5	2	6	5	.....
58 200-499 acres.....enterprises reporting..	2	1	2	7	1	1	.....	7
59 500-999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
60 1,000 acres or more.....enterprises reporting..	.....	.....	.....	1	1	.....	.....	1

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

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)	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	170	102	125	412	55	152	31	205
2 Cost.....dollars..	41,845	10,532	119,869	212,345	35,303	83,565	14,000	152,192
3 Area irrigated direct.....acres..	33,382	14,203	71,043	122,192	24,357	18,967	15,227	47,493
4 Cost per acre irrigated direct.....dollars..	1.25	0.74	1.69	1.74	1.45	4.41	0.92	3.20
5 Total cost per irrigated acre.....dollars..	1.28	0.75	1.75	2.05	1.48	4.62	0.93	3.57
6 Total cost per acre-foot of water ².....dollars..	0.36	0.24	0.65	0.64	0.32	1.05	0.25	1.08
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	109	84	72	311	38	71	21	70
8 Cost.....acres irrigated..	17,766	10,782	19,343	35,256	8,934	5,795	10,900	8,164
9 \$1.00-\$1.99.....enterprises reporting..	33	4	20	37	7	8	6	27
10 Cost.....acres irrigated..	6,362	746	28,760	48,094	9,295	1,337	3,205	5,722
11 \$2.00-\$4.99.....enterprises reporting..	21	8	22	42	10	26	4	62
12 Cost.....acres irrigated..	8,543	2,581	22,023	30,646	6,128	2,759	1,122	26,387
13 \$5.00-\$9.99.....enterprises reporting..	6	4	6	12	.....	31	.....	24
14 Cost.....acres irrigated..	701	86	621	7,950	.....	7,687	.....	6,491
15 \$10.00 and over.....enterprises reporting..	1	2	5	10	.....	16	.....	22
16 Cost.....acres irrigated..	10	8	296	246	.....	1,389	.....	729
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	169	101	124	391	54	142	29	196
18 Cost.....dollars..	40,946	10,472	115,182	170,254	34,188	77,580	13,840	134,971
19 Area supplied primary irrigation.....acres..	32,692	13,987	68,473	103,807	23,812	18,090	15,073	42,660
20 Cost per acre supplied.....dollars..	1.25	0.75	1.68	1.64	1.44	4.29	0.92	3.16
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	14	2	6	63	7	17	3	35
22 Cost.....dollars..	899	60	4,687	42,091	1,115	5,985	160	17,221
23 Area supplied supplemental irrigation.....acres..	600	216	2,570	18,385	545	877	154	4,833
24 Cost per acre supplied.....dollars..	1.30	0.28	1.82	2.29	2.05	6.82	1.04	3.56
Cost to farms for purposes other than operation and maintenance: ³								
25 Enterprises reporting.....enterprises..	17	4	15	19	10	10	4	10
26 Cost.....dollars..	6,996	3,768	48,604	32,442	8,834	21,297	2,358	6,833
27 Area irrigated direct.....acres..	12,703	2,797	48,227	31,621	11,750	6,369	3,156	19,970
28 Cost per acre irrigated.....dollars..	0.55	1.35	1.01	1.03	0.75	3.34	0.75	0.34
Arrearage in payments by farms, Jan. 1, 1950: ³								
29 Enterprises reporting.....enterprises..	10	.....	6	13	.....	2	.....	5
30 Amount.....dollars..	2,281	.....	790	9,504	.....	423	.....	2,237
31 Area irrigated direct.....acres..	8,418	.....	21,949	52,182	.....	612	.....	3,411
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	102	81	98	345	31	108	16	129
33 Area irrigated.....acres..	7,989	6,064	9,742	12,265	3,180	4,831	2,332	3,285
34 Complete-system enterprises ⁴.....enterprises..	94	66	87	320	30	96	15	84
35 Area irrigated.....acres..	6,823	3,671	8,611	9,726	2,580	4,602	2,052	2,092
Other farms irrigated:								
36 Enterprises reporting.....number..	2	1	5	16	.....	4	3	8
37 Number of other farms.....farms..	2	2	10	24	.....	4	4	9
38 Area irrigated in other farms.....acres..	29	2	946	651	.....	137	64	200
Enterprises by origin of water supply: ⁴								
39 No water from other enterprises.....enterprises reporting..	94	66	87	322	30	99	15	85
40 Part of water from other enterprises.....acres irrigated..	6,823	3,671	8,611	9,726	2,580	4,602	2,052	2,092
41 Part of water from other enterprises.....enterprises reporting..	4	9	7	15	1	3	.....	11
42 All of water from other enterprises.....acres irrigated..	965	1,575	888	1,494	600	87	.....	610
43 All of water from other enterprises.....enterprises reporting..	4	6	4	8	.....	6	.....	33
44 All of water from other enterprises.....acres irrigated..	201	818	243	1,045	.....	142	280	583
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	101	80	96	313	26	93	13	116
46 Part primary, part supplemental.....acres irrigated..	7,987	6,058	9,641	11,203	2,898	4,165	2,154	2,992
47 Primary irrigation.....acres irrigated..	.....	.....	1	9	4	3	1	4
48 Supplemental irrigation.....acres irrigated..	.....	.....	30	136	192	90	24	48
49 All supplemental.....enterprises reporting..	1	1	1	21	1	120	12	34
50 All supplemental.....acres irrigated..	2	6	46	698	30	9	2	8
51 Enterprises by number of acres irrigated: ⁴								
52 None.....enterprises reporting..	.....	.....	.....	2	.....	3	.....	1
53 1-9 acres.....enterprises reporting..	10	22	3	98	4	24	.....	47
54 10-29 acres.....enterprises reporting..	32	26	15	119	11	30	2	49
55 30-59 acres.....enterprises reporting..	17	9	30	77	4	26	4	18
56 60-99 acres.....enterprises reporting..	13	8	21	27	5	17	5	8
57 100-199 acres.....enterprises reporting..	17	7	15	15	4	4	.....	4
58 200-499 acres.....enterprises reporting..	13	7	12	6	.....	3	4	1
59 500-999 acres.....enterprises reporting..	.....	1	2	1	3	1	1	1
60 1,000 acres or more.....enterprises reporting..	.....	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.

⁴For 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	Beaver	Box Elder	Cache	Carbon	Daggett	Davis
MULTIPLE-FARM ENTERPRISES, 1950								
1	Multiple-farm enterprises, total number ¹.....enterprises..	1,058	42	67	81	11	3	40
2	Area irrigated direct.....acres..	1,083,250	19,729	81,213	76,133	10,651	5,981	37,715
3	Multiple-purpose enterprises ¹.....enterprises..	25	2	1	1	.....	.....	6
4	Area irrigated direct.....acres..	39,859	642	2,188	4,505	.....	.....	10,329
5	Complete-system enterprises ¹.....enterprises..	710	29	26	60	1	3	16
6	Area irrigated direct.....acres..	499,525	8,804	16,604	49,382	83	5,981	6,084
Enterprises by origin of water supply:¹								
7	No water from other enterprises.....enterprises reporting..	769	32	31	67	1	3	15
8	acres irrigated..	541,335	12,332	24,215	56,215	.....	5,981	5,483
9	Part of water from other enterprises.....enterprises reporting..	165	7	8	5	6	.....	13
10	acres irrigated..	392,271	4,096	41,025	6,894	9,798	.....	11,761
11	All water from other enterprises.....enterprises reporting..	124	3	28	9	4	.....	21
12	acres irrigated..	149,634	3,301	15,973	13,024	853	.....	20,471
Enterprises by delivery of irrigation water:¹								
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	997	30	59	70	8	2	38
15	acres irrigated..	690,275	16,122	35,172	55,687	9,001	1,342	28,981
16	Water delivered to farms and to other enterprises.....enterprises reporting..	133	2	8	10	2	1	9
17	acres irrigated..	392,975	3,607	46,041	20,446	1,650	4,639	8,734
18	Water delivered to other enterprises only.....enterprises reporting..	28	2	.....	1	1	.....	2
Enterprises by primary and supplemental irrigation:²								
19	All primary.....enterprises reporting..	803	32	62	65	8	3	34
20	acres irrigated..	746,719	15,820	77,162	58,397	2,665	5,981	26,586
21	Part primary, part supplemental.....enterprises reporting..	215	8	5	14	2	.....	12
22	Primary irrigation.....acres irrigated..	275,803	3,546	3,417	14,188	7,378	.....	7,835
23	Supplemental irrigation.....acres irrigated..	58,708	363	634	3,508	608	.....	3,126
24	All supplemental.....enterprises reporting..	9	.....	.....	1	.....	.....	1
25	acres irrigated..	2,020	.....	.....	50	.....	.....	168
Enterprises by number of farms irrigated direct:¹								
26	None.....enterprises reporting..	28	2	.....	1	1	.....	2
27	1-3.....enterprises reporting..	179	7	7	7	.....	.....	1
28	4-9.....enterprises reporting..	280	12	17	18	4	.....	7
29	10-29.....enterprises reporting..	341	15	35	26	3	2	19
30	30-99.....enterprises reporting..	169	5	6	24	2	1	18
31	100-299.....enterprises reporting..	53	1	1	5	1	.....	1
32	300-999.....enterprises reporting..	8	.....	1	.....	.....	.....	1
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:¹								
34	None.....enterprises reporting..	28	2	.....	1	1	.....	2
35	1-99 acres.....enterprises reporting..	195	12	5	10	2	.....	7
36	100-999 acres.....enterprises reporting..	581	24	46	43	5	.....	28
37	1,000-2,999 acres.....enterprises reporting..	180	3	14	19	2	1	9
38	3,000-9,999 acres.....enterprises reporting..	63	1	1	7	1	2	2
39	10,000-29,999 acres.....enterprises reporting..	9	.....	.....	1	.....	.....	1
40	30,000 acres or more.....enterprises reporting..	2	.....	1	.....	.....	.....	.....
Quantities of water reported, 1949:³								
41	Total obtained from all sources ³.....enterprises reporting..	1,034	42	67	81	11	3	49
42	percent of all enterprises reporting..	33	33	35	49	37	19	25
43	acres irrigated.....acres..	5,408,782	77,250	356,833	319,091	95,609	47,490	236,522
44	Surface sources.....enterprises reporting..	892	39	39	72	7	3	28
45	acres irrigated.....acres..	4,326,325	61,962	291,600	290,092	70,133	47,490	125,614
46	Pumped wells.....enterprises reporting..	26	.....	1	1	.....	.....	.....
47	acres irrigated.....acres..	12,396	.....	1	60	.....	.....	.....
48	Other enterprises.....enterprises reporting..	285	10	35	14	10	.....	34
49	acres irrigated.....acres..	1,070,061	15,288	65,232	28,939	25,476	.....	110,908
50	Conveyance loss ³.....enterprises reporting..	933	26	65	73	8	3	39
51	acres irrigated.....acres..	890,687	6,122	52,542	52,731	26,946	1,752	26,017
Delivered:³								
52	Direct to farms.....enterprises reporting..	1,008	40	67	80	10	3	47
53	acres irrigated.....acres..	3,084,332	56,600	220,577	201,451	36,941	43,738	118,178
54	To other enterprises.....enterprises reporting..	151	4	8	11	3	1	11
55	acres irrigated.....acres..	1,214,120	13,428	82,388	42,000	26,747	1,000	76,017
56	For use other than irrigation.....enterprises reporting..	235	2	7	19	6	1	20
57	acres irrigated.....acres..	219,643	1,100	1,326	22,909	4,975	1,000	16,310
Delivered direct to farms for primary irrigation:²								
58	Enterprises reporting.....enterprises..	992	40	66	78	10	3	45
59	Quantity delivered.....acres..	2,875,853	55,447	205,919	182,612	29,329	31,323	84,055
60	Area supplied primary irrigation.....acres..	1,003,015	19,356	79,879	72,485	10,043	5,981	33,748
61	Quantity supplied per acre.....acres..	2.9	2.9	2.6	2.5	2.9	5.2	2.5
Delivered direct to farms for supplemental irrigation:²								
62	Enterprises reporting.....enterprises..	217	8	5	15	1	.....	13
63	Quantity delivered.....acres..	154,904	1,153	1,808	10,703	1,422	.....	5,710
64	Area supplied supplemental irrigation.....acres..	60,475	363	634	3,558	500	.....	3,272
65	Quantity supplied per acre.....acres..	2.6	3.2	2.9	3.0	2.8	.....	1.7
66	Total quantity per irrigated acre ⁴.....acres..	3.1	3.0	2.6	2.7	3.1	5.2	2.7
Cost of water to farms for enterprises reporting quantity delivered, 1949:²								
67	Cost for primary irrigation.....dollars..	1,804,301	27,064	130,718	152,818	19,032	6,638	106,341
68	Average cost per acre-foot.....dollars..	0.63	0.49	0.63	0.84	0.65	0.21	1.27
69	Cost for supplemental irrigation.....dollars..	120,106	280	1,968	4,575	788	.....	10,876
70	Average cost per acre-foot.....dollars..	0.78	0.24	1.09	0.43	0.55	.....	1.90
Measurement of water to farms, 1949:²								
71	No water measured.....enterprises reporting..	628	35	56	78	2	2	44
72	acres irrigated.....acres..	455,601	15,391	33,639	73,913	162	5,691	34,066
73	Part of water measured.....enterprises reporting..	36	.....	1	.....	6	.....	3
74	acres irrigated.....acres..	128,408	.....	40,771	.....	3,687	.....	3,649
75	All water measured.....enterprises reporting..	65	1	7	2	1	1	.....
76	acres irrigated.....acres..	138,544	2,289	5,657	520	5,502	290	.....

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

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)		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
MULTIPLE-FARM ENTERPRISES, 1950								
1	Multiple-farm enterprises, total number ¹.....enterprises..	34	11	29	6	37	16	14
2	Area irrigated direct.....acres..	96,865	49,141	21,593	2,172	22,971	11,621	3,120
3	Multiple-purpose enterprises ¹.....enterprises..	.....	.....	.....	.....	2	.....	.....
4	Area irrigated direct.....acres..	.....	.....	.....	.....	580	.....	.....
5	Complete-system enterprises ¹.....enterprises..	20	7	24	6	27	14	14
6	Area irrigated direct.....acres..	11,565	45,944	17,449	2,172	16,404	11,621	3,120
Enterprises by origin of water supply: ¹								
7	No water from other enterprises.....enterprises reporting..	22	8	26	6	32	16	14
8	acres irrigated.....	11,854	46,731	20,163	2,172	19,195	11,621	3,120
9	Part of water from other enterprises.....enterprises reporting..	9	1	.....	.....	5	.....	.....
10	acres irrigated.....	78,937	2,013	.....	.....	3,776	.....	.....
11	All water from other enterprises.....enterprises reporting..	3	2	3	.....	.....	.....	.....
12	acres irrigated.....	6,074	397	1,430	.....	.....	.....	.....
Enterprises by delivery of irrigation water: ¹								
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	29	9	25	5	29	14	13
15	acres irrigated.....	31,549	28,113	15,403	1,546	10,581	11,621	2,143
16	Water delivered to farms and to other enterprises.....enterprises reporting..	4	2	4	1	7	1	1
17	acres irrigated.....	65,316	21,020	6,190	626	12,390	.....	977
18	Water delivered to other enterprises only.....enterprises reporting..	1	.....	.....	.....	1	1	.....
Enterprises by primary and supplemental irrigation: ²								
19	All primary.....enterprises reporting..	30	8	28	5	14	12	14
20	acres irrigated.....	68,072	30,081	21,419	2,104	3,670	10,066	3,120
21	Part primary, part supplemental.....enterprises reporting..	3	3	1	1	18	2	.....
22	Primary irrigation.....acres irrigated..	28,364	17,024	164	53	11,157	1,347	.....
23	Supplemental irrigation.....acres irrigated..	429	2,036	10	15	7,134	208	.....
24	All supplemental.....enterprises reporting..	.....	.....	.....	.....	4	.....	.....
25	acres irrigated.....	.....	.....	.....	.....	1,010	.....	.....
Enterprises by number of farms irrigated direct: ¹								
26	None.....enterprises reporting..	1	.....	.....	.....	1	1	.....
27	1-3.....enterprises reporting..	6	.....	8	2	9	7	8
28	4-9.....enterprises reporting..	11	2	5	3	18	1	1
29	10-29.....enterprises reporting..	11	4	11	.....	15	3	4
30	30-99.....enterprises reporting..	3	1	5	1	4	3	1
31	100-299.....enterprises reporting..	.....	4	.....	.....	.....	1	.....
32	300-999.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ¹								
34	None.....enterprises reporting..	1	.....	.....	.....	1	1	.....
35	1-99 acres.....enterprises reporting..	2	.....	4	2	6	1	3
36	100-999 acres.....enterprises reporting..	19	5	17	3	23	10	11
37	1,000-2,999 acres.....enterprises reporting..	7	2	8	1	6	3	.....
38	3,000-9,999 acres.....enterprises reporting..	2	3	.....	.....	1	1	.....
39	10,000-29,999 acres.....enterprises reporting..	2	1	.....	.....	.....	.....	.....
40	30,000 acres or more.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
Quantities of water reported, 1949: ³								
41	Total obtained from all sources ³.....enterprises reporting..	33	10	26	6	37	16	14
42	percent of all enterprises reporting..	30	29	29	15	18	48	39
43	acres-foot.....	525,856	235,684	93,076	10,310	69,005	216,315	18,199
44	Surface sources.....enterprises reporting..	30	8	24	6	23	16	14
45	acres-foot.....	432,906	202,328	88,993	10,310	56,376	216,315	18,199
46	Pumped wells.....enterprises reporting..	.....	.....	.....	.....	17	.....	.....
47	acres-foot.....	.....	.....	.....	.....	10,408	.....	.....
48	Other enterprises.....enterprises reporting..	12	3	2	.....	5	.....	.....
49	acres-foot.....	92,950	33,356	4,083	.....	2,221	.....	.....
50	Conveyance loss ³.....enterprises reporting..	32	10	23	6	22	15	11
51	acres-foot.....	82,459	66,041	17,158	1,698	7,981	18,672	2,814
Delivered: ³								
52	Direct to farms.....enterprises reporting..	32	10	26	6	36	15	14
53	acres-foot.....	328,527	159,136	67,320	8,012	51,490	41,743	13,251
54	To other enterprises.....enterprises reporting..	4	2	4	1	8	2	1
55	acres-foot.....	114,204	3,656	5,224	.....	5,815	150,800	.....
56	For use other than irrigation.....enterprises reporting..	4	4	4	1	3	3	4
57	acres-foot.....	666	6,851	3,374	600	3,719	5,100	2,134
Delivered direct to farms for primary irrigation: ²								
58	Enterprises reporting.....enterprises..	32	10	26	6	32	14	14
59	Quantity delivered.....acres-foot..	270,180	137,317	67,304	7,976	33,054	29,892	13,251
60	Area supplied primary irrigation.....acres..	96,356	46,359	20,592	2,157	14,827	11,413	3,120
61	Quantity supplied per acre.....acres-foot..	2.8	3.0	3.3	3.7	2.2	2.6	4.2
Delivered direct to farms for supplemental irrigation: ²								
62	Enterprises reporting.....enterprises..	3	3	1	1	22	2	.....
63	Quantity delivered.....acres-foot..	1,511	6,018	16	36	14,971	676	.....
64	Area supplied supplemental irrigation.....acres..	429	2,036	10	15	8,144	208	.....
65	Quantity supplied per acre.....acres-foot..	3.5	3.0	1.6	2.4	1.8	3.2	.....
66	Total quantity per irrigated acre ⁴.....acres-foot..	2.8	3.2	3.3	4.0	2.7	2.7	4.2
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²								
67	Cost for primary irrigation.....dollars..	163,918	72,490	29,672	3,966	19,698	15,195	7,651
68	Average cost per acre-foot.....dollars..	0.61	0.53	0.44	0.50	0.60	0.51	0.58
69	Cost for supplemental irrigation.....dollars..	625	1,881	0	0	11,908	341	.....
70	Average cost per acre-foot.....dollars..	0.41	0.31	0.00	0.00	0.80	0.50	.....
Measurement of water to farms, 1948: ²								
71	No water measured.....enterprises reporting..	2	1	2	1	6	1	1
72	acres irrigated.....	1,817	756	1,100	626	2,401	4,656	215
73	Part of water measured.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
74	acres irrigated.....	15,050	.....	.....	.....	.....	.....	.....
75	All water measured.....enterprises reporting..	.....	2	1	.....	.....	.....	.....
76	acres irrigated.....	.....	4,620	2,964	.....	.....	.....	.....

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)	Willard	Vorgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ¹.....enterprises..	38	39	25	25	64	8	73	48
2 Area irrigated direct.....acres..	76,046	8,160	17,238	43,270	59,788	6,930	80,714	56,023
3 Multiple-purpose enterprises ¹.....enterprises..	1	1	1	1	2	1	1	1
4 Area irrigated direct.....acres..	1	1	1	1	3,332	1	4,450	24
5 Complete-system enterprises ¹.....enterprises..	32	19	22	20	38	6	66	31
6 Area irrigated direct.....acres..	25,380	7,523	16,738	36,037	9,618	5,865	66,654	19,534
Enterprises by origin of water supply:¹								
7 No water from other enterprises.....enterprises reporting..	33	17	24	23	41	8	69	33
8 acres irrigated..	27,094	1,774	16,738	37,682	7,930	6,930	75,578	27,195
9 Part of water from other enterprises.....enterprises reporting..	1	16	1	1	15	1	1	12
10 acres irrigated..	5,902	5,902	1	3,308	30,393	1	2,476	26,325
11 All water from other enterprises.....enterprises reporting..	5	5	1	1	8	1	3	3
12 acres irrigated..	48,952	484	500	2,280	18,465	1	2,660	2,593
Enterprises by delivery of irrigation water:¹								
13 No water delivered.....enterprises reporting..	1	1	1	1	1	1	1	1
14 Water delivered direct to farms only.....enterprises reporting..	37	30	22	20	52	5	70	40
15 acres irrigated..	74,332	5,839	16,939	33,097	36,994	3,223	71,790	37,602
16 Water delivered to farms and to other enterprises.....enterprises reporting..	1	7	2	4	9	2	3	7
17 acres irrigated..	1,714	2,321	209	10,173	21,794	3,707	8,924	18,421
18 Water delivered to other enterprises only.....enterprises reporting..	1	1	1	1	3	1	1	1
Enterprises by primary and supplemental irrigation:²								
19 All primary.....enterprises reporting..	33	34	21	20	32	5	53	35
20 acres irrigated..	58,855	7,230	10,845	40,205	25,345	5,556	60,706	36,619
21 Part primary, part supplemental.....enterprises reporting..	5	2	2	3	29	2	19	11
22 Primary irrigation.....acres irrigated..	16,008	800	5,898	2,514	27,050	1,159	16,071	17,070
23 Supplemental irrigation.....acres irrigated..	1,183	130	495	551	6,384	215	3,373	2,334
24 All supplemental.....enterprises reporting..	1	1	1	1	1	1	1	1
25 acres irrigated..	564	564	564	564	564	564	564	564
Enterprises by number of farms irrigated direct:¹								
26 None.....enterprises reporting..	1	1	1	1	3	1	1	1
27 1-3.....enterprises reporting..	15	13	5	4	1	1	8	6
28 4-9.....enterprises reporting..	8	13	6	9	14	1	17	13
29 10-29.....enterprises reporting..	4	10	9	9	23	4	30	13
30 30-99.....enterprises reporting..	6	1	3	2	9	1	14	11
31 100-299.....enterprises reporting..	5	1	1	1	11	1	4	4
32 300-999.....enterprises reporting..	1	1	1	1	3	1	1	1
33 1,000 or more.....enterprises reporting..	1	1	1	1	1	1	1	1
Enterprises by acres irrigated direct:¹								
34 None.....enterprises reporting..	1	1	1	1	3	1	1	1
35 1-99 acres.....enterprises reporting..	7	14	3	3	13	1	7	6
36 100-999 acres.....enterprises reporting..	17	21	14	14	33	4	38	22
37 1,000-2,999 acres.....enterprises reporting..	7	2	5	4	9	3	22	15
38 3,000-9,999 acres.....enterprises reporting..	5	1	1	6	6	1	5	3
39 10,000-29,999 acres.....enterprises reporting..	2	1	1	1	1	1	1	1
40 30,000 acres or more.....enterprises reporting..	1	1	1	1	1	1	1	1
Quantities of water reported, 1949:³								
41 Total obtained from all sources.....enterprises reporting..	39	30	23	25	63	6	73	48
42 percent of all enterprises reporting..	40	54	61	56	60	13	51	48
43 acres irrigated..	240,102	126,200	170,195	227,915	725,116	13,520	263,277	382,852
44 Surface sources.....enterprises reporting..	33	33	23	24	54	6	70	45
45 acres irrigated..	92,302	95,281	170,195	219,430	440,744	13,520	254,877	319,402
46 Pumped wells.....enterprises reporting..	1	1	1	1	1	1	1	1
47 acres irrigated..	5	21	3	385	23	1	4	15
48 Other enterprises.....enterprises reporting..	5	21	3	385	23	1	4	15
49 acres irrigated..	147,800	30,919	1	8,100	284,372	1	8,400	63,450
50 Conveyance loss ³.....enterprises reporting..	38	38	22	24	50	6	72	47
51 acres irrigated..	80,016	17,286	27,226	43,435	95,171	2,183	51,202	63,035
Delivered:³								
52 Direct to farms.....enterprises reporting..	38	37	22	24	60	5	73	47
53 acres irrigated..	154,455	37,609	81,305	134,705	293,308	10,610	183,980	248,771
54 To other enterprises.....enterprises reporting..	1	8	2	5	11	2	3	8
55 acres irrigated..	540	64,863	60,980	49,040	290,518	727	18,754	67,888
56 For use other than irrigation.....enterprises reporting..	6	4	1	6	40	1	9	5
57 acres irrigated..	5,091	6,442	684	735	56,110	1	9,341	3,150
Delivered direct to farms for primary irrigation:²								
58 Enterprises reporting.....enterprises..	38	36	21	23	60	5	73	45
59 Quantity delivered.....acre-feet..	151,770	31,330	42,500	126,219	224,478	10,149	153,050	200,429
60 Area supplied primary irrigation.....acres..	74,863	8,030	15,944	42,710	52,333	3,921	76,777	53,660
61 Quantity supplied per acre.....acre-feet..	2.0	3.9	2.7	3.0	4.3	2.6	2.0	3.7
Delivered direct to farms for supplemental irrigation:²								
62 Enterprises reporting.....enterprises..	5	2	2	3	28	2	20	11
63 Quantity delivered.....acre-feet..	2,685	499	1,335	916	22,227	461	6,002	5,442
64 Area supplied supplemental irrigation.....acres..	1,183	130	495	551	6,315	215	3,373	2,334
65 Quantity supplied per acre.....acre-feet..	2.3	3.8	2.7	1.7	3.5	2.1	1.5	2.3
66 Total quantity per irrigated acre ⁴.....acre-feet..	2.0	4.0	2.8	3.0	4.7	2.7	2.1	3.8
Cost of water to farms for enterprises reporting quantity delivered, 1949:²								
67 Cost for primary irrigation.....dollars..	122,452	12,891	10,199	21,333	119,207	16,445	102,195	117,064
68 Average cost per acre-foot.....dollars..	0.81	0.41	0.24	0.17	0.53	1.62	0.67	0.58
69 Cost for supplemental irrigation.....dollars..	1,125	617	312	62	13,806	55	4,346	2,076
70 Average cost per acre-foot.....dollars..	0.42	1.24	0.23	0.07	0.62	0.12	0.72	0.38
Measurement of water to farms, 1949:²								
71 No water measured.....enterprises reporting..	2	5	2	1	4	1	62	32
72 acres irrigated..	3,251	1,165	1,100	3,308	2,666	1	63,165	20,382
73 Part of water measured.....enterprises reporting..	1	1	1	1	1	1	1	1
74 acres irrigated..	2,451	1	1	599	1,357	422	2,476	11,859
75 All water measured.....enterprises reporting..	7	7	7	11	1	1	4	5
76 acres irrigated..	48,952	484	500	2,280	18,465	2,642	10,480	21,650

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

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)		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ¹.....enterprises..	76	22	29	70	29	49	15	78
2	Area irrigated direct.....acres..	25,393	8,139	61,391	109,927	21,177	14,136	12,895	44,208
3	Multiple-purpose enterprises ¹.....enterprises..	1	1	.....	4	1	4	.....	2
4	Area irrigated direct.....acres..	187	343	.....	7,627	.....	2,784	.....	2,863
5	Complete-system enterprises ¹.....enterprises..	49	17	17	37	17	40	15	45
6	Area irrigated direct.....acres..	11,992	7,254	22,234	32,098	11,195	8,561	12,895	14,734
Enterprises by origin of water supply: ¹									
7	No water from other enterprises.....enterprises reporting..	51	22	19	45	23	44	15	45
8	Area irrigated.....acres irrigated..	9,699	8,139	19,537	30,216	13,556	12,951	12,895	12,429
9	Part of water from other enterprises.....enterprises reporting..	21	.....	8	18	5	1	.....	22
10	Area irrigated.....acres irrigated..	15,074	.....	41,132	73,839	6,930	350	.....	28,242
11	All water from other enterprises.....enterprises reporting..	4	.....	2	7	1	3	.....	11
12	Area irrigated.....acres irrigated..	620	.....	632	5,872	691	835	.....	3,537
Enterprises by delivery of irrigation water: ¹									
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	65	16	20	51	20	42	14	64
15	Area irrigated.....acres irrigated..	21,669	6,573	26,354	61,279	14,140	9,134	5,238	18,803
16	Water delivered to farms and to other enterprises.....enterprises reporting..	6	5	7	18	6	6	1	13
17	Area irrigated.....acres irrigated..	3,724	1,566	34,947	48,648	7,029	5,002	7,657	25,405
18	Water delivered to other enterprises only.....enterprises reporting..	5	1	2	1	3	.....	.....	1
Enterprises by primary and supplemental irrigation: ²									
19	All primary.....enterprises reporting..	55	20	23	36	22	42	15	54
20	Area irrigated.....acres irrigated..	20,872	7,739	50,840	31,339	18,229	13,395	12,895	26,916
21	Part primary, part supplemental.....enterprises reporting..	13	1	4	33	2	4	.....	22
22	Area irrigated.....acres irrigated..	3,833	190	7,962	61,129	2,493	440	.....	18,704
23	Supplemental irrigation.....acres irrigated..	688	210	2,499	17,459	455	151	.....	4,510
24	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	1	.....	1
25	Area irrigated.....acres irrigated..	.....	.....	.....	.....	.....	150	.....	78
Enterprises by number of farms irrigated direct: ¹									
26	None.....enterprises reporting..	5	1	2	1	3	.....	.....	1
27	1-3.....enterprises reporting..	16	8	6	4	4	9	6	11
28	4-9.....enterprises reporting..	33	6	7	13	8	13	3	29
29	10-29.....enterprises reporting..	17	4	4	24	6	19	5	19
30	30-99.....enterprises reporting..	5	3	6	13	7	7	.....	13
31	100-299.....enterprises reporting..	.....	.....	2	13	.....	.....	1	4
32	300-999.....enterprises reporting..	.....	.....	2	2	1	.....	.....	1
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ¹									
34	None.....enterprises reporting..	5	1	2	1	3	.....	.....	1
35	1-99 acres.....enterprises reporting..	22	4	4	9	3	20	6	23
36	100-999 acres.....enterprises reporting..	40	15	11	33	14	24	7	43
37	1,000-2,999 acres.....enterprises reporting..	7	2	5	14	7	4	1	7
38	3,000-9,999 acres.....enterprises reporting..	2	.....	5	12	2	.....	.....	3
39	10,000-29,999 acres.....enterprises reporting..	1	.....	1	.....	.....	.....	.....	1
40	30,000 acres or more.....enterprises reporting..	.....	.....	1	.....	.....	.....	.....	.....
Quantities of water reported, 1949:									
41	Total obtained from all sources.....enterprises reporting..	71	21	28	64	28	47	14	78
42	percent of all enterprises reporting..	40	20	22	15	47	30	45	38
43	acre-feet..	226,046	32,039	443,608	799,027	360,310	97,106	56,621	288,501
44	Surface sources.....enterprises reporting..	67	21	26	57	27	40	14	67
45	acre-feet..	178,927	32,039	370,837	681,919	328,359	88,882	56,621	220,433
46	Pumped wells.....enterprises reporting..	.....	.....	.....	2	.....	4	.....	.....
47	acre-feet..	.....	.....	.....	680	.....	862	.....	.....
48	Other enterprises.....enterprises reporting..	25	.....	9	24	6	.....	.....	33
49	acre-feet..	47,119	.....	72,771	116,428	31,951	7,362	.....	68,060
50	Conveyance loss ³.....enterprises reporting..	69	17	28	51	26	41	13	73
51	acre-feet..	24,065	6,532	84,459	81,187	62,974	14,711	11,514	37,009
Delivered: ³									
52	Direct to farms.....enterprises reporting..	68	20	26	63	25	47	14	77
53	acre-feet..	104,879	19,765	325,102	332,564	141,469	62,076	41,907	143,626
54	To other enterprises.....enterprises reporting..	9	5	8	16	9	6	1	14
55	acre-feet..	87,103	3,294	32,435	345,555	139,618	9,278	1,000	85,741
56	For use other than irrigation.....enterprises reporting..	16	6	8	19	5	11	2	29
57	acre-feet..	9,982	2,448	1,612	39,721	16,249	11,041	2,200	22,125
Delivered direct to farms for primary irrigation: ²									
58	Enterprises reporting.....enterprises..	65	20	26	63	23	45	14	76
59	Quantity delivered.....acre-feet..	85,843	18,954	134,043	246,644	86,338	57,424	41,907	117,016
60	Area supplied primary irrigation.....acres..	24,507	6,224	51,492	91,992	19,361	13,795	11,451	39,620
61	Quantity supplied per acre.....acre-feet..	3.5	3.0	2.6	2.7	4.5	4.2	3.7	3.0
Delivered direct to farms for supplemental irrigation: ²									
62	Enterprises reporting.....enterprises..	13	1	4	28	2	5	.....	23
63	Quantity delivered.....acre-feet..	2,219	811	7,135	45,643	2,252	1,117	.....	12,136
64	Area supplied supplemental irrigation.....acres..	688	210	2,499	17,405	455	301	.....	4,588
65	Quantity supplied per acre.....acre-feet..	3.2	3.9	2.9	2.6	4.9	3.7	.....	2.6
66	Total quantity per irrigated acre ⁴.....acre-feet..	3.6	3.1	2.7	3.2	4.6	4.4	3.7	3.3
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²									
67	Cost for primary irrigation.....dollars..	35,302	7,103	95,314	163,363	28,732	62,828	9,067	125,665
68	Average cost per acre-foot.....dollars..	0.41	0.37	0.71	0.66	0.33	1.09	0.22	1.07
69	Cost for supplemental irrigation.....dollars..	899	0	4,387	39,638	1,114	1,506	.....	16,921
70	Average cost per acre-foot.....dollars..	0.41	0.00	0.61	0.87	0.49	1.35	.....	1.39
Measurement of water to farms, 1949: ²									
71	No water measured.....enterprises reporting..	63	19	24	38	19	44	15	78
72	acres irrigated..	23,068	7,280	33,767	33,914	20,181	10,819	12,895	44,208
73	Part of water measured.....enterprises reporting..	.....	1	4	8	.....	.....	.....	.....
74	acres irrigated..	.....	389	27,302	18,406	.....	.....	.....	.....
75	All water measured.....enterprises reporting..	10	2	.....	8	5	1	.....	.....
76	acres irrigated..	1,847	470	.....	22,324	541	2,886	.....	.....

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.

IRRIGATION OF AGRICULTURAL LANDS

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, "Utah: 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	Box Elder	Cache	Carbon	Daggett	Davis
1	Irrigated land, 1949.....acres..	1,166,972	24,414	88,990	77,071	12,248	9,344	38,995
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2	All basins.....acres..	1,433,801	24,884	89,776	83,334	13,120	9,498	46,046
3	North Pacific Coast: Snake River, King Hill, Idaho, to American Falls, Idaho (I-G).....acres..	6,320		6,320				
4	Upper Goose Creek (4).....acres..	510		510				
5	Raft River (5).....acres..	5,810		5,810				
6	Great Basin.....acres..	1,028,819	24,884	83,456	83,062			46,046
7	Bonneville Basin excluding Bear River (III-D).....acres..	835,174	24,884	28,350				46,046
8	Great Salt Lake Basin excluding Bear River.....acres..	476,929		28,350				46,046
9	Northwest Great Salt Lake Basin (1).....acres..	14,716		14,716				
10	Southwest Great Salt Lake Basin (2).....acres..	14,203						
11	Southeast Great Salt Lake Basin.....acres..	448,010		13,634				46,046
12	Great Salt Lake direct (3a).....acres..	107,062		13,634				40,812
13	Weber River above Gateway (3b).....acres..	73,288						3,089
14	Jordan River (3c, d, e, f, and g).....acres..	267,660						2,145
15	Sevier River.....acres..	278,342						
16	Sevier River direct (4a, b, and c).....acres..	172,484						
17	San Pitch River (4d).....acres..	66,019						
18	East Fork (4e).....acres..	39,839						
19	Snake Valley (5).....acres..	10,079						
20	Escalante River and Shoal Creek (6).....acres..	15,366						
21	Beaver River (7).....acres..	24,884	24,884					
22	Little Salt Lake (8).....acres..	9,543						
23	Coal Creek (9).....acres..	20,031						
24	Bear River (III-E).....acres..	193,645		55,106	83,062			
25	Bear River direct (1a and b).....acres..	147,656		54,309	37,870			
26	Upper Malad River (2).....acres..	797		797				
27	Little Bear River (3).....acres..	45,192		45,192				
28	Gulf of California.....acres..	398,662			272	13,120	9,498	
29	Colorado River below Lees Ferry, Arizona (IV-B).....acres..	21,201						
30	Colorado River direct (1b).....acres..	1,531						
31	Virgin River (3a).....acres..	19,670						
32	Colorado River above Lees Ferry, Arizona, excluding Green River (IV-D).....acres..	48,281						
33	Colorado River direct (1a).....acres..	18,555						
34	San Juan River direct (2a).....acres..	5,850						
35	Fremont River.....acres..	23,511						
36	Fremont River direct (3a).....acres..	15,227						
37	Muddy River (3b).....acres..	8,284						
38	Dolores River (4a).....acres..	365						
39	Green River (IV-E).....acres..	329,180			272	13,120	9,498	
40	Green River direct ² (1 and 4).....acres..	16,999				840	8,002	
41	San Rafael River (2).....acres..	51,029						
42	Price River (3).....acres..	15,063			272	12,280		
43	Duchesne River.....acres..	194,282						
44	Duchesne River direct (5a).....acres..	81,934						
45	Uintah River (5b).....acres..	76,142						
46	Lake Fork (5c).....acres..	36,206						
47	Ashley Creek (6).....acres..	27,336						
48	Brush Creek (7).....acres..	22,975						
49	Hentys Fork (9).....acres..	1,496					1,496	

See footnotes at end of County Table 3.

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

[Symbols in parentheses refer to drainage basin symbols on map, "Utah: 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)	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
1 Irrigated land, 1949..... acres..	102,618	48,994	26,623	5,059	34,346	13,356	4,290
Area irrigated direct, by drainage basin origin of water, 1949: ¹							
2 All basins..... acres..	105,382	51,315	26,881	5,750	43,551	13,564	4,290
3 North Pacific Coast: Snake River, King Hill, Idaho, to American Falls, Idaho (I-G)..... acres..							
4 Upper Goose Creek (4)..... acres..							
5 Raft River (5)..... acres..							
6 Great Basin..... acres..			17,186		40,533	13,564	
7 Bonneville Basin excluding Bear River (III-D)..... acres..			17,186		40,533	13,564	
8 Great Salt Lake Basin excluding Bear River..... acres..						7,166	
9 Northwest Great Salt Lake Basin (1)..... acres..							
10 Southwest Great Salt Lake Basin (2)..... acres..							
11 Southeast Great Salt Lake Basin..... acres..						7,166	
12 Great Salt Lake direct (3a)..... acres..							
13 Weber River above Gateway (3b)..... acres..							
14 Jordan River (3c, d, e, f, and g)..... acres..						7,166	
15 Sevier River..... acres..			17,186			3,073	
16 Sevier River direct (4a, b, and c)..... acres..			13,571			3,073	
17 San Pitch River (4d)..... acres..							
18 East Fork (4e)..... acres..			3,615				
19 Snake Valley (5)..... acres..						3,325	
20 Escalante River and Shoal Creek (6)..... acres..					10,959		
21 Beaver River (7)..... acres..							
22 Little Salt Lake (8)..... acres..					9,543		
23 Coal Creek (9)..... acres..					20,031		
24 Bear River (III-E)..... acres..							
25 Bear River direct (1a and b)..... acres..							
26 Upper Malad River (2)..... acres..							
27 Little Bear River (3)..... acres..							
28 Gulf of California..... acres..	105,382	51,315	9,695	5,750	3,018		4,290
29 Colorado River below Lees Ferry, Arizona (IV-B)..... acres..					3,018		3,623
30 Colorado River direct (1b)..... acres..							1,531
31 Virgin River (3a)..... acres..					3,018		2,092
32 Colorado River above Lees Ferry, Arizona, excluding Green River (IV-D)..... acres..		5,162	9,695	4,939			667
33 Colorado River direct (1a)..... acres..			9,695	4,779			667
34 San Juan River direct (2a)..... acres..							
35 Fremont River..... acres..		5,162					
36 Fremont River direct (3a)..... acres..							
37 Muddy River (3b)..... acres..		5,162					
38 Dolores River (4a)..... acres..				160			
39 Green River (IV-E)..... acres..	105,382	46,153		811			
40 Green River direct ² (1 and 4)..... acres..	367	2,258		811			
41 San Rafael River (2)..... acres..		41,384					
42 Price River (3)..... acres..		2,511					
43 Duchesne River..... acres..	105,015						
44 Duchesne River direct (5a)..... acres..	28,391						
45 Uintah River (5b)..... acres..	40,418						
46 Lake Fork (5c)..... acres..	36,206						
47 Ashley Creek(6)..... acres..							
48 Brush Creek (7)..... acres..							
49 Henrys Fork (9)..... acres..							

See footnotes at end of County Table 3.

IRRIGATION OF AGRICULTURAL LANDS

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

[Symbols in parentheses refer to drainage basin symbols on map, "Utah: 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)	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
1 Irrigated land, 1949.....acres..	78,367	9,624	17,929	54,676	54,674	9,208	78,532	59,020
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2 All basins.....acres..	79,645	14,907	18,524	55,477	99,887	9,469	92,465	88,060
3 North Pacific Coast: Snake River, King Hill, Idaho, to American Falls, Idaho (J-C).....acres..								
4 Upper Goose Creek (4).....acres..								
5 Raft River (5).....acres..								
6 Great Basin.....acres..	79,645	14,907	18,524	55,477	99,887		82,820	84,938
7 Bonneville Basin excluding Bear River (III-D).....acres..	79,645	14,907	18,524		99,887		82,820	84,938
8 Great Salt Lake Basin excluding Bear River.....acres..		14,907			99,887		1,090	
9 Northwest Great Salt Lake Basin (1).....acres..								
10 Southwest Great Salt Lake Basin (2).....acres..								
11 Southeast Great Salt Lake Basin.....acres..		14,907			99,887		1,090	
12 Great Salt Lake direct (3a).....acres..		5,123						
13 Weber River above Gateway (3b).....acres..		9,784						
14 Jordan River (3c, d, e, f, and g).....acres..					99,887		1,090	
15 Sevier River.....acres..	72,891		18,524				81,730	84,938
16 Sevier River direct (4a, b, and c).....acres..	72,891		11,044				15,711	56,194
17 San Pitch River (4d).....acres..							66,019	
18 East Fork (4e).....acres..			7,480					28,744
19 Snake Valley (5).....acres..	6,754							
20 Escalante River and Shoal Creek (6).....acres..								
21 Beaver River (7).....acres..								
22 Little Salt Lake (8).....acres..								
23 Coal Creek (9).....acres..								
24 Bear River (III-E).....acres..				55,477				
25 Bear River direct (1a and b).....acres..				55,477				
26 Upper Malad River (2).....acres..								
27 Little Bear River (3).....acres..								
28 Gulf of California.....acres..						9,469	9,645	3,122
29 Colorado River below Lees Ferry, Arizona (IV-B).....acres..								
30 Colorado River direct (1b).....acres..								
31 Virgin River (3a).....acres..								
32 Colorado River above Lees Ferry, Arizona excluding Green River (IV-D).....acres..						9,469		3,122
33 Colorado River direct (1a).....acres..						3,414		
34 San Juan River direct (2a).....acres..						5,850		
35 Fremont River.....acres..								3,122
36 Fremont River direct (3a).....acres..								
37 Muddy River (3b).....acres..								3,122
38 Dolores River (4a).....acres..						205		
39 Green River (IV-E).....acres..							9,645	
40 Green River direct ² (1 and 4).....acres..								
41 San Rafael River (2).....acres..							9,645	
42 Price River (3).....acres..								
43 Duchesne River.....acres..								
44 Duchesne River direct (5a).....acres..								
45 Uintah River (5b).....acres..								
46 Lake Fork (5c).....acres..								
47 Ashley Creek (6).....acres..								
48 Brush Creek (7).....acres..								
49 Henrys Fork (9).....acres..								

See footnotes at end of County Table 2.

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

[Symbols in parentheses refer to drainage basin symbols on map, "Utah: 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)	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
1 Irrigated land, 1949..... acres..	32,692	13,987	68,473	103,807	23,812	18,090	15,073	42,660
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2 All basins..... acres..	33,382	14,203	92,464	195,823	31,077	18,967	15,227	56,833
3 North Pacific Coast: Snake River, King Hill, Idaho, to American Falls, Idaho (I-G)..... acres..								
4 Upper Goose Creek (4)..... acres..								
5 Raft River (5)..... acres..								
6 Great Basin..... acres..	33,382	14,203		145,379	29,686	4,407		56,833
7 Bonneville Basin excluding Bear River (III-D)..... acres..	33,382	14,203		145,379	29,686	4,407		56,833
8 Great Salt Lake Basin excluding Bear River..... acres..	33,382	14,203		145,379	29,686			56,833
9 Northwest Great Salt Lake Basin (1)..... acres..								
10 Southwest Great Salt Lake Basin (2)..... acres..		14,203						
11 Southeast Great Salt Lake Basin..... acres..	33,382			145,379	29,686			56,833
12 Great Salt Lake direct (3a)..... acres..								47,493
13 Weber River above Gateway (3b)..... acres..	28,714			17,002	5,359			9,340
14 Jordan River (3c, d, e, f, and g)..... acres..	4,668			128,377	24,327			
15 Sevier River..... acres..								
16 Sevier River direct (4a, b, and c)..... acres..								
17 San Pitch River (4d)..... acres..								
18 East Fork (4e)..... acres..								
19 Snake Valley (5)..... acres..								
20 Escalante River and Shoal Creek (6)..... acres..						4,407		
21 Beaver River (7)..... acres..								
22 Little Salt Lake (8)..... acres..								
23 Coal Creek (9)..... acres..								
24 Bear River (III-E)..... acres..								
25 Bear River direct (1a and b)..... acres..								
26 Upper Malad River (2)..... acres..								
27 Little Bear River (3)..... acres..								
28 Gulf of California..... acres..			92,464	50,444	1,391	14,560	15,227	
29 Colorado River below Lees Ferry, Arizona (IV-B)..... acres..						14,560		
30 Colorado River direct (1b)..... acres..								
31 Virgin River (3a)..... acres..						14,560		
32 Colorado River above Lees Ferry, Arizona, excluding Green River (IV-D)..... acres..							15,227	
33 Colorado River direct (1a)..... acres..								
34 San Juan River direct (2a)..... acres..								
35 Fremont River..... acres..							15,227	
36 Fremont River direct (3a)..... acres..							15,227	
37 Muddy River (3b)..... acres..								
38 Dolores River (4a)..... acres..								
39 Green River (IV-E)..... acres..			92,464	50,444	1,391			
40 Green River direct ² (1 and 4)..... acres..			4,721					
41 San Rafael River (2)..... acres..								
42 Price River (3)..... acres..								
43 Duchesne River..... acres..			37,432	50,444	1,391			
44 Duchesne River direct (5a)..... acres..			1,708	50,444	1,391			
45 Uintah River (5b)..... acres..			35,724					
46 Lake Fork (5c)..... acres..								
47 Ashley Creek (6)..... acres..			27,336					
48 Brush Creek (7)..... acres..			22,975					
49 Henrys Fork (9)..... acres..								

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. ² Includes data for less than 3 enterprises in White River Basin (IV-E-4).

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: Snake River, King Hill, Idaho, to American Falls, Idaho (1-G)			Great Basin
		Total	Upper Goose Creek (4)	Raft River (5)	
ALL ENTERPRISES					
Farms and land irrigated:					
1 All irrigation enterprises.....enterprises 1950..	3,165	15	3	12	2,526
2	2,401	11	4	7	1,923
3 Interbasin.....enterprises 1950..	35	1	1	.....	23
4 Farms irrigated direct per enterprise ².....farms 1950..	9.3	3.8	0.7	4.6	9.6
5 Irrigated land ³.....acres 1949..	1,166,972	6,320	510	5,810	856,568
6	1,176,116	2,456	387	2,069	848,761
7 Average per enterprise.....acres 1949..	369	421	170	484	339
8 Average acreage irrigated direct per enterprise ².....acres 1949..	390	421	170	484	363
Type of enterprise, 1950:					
9 Single-farm.....enterprises..	2,107	8	3	5	1,655
10	151,688	1,935	510	1,425	107,452
Mutual:					
11 Unincorporated.....enterprises..	406	5	.....	5	335
12	100,181	1,681	.....	1,681	85,212
13 Incorporated.....enterprises..	634	2	.....	2	526
14	874,588	(⁴)	.....	(⁴)	677,086
15 Commercial.....enterprises..	2	.....	.....	.....	1
16	(⁴)	.....	.....	.....	(⁴)
17 District.....enterprises..	5	.....	.....	.....	3
18	11,079	.....	.....	.....	3,799
19 U. S. Bureau of Reclamation ⁵.....enterprises..	1	.....	.....	.....	1
20 .....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁵.....enterprises..	3	.....	.....	.....	.....
22	54,452	.....	.....	.....	.....
23 State.....enterprises..	.....	.....	.....	.....	.....
24 .....	.....	.....	.....	.....	.....
25 City.....enterprises..	7	.....	.....	.....	5
26	2,179	.....	.....	.....	2,111
Use of surface, ground, pumped and stored water, 1949:					
Surface water:					
27 Gravity only.....enterprises reporting..	2,492	15	3	12	1,910
28	1,051,757	6,320	510	5,810	740,181
29 Pumped only.....enterprises reporting..	168	.....	.....	.....	136
30	19,203	.....	.....	.....	16,436
31 Gravity and pumped.....enterprises reporting..	91	.....	.....	.....	82
32	99,589	.....	.....	.....	97,981
33 Ground water only (pumped from wells).....enterprises reporting..	331	.....	.....	.....	325
34	27,051	.....	.....	.....	26,657
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	83	.....	.....	.....	73
36	37,338	.....	.....	.....	35,176
Stored water:					
37 None stored.....enterprises reporting..	2,570	14	3	11	2,039
38	580,874	5,909	510	5,399	426,257
39 Part stored.....enterprises reporting..	405	.....	.....	.....	332
40	564,072	.....	.....	.....	403,339
41 All stored.....enterprises reporting..	190	1	.....	1	155
42	89,992	411	.....	411	86,835
Sources of surface water, 1949:⁶					
43 Streams (and lakes).....enterprises reporting..	1,817	13	2	11	1,298
44	1,133,694	5,315	435	4,880	823,051
45 Springs.....enterprises reporting..	689	10	3	7	557
46	170,491	3,831	510	3,321	143,910
47 Flowing wells.....enterprises reporting..	533	.....	.....	.....	526
48	64,034	.....	.....	.....	63,774
49 Drainage water.....enterprises reporting..	230	.....	.....	.....	190
50	80,888	.....	.....	.....	64,032
51 Sewage.....enterprises reporting..	7	.....	.....	.....	4
52	161	.....	.....	.....	93
53 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....
54 .....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁷					
Irrigated land drained:					
55 Enterprises reporting.....enterprises 1949..	435	.....	.....	.....	415
56 Area supplied primary irrigation.....acres 1949..	384,172	.....	.....	.....	322,526
57 Area artificially drained.....acres 1949..	151,965	.....	.....	.....	138,755
58	85,157	.....	.....	.....	82,095
Irrigated land in need of drainage:					
59 Enterprises reporting.....enterprises 1949..	415	2	1	1	344
60 Area supplied primary irrigation.....acres 1949..	425,428	1,065	135	930	270,952
61 Area in need of drainage.....acres 1949..	89,070	403	3	400	48,732
62	28,418	.....	.....	.....	22,630

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

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

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

Bonneville Basin excluding Bear River (III-D)													
Great Salt Lake Basin excluding Bear River													
Total	Southeast Great Salt Lake Basin												
	Total	Northwest Great Salt Lake Basin	Southwest Great Salt Lake Basin	Total	Great Salt Lake direct	Weber River above Gateway	Jordan River						
							Total	Jordan River direct	West Utah Lake Area	Northeast Utah Lake area	Provo River above Vivian	Southeast Utah Lake area	
(1)	(2)	(3a)	(3b)	(3c)	(3d)	(3e)	(3f)	(3g)					
2,265	1,461	30	103	1,329	491	236	606	106	36	276	71	122	1
1,649	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	23	(*)	(*)	64	2
19	13	1	1	12	4	4	8	4	2	2	4	1	3
9.1	9.5	4.2	3.3	10.1	8.2	4.2	13.8	30.4	11.6	7.9	10.6	14.5	4
669,906	356,124	14,470	13,987	327,667	94,929	38,351	194,387	54,685	22,722	33,679	27,747	55,554	5
670,105	375,260	10,112	10,038	355,110	91,391	31,166	232,553	75,073	17,146	51,543	28,674	60,117	6
296	244	482	136	247	193	163	321	516	631	122	391	455	7
320	268	491	138	273	212	164	364	577	631	156	404	530	8
1,533	1,011	20	81	911	351	127	434	42	20	241	38	93	9
90,097	48,338	3,125	6,064	39,149	11,472	9,086	18,591	2,374	1,591	6,400	3,677	4,549	10
284	167	2	11	154	52	61	41	12	5	7	12	6	11
62,912	31,458	(4)	1,440	28,802	12,827	10,333	5,642	1,796	682	617	1,769	778	12
438	275	8	11	256	85	48	126	51	11	26	20	22	13
562,419	302,724	10,375	6,699	285,650	75,271	19,403	190,976	56,992	20,457	32,141	23,225	58,161	14
1	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	15
(4)	(4)	.....	.....	(4)	(4)	.....	.....	.....	.....	.....	.....	.....	16
3	3	.....	.....	3	2	.....	.....	.....	.....	.....	.....	.....	17
3,799	3,799	.....	.....	3,799	(4)	.....	(4)	.....	.....	(4)	.....	.....	18
1	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
5	3	.....	.....	3	.....	.....	3	.....	.....	.....	.....	.....	24
2,111	2,000	.....	.....	2,000	.....	.....	2,000	(4)	1	(4)	.....	(4)	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
1,748	1,243	29	91	1,124	349	229	550	71	32	262	71	117	27
602,464	328,224	14,646	13,061	300,517	93,950	38,645	167,922	17,625	20,718	36,678	28,671	64,230	28
93	88	.....	.....	88	63	4	21	12	2	5	.....	3	29
9,859	9,711	.....	.....	9,711	2,375	55	7,281	4,927	1,991	110	.....	253	30
37	36	.....	.....	34	12	3	19	17	.....	2	.....	1	31
56,278	44,478	.....	252	44,226	6,506	122	37,598	37,424	.....	55	.....	119	32
324	68	1	3	64	55	.....	9	2	2	5	.....	.....	33
26,632	1,180	70	53	1,057	792	.....	265	19	21	225	.....	.....	34
63	26	.....	7	19	12	.....	7	4	.....	2	.....	1	35
29,881	8,502	.....	837	7,665	450	.....	7,215	1,167	.....	6,018	.....	30	36
1,840	1,171	22	82	1,068	380	173	516	75	27	259	57	98	37
335,533	138,998	10,336	11,106	117,556	28,338	18,732	70,486	12,161	15,002	14,478	15,110	13,735	38
284	218	3	9	206	79	56	74	28	4	14	12	20	39
307,893	235,683	4,017	2,330	229,336	70,404	19,830	139,102	45,720	4,782	25,487	13,561	49,552	40
141	72	5	12	55	32	7	16	3	5	3	2	4	41
81,688	17,414	363	767	16,284	5,331	260	10,693	3,281	2,946	3,121	.....	1,345	42
1,132	769	18	23	728	216	221	295	73	25	81	53	68	43
642,136	351,631	9,839	7,545	334,247	92,968	38,345	202,934	60,164	19,539	36,563	28,052	58,616	44
477	356	15	38	304	104	39	161	15	11	53	37	45	45
124,890	88,705	8,863	6,601	73,241	7,610	8,883	56,748	7,490	8,679	3,248	13,173	24,158	46
495	398	.....	49	349	129	.....	220	25	2	175	1	17	47
56,469	34,613	.....	2,282	32,331	14,575	.....	17,756	394	122	7,959	600	8,681	48
163	147	.....	6	141	58	8	75	10	1	41	1	22	49
45,524	44,492	.....	750	43,742	18,352	263	25,127	898	3,114	4,098	90	16,927	50
4	4	.....	.....	4	1	.....	3	1	.....	1	.....	.....	51
93	93	.....	.....	93	40	.....	53	25	.....	15	.....	13	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
348	308	1	12	295	111	5	179	17	1	128	.....	33	55
216,533	145,470	1,579	1,961	141,930	60,673	1,103	80,154	23,803	362	11,227	.....	44,762	56
109,310	60,072	10	533	59,529	31,290	201	28,038	7,489	362	4,367	.....	15,820	57
64,372	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12,625	58
261	209	4	6	199	90	24	85	10	.....	55	2	18	59
146,185	103,525	2,889	569	100,067	60,088	7,208	32,771	14,155	.....	7,450	170	10,996	60
29,160	22,157	100	111	21,946	14,294	883	6,769	1,944	.....	2,751	35	2,039	61
7,485	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1,403	62

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

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

Bonneville Basin excluding Bear River (III-D)—Continued							Bear River (III-F)					Gulf of California		
Sevier River —Continued		Snake Valley	Escalante River and Shoal Creek	Beaver River	Little Salt Lake	Coal Creek	Total	Bear River direct						
San Pitch River	East Fork							Total	Below Alexander, Idaho	Alexander to Woodruff, Utah	Upper Malad River		Little Bear River	
(4d)	(4e)	(5)	(6)	(7)	(8)	(9)	(10)	(1a)	(1b)	(2)	(3)	(4)		
128	40	19	113	128	51	76	264	179	134	45	4	84	628	1
78	33	35	(*)	98	40	(*)	174	(*)	(*)	(*)	(*)	70	575	2
2	1		1				7	6	4	2		4	15	3
12.9	5.5	2.3	1.9	4.6	4.4	3.9	14.4	12.9	15.0	6.8	6.8	17.5	304,084	4
58,675	12,324	10,079	14,322	24,414	8,733	13,421	186,662	148,681	94,005	54,676	797	37,184	324,899	5
63,664	10,715	11,061	6,227	20,612	8,625	10,751	178,656	130,245	85,695	44,550	821	47,590	484	6
458	308	530	127	191	171	177	707	831	702	1,215	199	443	497	7
487	309	530	149	194	187	264	725	847	718	1,233	199	462	497	8
67	18	12	105	86	41	54	124	76	56	20	2	46	444	9
2,031	1,779	1,524	11,102	5,155	4,368	6,066	17,355	14,670	2,463	12,207	(4)	2,630	42,301	10
21	11	4	5	25	4	11	51	46	40	6		5	66	11
6,664	2,758	2,573	471	4,528	2,815	1,645	22,300	21,890	18,625	3,265		410	13,288	12
40	11	3	3	16	5	11	88	56	37	19	2	33	110	13
53,588	7,815	5,982	5,212	15,122	2,328	12,320	114,667	78,137	38,132	40,005	(4)	35,788	194,798	14
							(4)	1	(4)	1			(4)	15
													(4)	16
													(4)	17
													(4)	18
														19
														20
														21
													54,452	22
														23
														24
				(4)	1	(4)							(4)	25
														26
111	40	15	17	59	16	19	165	90	54	36	4	74	571	27
51,368	12,352	9,963	4,830	20,257	5,664	11,969	137,717	106,449	53,132	53,317	797	30,471	305,256	28
							43	42	39	3		1	32	29
							6,577	6,558	5,978	580		19	2,767	30
							45	40	39	1		5	9	31
							41,703	34,433	34,401	32		7,270	1,608	32
														33
13		4	94	69	29	38	1	1		1			6	33
1,240		116	10,262	4,627	3,202	5,552	25	25		25			394	34
4			2		6	19	10	6		2			10	35
9,675		1,693	677		2,510	5,295	4,227	2,704	1,523	1,068			2,162	36
112	33	16	80	116	45	72	200	121	85	36	3	79	518	37
53,435	8,699	8,871	11,469	12,769	5,797	19,741	90,724	58,507	21,408	37,099	757	31,460	148,708	38
4	4	2	9	8	5	3	50	47	41	6		3	75	39
2,843	3,458	725	3,585	9,834	3,246	270	95,446	91,132	73,034	18,098		4,314	160,733	40
12	3	1	24	4	1	1	14	11	8	3		1	35	41
6,005	195	483	1,731	2,281	500	20	5,147	2,053	1,773	280	40	3,054	2,746	42
62	34	11	14	54	13	28	168	132	93	39	3	36	510	43
59,432	12,067	6,053	6,316	19,565	5,763	13,701	180,915	147,491	92,701	54,790	642	32,782	305,328	44
51	5	4	6	5	3	8	81	40	31	9	4	37	125	45
10,025	2,447	3,910	453	724	208	767	19,020	6,613	3,268	3,345	797	11,610	22,750	46
13	3	1		2	6	3	31	9	8	1		22	8	47
5,742	218	100		773	370	126	7,305	835	805	30		6,470	260	48
6				3			27	24	19	5		3	44	49
150				30			18,508	18,265	3,103	15,162		243	16,856	50
														51
														52
														53
														54
3	1	1					68	49	45	4		19	20	55
760	764	725					105,993	84,281	77,529	6,752		21,712	61,646	56
53	115	400					29,445	26,020	25,910	110		3,425	13,210	57
237		(*)					17,723	(*)	(*)	(*)	(*)	3,085	3,062	58
7	2	1		13	4		84	51	38	13	1	32	69	59
8,115	1,190	725		2,085	326		124,767	98,949	69,449	29,500	587	25,231	153,411	60
1,022	115	400		272	273		19,572	15,246	12,761	2,485	71	4,255	39,935	61
164		(*)					15,145	(*)	(*)	(*)	(*)	2,135	5,788	62

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)	Colorado River below Lees Ferry, Arizona (IV-B)			Colorado River above Lees Ferry, Arizona excluding Green River (IV-D)			
	Total	Colorado River direct	Virgin River	Total	Colorado River direct	San Juan River direct	
		(1b)	(3a)		(1a)	(2a)	
ALL ENTERPRISES							
Farms and land irrigated:							
1	All irrigation enterprises.....enterprises 1950..	156	11	145	150	71	39
2	1940..	128	15	113	105	90	15
3	Interbasin.....enterprises 1950..	1		1	3	3	
4	Farms irrigated direct per enterprise ².....farms 1950..	5.7	5.7	5.7	5.9	4.7	4.0
5	Irrigated land ³.....acres 1949..	19,583	1,531	18,052	47,145	17,242	5,589
6	1939..	19,271	1,798	17,473	42,439	9,109	4,784
7	Average per enterprise.....acres 1949..	126	139	124	314	243	143
8	Average acreage irrigated direct per enterprise ².....acres 1949..	127	139	126	322	253	150
Type of enterprise, 1950:							
9	Single-farm.....enterprises..	102	8	94	104	49	32
10	acres irrigated..	5,045	239	4,806	12,074	4,693	1,562
Mutual:							
11	Unincorporated.....enterprises..	14	1	13	23	12	3
12	acres irrigated..	866	(⁴)	766	3,907	1,770	982
13	Incorporated.....enterprises..	37	2	35	21	10	2
14	acres irrigated..	13,759	(⁴)	12,567	32,148	11,480	(⁴)
15	Commercial.....enterprises..				1		1
16	acres irrigated..				(⁴)		(⁴)
17	District.....enterprises..						
18	acres irrigated..						
19	U. S. Bureau of Reclamation ⁵.....enterprises..						
20	acres irrigated..						
21	U. S. Bureau of Indian Affairs ⁵.....enterprises..	1		1	1		1
22	acres irrigated..	44		44	152		152
23	State.....enterprises..						
24	acres irrigated..						
25	City.....enterprises..	2		2			
26	acres irrigated..	(⁴)		(⁴)			
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
27	Gravity only.....enterprises reporting..	141	10	131	141	66	37
28	acres irrigated..	17,128	1,506	15,622	47,508	17,358	5,747
29	Pumped only.....enterprises reporting..	5		5	4	3	1
30	acres irrigated..	411		411	305	215	90
31	Gravity and pumped.....enterprises reporting..	1	1		1	1	
32	acres irrigated..	25	25		350	350	
33	Ground water only (pumped from wells).....enterprises reporting..	4		4	2		
34	acres irrigated..	309		309	85		
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	5		5	2	1	1
36	acres irrigated..	1,909		1,909	33	20	13
Stored water:							
37	None stored.....enterprises reporting..	138	8	130	115	61	23
38	acres irrigated..	17,419	1,356	16,063	22,085	9,950	4,845
39	Part stored.....enterprises reporting..	9	1	8	22	8	7
40	acres irrigated..	2,204	100	2,104	25,364	7,652	618
41	All stored.....enterprises reporting..	9	2	7	13	2	9
42	acres irrigated..	159	75	84	832	341	387
Sources of surface water, 1949:⁶							
43	Streams (and lakes).....enterprises reporting..	110	5	105	134	67	37
44	acres irrigated..	18,104	1,310	16,794	47,292	17,472	5,823
45	Springs.....enterprises reporting..	48	6	42	25	10	1
46	acres irrigated..	2,119	221	1,898	7,922	3,177	8
47	Flowing wells.....enterprises reporting..				4		2
48	acres irrigated..				124		27
49	Drainage water.....enterprises reporting..	2		2	1	1	
50	acres irrigated..	84		84	175	175	
51	Sewage.....enterprises reporting..	2		2	1		1
52	acres irrigated..	28		28	40		40
53	Other sources.....enterprises reporting..						
54	acres irrigated..						
Drainage of irrigated land:⁷							
Irrigated land drained:							
55	Enterprises reporting.....enterprises 1949..	5		5	2		
56	Area supplied primary irrigation.....acres 1949..	3,952		3,952	10,309		
57	Area artificially drained.....acres 1949..	240		240	2,752		
58	acres 1939..			([*])			
Irrigated land in need of drainage:							
59	Enterprises reporting.....enterprises 1949..	13	1	12	9	2	
60	Area supplied primary irrigation.....acres 1949..	4,587	50	4,537	15,063	65	
61	Area in need of drainage.....acres 1949..	601	10	591	1,262	22	
62	acres 1939..			([*])			([*])

*Not available.

¹Includes data for less than 3 enterprises in White River Basin (IV-E-4).

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

³Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries.

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 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: Snake River, King Hill, Idaho, to American Falls, Idaho (I-G)			Great Basin
		Total	Upper Goose Creek	Raft River	
			(4)	(5)	
ALL ENTERPRISES					
Irrigation works:					
1 Diversion dams.....enterprises reporting 1950..	1,755	9	3	6	1,245
2 dams 1950..	3,080	18	5	13	2,214
3 dams 1940..	1,973	33	2	31	1,367
Diversion dams by material:					
4 Concrete or masonry.....dams 1950..	642	4	1	3	540
5 Timber.....dams 1950..	361	.....	.....	.....	297
6 Earth and rock.....dams 1950..	1,708	14	4	10	1,138
7 Other, mixed, and not reported.....dams 1950..	369	.....	.....	.....	239
Reservoirs.....enterprises reporting 1950..					
8 reservoirs 1950..	511	1	.....	1	240
9 reservoirs 1940..	438	3	.....	3	345
10 Reservoirs for which capacity was reported.....reservoirs 1950..	476	1	.....	1	335
11 total capacity, acre-feet 1950..	2,224,361	300	.....	300	319
12 total capacity, acre-feet 1940..	3,417,704	315	.....	315	1,742,964
13					3,373,652
Reservoirs by capacity:					
14 1-99 acre-feet.....reservoirs 1950..	288	.....	.....	.....	213
15 100-999 acre-feet.....reservoirs 1950..	114	1	.....	1	63
16 1,000 acre-feet and over.....reservoirs 1950..	74	.....	.....	.....	43
Reservoir dams by material:					
17 Concrete or masonry.....dams 1950..	30	.....	.....	.....	29
18 Earth and rock.....dams 1950..	452	1	.....	1	294
19 Other, mixed, and not reported.....dams 1950..	29	.....	.....	.....	22
Canals and ditches.....enterprises reporting 1950..					
20 total length, miles 1950..	1,837	10	1	9	1,337
21 total length, miles 1940..	9,621	57	2	55	6,323
22	9,004	18	.....	18	5,975
Pipelines and siphons ².....enterprises reporting 1950..					
23 total length, miles 1950..	203	.....	.....	.....	157
24 total length, miles 1940..	300	.....	.....	.....	279
25	172	.....	.....	.....	157
26 Tunnels.....enterprises reporting 1950..	42	.....	.....	.....	26
27 total length, feet 1950..	59,305	.....	.....	.....	36,992
28 Flowing wells.....enterprises reporting 1950..	533	.....	.....	.....	526
29 wells 1950..	1,925	.....	.....	.....	1,912
30 wells 1940..	1,216	.....	.....	.....	1,216
Pumped wells.....enterprises reporting 1950..					
31 wells 1950..	414	.....	.....	.....	398
32 wells 1940..	560	.....	.....	.....	539
33	286	.....	.....	.....	284
34 Wells for which pumping lift was reported.....wells 1949..	510	.....	.....	.....	495
35 Average pumping lift.....feet 1949..	50	.....	.....	.....	50
36	38	.....	.....	.....	38
Irrigation pumps.....enterprises reporting 1950..					
37 pumps 1950..	605	.....	.....	.....	549
38 pumps 1940..	816	.....	.....	.....	745
39	409	.....	.....	.....	376
40 Electric motors used for pumping.....enterprises reporting 1950..	429	.....	.....	.....	412
41 electric motors 1950..	594	.....	.....	.....	573
42	293	.....	.....	.....	290
Other motors and engines used for pumping.....enterprises reporting 1950..					
43 other motors and engines 1950..	181	.....	.....	.....	145
44 other motors and engines 1940..	203	.....	.....	.....	161
45	118	.....	.....	.....	114
Season of irrigation, 1949:					
46 Water delivered only before July 1.....enterprises reporting..	54	1	.....	1	34
47 acres irrigated..	14,676	40	.....	40	8,684
48 Water delivered before and after July 1.....enterprises reporting..	2,923	14	3	11	2,335
49 acres irrigated..	1,206,037	6,280	510	5,770	895,950
50 Water delivered only after July 1.....enterprises reporting..	52	.....	.....	.....	47
51 acres irrigated..	6,540	.....	.....	.....	6,407
Capital investment:					
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	41,896,532	26,935	900	26,035	32,655,451
New capital investment Jan. 1, 1940, to Jan. 1, 1950:					
53 Enterprises reporting.....enterprises 1950..	1,304	3	.....	3	938
54 Amount.....dollars 1950..	14,642,904	8,500	.....	8,500	11,580,566
55 Area irrigated direct.....acres 1949..	837,917	1,461	.....	1,461	562,348
56 Total capital investment Jan. 1, 1950.....dollars 1950..	56,539,436	35,435	900	34,535	44,236,017
Indebtedness:⁴					
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
57 Enterprises reporting.....enterprises 1950..	144	.....	.....	.....	101
58 Amount.....dollars 1950..	21,971,745	.....	.....	.....	18,785,548
59	13,766,417	.....	.....	.....	11,675,347
60 Area irrigated direct.....acres 1949..	276,771	.....	.....	.....	142,577
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
61 Enterprises reporting.....enterprises 1950..	4	.....	.....	.....	4
62 Amount.....dollars 1950..	62,620	.....	.....	.....	62,620
63 Area irrigated direct.....acres 1949..	6,266	.....	.....	.....	6,266

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

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

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

Honneville Basin excluding Bear River (III-D)													
Great Salt Lake Basin excluding Bear River													
Total	Total	Northwest Great Salt Lake Basin (1)	Southwest Great Salt Lake Basin (2)	Southeast Great Salt Lake Basin									
				Total	Great Salt Lake direct (3a)	Weber River above Gateway (3b)	Jordan River						
							Total	Jordan River direct (3c)	West Utah Lake area (3d)	Northeast Utah Lake area (3e)	Provo River above Vivian	Southeast Utah Lake area (3g)	
1,137	774	18	53	704	162	197	345	48	-16	124	61	96	1
1,940	1,385	50	110	1,225	213	391	621	79	21	215	138	168	2
1,182	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	40	(*)	(*)	82	3
467	332	14	23	295	60	57	178	43	7	63	25	40	4
279	193	.....	26	167	18	97	52	2	.....	23	18	9	5
1,014	724	28	55	641	121	191	329	14	5	114	85	111	6
180	136	8	6	122	14	46	62	20	9	15	10	8	7
221	119	7	19	93	41	22	31	8	3	7	7	8	8
319	195	8	35	152	53	36	63	11	4	9	25	14	9
316	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3	(*)	(*)	9	10
296	174	6	35	133	35	35	63	11	4	9	25	14	11
1,707,547	1,186,122	6,631	663	1,178,828	46,687	108,683	1,023,458	1,279	8,522	850,524	162,030	1,103	12
1,932,725	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	860,020	(*)	(*)	1,359	13
199	118	4	31	83	30	23	30	5	3	5	4	13	14
57	38	.....	4	34	2	6	26	6	.....	3	16	1	15
40	18	2	.....	16	3	6	7	.....	1	1	5	.....	16
27	22	.....	1	21	16	2	3	1	.....	1	.....	1	17
272	158	6	34	118	32	30	56	6	4	8	25	13	18
20	15	2	.....	13	5	4	4	4	.....	.....	.....	.....	19
1,148	747	25	44	678	210	189	281	71	31	73	44	66	20
5,306	3,112	116	135	2,861	816	405	1,640	497	138	394	182	432	21
4,701	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	90	(*)	(*)	471	22
128	114	4	8	102	68	8	26	9	4	9	1	3	23
263	244	8	38	198	162	7	29	12	8	8	(3)	1	24
151	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	10	(*)	(*)	2	25
24	12	.....	.....	12	4	2	6	1	.....	1	2	2	26
35,555	16,318	.....	.....	16,318	4,893	270	11,155	200	.....	900	255	9,800	27
495	399	.....	48	351	128	.....	223	21	2	180	1	19	28
1,813	1,403	.....	278	1,125	405	.....	720	70	7	571	1	71	29
1,189	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	10	(*)	(*)	64	30
387	95	1	10	84	68	.....	16	6	2	7	.....	1	31
528	106	3	12	91	74	.....	17	7	2	7	.....	1	32
273	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.....	(*)	(*)	2	33
485	87	3	12	72	59	.....	13	3	2	7	.....	1	34
50	50	43	39	52	51	.....	52	40	102	47	.....	12	35
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.....	(*)	(*)	.....	36
487	191	1	12	178	134	7	37	17	3	14	.....	4	37
669	242	3	14	225	158	7	60	26	4	25	.....	5	38
332	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14	(*)	(*)	.....	39
368	112	.....	8	104	83	2	19	12	1	7	.....	40	
515	144	.....	10	134	93	2	39	19	2	18	.....	41	
252	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14	(*)	(*)	.....	42
127	81	1	3	77	55	4	18	6	2	6	.....	4	43
143	91	3	3	85	61	4	20	7	2	6	.....	5	44
108	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.....	(*)	(*)	.....	45
32	10	.....	.....	10	3	5	2	1	.....	.....	.....	1	46
8,407	979	.....	.....	979	103	584	292	250	.....	.....	.....	42	47
2,093	1,359	27	100	1,232	457	215	564	96	35	261	66	111	48
706,060	383,427	14,144	13,863	355,420	100,002	37,675	217,743	59,487	22,610	42,771	28,619	64,256	49
42	33	1	1	31	18	5	8	2	.....	4	2	.....	50
6,270	5,047	80	18	4,949	3,346	96	1,507	1,357	.....	150	.....	.....	51
26,958,406	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	538,902	(*)	(*)	3,719,390	52
824	482	13	29	440	174	66	202	31	18	108	18	27	53
10,590,680	8,873,610	143,405	82,166	8,648,039	905,797	124,906	7,617,336	95,367	229,996	191,736	7,040,692	59,545	54
425,506	205,623	8,739	4,404	192,480	65,575	17,253	109,652	25,010	14,443	22,653	14,982	32,564	55
37,549,086	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	768,898	(*)	(*)	3,778,935	56
93	60	3	2	55	10	29	17	6	3	1	3	4	57
7,638,110	17,038,071	72,250	10,385	16,955,436	3,799,292	11,630,647	1,525,497	79,872	106,500	114,000	15,525	1,209,600	58
10,727,091	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1,900	(*)	(*)	1,801,072	59
132,851	67,397	5,284	1,341	60,772	15,696	13,981	31,095	6,881	8,606	4,612	2,522	8,474	60
3	3	.....	.....	3	1	.....	2	1	.....	.....	.....	1	61
31,712	31,712	.....	.....	31,712	15,265	.....	16,447	16,247	.....	.....	.....	200	62
6,266	6,266	.....	.....	6,266	3,851	.....	2,415	925	.....	.....	.....	1,490	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)		Bonneville Basin excluding Bear River (III-D)—Continued				
		Sevier River				
		Total	Sevier River direct			
			Total	Below Gunnison (4a)	Gunnison to Sevier (4b)	Above Sevier (4c)
ALL ENTERPRISES						
Irrigation works:						
1	Diversion dams.....enterprises reporting 1950..	257	149	45	48	57
2	dams 1950..	406	248	70	63	115
3	1940..	310	172	(*)	(*)	(*)
Diversion dams by material:						
4	Concrete or masonry.....dams 1950..	100	69	39	22	8
5	Timber.....dams 1950..	70	33	10	7	16
6	Earth and rock.....dams 1950..	195	106	19	33	54
7	Other, mixed, and not reported.....dams 1950..	41	40	2	1	37
8	Reservoirs.....enterprises reporting 1950..	53	34	14	9	12
9	reservoirs 1950..	64	41	16	10	15
10	1940..	83	57	(*)	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	63	41	16	10	15
12	total capacity, acre-feet 1950..	477,246	391,614	255,561	33,745	102,308
13	1940..	465,872	377,216	(*)	(*)	(*)
Reservoirs by capacity:						
14	1-99 acre-feet.....reservoirs 1950..	35	24	9	3	12
15	100-999 acre-feet.....reservoirs 1950..	11	6	2	3	1
16	1,000 acre-feet and over.....reservoirs 1950..	17	11	5	4	2
Reservoir dams by material:						
17	Concrete or masonry.....dams 1950..	2	1			1
18	Earth and rock.....dams 1950..	59	38	16	10	12
19	Other, mixed, and not reported.....dams 1950..	3	2			2
20	Canals and ditches.....enterprises reporting 1950..	263	146	51	55	43
21	total length, miles 1950..	1,727	1,085	603	317	165
22	1940..	1,307	862	(*)	(*)	(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	7	3	2		1
24	total length, miles 1950..	9	4	4		(3)
25	1940..	15	10	(*)	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	8	2	1	1	
27	total length, feet 1950..	18,210	2,200	2,000	200	1
28	Flowing wells.....enterprises reporting 1950..	83	68	37	30	1
29	wells 1950..	340	286	101	180	5
30	1940..	362	349	(*)	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	32	15	9	5	1
32	wells 1950..	34	16	10	5	1
33	1940..	14	10	(*)	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	29	11	6	4	1
35	Average pumping lift.....feet 1949..	55	36	46	25	12
36	1939..	40	41	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	37	21	12	7	2
38	pumps 1950..	40	22	13	7	2
39	1940..	16	12	(*)	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	19	3		3	
41	electric motors 1950..	21	3		3	
42	1940..	5	3	(*)	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	18	16	11	3	2
44	other motors and engines 1950..	19	17	12	3	2
45	1940..	11	9	(*)	(*)	(*)
Season of Irrigation, 1949:						
46	Water delivered only before July 1.....enterprises reporting..	21	14	9	2	3
47	acres irrigated..	7,198	3,861	3,256	435	170
48	Water delivered before and after July 1.....enterprises reporting..	371	219	81	83	58
49	acres irrigated..	243,516	172,447	75,946	71,457	25,044
50	Water delivered only after July 1.....enterprises reporting..	3	1	1		
51	acres irrigated..	219	20	20		
Capital investment:						
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	6,092,351	4,838,118	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:						
53	Enterprises reporting.....enterprises 1950..	154	92	33	29	33
54	Amount.....dollars 1950..	739,038	465,997	182,895	197,750	85,352
55	Area irrigated direct.....acres 1949..	165,014	114,928	50,012	42,650	22,266
56	Total capital investment Jan. 1, 1950.....dollars 1950..	6,831,389	5,304,115	(*)	(*)	(*)
Indebtedness:⁴						
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:						
57	Enterprises reporting.....enterprises 1950..	29	15	6	9	2
58	Amount.....dollars 1950..	445,936	125,367	29,600	76,550	19,217
59	1940..	780,564	363,025	(*)	(*)	(*)
60	Area irrigated direct.....acres 1949..	61,608	33,635	8,141	23,387	2,107
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.

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]

Colorado River above Lees Ferry, Arizona excluding Green River (IV-D)—Continued				Green River (IV-E)										
Fremont River			Dolores River	Total	Green River Direct ¹	San Rafael River	Price River	Duchesne River			Ashley Creek	Brush Creek	Henry's Fork	
Total	Fremont River direct	Muddy River						Total	Duchesne River direct	Uintah River				Lake Fork
(3a)	(3b)	(4a)	(1 and 4)	(2)	(3)	(5a)	(5b)	(5c)	(6)	(7)	(9)			
27	24	3	5	254	41	12	17	132	69	56	12	37	15	2
41	34	7	9	474	86	17	30	256	96	146	14	59	20	6
26	20	6	18	345	78	33	35	159	(*)	(*)	(*)	18	11	3
11	8	3	2	54	5	6	5	28	2	25	1	9		4
3	3	1		35	2	1	5	27	13	14				5
27	23	4	6	290	59	4	18	145	64	73	8	43	16	6
			1	95	20	6	2	56	17	34	5	7	4	7
9	6	3		30	6	6	7	7	3	5	1	2	1	8
21	15	6		74	13	15	7	31	8	17	6	4	1	9
18	12	6	2	54	6	2	10	30	(*)	(*)	(*)	2	1	3
21	15	6		70	10	15	7	30	8	16	6	4	1	10
21,301	19,576	1,725		454,855	6,074	13,771	68,924	350,282	294,824	14,338	41,120	7,755	1,399	11
15,353	14,488	865	(*)	401,140	2,565	(*)	34,736	346,851	(*)	(*)	(*)	(*)	(*)	12
5	5			15	4	6	1	3		3		1		14
11	5	6		30	4	4	4	15	5	6	4	2		15
5	5			25	2	5	2	12	3	7	2	1	1	16
1	1													17
20	14	6		70	12	14	6	30	8	16	6	4	1	18
				4	1	1	1	1		1				19
31	27	4	5	260	50	13	25	124	71	50	14	35	11	20
213	160	53	18	2,309	184	123	130	1,658	351	1,029	278	169	23	21
109	81	28	43	2,594	203	234	148	1,871	(*)	(*)	(*)	85	26	22
4	4			14	4	1	3	2		1	1	4		23
1	1			4	1		1	2			2	(3)		24
(3)	(3)			4	1		1	1	(*)	(*)	(*)	(3)	(3)	25
3	2	1		6	2		3	2	2	2		1		26
1,360	700	660		12,305			1,280	10,625	9,725	900		400		27
3	3			1			1	1						28
7	7			3			3							29
									(*)	(*)	(*)			30
1	1		1	3	3									31
1	1		1	4	4				(*)	(*)	(*)			32
														33
			30						(*)	(*)	(*)			34
														35
									(*)	(*)	(*)			36
1	1		1	32	26	1		2	2			1	2	37
1	1		1	39	32	1		2	2			2	2	38
				28	25	1	1	1	(*)	(*)	(*)			39
1	1		1	5	3			1	1				1	40
1	1		1	6	4			1	1				1	41
				1	1				(*)	(*)	(*)			42
				24	22								1	43
				28	26								1	44
				29	26	1	1	1	(*)	(*)	(*)			45
														46
			1	3				3		3				47
			150	4,216				4,261		4,216				48
33	29	4	5	300	69	14	28	138	80	51	17	37	15	3
22,941	14,657	8,284	827	238,882	18,736	37,460	18,251	134,257	92,727	69,428	32,102	27,128	1,554	1,496
				4			1	1		1		1		49
				132		20		26		26		86		50
														51
319,790	151,990	167,800	51,335	7,599,544	764,298	1,203,230	622,544	4,477,764	(*)	(*)	(*)	397,061	92,818	41,829
21	18	3	4	209	38	11	18	108	66	39	12	24	8	4
154,750	144,550	10,200	3,170	2,284,343	291,814	273,772	1,055,881	441,014	176,786	203,270	60,958	62,372	32,990	126,500
19,285	13,653	5,632	787	222,554	14,653	36,686	16,645	127,653	29,589	71,575	26,489	24,218	1,203	1,496
474,540	296,540	178,000	54,505	9,883,887	1,056,112	1,477,002	1,678,425	4,918,778	(*)	(*)	(*)	459,433	125,808	168,329
														55
5	3	2		23	1	3	3	14	6	8	7	3		57
15,500	13,000	2,500		3,009,678	27,200	55,740	226,560	2,669,721	202,523	1,600,096	867,102	30,457		58
30,800	800	30,000		2,047,508		4,500	24,992	1,954,822	(*)	(*)	(*)	61,994	1,200	59
7,818	2,656	5,162		112,072	1,945	35,622	11,319	54,973	5,511	28,713	20,749	8,213		60
														61
														62
														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: Snake River, King Hill, Idaho, to American Falls, Idaho (I-G)			Great Basin	
		Total	Upper Goose Creek (4)	Raft River (5)		
ALL ENTERPRISES						
Cost of water to farms, 1949: ²						
Total cost of water to farms:						
1	Enterprises reporting.....enterprises..	3,110	15	3	12	2,480
2	Cost.....dollars..	2,266,375	2,790	0	2,790	1,721,762
3	Area irrigated direct.....acres..	1,234,938	6,320	510	5,810	916,431
4	Cost per acre irrigated direct.....dollars..	1.84	0.44	0.00	0.48	1.88
5	Total cost per irrigated acre.....dollars..	1.94	0.44	0.00	0.48	2.01
6	Total cost per acre-foot of water.....dollars..	0.63	0.19	(4)	0.21	0.67
Enterprises by cost per acre:						
7	Less than \$1.00.....enterprises reporting..	1,796	13	3	10	1,424
8	.....acres irrigated..	415,806	5,270	510	4,760	332,246
9	\$1.00-\$1.99.....enterprises reporting..	395	2		2	300
10	.....acres irrigated..	435,366	1,050		1,050	278,610
11	\$2.00-\$4.99.....enterprises reporting..	470				372
12	.....acres irrigated..	305,646				239,540
13	\$5.00-\$9.99.....enterprises reporting..	271				232
14	.....acres irrigated..	67,076				56,466
15	\$10.00 and over.....enterprises reporting..	178				152
16	.....acres irrigated..	11,044				9,569
Cost of water for primary irrigation:						
17	Enterprises reporting.....enterprises..	2,972	15	3	12	2,362
18	Cost.....dollars..	2,124,211	2,790	0	2,790	1,590,100
19	Area supplied primary irrigation.....acres..	1,166,972	6,320	510	5,810	856,568
20	Cost per acre supplied.....dollars..	1.82	0.44	0.00	0.48	1.85
Cost of water for supplemental irrigation:						
21	Enterprises reporting.....enterprises..	398				350
22	Cost.....dollars..	142,164				131,662
23	Area supplied supplemental irrigation.....acres..	67,966				59,863
24	Cost per acre supplied.....dollars..	2.09				2.20
Cost to farms for purposes other than operation and maintenance: ⁵						
25	Enterprises reporting.....enterprises..	298				242
26	Cost.....dollars..	491,792				304,207
27	Area irrigated direct.....acres..	608,889				443,890
28	Cost per acre irrigated.....dollars..	0.81				0.69
Arrearage in payments by farms, Jan. 1, 1950: ⁵						
29	Enterprises reporting.....enterprises..	73				59
30	Amount.....dollars..	29,790				24,800
31	Area irrigated direct.....acres..	177,924				99,959
SINGLE-FARM ENTERPRISES, 1950						
32	Single-farm enterprises.....enterprises..	2,107	8	3	5	1,655
33	Area irrigated.....acres..	151,688	1,935	510	1,425	107,452
34	Complete-system enterprises ⁷.....enterprises..	1,905	8	3	5	1,493
35	Area irrigated.....acres..	128,681	1,935	510	1,425	87,379
Other farms irrigated:						
36	Enterprises reporting.....number..	81	1		1	57
37	Number of other farms.....farms..	116	3		3	82
38	Area irrigated in other farms.....acres..	5,031	311		311	2,238
Enterprises by origin of water supply: ⁷						
39	No water from other enterprises.....enterprises reporting..	1,929	8	3	5	1,513
40	.....acres irrigated..	128,681	1,935	510	1,425	87,379
41	Part of water from other enterprises.....enterprises reporting..	73				59
42	.....acres irrigated..	17,835				16,436
43	All of water from other enterprises.....enterprises reporting..	105				83
44	.....acres irrigated..	5,172				3,637
Enterprises by primary and supplemental irrigation:						
45	All primary.....enterprises reporting..	1,909	8	3	5	1,490
46	.....acres irrigated..	142,220	1,935	510	1,425	101,217
47	Part primary, part supplemental.....enterprises reporting..	45				36
48	.....acres irrigated..	2,230				1,148
49	Primary irrigation.....acres irrigated..	1,179				990
50	Supplemental irrigation.....enterprises reporting..	129				109
51	.....acres irrigated..	6,059				4,097
Enterprises by number of acres irrigated: ⁷						
52	None.....enterprises reporting..	24				20
53	1-9 acres.....enterprises reporting..	417				377
54	10-29 acres.....enterprises reporting..	566	1		1	466
55	30-59 acres.....enterprises reporting..	441	2		2	326
56	60-99 acres.....enterprises reporting..	277	1	1		206
57	100-199 acres.....enterprises reporting..	215	1	1		153
58	200-499 acres.....enterprises reporting..	140	1		1	94
59	500-999 acres.....enterprises reporting..	19				10
60	1,000 acres or more.....enterprises reporting..	8	2	1	1	3

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.]

Bonneville Basin excluding Bear River (III-D)													
Total	Great Salt Lake Basin excluding Bear River												
	Total	Northwest Great Salt Lake Basin (1)	Southwest Great Salt Lake Basin (2)	Southeast Great Salt Lake Basin									
				Total	Great Salt Lake direct (3a)	Weber River above Gateway (3b)	Jordan River						
							Total	Jordan River direct (3c)	West Utah Lake area (3d)	Northeast Utah Lake area (3e)	Provo River above Vivian (3f)	Southeast Utah Lake area (3g)	
2,222	1,438	30	102	1,307	487	228	595	100	36	273	67	122	1
1,452,557	802,653	20,444	10,532	771,677	316,407	49,589	405,681	135,464	36,114	108,437	42,622	83,044	2
725,114	392,095	14,716	14,203	363,176	104,073	38,822	220,281	61,162	22,730	43,086	28,671	64,632	3
2.00	2.05	1.39	0.74	2.12	3.04	1.28	1.84	2.21	1.59	2.52	1.49	1.28	4
2.17	2.25	1.41	0.75	2.36	3.33	1.29	2.09	2.48	1.59	3.22	1.54	1.49	5
0.70	0.64	0.59	0.24	0.67	1.15	0.36	0.55	0.53	0.61	0.69	0.34	0.60	6
1,289	891	26	84	784	233	135	416	48	20	223	47	78	7
257,487	121,521	11,413	10,782	99,326	21,184	20,335	57,807	11,702	9,085	9,744	10,092	17,184	8
235	168	1	4	163	46	49	68	20	5	13	8	23	9
192,764	110,614	751	746	109,117	12,267	10,407	86,443	23,496	8,505	5,135	9,523	39,784	10
332	217	.....	8	209	109	31	70	15	7	21	12	16	11
215,690	127,308	.....	2,581	124,727	57,010	7,152	60,565	18,815	3,479	21,719	9,056	7,496	12
217	91	3	4	84	49	11	24	12	2	8	.....	3	13
49,635	30,962	2,552	86	28,324	12,233	911	15,180	7,130	1,640	6,273	.....	137	14
149	71	.....	2	69	50	2	17	5	2	8	.....	2	15
9,538	1,690	.....	8	1,682	1,379	17	286	19	21	215	.....	31	16
2,111	1,370	30	101	1,240	454	225	564	91	36	267	66	107	17
1,326,061	712,025	20,229	10,472	681,324	285,769	48,879	346,676	120,718	36,114	77,140	40,701	72,003	18
669,906	356,124	14,470	13,987	327,667	94,929	38,351	194,387	54,685	22,722	33,679	27,747	55,554	19
1.98	2.00	1.40	0.75	2.08	3.01	1.27	1.78	2.21	1.59	2.29	1.47	1.30	20
323	205	1	2	202	77	15	110	39	1	21	10	41	21
126,496	90,628	215	60	90,353	30,638	710	59,005	14,746	0	31,297	1,921	11,041	22
55,208	35,971	246	216	35,509	9,144	471	25,894	6,477	8	9,407	924	9,078	23
2.29	2.52	0.87	0.28	2.54	3.35	1.51	2.28	2.28	0.00	3.33	2.08	1.22	24
176	119	5	4	110	29	33	49	15	4	9	12	9	25
229,535	124,687	11,834	3,768	109,085	27,211	12,281	69,593	19,142	18,100	7,693	9,325	15,333	26
304,427	155,808	7,110	2,797	145,901	47,424	16,238	82,239	29,475	7,574	9,889	14,019	21,282	27
0.75	0.80	1.66	1.35	0.75	0.57	0.76	0.85	0.65	2.39	0.78	0.67	0.72	28
54	51	.....	.....	51	13	13	27	10	6	3	2	6	29
24,264	23,961	.....	.....	23,961	6,305	2,457	15,199	4,328	2,686	3,426	141	4,618	30
96,220	94,331	.....	.....	94,331	14,541	8,217	71,573	15,226	10,567	11,421	1,567	32,792	31
1,533	1,011	20	81	911	351	122	434	42	20	241	38	93	32
90,097	48,338	3,125	6,064	39,149	11,472	9,086	18,591	2,374	1,591	6,400	3,677	4,549	33
1,383	889	19	66	805	295	114	397	31	16	231	37	82	34
79,571	39,293	2,585	3,671	33,037	10,113	7,670	15,254	2,176	536	6,078	3,077	3,387	35
48	39	1	1	37	17	2	18	2	1	8	.....	7	36
61	52	1	2	49	21	2	26	2	1	11	.....	12	37
1,526	1,146	30	2	1,114	361	29	724	73	80	238	.....	333	38
1,403	895	19	66	811	296	114	402	34	16	233	37	82	39
79,571	39,293	2,585	3,671	33,037	10,113	7,670	15,254	2,176	536	6,078	3,077	3,387	40
59	48	1	9	8	14	6	18	2	1	6	1	8	41
7,436	6,046	540	1,575	3,931	686	1,092	2,153	59	85	284	600	1,125	42
71	68	.....	6	62	41	7	14	6	3	2	.....	3	43
3,090	2,999	.....	818	2,181	673	324	1,184	139	970	38	.....	37	44
1,375	916	20	80	817	310	124	384	29	20	229	33	73	45
84,258	45,523	3,125	6,068	36,340	10,192	9,054	17,094	2,221	1,591	6,096	3,395	3,791	46
35	23	.....	.....	23	9	.....	14	1	.....	4	4	5	47
1,141	637	.....	.....	637	249	.....	388	60	.....	34	192	102	48
983	402	.....	.....	402	96	.....	306	18	.....	153	60	75	49
103	66	.....	1	65	31	3	31	9	.....	6	1	15	50
3,715	1,776	.....	6	1,770	935	32	803	75	.....	117	30	581	51
20	6	.....	.....	6	1	.....	5	3	.....	2	.....	.....	52
363	307	.....	22	285	141	17	127	21	5	79	5	17	53
425	330	1	26	303	118	39	146	11	4	88	13	30	54
295	164	4	9	151	44	22	85	2	5	48	5	25	55
195	86	5	8	73	23	15	35	1	3	14	6	11	56
138	72	4	7	61	17	21	23	2	2	9	5	5	57
85	37	4	7	26	5	13	8	1	.....	1	1	5	58
9	7	2	1	5	1	.....	4	.....	1	.....	3	.....	59
3	2	.....	1	1	1	.....	1	.....	1	.....	.....	.....	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)	Bonneville Basin excluding Bear River (III-D) ---Continued					
	Sevier River					
	Total	Sevier River direct				
		Total	Below Gunnison (4a)	Gunnison to Sevier (4b)	Above Sevier (4c)	
ALL ENTERPRISES						
Cost of water to farms, 1949:²						
Total cost of water to farms:						
1	Enterprises reporting.....enterprises..	409	248	92	97	61
2	Cost.....dollars..	391,334	299,899	134,244	142,621	23,034
3	Area irrigated direct.....acres..	251,697	177,062	79,355	72,492	25,215
4	Cost per acre irrigated direct.....dollars..	1.55	1.69	1.69	1.97	0.91
5	Total cost per irrigated acre.....dollars..	1.61	1.75	1.72	2.05	0.94
6	Total cost per acre-foot of water ³.....dollars..	0.62	0.62	0.82	0.59	0.29
Enterprises by cost per acre:						
7	Less than \$1.00.....enterprises reporting..	300	174	65	62	48
8	.....acres irrigated..	98,750	54,217	20,563	22,769	10,885
9	\$1.00-\$1.99.....enterprises reporting..	43	28	11	10	7
10	.....acres irrigated..	66,579	54,680	29,306	11,857	13,517
11	\$2.00-\$4.99.....enterprises reporting..	39	30	10	17	4
12	.....acres irrigated..	77,932	63,645	28,896	33,989	760
13	\$5.00-\$9.99.....enterprises reporting..	13	9	4	3	2
14	.....acres irrigated..	7,514	3,856	470	3,333	53
15	\$10.00 and over.....enterprises reporting..	14	7	2	5	.....
16	.....acres irrigated..	922	664	120	544	.....
Cost of water for primary irrigation:						
17	Enterprises reporting.....enterprises..	388	239	90	95	56
18	Cost.....dollars..	380,719	295,292	132,753	140,017	22,522
19	Area supplied primary irrigation.....acres..	242,813	171,814	77,877	69,551	24,386
20	Cost per acre supplied.....dollars..	1.57	1.72	1.70	2.01	0.92
Cost of water for supplemental irrigation:						
21	Enterprises reporting.....enterprises..	61	29	8	14	7
22	Cost.....dollars..	10,615	4,607	1,491	2,604	512
23	Area supplied supplemental irrigation.....acres..	8,884	5,248	1,478	2,941	829
24	Cost per acre supplied.....dollars..	1.19	0.88	1.01	0.89	0.62
Cost to farms for purposes other than operation and maintenance: ⁵						
25	Enterprises reporting.....enterprises..	43	27	11	10	8
26	Cost.....dollars..	81,890	54,360	30,460	15,588	8,312
27	Area irrigated direct.....acres..	126,708	93,587	55,427	24,522	13,638
28	Cost per acre irrigated.....dollars..	0.65	0.58	0.55	0.64	0.61
Arrearage in payments by farms, Jan. 1, 1950: ⁵						
29	Enterprises reporting.....enterprises..	1	1	.....	.....	1
30	Amount.....dollars..	190	190	.....	.....	190
31	Area irrigated direct.....acres..	600	600	.....	.....	600
SINGLE-FARM ENTERPRISES, 1950						
32	Single-farm enterprises.....enterprises..	224	139	52	48	39
33	Area irrigated.....acres..	13,544	9,734	3,743	2,298	3,693
34	Complete-system enterprises ⁷.....enterprises..	214	134	51	46	37
35	Area irrigated.....acres..	13,368	9,609	3,703	2,298	3,608
Other farms irrigated:						
36	Enterprises reporting.....number.....	2	.....	.....	.....	.....
37	Number of other farms.....farms..	3	.....	.....	.....	.....
38	Area irrigated in other farms.....acres..	22	.....	.....	.....	.....
Enterprises by origin of water supply: ⁷						
39	No water from other enterprises.....enterprises reporting..	219	136	51	48	37
40	.....acres irrigated..	13,368	9,609	3,703	2,298	3,608
41	Part of water from other enterprises.....enterprises reporting..	2	2	.....	.....	2
42	.....acres irrigated..	85	85	.....	.....	85
43	All of water from other enterprises.....enterprises reporting..	3	1	1	.....	.....
44	.....acres irrigated..	91	40	40	.....	.....
Enterprises by primary and supplemental irrigation:						
45	All primary.....enterprises reporting..	196	128	50	44	34
46	.....acres irrigated..	12,636	9,264	3,648	2,257	3,359
47	Part primary, part supplemental.....enterprises reporting..	3	.....	.....	.....	.....
48	.....acres irrigated..	73	.....	.....	.....	.....
49	Primary irrigation.....acres irrigated..	57	.....	.....	.....	.....
50	Supplemental irrigation.....acres irrigated..	20	9	2	2	5
51	All supplemental.....enterprises reporting..	778	470	95	41	334
Enterprises by number of acres irrigated: ⁷						
52	None.....enterprises reporting..	5	2	.....	2	.....
53	1-9 acres.....enterprises reporting..	42	25	4	10	2
54	10-29 acres.....enterprises reporting..	64	31	14	10	7
55	30-59 acres.....enterprises reporting..	47	32	13	6	13
56	60-99 acres.....enterprises reporting..	26	20	10	5	5
57	100-199 acres.....enterprises reporting..	23	14	7	.....	7
58	200-499 acres.....enterprises reporting..	16	15	4	6	5
59	500-999 acres.....enterprises reporting..	1	.....	.....	.....	.....
60	1,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....

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]

Bonneville Basin excluding Pear River (III-D)—Continued							Bear River (III-E)						Gulf of California	
Sevier River—Continued		Snake Valley	Escalante River and Shoal Creek	Beaver River	Little Salt Lake	Coal Creek	Total	Bear River direct						
San Pitch River	East Fork							Total	Below Alexander, Idaho	Alexander to Woodruff, Utah	Upper Malad River	Little Bear River		
(4d)	(4e)	(5)	(6)	(7)	(8)	(9)	(1a)	(1b)	(2)	(3)				
125	38	17	107	126	49	76	261	177	134	43	4	82	615	1
81,517	9,918	7,763	117,780	54,585	27,856	50,586	269,205	200,498	172,695	27,803	1,672	67,035	541,823	2
62,283	12,352	10,079	16,785	24,884	9,543	20,031	191,317	151,692	96,215	55,477	797	38,828	312,187	3
1.31	0.80	0.77	7.02	2.19	2.92	2.53	1.41	1.32	1.79	0.50	2.10	1.73	1.74	4
1.39	0.80	0.77	8.22	2.24	3.19	3.77	1.44	1.35	1.84	0.51	2.10	1.80	1.78	5
0.70	0.29	0.37	3.57	0.75	1.14	1.30	0.51	0.52	0.74	0.17	(4)	0.56	0.57	6
97	30	12	13	45	13	15	137	78	46	32	3	56	359	7
34,216	10,317	6,175	3,140	14,373	4,665	8,863	74,759	61,292	9,403	51,889	210	13,257	78,290	8
12	3	1	3	10	3	7	66	51	48	3	.....	17	93	9
11,521	378	3,678	2,889	3,635	1,280	4,089	85,846	68,811	68,168	643	.....	17,035	155,706	10
6	4	3	12	28	11	22	40	33	29	4	1	6	98	11
12,671	1,616	196	1,354	2,495	1,981	4,424	23,850	19,031	16,807	2,224	587	4,232	66,106	12
4	.....	.....	39	39	15	20	15	12	8	4	.....	3	39	13
3,658	.....	.....	4,282	3,751	1,048	2,078	6,831	2,527	1,806	721	.....	4,304	10,610	14
6	1	1	40	4	7	12	3	3	3	.....	.....	.....	26	15
217	41	30	5,120	630	569	577	31	31	31	.....	.....	.....	1,475	16
114	37	17	99	124	47	66	254	172	130	42	4	80	595	17
75,509	9,918	7,763	107,629	54,305	26,938	36,682	264,039	197,487	169,946	27,541	1,672	64,880	531,321	18
58,675	12,324	10,079	14,322	24,414	8,733	13,421	186,662	148,681	94,005	54,676	797	37,184	304,084	19
1.29	0.80	0.77	7.51	2.22	3.08	2.73	1.41	1.33	1.81	0.50	2.10	1.74	1.75	20
30	2	.....	15	13	6	23	27	20	16	4	.....	8	48	21
6,008	0	.....	10,151	280	918	13,904	5,166	3,011	2,749	262	.....	2,155	10,502	22
3,608	28	.....	2,463	470	810	6,610	4,655	3,011	2,210	801	.....	1,644	8,103	23
1.67	0.00	.....	4.12	0.60	1.13	2.10	1.11	1.00	1.24	0.33	.....	1.31	1.30	24
11	5	2	2	6	1	3	67	58	47	11	.....	11	56	25
22,320	5,210	4,113	2,300	14,384	150	2,011	74,672	51,513	42,725	8,788	.....	23,159	187,585	26
29,000	4,121	4,288	2,652	5,397	530	9,044	139,463	122,154	87,349	34,805	.....	17,309	164,999	27
0.77	1.26	0.96	0.87	2.67	0.28	0.22	0.54	0.42	0.49	0.25	.....	1.34	1.14	28
.....	.....	.....	.....	.....	.....	.....	5	4	4	.....	.....	1	14	29
.....	.....	.....	.....	.....	113	.....	536	421	421	.....	.....	115	4,990	30
.....	.....	.....	.....	.....	1,289	.....	3,739	2,333	2,333	.....	.....	1,406	77,965	31
67	18	12	105	86	41	54	124	76	56	20	(6) 2	46	444	32
2,031	1,779	1,524	11,102	5,155	4,368	6,066	17,355	14,670	2,463	12,207	.....	2,630	42,301	33
62	18	10	98	86	40	46	111	63	45	18	(6) 2	46	404	34
1,980	1,779	1,524	10,642	5,155	4,368	5,221	7,808	5,123	1,991	3,132	.....	2,630	39,367	35
2	.....	.....	5	1	1	.....	9	5	5	.....	.....	4	23	36
3	.....	.....	4	1	1	.....	21	12	12	.....	.....	9	31	37
22	.....	.....	350	6	2	.....	712	285	285	.....	.....	427	2,482	38
65	18	12	104	86	41	46	111	63	45	18	(6) 2	46	408	39
1,980	1,779	1,524	10,642	5,155	4,368	5,221	7,808	5,123	1,991	3,132	.....	2,630	39,367	40
.....	.....	.....	1	.....	.....	8	1	1	.....	1	.....	.....	14	41
.....	.....	.....	460	.....	.....	845	9,000	9,000	.....	9,000	.....	.....	1,399	42
2	.....	.....	.....	.....	.....	.....	12	12	11	1	.....	.....	22	43
51	.....	.....	.....	.....	.....	.....	547	547	472	75	.....	.....	1,535	44
51	17	10	88	81	38	46	117	71	52	19	(6) 2	44	411	45
1,607	1,765	1,524	10,248	4,956	4,306	5,065	16,959	14,357	2,400	11,957	.....	2,547	39,068	46
3	.....	.....	4	3	.....	2	1	1	1	.....	.....	.....	9	47
73	.....	.....	168	92	.....	171	7	7	7	.....	.....	.....	1,082	48
57	.....	.....	130	84	.....	310	7	7	7	.....	.....	.....	189	49
10	1	.....	7	2	2	6	6	4	3	1	.....	2	20	50
294	14	.....	556	23	62	520	382	299	49	250	.....	83	1,962	51
3	.....	2	6	.....	1	.....	.....	.....	.....	.....	.....	.....	4	52
15	2	.....	3	4	5	2	14	5	4	1	.....	9	40	53
25	8	1	11	13	2	4	41	24	22	2	1	16	99	54
13	2	3	21	39	9	12	31	19	17	2	1	11	113	55
6	.....	2	39	20	7	15	11	7	5	2	.....	4	70	56
5	4	2	15	6	10	10	15	13	8	5	.....	2	61	57
.....	1	1	9	4	7	11	9	7	.....	7	.....	2	45	58
.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2	9	59
.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	3	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)	Colorado River below Lees Ferry, Arizona (IV-B)			Colorado River above Lees Ferry, Arizona excluding Green River (IV-D)		
	Total	Colorado River direct	Virgin River	Total	Colorado River direct	San Juan River direct
		(1b)	(3a)		(1a)	(2a)
ALL ENTERPRISES						
Cost of water to farms, 1949:²						
Total cost of water to farms:						
1	Enterprises reporting.....enterprises..	152	11	141	70	38
2	Cost.....dollars..	78,034	5,303	72,731	63,600	19,143
3	Area irrigated direct.....acres..	19,782	1,531	18,251	17,943	5,850
4	Cost per acre irrigated direct.....dollars..	3.94	3.46	3.99	3.52	3.27
5	Total cost per irrigated acre.....dollars..	3.98	3.46	4.03	3.65	3.43
6	Total cost per acre-foot of water.....dollars..	0.88	0.80	0.90	0.81	0.77
Enterprises by cost per acre:						
7	Less than \$1.00.....enterprises reporting..	82	8	74	49	27
8	Cost.....acres irrigated..	4,683	321	4,362	10,856	3,405
9	\$1.00-\$1.99.....enterprises reporting..	12	1	11	10	8
10	Cost.....acres irrigated..	2,757	18	2,739	3,420	29
11	\$2.00-\$4.99.....enterprises reporting..	27	2	25	8	3
12	Cost.....acres irrigated..	4,702	1,192	3,510	3,462	67
13	\$5.00-\$9.99.....enterprises reporting..	22	.....	22	2	4
14	Cost.....acres irrigated..	6,858	.....	6,858	200	2,159
15	\$10.00 and over.....enterprises reporting..	9	.....	9	1	2
16	Cost.....acres irrigated..	782	.....	782	5	130
Cost of water for primary irrigation:						
17	Enterprises reporting.....enterprises..	149	11	138	66	37
18	Cost.....dollars..	77,320	5,303	72,017	63,365	19,652
19	Area supplied primary irrigation.....acres..	19,583	1,531	18,052	17,242	5,889
20	Cost per acre supplied.....dollars..	3.95	3.46	3.99	3.68	3.34
Cost of water for supplemental irrigation:						
21	Enterprises reporting.....enterprises..	7	.....	7	6	3
22	Cost.....dollars..	714	.....	714	235	55
23	Area supplied supplemental irrigation.....acres..	199	.....	199	701	261
24	Cost per acre supplied.....dollars..	3.59	.....	3.59	0.34	0.21
Cost to farms for purposes other than operation and maintenance:⁵						
25	Enterprises reporting.....enterprises..	14	1	13	6	1
26	Cost.....dollars..	23,747	1,250	22,497	7,111	12,000
27	Area irrigated direct.....acres..	7,965	977	6,988	16,327	2,089
28	Cost per acre irrigated.....dollars..	2.98	1.28	3.22	0.43	5.74
Arrearage in payments by farms, Jan. 1, 1950:⁵						
29	Enterprises reporting.....enterprises..	3	.....	3	1	.....
30	Amount.....dollars..	588	.....	588	55	.....
31	Area irrigated direct.....acres..	885	.....	885	312	.....
SINGLE-FARM ENTERPRISES, 1950						
32	Single-farm enterprises.....enterprises..	102	8	94	49	32
33	Area irrigated.....acres..	5,045	239	4,806	4,693	1,562
34	Complete-system enterprises ⁷.....enterprises..	89	7	82	45	28
35	Area irrigated.....acres..	4,791	214	4,577	4,474	1,107
Other farms irrigated:						
36	Enterprises reporting.....number..	3	.....	3	1	.....
37	Number of other farms.....farms..	2	.....	2	1	.....
38	Area irrigated in other farms.....acres..	233	.....	233	129	.....
Enterprises by origin of water supply:⁷						
39	No water from other enterprises.....enterprises reporting..	92	7	85	46	28
40	Part of water from other enterprises.....acres irrigated..	4,791	214	4,577	4,474	1,107
41	All of water from other enterprises.....enterprises reporting..	3	.....	3	2	2
42	Part of water from other enterprises.....acres irrigated..	87	.....	87	184	240
43	All of water from other enterprises.....enterprises reporting..	7	1	6	1	2
44	Part of water from other enterprises.....acres irrigated..	167	25	142	701	215
Enterprises by primary and supplemental irrigation:						
45	All primary.....enterprises reporting..	96	8	88	44	31
46	Part primary, part supplemental.....acres irrigated..	4,986	239	4,747	4,017	1,516
47	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....
48	All supplemental.....enterprises reporting..	3	.....	3	4	1
49	Part primary, part supplemental.....acres irrigated..	59	.....	59	676	46
50	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....
51	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated:⁷						
52	None.....enterprises reporting..	3	.....	3	1	.....
53	1-9 acres.....enterprises reporting..	26	1	25	3	2
54	10-29 acres.....enterprises reporting..	35	4	31	15	13
55	30-59 acres.....enterprises reporting..	21	2	19	10	8
56	60-99 acres.....enterprises reporting..	8	1	7	3	4
57	100-199 acres.....enterprises reporting..	4	.....	4	10	4
58	200-499 acres.....enterprises reporting..	3	.....	3	5	1
59	500-999 acres.....enterprises reporting..	1	.....	1	1	.....
60	1,000 acres or more.....enterprises reporting..	1	.....	1	1	.....

¹Includes data for less than 3 enterprises in White River Basin (IV-E-4).
²Enterprises with reported cost of \$0 in 1949 are included.
³Average cost per irrigated acre divided by calculated average quantity of water per acre. (Drainage Basin Table 1, Part 4, line 66.)
⁴Average not given because number of enterprises reporting quantity of water was not sufficient to provide satisfactory data.
⁵Not reported by single-farm enterprises.
⁶Data for less than 3 enterprises not shown separately.
⁷For 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

[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	North Pacific Coast: Snake River, King Hill, Idaho to American Falls, Idaho (I-G)		Great Basin
		Total	Raft River	
			(5)	
MULTIPLE-FARM ENTERPRISES, 1950				
1 Multiple-farm enterprises, total number ³.....enterprises..	1,058	7	7	871
2 Area irrigated direct.....acres..	1,083,250	4,385	4,385	808,979
3 Multiple-purpose enterprises ³.....enterprises..	25			22
4 Area irrigated direct.....acres..	39,859			39,055
5 Complete-system enterprises ³.....enterprises..	710	5	5	570
6 Area irrigated direct.....acres..	499,525	3,588	3,588	376,823
Enterprises by origin of water supply:³				
7 No water from other enterprises.....enterprises reporting..	769	7	7	617
8 acres irrigated..	541,335	4,385	4,385	408,085
9 Part of water from other enterprises.....enterprises reporting..	165			143
10 acres irrigated..	392,271			260,041
11 All water from other enterprises.....enterprises reporting..	124			111
12 acres irrigated..	149,644			140,853
Enterprises by delivery of irrigation water:³				
13 No water delivered.....enterprises reporting..				
14 Water delivered direct to farms only.....enterprises reporting..	897	5	5	742
15 acres irrigated..	690,275	3,588	3,588	565,126
16 Water delivered to farms and to other enterprises.....enterprises reporting..	133	2	2	106
17 acres irrigated..	392,975	797	797	243,853
18 Water delivered to other enterprises only.....enterprises reporting..	28			23
Enterprises by primary and supplemental irrigation:⁴				
19 All primary.....enterprises reporting..	803	7	7	640
20 acres irrigated..	746,719	4,385	4,385	540,996
21 Part primary, part supplemental.....enterprises reporting..	215			196
22 Primary irrigation.....acres irrigated..	275,803			213,207
23 Supplemental irrigation.....acres irrigated..	58,708			52,756
24 All supplemental.....enterprises reporting..	9			9
25 acres irrigated..	2,020			2,020
Enterprises by number of farms irrigated direct:³				
26 None.....enterprises reporting..	28			23
27 1-3.....enterprises reporting..	179	2	2	139
28 4-9.....enterprises reporting..	280	4	4	230
29 10-29.....enterprises reporting..	341	1	1	281
30 30-99.....enterprises reporting..	169			146
31 100-299.....enterprises reporting..	53			46
32 300-999.....enterprises reporting..	8			6
33 1,000 or more.....enterprises reporting..				
Enterprises by acres irrigated direct:³				
34 None.....enterprises reporting..	28			23
35 1-99 acres.....enterprises reporting..	195	1	1	154
36 100-999 acres.....enterprises reporting..	581	5	5	483
37 1,000-2,999 acres.....enterprises reporting..	180	1	1	152
38 3,000-9,999 acres.....enterprises reporting..	63			52
39 10,000-29,999 acres.....enterprises reporting..	9			6
40 30,000 or more.....enterprises reporting..	2			1
Quantities of water reported, 1949:⁵				
41 Total obtained from all sources.....enterprises reporting..	1,034	7	7	855
42 percent of all enterprises reporting..	33	47	58	34
43 acres irrigated..	5,408,782	15,330	15,330	4,191,483
44 Surface sources.....enterprises reporting..	892	7	7	727
45 acres irrigated..	4,326,325	15,330	15,330	3,244,064
46 Pumped wells.....enterprises reporting..	26			24
47 acres irrigated..	12,396			11,751
48 Other enterprises.....enterprises reporting..	285			251
49 acres irrigated..	1,070,061			935,668
50 Conveyance loss ⁵.....enterprises reporting..	933	7	7	766
51 acres irrigated..	890,687	4,128	4,128	660,737
Delivered:⁵				
52 Direct to farms.....enterprises reporting..	1,008	7	7	835
53 acres irrigated..	3,084,332	10,162	10,162	2,293,640
54 To other enterprises.....enterprises reporting..	151	2	2	123
55 acres irrigated..	1,214,120	1,040	1,040	1,047,490
56 For use other than irrigation.....enterprises reporting..	235			195
57 acres irrigated..	219,643			189,616
Delivered direct to farms for primary irrigation:⁴				
58 Enterprises reporting.....enterprises..	992	7	7	818
59 Quantity delivered.....acre-feet..	2,875,853	10,162	10,162	2,109,079
60 Area supplied primary irrigation.....acres..	1,003,015	4,385	4,385	747,160
61 Quantity supplied per acre.....acre-feet..	2.9	2.3	2.3	2.8
Delivered direct to farms for supplemental irrigation:⁴				
62 Enterprises reporting.....enterprises..	217			199
63 Quantity delivered.....acre-feet..	154,904			137,671
64 Area supplied supplemental irrigation.....acres..	60,475			54,631
65 Quantity supplied per acre.....acre-feet..	2.6			2.5
66 Total quantity per irrigated acre ⁶.....acre-feet..	3.1	2.3	2.3	3.0
Cost of water to farms for enterprises reporting quantity delivered, 1949:⁴				
67 Cost for primary irrigation.....dollars..	1,904,301	2,365	2,365	1,331,973
68 Average cost per acre-foot.....dollars..	0.63	0.23	0.23	0.63
69 Cost for supplemental irrigation.....dollars..	120,106			111,656
70 Average cost per acre-foot.....dollars..	0.78			0.81
Measurement of water to farms, 1949:⁴				
71 No water measured.....enterprises reporting..	628	5	5	538
72 acres irrigated..	455,601	3,710	3,710	387,595
73 Part of water measured.....enterprises reporting..	36			25
74 acres irrigated..	128,408			81,947
75 All water measured.....enterprises reporting..	65	1	1	59
76 acres irrigated..	138,544	340	340	122,264

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]

Bonneville Basin excluding Bear River (III-D)														
Total	Great Salt Lake Basin excluding Bear River													
	Total	Northwest Great Salt Lake Basin (1)	Southwest Great Salt Lake Basin (2)	Southeast Great Salt Lake Basin										
				Total	Great Salt Lake direct (3a)	Weber River above Gateway (3b)	Jordan River							
				Total	Jordan River direct (3c)	West Utah Lake area (3d)	Northeast Utah Lake Area (3e)	Provo River above Vivian (3f)	Southeast Utah Lake area (3g)					
732	450	10	22	418	140	109	172	64	16	35	33	29	1	
635,017	343,757	11,591	8,139	324,027	92,601	29,736	201,690	58,788	21,139	36,686	24,994	60,083	2	
21	15	.....	1	14	7	2	6	2	1	3	1	.....	3
34,550	26,869	.....	343	26,526	15,380	187	10,959	3,332	1,911	5,716	.....	.....	4
496	262	.....	8	237	70	64	104	30	13	16	.....	.....	5
283,912	116,003	9,765	7,254	98,984	22,577	14,626	61,781	9,618	14,574	12,903	12,084	12,602	6	
523	263	.....	9	252	70	64	110	41	14	20	24	20	7
312,597	117,446	10,516	8,139	90,791	25,635	11,038	62,113	9,930	16,114	8,075	13,991	14,008	8	
136	111	.....	1	110	39	36	38	15	9	8	.....	.....	9
212,944	176,171	1,075	.....	175,096	42,958	17,594	114,544	30,393	5,025	22,739	10,312	46,075	10
73	56	.....	.....	56	31	9	16	8	.....	7	.....	.....	11
109,576	50,140	.....	.....	50,140	24,008	1,104	25,028	18,465	.....	5,872	691	.....	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
620	364	.....	16	340	115	91	136	52	14	25	25	21	14
458,877	216,386	9,765	6,573	200,048	52,130	23,691	124,219	36,994	16,485	18,889	17,965	33,886	8	
91	70	.....	5	63	22	12	30	9	2	9	.....	.....	15
176,140	127,371	1,826	1,566	123,979	40,463	6,045	77,471	21,794	4,654	17,797	7,029	26,197	17	
21	16	.....	1	15	3	6	6	3	.....	1	.....	.....	18
524	317	.....	9	288	100	89	101	32	15	23	24	8	19
388,600	184,046	10,516	7,739	165,791	55,954	27,382	82,455	25,345	21,039	10,971	18,950	6,150	20	
177	114	.....	1	112	35	12	65	29	1	11	5	.....	21
195,907	125,918	829	190	124,899	28,534	1,915	94,450	27,059	92	16,578	5,210	45,511	22	
48,540	33,547	246	210	33,091	7,867	439	24,785	6,384	8	9,137	834	8,422	23	
8	2	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	24
1,970	246	.....	246	246	.....	.....	.....	.....	.....	.....	.....	.....	25
21	16	.....	1	15	3	6	6	3	.....	1	3	.....	26
128	69	.....	2	59	15	29	15	1	6	2	4	.....	27
107	123	.....	4	118	39	44	36	14	1	6	9	.....	28
220	129	.....	3	122	43	26	53	23	3	11	6	10	29
118	72	.....	3	68	33	4	33	9	3	9	10	2	30
42	30	.....	.....	30	5	.....	25	11	2	5	.....	.....	31
6	6	.....	.....	6	2	.....	4	3	1	1	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
21	16	.....	1	15	3	6	6	3	.....	1	3	.....	34
143	98	.....	4	94	33	36	25	13	.....	4	3	.....	35
399	248	.....	3	230	81	59	90	33	.....	10	16	10	36
124	61	.....	2	52	16	7	31	9	.....	2	5	8	37
39	24	.....	.....	24	5	.....	19	6	.....	3	4	3	38
5	2	.....	.....	2	1	.....	1	.....	.....	1	.....	.....	39
1	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	40
716	436	21	405	140	104	164	63	16	32	32	26	41
32	30	20	30	29	44	27	59	44	12	45	21	42
3,578,955	2,343,850	44,567	32,039	2,267,244	610,021	328,584	1,429,281	725,116	131,279	463,430	272,918	277,162	43	43
626	379	21	348	109	95	147	54	16	25	31	26	44
2,727,778	1,744,540	41,567	32,039	1,670,934	462,002	251,888	1,031,394	440,744	86,741	419,270	237,333	210,530	45	45
22	3	3	1	2	2	46	46
11,306	681	681	1	680	680	47	47
207	166	1	165	70	45	53	23	2	14	9	48	48
839,071	598,629	3,000	595,629	148,018	76,696	397,207	284,372	44,538	43,480	35,585	66,632	49	49
638	397	10	370	125	102	146	59	15	27	30	19	50
556,574	331,475	8,027	6,532	316,916	84,678	39,747	201,123	85,171	22,224	39,900	52,298	33,233	51	51
697	422	20	392	137	100	158	60	16	29	26	52	52
1,900,744	1,164,453	33,540	19,765	1,111,148	336,361	120,507	678,380	293,308	101,589	150,607	167,299	134,576	53	53
105	79	2	72	25	16	32	11	2	9	8	54	54
956,420	708,624	3,000	3,294	702,330	159,146	151,936	452,338	290,518	4,166	249,831	50,021	92,724	55	55
168	139	6	133	51	19	65	40	3	15	6	4	56
165,217	139,298	2,448	136,850	29,836	16,394	97,440	56,119	3,300	23,092	3,300	16,629	57	57
684	317	10	387	133	98	158	60	16	31	28	26	58
1,654,433	965,068	26,109	18,954	920,005	224,518	103,981	591,506	224,458	53,897	103,863	99,530	109,758	59	59
577,554	304,780	11,345	6,224	287,211	83,115	29,099	174,997	52,333	21,131	27,223	22,799	51,511	60	60
2.9	3.2	3.0	2.7	3.2	3.6	3.4	4.3	2.6	4.4	2.1	61	61
179	110	1	108	36	12	60	28	1	9	5	19	62
125,565	93,032	804	811	91,417	18,373	1,226	71,818	22,227	15	27,708	3,744	18,124	63	63
50,365	33,548	246	210	33,092	8,091	439	24,562	6,315	8	9,029	834	8,376	64	64
2.5	2.8	3.3	2.8	2.3	2.8	2.9	3.5	1.9	3.1	4.5	2.2	65
3.1	3.5	2.4	3.1	3.5	2.9	3.6	4.7	2.6	4.7	4.5	2.5	66
1,079,381	662,255	18,869	7,103	636,283	263,049	41,945	331,289	119,207	34,126	74,072	34,980	68,904	67	67
0.65	0.69	0.37	0.69	1.17	0.40	0.56	0.50	0.63	0.35	0.63	68	68
106,815	85,882	215	0	85,667	29,346	710	55,611	13,806	0	29,244	1,920	10,641	69	69
0.85	0.92	0.00	0.94	1.60	0.58	0.77	0.62	1.06	0.51	0.59	70	70
430	285	6	260	134	64	65	4	4	19	24	16	71
294,952	185,711	7,605	7,280	170,826	85,176	20,416	65,234	2,666	9,854	14,657	23,998	14,059	72	72
24	14	1	13	4	9	1	3	73	73
44,363	27,577	389	27,188	7,425	19,763	1,357	5,247	13,159	74	74
48	29	2	23	14	1	3	75	75
115,593	29,258	3,986	470	24,802	1,847	22,955	90	5,936	3,687	541	12,701	76	76

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)		Bonneville Basin excluding Bear River (III-D)—Continued				
		Sevier River				
		Total	Sevier River direct			
			Total	Below Gunnison (4a)	Gunnison to Sevier (4b)	Above Sevier (4c)
MULTIPLE-FARM ENTERPRISES, 1950						
1	Multiple-farm enterprises, total number ¹.....enterprises..	193	112	41	51	23
2	Area irrigated direct.....acres..	238,153	167,328	75,612	70,194	21,522
3	Multiple-purpose enterprises ².....enterprises..	2	1	1	1	1
4	Area irrigated direct.....acres..	4,479	29	29	29	29
5	Complete-system enterprises ³.....enterprises..	156	82	33	30	20
6	Area irrigated direct.....acres..	132,294	68,152	23,611	25,669	18,872
Enterprises by origin of water supply: ³						
7	No water from other enterprises.....enterprises reporting..	166	87	36	32	22
8	acres irrigated.....	153,217	84,035	26,660	36,553	20,822
9	Part of water from other enterprises.....enterprises reporting..	13	13	13	13	13
10	acres irrigated.....	28,801	28,801	28,801	28,801	28,801
11	All water from other enterprises.....enterprises reporting..	14	12	5	6	1
12	acres irrigated.....	56,135	54,492	48,952	4,840	700
Enterprises by delivery of irrigation water: ³						
13	No water delivered.....enterprises reporting..	179	101	38	44	20
14	Water delivered direct to farms only.....enterprises reporting..	205,381	139,895	72,563	48,460	18,872
15	acres irrigated.....	12	10	2	7	3
16	Water delivered to farms and to other enterprises.....enterprises reporting..	32,772	27,433	3,049	21,734	2,650
17	acres irrigated.....	2	1	1	1	1
18	Water delivered to other enterprises only.....enterprises reporting..	152	91	34	39	20
19	Enterprises by primary and supplemental irrigation: ⁴					
20	All primary.....enterprises reporting..	174,797	119,479	56,966	47,379	15,134
21	acres irrigated.....	37	20	6	12	2
22	Part primary, part supplemental.....enterprises reporting..	55,307	43,071	17,263	19,915	5,893
23	Primary irrigation.....acres irrigated.....	7,485	4,778	1,383	2,900	495
24	Supplemental irrigation.....acres irrigated.....	1	1	1	1	1
25	All supplemental.....enterprises reporting..	564	564	564	564	564
26	acres irrigated.....	2	1	1	1	1
27	None.....enterprises reporting..	37	24	14	5	5
28	1-3.....enterprises reporting..	44	21	6	11	4
29	4-9.....enterprises reporting..	62	33	6	18	9
30	10-29.....enterprises reporting..	37	25	8	14	4
31	30-99.....enterprises reporting..	11	8	6	3	1
32	100-299.....enterprises reporting..	1	1	1	1	1
33	300-999.....enterprises reporting..	1	1	1	1	1
34	1,000 or more.....enterprises reporting..	2	1	1	1	1
35	None.....enterprises reporting..	25	15	8	4	3
36	1-99 acres.....enterprises reporting..	99	52	17	22	13
37	100-999 acres.....enterprises reporting..	51	32	7	21	5
38	1,000-2,999 acres.....enterprises reporting..	13	9	5	3	1
39	3,000-9,999 acres.....enterprises reporting..	3	3	3	1	1
40	10,000-29,999 acres.....enterprises reporting..	3	3	3	1	1
41	30,000 or more.....enterprises reporting..	2	1	1	1	1
Enterprises by acres irrigated direct: ³						
42	None.....enterprises reporting..	191	112	41	51	23
43	percent of all enterprises reporting..	46	45	44	52	37
44	Surface sources.....enterprises reporting..	1,062,333	822,459	457,672	333,502	149,785
45	acres-foot.....	178	100	36	45	22
46	Pumped wells.....enterprises reporting..	838,600	599,338	309,872	261,652	146,314
47	acres-foot.....	26	25	5	19	1
48	Other enterprises.....enterprises reporting..	223,733	223,121	147,800	71,850	3,471
49	acres-foot.....	186	110	40	51	22
50	Conveyance loss ⁵.....enterprises reporting..	202,404	160,123	92,966	57,693	32,264
51	acres-foot.....	189	111	40	51	23
52	Delivered: ⁵					
53	Direct to farms.....enterprises reporting..	610,276	474,270	198,847	250,201	100,922
54	acres-foot.....	14	11	3	7	3
55	To other enterprises.....enterprises reporting..	228,553	176,319	158,340	24,308	13,671
56	acres-foot.....	24	15	8	4	3
57	For use other than irrigation.....enterprises reporting..	21,100	11,747	7,519	1,300	2,928
58	acres-foot.....	186	110	40	50	22
59	Delivered direct to farms for primary irrigation: ⁴					
60	Enterprises reporting.....enterprises..	579,957	446,037	154,441	227,009	64,587
61	Quantity delivered.....acre-feet..	228,335	162,521	74,229	67,265	21,027
62	Area supplied primary irrigation.....acres..	2.5	2.7	2.1	3.4	3.1
63	Quantity supplied per acre.....acre-feet..	38	20	6	12	2
64	Delivered direct to farms for supplemental irrigation: ⁴					
65	Enterprises reporting.....enterprises..	15,926	10,955	3,336	6,284	1,335
66	Quantity delivered.....acre-feet..	8,149	4,878	1,383	3,000	495
67	Area supplied supplemental irrigation.....acres..	2.0	2.2	2.1	2.1	2.7
68	Quantity supplied per acre.....acre-feet..	2.6	2.8	2.1	3.5	3.2
69	Total quantity per irrigated acre ⁶.....acre-feet..					
70	Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁴					
71	Cost for primary irrigation.....dollars..	363,455	284,175	124,589	137,929	21,657
72	Average cost per acre-foot.....dollars..	0.63	0.64	0.81	0.61	0.34
73	Cost for supplemental irrigation.....dollars..	7,953	4,382	1,466	2,604	312
74	Average cost per acre-foot.....dollars..	0.50	0.40	0.44	0.41	0.23
75	Measurement of water to farms, 1949: ⁴					
76	No water measured.....enterprises reporting..	98	39	4	32	3
77	acres irrigated.....	88,999	29,450	3,895	23,855	1,700
78	Part of water measured.....enterprises reporting..	10	10	1	9	1
79	acres irrigated.....	16,786	16,786	2,451	14,335	2
80	All water measured.....enterprises reporting..	15	14	8	7	2
81	acres irrigated.....	84,046	84,005	51,699	29,342	2,964

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]

Bonneville Basin excluding Bear River (III-D)—Continued							Bear River (III-E)					Gulf of California		
Sevier River—Continued		Snake Valley	Escalante River and Shoal Creek	Beaver River	Little Salt Lake	Coal Creek	Total ¹	Bear River direct			Little Bear River			
San Pitch River	East Fork							Total	Below Alexander, Idaho	Alexander to Woodruff, Utah				
(4d)	(4e)	(5)	(6)	(7)	(8)	(9)	(10)	(1a)	(1b)	(3)				
61	22	7	8	42	10	22	140	103	78	25	38	184	1	
60,252	10,573	8,555	5,683	19,729	5,175	13,965	173,962	137,022	93,752	43,270	36,198	269,886	2	
1			1	2	1		1	1	1			3	3	
4,450			2,560	642			4,505	4,505	4,505			804	4	
58	18	7	6	29	4	20	84	51	31	20	32	137	5	
55,563	8,579	8,555	3,031	8,804	1,860	13,365	86,911	60,661	24,624	36,037	25,508	125,114	6	
60	20	7	8	32	5	22	95	61	38	23	35	149	7	
59,839	9,343	8,555	5,683	12,332	1,399	13,965	95,488	65,802	28,120	37,682	28,944	128,865	8	
				7	5		7	5	4	1	2	22	9	
				4,096	3,776		47,197	42,997	39,689	3,308	4,200	132,230	10	
1	2			3			38	37	36	1	1	13	11	
413	1,230			3,301			31,277	28,223	25,943	2,280	3,054	8,791	12	
													13	
59	20	7	6	38	8	18	122	87	67	20	33	152	14	
55,976	9,510	8,555	3,031	16,122	4,675	4,727	106,249	73,664	40,567	33,097	31,843	121,561	15	
2	1		2	2	1	4	16	15	11	4	4	27	16	
4,276	1,063		2,652	3,607	500	9,238	67,713	63,358	53,185	10,173	4,355	148,325	17	
	1			2			2	1		1	1	5	18	
44	19	7	4	32	5	7	117	86	66	20	30	156	19	
44,770	10,548	8,555	2,237	15,819	1,968	1,178	152,396	124,386	84,181	40,205	27,268	201,338	20	
16	1		3	8	4	11	19	14	11	3	6	19	21	
12,225	11		1,669	3,547	2,459	7,007	17,300	9,931	7,417	2,514	7,369	62,596	22	
2,693	14		1,627	363	748	4,770	4,216	2,655	2,104	551	1,561	5,952	23	
1							1	1	1			24	24	
564			150			1,010	50	50	50				25	
				2	1		2						5	26
7	6	3	3	7			11	9	5	4	2	38	27	
17	6	3	2	12	1	7	33	28	19	9	5	47	28	
23	7	1	2	15	6	5	33	48	39	9	12	60	29	
11	2		1	5	2		28	13	11	2	16	25	30	
3				1			3	3	3		2	7	31	
							1	1	1			2	32	33
	1			2	1		2	1			1	5	34	
7	3		3	12	3	4	11	5	5		6	40	35	
34	13	4	2	24	7	15	84	69	55	14	14	93	36	
15	5	3	3	3	1	2	28	16	12	4	13	31	37	
5				1			13	10	4	6	4	11	38	
							1	1	1			3	39	
							1	1	1			1	40	
61	20	7	8	42	10	22	140	103	78	25	38	175	41	
48	50	37	7	33	20	29	53	58	58	56	45	28	42	
172,157	93,517	27,020	15,432	77,250	17,896	35,174	799,528	644,457	416,542	227,915	192,232	1,334,420	43	
60	19	7	4	39	10	9	102	66	42	24	37	161	44	
167,957	92,905	27,020	13,970	61,962	14,379	27,307	703,286	560,340	340,910	219,430	180,107	1,199,382	45	
			5			13	2	2	1	1	2	2	46	
			1,462		1,296	7,867	445	445	60	385		645	47	
1	1			10	5		44	41	39	2	3	34	48	
4,200	612			15,288	2,221		95,797	83,672	75,572	8,100	12,125	134,393	49	
60	18	7	4	26	8	10	129	93	69	24	37	163	50	
34,739	9,182	8,820	2,579	6,122	1,980	3,194	132,163	104,689	61,254	43,435	37,394	242,891	51	
61	19	7	8	40	9	22	138	102	78	24	37	170	52	
119,831	31,935	18,200	11,213	56,600	13,190	26,812	493,138	396,595	261,890	134,705	116,684	791,664	53	
2	2		2	4	2	4	19	16	11	5	5	29	54	
8,754	51,880		1,640	13,428	2,223	1,952	149,828	131,483	82,443	49,040	22,445	255,927	55	
7	2			2	1	2	27	16	10	6	13	42	56	
8,833	520			1,100	503	3,216	24,399	11,690	10,955	735	15,709	43,938	57	
60	18	7	7	40	9	18	135	100	77	23	35	167	58	
109,239	24,681	18,200	7,797	55,447	11,481	16,483	454,646	347,283	221,064	126,219	105,608	756,612	59	
56,995	8,819	8,555	3,906	19,366	4,427	8,185	169,606	134,317	91,598	42,719	34,547	251,470	60	
1.9	2.8	2.1	2.0	2.9	2.6	2.0	2.7	2.6	2.4	3.0	3.1	3.0	61	
17	20		4	8	4	15	20	15	12	3	6	18	62	
4,951	1		3,416	1,153	1,709	10,329	12,106	6,505	5,589	916	5,601	17,233	63	
3,257	14		1,777	363	748	5,780	4,266	2,705	2,154	551	1,561	5,844	64	
1.5	1.4		1.9	3.2	2.3	1.8	2.8	2.4	2.6	1.7	3.6	2.9	65	
2.0	2.8	2.1	2.3	3.0	2.8	2.9	2.8	2.6	2.5	3.0	3.2	3.1	66	
72,530	6,750	6,713	5,009	27,064	2,891	11,994	252,592	186,304	164,971	21,333	64,616	469,963	67	
0.66	0.27	0.37	0.49	0.49	0.25	0.73	0.56	0.54	0.75	0.17	0.61	0.62	68	
3,571	0		3,109	280	518	9,073	4,841	2,771	2,709	62	2,070	8,450	69	
0.72	0.00		0.91	0.24	0.30	0.88	0.40	0.43	0.48	0.07	0.37	0.49	70	
57	4		6	35		6	108	72	71	1	36	81	71	
57,279	2,269		2,451	15,391		2,401	92,643	55,703	52,395	3,308	36,198	64,296	72	
							2	2	1			1	73	
							37,584	37,584	36,995	589		46,461	74	
							14	13	3	11		5	75	
							6,671	6,671	1,851	4,820		15,940	76	

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, Arizona (IV-B)			Colorado River above Lees Ferry, Arizona, excluding Green River (IV-D)		
	Total	Colorado River direct	Virgin River	Total ¹	Colorado River direct	San Juan River direct
		(1b)	(3a)		(1a)	(2a)
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ³.....enterprises..	54	3	51	46	22	7
2 Area irrigated direct.....acres..	14,737	1,292	13,445	36,207	13,250	4,288
3 Multiple-purpose enterprises ³.....enterprises..	3		3			
4 Area irrigated direct.....acres..	804		804			
5 Complete-system enterprises ³.....enterprises..	46	3	43	44	22	5
6 Area irrigated direct.....acres..	9,162	1,292	7,870	35,142	13,250	3,223
7 Enterprises by origin of water supply: ³						
8 No water from other enterprises.....enterprises reporting..	50	3	47	46	22	7
9 Part of water from other enterprises.....acres irrigated..	13,552	1,292	12,260	36,207	13,250	4,288
10 Enterprises reporting.....enterprises reporting..	1		1			
11 All water from other enterprises.....acres irrigated..	350		350			
12 Enterprises reporting.....enterprises reporting..	3		3			
13 Enterprises by delivery of irrigation water: ³						
14 No water delivered.....enterprises reporting..	835		835			
15 Water delivered direct to farms only.....enterprises reporting..	47	2	45	40	19	5
16 Water delivered to farms and to other enterprises.....acres irrigated..	8,758	315	8,443	21,441	7,818	3,223
17 Enterprises reporting.....enterprises reporting..	7	1	6	5	3	1
18 Water delivered to other enterprises only.....acres irrigated..	5,979	977	5,002	14,766	5,432	1,065
19 Enterprises by primary and supplemental irrigation: ⁴						
20 All primary.....enterprises reporting..	49	3	46	41	20	4
21 Part primary, part supplemental.....acres irrigated..	14,135	1,292	12,843	34,591	13,008	2,914
22 Primary irrigation.....enterprises reporting..	4		4	4	2	2
23 Supplemental irrigation.....acres irrigated..	462		462	1,376	217	1,159
24 All supplemental.....enterprises reporting..	140		140	240	25	215
25 Enterprises by number of farms irrigated direct: ³						
26 None.....enterprises reporting..				1		1
27 1-3.....enterprises reporting..	11	1	10	15	8	1
28 4-9.....enterprises reporting..	12		12	10	6	1
29 10-29.....enterprises reporting..	24	1	23	13	4	3
30 30-99.....enterprises reporting..	7	1	6	6	4	1
31 100-299.....enterprises reporting..				1		
32 300-999.....enterprises reporting..						
33 1,000 or more.....enterprises reporting..						
34 Enterprises by acres irrigated direct: ³						
35 None.....enterprises reporting..				1		1
36 1-99 acres.....enterprises reporting..	21		21	11	5	
37 100-999 acres.....enterprises reporting..	30	3	27	23	12	4
38 1,000-2,999 acres.....enterprises reporting..	3		3	10	5	2
39 3,000-9,999 acres.....enterprises reporting..				1		
40 10,000-29,999 acres.....enterprises reporting..						
41 30,000 or more.....enterprises reporting..						
42 Quantities of water reported, 1949: ⁵						
43 Total obtained from all sources ⁵.....enterprises reporting..	53	3	50	42	20	6
44 percent of all enterprises reporting.....acres-fee..	34	27	34	28	28	15
45 Surface sources.....enterprises reporting..	107,646	7,190	100,456	130,637	45,696	13,520
46 Pumped wells.....acres-fee..	49	3	46	42	20	6
47 Other enterprises.....acres-fee..	9,639	7,190	92,449	130,637	45,696	13,520
48 Conveyance loss ⁵.....acres-fee..	2		2			
49 Delivered: ⁵						
50 Direct to farms.....enterprises reporting..	645		645			
51 To other enterprises.....acres-fee..	7,362		7,362			
52 For use other than irrigation.....acres-fee..	48	2	45	39	18	6
53 Delivered direct to farms for primary irrigation: ⁴	17,086	716	16,367	25,876	7,349	2,183
54 Enterprises reporting.....enterprises..	53	3	50	41	20	5
55 Quantity delivered.....acres-fee..	68,107	5,587	62,520	98,351	35,964	10,610
56 Area supplied primary irrigation.....acres-fee..	6		6	4	1	2
57 Quantity supplied per acre.....acres-fee..	9,278		9,278	2,380	653	727
58 Delivered direct to farms for supplemental irrigation: ⁴	15	2	13	6	3	
59 Enterprises reporting.....enterprises..	13,175	884	12,291	4,030	1,730	
60 Quantity delivered.....acres-fee..	52	3	49	41	20	5
61 Area supplied supplemental irrigation.....acres-fee..	64,973	5,587	59,386	97,839	35,912	10,149
62 Quantity supplied per acre.....acres-fee..	14,557	1,292	13,265	31,679	11,145	3,021
63 Delivered direct to farms for supplemental irrigation: ⁴	4.5	4.3	4.5	3.1	3.2	2.6
64 Enterprises reporting.....enterprises..	4		4			
65 Quantity delivered.....acres-fee..	634		634	513	52	461
66 Area supplied supplemental irrigation.....acres-fee..	140		140	240	25	215
67 Total quantity per irrigated acre ⁶.....acres-fee..	4.5		4.5	2.1	2.1	2.1
68 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁴	4.5	4.3	4.5	3.1	3.3	2.7
69 Cost for primary irrigation.....dollars..	70,283	5,278	65,005	49,083	16,776	16,445
70 Average cost per acre-foot.....dollars..	1.08	0.94	1.09	0.50	0.47	1.62
71 Cost for supplemental irrigation.....dollars..	714		714	55	0	55
72 Average cost per acre-foot.....dollars..	1.13		1.13	0.11	0.00	0.12
73 Measurement of water to farms, 1949: ⁴						
74 No water measured.....enterprises reporting..	39	1	38	16	1	
75 Part of water measured.....acres irrigated..	8,582	215	8,367	13,521	626	
76 All water measured.....acres irrigated..	1		1	422		422
77	2,886		2,886	5,249	2,030	

¹Data for less than 3 enterprises in Basins III-E-2, IV-D-36, IV-D-4, and IV-E-7 included only in totals.
²Includes data for less than 3 enterprises in White River Basin (IV-E-4).
³For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.
⁴For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.
⁵For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.
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.]

Colorado River above Lees Ferry, Arizona, excluding Green River (IV-F)—Continued		Green River (IV-E)									
Fremont River		Total ¹	Green River direct ² (1 and 4)	San Rafael River (2)	Price River (3)	Duchesne River				Ashley Creek (6)	Henry's Fork (9)
Total ¹	Fremont River direct (3a)					Total	Duchesne River direct (5a)	Uintah River (5b)	Lake Fork (5c)		
17	15	94	0	5	12	42	28	16	8	15	3
18,057	12,895	218,942	9,017	36,978	16,468	129,450	27,972	70,004	31,474	25,650	1,342
17	15	47	6	5	2	24	20	7	7	9	3
18,057	12,895	80,810	7,833	36,978	3,887	24,210	11,274	12,945	7	6,514	1,342
17	15	53	7	5	2	30	23	11	1	8	3
18,057	12,895	79,106	8,620	36,978	3,804	24,700	11,563	13,145	7	3,617	1,342
		21			6	9	2	5		6	
		131,800			11,811	98,268	9,935	56,859	31,474	21,801	
		10	2		4	3				1	
		7,956	397		853	6,474	6,474			232	
16	14	65	7	4	8	32	22	9	5	13	2
10,400	5,230	91,362	3,591	20,541	11,014	37,631	12,946	7,516	17,169	17,206	1,342
1	1	15	2	1	3	8	5	2	2	1	1
7,657	7,657	127,580	5,426	16,437	5,454	91,819	15,026	62,488	14,305	8,444	
		4			1	2	1	2	1	1	
17	15	66	9	3	9	35	24	11	7	10	2
18,057	12,905	152,612	9,017	19,931	6,469	100,657	27,228	41,955	31,474	15,159	1,342
		11		2	2	3	1	2		4	
		60,758		15,511	8,891	28,364	649	27,715		7,992	
		5,572		1,536	1,108	429	95	334		2,499	
		4			1	2	1	2	1	1	
6	6	12	1		8	5	5	2	1	3	
3	3	25	4		12	9	7	3	3	4	1
6	5	23	1	2	3	13	7	5	3	2	2
1		12	3		5	4	4	2	1	3	
1	1	6		3	2					2	
		2				2	2	2	2		
		4			1	2	1	2	1	1	
6	6	8			2	4	2	2	2	2	
7	7	40	6	2	5	20	14	5	1	7	
3	1	18	2		2	10	8	3	3	3	2
1	1	10	1	2	1	3	1	2		2	1
		3		1	1	2	1	1	2	1	3
						1	1	1	1		40
16	14	80	0	4	12	40	26	16	8	14	3
46	45	25	12	25	40	27	32	27	47	33	75
71,421	56,621	1,096,137	62,906	171,328	175,609	671,432	604,727	445,418	433,838	80,272	20,490
16	14	70	7	4	8	37	23	16	8	13	3
71,421	56,621	969,106	60,250	171,328	150,133	578,482	531,655	394,018	367,080	74,323	20,490
		2			10	12	5	5	7	6	
		127,031	2,656		25,476	92,950	73,072	51,400	66,758	5,949	
15	13	76	9	4	9	39	25	15	7	14	3
16,344	11,514	199,929	6,499	49,033	46,946	101,969	91,314	66,952	63,702	15,410	672
16	14	76	9	4	11	38	25	14	7	13	3
51,777	41,907	625,206	47,000	120,295	95,941	349,682	295,477	262,727	256,262	56,700	19,788
1	1	19	2	1	4	10	6	7	3	2	1
1,000	1,000	244,269	3,656	1,000	27,747	205,481	203,801	114,934	113,254	7,355	30
3	2	21	3	1	6	7	5	3	2	5	
2,300	2,200	26,733	5,751	1,000	4,975	14,300	14,135	805	620	807	
16	14	75	9	4	11	37	24	13	7	13	2
51,777	41,907	593,801	41,687	104,528	44,924	347,918	92,378	180,389	75,151	48,265	6,323
16,613	11,451	205,234	9,017	34,696	15,360	128,941	27,797	69,670	31,474	15,841	1,342
3.1	3.7	2.9	4.6	3.0	2.9	2.7	3.3	2.6	2.4	3.0	4.7
		10		2	1	3	1	2		4	
		16,086		4,557	2,883	1,511	32	1,479		7,135	
		5,464		1,536	1,000	429	95	334		2,499	
		2.9		3.0	2.9	3.5	0.3	4.4		2.9	
3.1	3.7	3.0	4.6	3.1	3.2	2.7	3.3	2.6	2.4	3.3	4.7
15,862	9,067	350,597	19,014	54,930	25,357	222,268	43,726	122,582	55,960	26,835	2,038
0.31	0.22	0.59	0.46	0.53	0.56	0.64	0.47	0.68	0.74	0.56	0.32
		7,681		1,071	1,598	625	97	528		4,387	
		0.48		0.24	0.55	0.41	3.03	0.36		0.61	
15	15	33	5	1	2	5	5	6		13	2
12,895	12,895	42,193	7,668	756	162	17,180	4,024	13,156		15,338	1,052
		12			6	2	1	2		1	
		46,039			3,687	32,272	2,099	26,593		3,580	
1	1	2			1						
2,607		7,805			7,515						290