

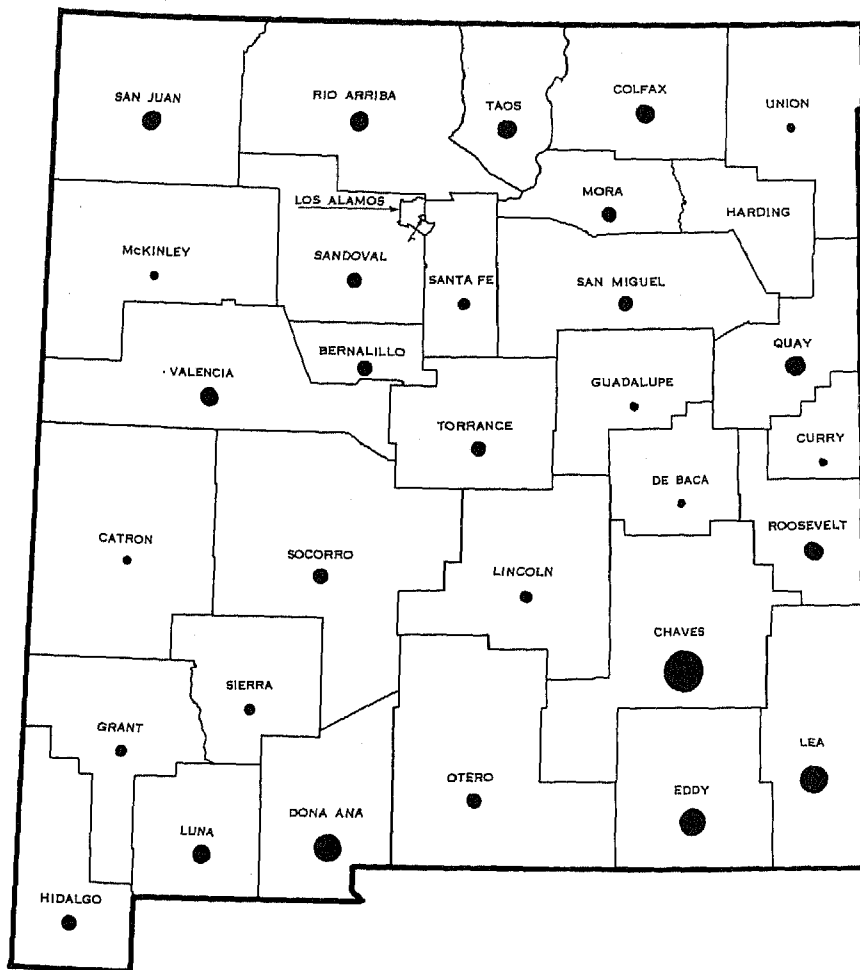
IRRIGATION OF AGRICULTURAL LANDS

NEW MEXICO

CONTENTS

[Page numbers listed here omit the State (or States) part number which appears as a prefix to the page number for each page. The part number for this State is 12]

	<i>Page</i>
Map:	
Acres of irrigated land, by counties, 1949.....	3
State table--	
1.—Irrigation summary: 1890 to 1950.....	4
2.—Characteristics of irrigation enterprises: 1920 to 1950.....	4
3.—Irrigation enterprises, number and characteristics, by type of enterprise: Censuses of 1950 and 1940.....	5
4.—Complete-system irrigation enterprises by surface, ground, gravity and pumped water; and by acreage irrigated: Census of 1950.....	8
County table--	
1.—Irrigated farms: Number, acreage, and other characteristics: Censuses of 1950 and 1945.....	11
2.—Irrigation enterprises: Number and characteristics, by counties: Censuses of 1950 and 1940:	
Part 1.....	15
Part 2.....	19
Part 3.....	23
Part 4.....	27
3.—Acreage irrigated, by drainage basin origin of water, and by counties in which acreage was located:	
Census of 1950.....	30
Drainage basin table--	
1.—Irrigation enterprises: Number and characteristics by drainage basins: Censuses of 1950 and 1940:	
Part 1.....	32
Part 2.....	36
Part 3.....	40
Part 4.....	44



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

NEW MEXICO: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	23,599	47,521,809	12,691	655,287	691,476	3,478	61,137,909
1945.....	29,695	49,608,445	14,299	534,640	(*)	(*)	(*)
1940.....	34,105	38,860,427	15,811	³ 436,402	554,039	2,503	32,735,997
1935.....	41,369	34,397,205	17,093	⁴ 314,319	(*)	(*)	(*)
1930.....	31,404	30,822,034	14,347	⁵ 371,269	527,033	1,965	19,834,380
1920.....	29,844	24,409,633	11,390	(**)	538,377	2,391	18,210,412
1910.....	35,676	11,270,021	12,795	(**)	461,718	2,786	9,154,897
1900.....	12,311	5,130,878	9,128	203,893	(*)	(*)	4,165,312
1890.....	4,458	787,882	3,085	91,745	(*)	(*)	511,937

*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 27,051 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..	3,478	2,503	1,965	2,391
Enterprises by type:				
Single-farm.....number..	2,858	2,015	1,463	(*)
Mutual:				
Unincorporated.....number..	485	361	462	(*)
Incorporated.....number..	80	83	5	(*)
Commercial.....number..	1	5	5	(*)
District.....number..	7	11	5	(*)
U.S. Bureau of Reclamation ¹.....number..	3	2	2	(*)
U.S. Bureau of Indian Affairs.....number..	42	25	25	(*)
State.....number..	.....	.....	1	(*)
City.....number..	2	1	.....	(*)
Other.....number..	.....	.....	2	(*)
Irrigated land, total ².....acres..	691,476	554,039	527,033	538,377
Acreage irrigated, by type of enterprise: ³				
Single-farm.....acres..	327,725	156,409	130,738	151,351
Mutual:				
Unincorporated.....acres..	105,874	123,156	233,286	264,610
Incorporated.....acres..	51,017	45,030	.....	.....
Commercial.....acres..	(⁴)	⁵ 22,637	16,192	19,871
District.....acres..	84,673	86,675	22,000	15,008
U.S. Bureau of Reclamation ¹.....acres..	105,845	98,064	103,090	77,678
U.S. Bureau of Indian Affairs.....acres..	26,843	27,111	20,824	9,072
State.....acres..	.....	.....	20	77
City.....acres..	(⁴)	(⁵)	.....	600
Other.....acres..	.....	.....	883	110
Acreage irrigated, by source of water: ^{3 6}				
Streams (and lakes).....acres..	435,158	427,777	440,095	444,787
Springs.....acres..	11,599	7,109	5,595	10,791
Flowing wells.....acres..	19,120	23,262	27,693	36,586
Pumped wells.....acres..	297,880	97,304	37,295	24,291
Sewage.....acres..	691	(⁶)	(⁶)	(⁶)
Other and not reported.....acres..	11,997	24,400	23,245	30,504
Irrigated land artificially drained.....acres..	192,848	210,042	60,907	74,783
Irrigated land in need of drainage.....acres..	25,917	8,732	49,572	60,277
Irrigation works:				
Diversion dams.....total number..	1,286	1,072	665	1,423
Reservoirs.....number..	476	502	240	328
Total capacity (reported).....acre-feet..	3,186,401	3,280,550	2,945,220	2,960,718
Reservoir dams.....total number..	476	141	69	153
Canals and ditches.....total length, miles..	5,763	4,648	4,466	5,932
Pipe lines.....total length, miles..	188	36	15	61
Flowing wells.....number..	106	268	340	556
Pumped wells.....number..	3,846	1,487	680	461
Average pumping lift (reported).....feet..	70	46	(*)	(*)
Pumps.....number..	3,942	1,559	738	491
Average pumping lift from all sources.....feet..	(*)	44	40	40
Capital investment, total.....dollars..	61,137,909	32,735,997	19,834,380	18,210,412
Capital investment by type of enterprise:				
Single-farm.....dollars..	15,691,241	4,531,158	3,814,458	5,589,372
Mutual:				
Unincorporated.....dollars..	3,466,345	3,022,191	3,016,075	3,558,863
Incorporated.....dollars..	2,123,145	1,950,969	1,543,000	1,877,842
Commercial.....dollars..	(⁴)	⁵ 931,994	1,289,180	914,479
District.....dollars..	11,579,420	11,165,731	8,684,489	5,020,230
U.S. Bureau of Reclamation ¹.....dollars..	23,221,828	7,760,844	1,231,928	691,194
U.S. Bureau of Indian Affairs.....dollars..	3,928,936	3,373,110	5,000	18,544
State.....dollars..	.....	.....	.....	276,299
City.....dollars..	(⁴)	(⁵)	.....	263,589
Other.....dollars..	.....	.....	250,250	.....

*Not available.

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

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

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

⁴Data for less than 3 enterprises not shown separately.

⁵Data for "City and/or Sewage" enterprise included with "Commercial enterprises".

⁶Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City and/or Sewage" and "Other mixed" with "Other and not reported."

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							
Number of enterprises.....enterprises 1950..	3,478	2,858	485	80	7	3	45
.....1940..	2,503	2,015	361	83	11	2	31
Farms irrigated direct per enterprise.....farms 1949..	5.5	1.1	13.1	21.2	398.4	471.7	81.3
Area irrigated direct.....acres 1949..	711,935	327,725	105,874	51,017	84,673	105,845	36,801
.....acres 1939..	559,162	156,489	123,156	45,030	86,675	98,064	49,748
Average per enterprise.....acres 1949..	205	115	218	638	12,096	35,282	818
CHARACTERISTICS OF ENTERPRISES, 1949							
Multiple-purpose enterprises.....enterprises..	61	.....	49	4	5	2	1
Area irrigated direct.....acres..	173,662	.....	23,781	5,961	58,325	85,196	399
Complete-system enterprises.....enterprises..	3,339	2,774	448	76	3	1	37
Area irrigated direct.....acres..	513,886	323,762	89,905	43,071	8,130	20,649	28,369
Enterprises by origin of water supply:							
No water from other enterprises.....enterprises reporting..	3,408	2,820	461	79	6	3	39
.....acres irrigated..	668,458	323,817	96,058	50,640	62,916	105,845	29,182
Part of water from other enterprises.....enterprises reporting..	22	12	2	1	1	.....	6
.....acres irrigated..	36,922	2,686	4,483	377	21,757	.....	7,619
All water from other enterprises.....enterprises reporting..	48	26	.....	.....	.....	.....	.....
.....acres irrigated..	6,555	1,222	5,333	.....	.....	.....	.....
Enterprises by delivery of irrigation water:							
No water delivered.....enterprises reporting..	42	42	.....	.....	.....	.....	.....
Water delivered direct to farms only.....enterprises reporting..	3,404	2,812	468	76	4	.....	43
.....acres irrigated..	556,081	327,670	98,816	43,071	29,887	20,649	35,988
Water delivered to farms and to other enterprises.....enterprises reporting..	26	4	13	4	2	1	2
.....acres irrigated..	155,854	55	7,058	7,946	54,786	85,196	813
Water delivered to other enterprises only.....enterprises reporting..	6	.....	4	.....	1	1	.....
Enterprises by primary and supplemental irrigation:²							
All primary.....enterprises reporting..	3,252	2,689	441	71	4	2	45
.....acres irrigated..	649,646	319,842	90,484	40,090	56,584	105,845	36,801
Part primary, part supplemental.....enterprises reporting..	47	17	22	6	2	.....	.....
.....acres irrigated..	41,830	585	7,472	7,851	25,922	.....	.....
Primary irrigation.....acres irrigated..	10,422	700	5,379	2,176	2,167	.....	.....
Supplemental irrigation.....acres irrigated..	131	110	18	3	.....	.....	.....
All supplemental.....enterprises reporting..	10,037	6,598	2,539	900	.....	.....	.....
Enterprises by number of farms irrigated direct:							
None.....enterprises reporting..	48	42	4	.....	1	1	.....
1-3.....enterprises reporting..	2,895	2,798	89	3	.....	.....	5
4-9.....enterprises reporting..	193	18	161	11	.....	.....	3
10-29.....enterprises reporting..	237	.....	177	46	1	.....	13
30-99.....enterprises reporting..	89	.....	54	20	1	.....	14
100-299.....enterprises reporting..	11	.....	.....	.....	3	1	7
300-999.....enterprises reporting..	3	.....	.....	.....	.....	.....	3
1,000 or more.....enterprises reporting..	2	.....	.....	.....	1	1	.....
Enterprises by acres irrigated direct:							
None.....enterprises reporting..	48	42	4	.....	1	1	.....
1-29.....enterprises reporting..	958	885	68	.....	.....	.....	5
30-99.....enterprises reporting..	1,154	969	161	18	.....	.....	6
100-499.....enterprises reporting..	1,125	866	201	40	.....	.....	18
500-999.....enterprises reporting..	119	67	35	10	1	.....	6
1,000-2,999.....enterprises reporting..	55	27	14	6	.....	.....	8
3,000-9,999.....enterprises reporting..	15	2	2	6	3	.....	2
10,000-29,999.....enterprises reporting..	2	.....	.....	.....	1	1	.....
30,000 or more.....enterprises reporting..	2	.....	.....	.....	1	1	.....
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949							
Surface water:							
Gravity only.....enterprises reporting..	1,081	480	474	77	6	3	41
.....acres irrigated..	398,949	36,562	102,913	48,389	80,082	105,845	25,158
Pumped only.....enterprises reporting..	74	72	.....	1	1	.....	.....
.....acres irrigated..	12,141	5,055	.....	2,495	4,591	.....	.....
Gravity and pumped.....enterprises reporting..	8	6	.....	.....	.....	.....	2
.....acres irrigated..	2,965	813	.....	.....	.....	.....	2,152
Ground water only (pumped from wells).....enterprises reporting..	2,190	2,184	3	2	.....	.....	1
.....acres irrigated..	261,867	261,474	248	133	.....	.....	12
Surface (gravity or pumped) and ground.....enterprises reporting..	125	116	8	.....	.....	.....	1
.....acres irrigated..	36,013	23,821	2,713	.....	.....	.....	9,479
Stored water:							
None stored.....enterprises reporting..	3,147	2,600	452	70	2	.....	23
.....acres irrigated..	426,229	275,732	94,585	25,712	8,674	.....	21,526
Part stored.....enterprises reporting..	211	167	25	5	.....	.....	13
.....acres irrigated..	113,133	39,632	5,542	3,052	50,703	.....	14,204
All stored.....enterprises reporting..	129	91	8	5	4	3	9
.....acres irrigated..	172,573	12,361	5,747	22,253	25,246	105,845	1,071

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

²For interstate enterprises, data represent characteristics within the State.

IRRIGATION OF AGRICULTURAL LANDS

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. Farms and 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							
Streams (and lakes).....enterprises reporting..	1,104	507	472	77	7	3	36
.....acres irrigated..	435,158	53,206	104,220	50,795	84,673	105,845	36,419
Springs.....enterprises reporting..	148	118	22	3			5
.....acres irrigated..	11,599	4,864	2,514	379			3,842
Flowing wells.....enterprises reporting..	63	59					4
.....acres irrigated..	19,120	9,607					9,513
Drainage water.....enterprises reporting..	16	15					1
.....acres irrigated..	11,997	2,518					9,479
Sewage.....enterprises reporting..	5	4					1
.....acres irrigated..	691	611					80
Other sources.....enterprises reporting..							
.....acres irrigated..							
DRAINAGE OF IRRIGATED LAND, 1949							
Irrigated land drained:							
Enterprises reporting.....enterprises..	218	173	22	7	5	1	10
Area supplied primary irrigation.....acres..	254,313	41,736	13,490	11,863	80,072	85,196	21,956
Area artificially drained.....acres..	192,848	27,203	1,679	3,894	60,566	85,196	14,320
Irrigated land in need of drainage:							
Enterprises reporting.....enterprises..	144	54	64	13	5	2	6
Area supplied primary irrigation.....acres..	241,401	11,697	24,126	14,816	80,072	102,710	7,980
Area in need of drainage.....acres..	25,917	2,264	5,556	2,496	14,880	176	545
IRRIGATION WORKS, 1950							
Diversion dams.....enterprises reporting..	961	418	431	73	5	1	33
.....dams..	1,286	639	473	90	11	4	69
Diversion dams by material:							
Concrete or masonry.....dams..	165	61	36	25	8	4	31
Timber.....dams..	121	89	20	7			5
Earth and rock.....dams..	537	374	109	36	1		17
Other, mixed, and not reported.....dams..	463	115	308	22	2		16
Reservoirs.....enterprises reporting..	312	265	16	9	4	1	17
.....reservoirs..	476	402	20	16	5	3	30
Reservoirs for which capacity was reported.....number..	448	375	19	16	5	3	30
Total capacity.....acre-feet..	3,186,401	32,848	10,384	118,046	306,400	2,700,400	18,323
Reservoirs by capacity:							
1-99 acre-feet.....reservoirs..	378	356	10	2			10
100-999 acre-feet.....reservoirs..	43	15	7	6			15
1,000 acre-feet and over.....reservoirs..	27	4	2	8	5	3	5
Reservoir dams by material:							
Concrete or masonry.....dams..	8	3		1	2	1	1
Earth and rock.....dams..	449	386	17	12	3	2	29
Other, mixed, and not reported.....dams..	19	13	3	3			
Canals and ditches.....enterprises reporting..	1,269	656	482	79	6	2	44
.....total length, miles..	5,763	1,656	1,571	511	936	662	428
Pipelines and siphons.....enterprises reporting..	92	56	22	2	2	2	8
.....total length, miles..	169	100	11	2	39	5	10
Tunnels.....enterprises reporting..	12		7	2	1	1	1
.....total length, feet..	42,328		2,205	2,860	3,200	30,263	3,800
Flowing wells.....enterprises reporting..	65	61					4
.....wells..	106	100					6
Pumped wells.....enterprises reporting..	2,318	2,304	10	2			2
.....wells..	3,846	3,830	12	2			2
Wells for which pumping lift was reported.....wells..	3,538	3,523	12	1			2
Average pumping lift.....feet..	70	70	45	130			62
Irrigation pumps.....enterprises reporting..	2,399	2,361	10	3	2		3
.....pumps..	3,942	3,921	12	3	3		3
Electric motors used for pumping.....enterprises reporting..	1,354	1,346	2	2	2		2
.....electric motors..	2,216	2,207	2	2	3		2
Other motors and engines used for pumping.....enterprises reporting..	1,163	1,153	8	1			1
.....other motors and engines..	1,726	1,714	10	1			1
SEASON OF IRRIGATION, 1949							
Water delivered only before July 1.....enterprises reporting..	117	60	47	1			
.....acres irrigated..	11,705	4,063	7,422	280			
Water delivered before and after July 1.....enterprises reporting..	3,095	2,527	434	79		3	45
.....acres irrigated..	673,014	299,105	95,853	50,737	84,673	105,845	36,801
Water delivered only after July 1.....enterprises reporting..	82	81	1				
.....acres irrigated..	8,729	6,699	2,030				
CAPITAL INVESTMENT, 1950 AND 1940							
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	32,735,997	4,531,158	3,022,191	1,950,969	11,165,731	7,760,844	4,305,104
New capital investment Jan. 1, 1940 to Jan. 1, 1950:							
Enterprises reporting.....enterprises 1950..	2,304	1,980	238	46	5	3	32
Amount.....dollars 1950..	28,401,912	11,160,083	444,154	172,176	413,689	15,460,984	750,826
Area irrigated direct.....acres 1949..	514,362	244,731	73,204	28,875	33,970	105,845	27,737
Total capital investment Jan. 1, 1950.....dollars 1950..	61,137,909	15,691,241	3,466,345	2,123,145	11,579,420	23,221,828	5,055,930
INDEBTEDNESS, 1950³							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
Enterprises reporting.....enterprises..	51		17	8	3	3	20
Amount.....dollars..	19,079,735		74,854	139,995	10,234,539	7,897,037	1,633,310
Area irrigated direct.....acres..	235,975		16,953	17,349	77,051	105,845	18,777
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
Enterprises reporting.....enterprises..	27		6	1	1		19
Amount.....dollars..	2,825,348		12,130	10,000	1,270,899		1,532,310
Area irrigated direct.....acres..	78,861		3,389	4,400	50,703		18,378

¹Data for 2 Bureau of Reclamation enterprises operated by enter users and for 1 enterprise receiving water from Bureau of Reclamation projects are included only with other types of enterprises under which they are classified.
²Enterprises reporting water from more than 1 source are counted for each source.
³Not reported by single-farm enterprises.

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	Operated by U.S. Bureau of Reclamation ¹	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated			
COST OF WATER TO FARMS, 1949²							
Total cost of water to farms:							
Enterprises reporting.....enterprises..	3,430	2,816	481	80	6	2	45
Cost.....dollars..	3,687,962	2,048,314	283,714	102,559	479,639	658,468	115,268
Area irrigated direct.....acres..	711,935	327,725	105,874	51,017	84,673	105,845	36,801
Cost per acre irrigated direct.....dollars..	5.18	6.25	2.68	2.01	5.66	6.22	3.13
Enterprises by cost per acre:							
Less than \$1.00.....enterprises reporting..	618	475	107	34			2
.....acres irrigated..	97,374	46,009	32,252	18,488			625
\$1.00-\$1.99.....enterprises reporting..	372	220	107	21			24
.....acres irrigated..	77,490	34,095	22,052	10,599			10,744
\$2.00-\$4.99.....enterprises reporting..	917	711	172	18	3	1	12
.....acres irrigated..	249,156	96,694	35,928	20,187	55,291	20,649	20,407
\$5.00-\$9.99.....enterprises reporting..	763	677	72	6	3	1	4
.....acres irrigated..	220,091	87,026	12,802	1,516	29,382	85,196	4,169
\$10.00 or more.....enterprises reporting..	760	733	23	1			3
.....acres irrigated..	67,824	63,901	2,840	227			856
Cost of water for primary irrigation:							
Enterprises reporting.....enterprises..	3,299	2,706	463	77	6	2	45
Cost.....dollars..	3,603,459	1,998,970	266,150	98,673	465,930	658,468	115,268
Area supplied primary irrigation.....acres..	691,476	320,427	97,956	47,941	82,506	105,845	36,801
Cost per acre supplied.....dollars..	5.21	6.24	2.72	2.06	5.65	6.22	3.13
Cost of water for supplemental irrigation:							
Enterprises reporting.....enterprises..	178	127	40	9	2		
Cost.....dollars..	84,503	49,344	17,564	3,886	13,709		
Area supplied supplemental irrigation.....acres..	20,459	7,298	7,918	3,076	2,167		
Cost per acre supplied.....dollars..	4.13	6.76	2.22	1.26	6.33		
Cost to farms for purposes other than operation and maintenance: ³							
Enterprises reporting.....enterprises..	54		39	10	3	1	1
Cost.....dollars..	398,164		41,455	25,962	185,772	125,039	19,936
Area irrigated direct.....acres..	214,301		24,060	18,515	77,051	85,196	9,479
Cost per acre irrigated.....dollars..	1.86		1.72	1.40	2.41	1.47	2.10
Arrearage in payments by farms, Jan. 1, 1950: ³							
Enterprises reporting.....enterprises..	41		22	3	3		13
Amount.....dollars..	2,808,990		13,140	2,552	2,136,016		657,282
Area irrigated direct.....acres..	117,967		19,872	5,286	75,494		17,315
QUANTITIES OF WATER REPORTED, 1949³							
Total obtained from all sources ⁴.....enterprises reporting..	599		478	75	7	3	36
.....acre-feet..	2,177,754		308,890	152,822	522,463	1,077,462	116,117
Surface sources.....enterprises reporting..	573		454	73	7	3	36
.....acre-feet..	2,032,115		289,388	123,166	447,463	1,077,462	94,636
Pumped wells.....enterprises reporting..	6		3	2			1
.....acre-feet..	21,072		1,610	656			18,806
Other enterprises.....enterprises reporting..	26		23	1			1
.....acre-feet..	124,567		17,892	29,000	75,000		2,675
Conveyance loss ⁴.....enterprises reporting..	596		476	75	7	2	36
.....acre-feet..	612,425		70,761	42,469	114,882	359,114	25,199
Delivered: ⁴							
Direct to farms.....enterprises reporting..	593		474	75	6	2	36
.....acre-feet..	1,230,618		215,385	96,386	347,408	491,592	79,847
To other enterprises.....enterprises reporting..	26		16	3	3	2	2
.....acre-feet..	266,517		9,906	12,948	50,796	192,300	567
For use other than irrigation.....enterprises reporting..	44		28	7	2		5
.....acre-feet..	68,194		12,838	1,019	9,377	34,456	10,504
Delivered direct to farms for primary irrigation:							
Enterprises reporting.....enterprises..	570		455	71	6	2	36
Quantity delivered.....acre-feet..	965,011		192,514	63,378	341,680	287,592	79,847
Area supplied primary irrigation.....acres..	346,687		92,271	39,971	82,506	105,845	26,094
Quantity per acre supplied.....acre-feet..	2.8		2.1	1.6	4.1	2.7	3.1
Delivered direct to farms for supplemental irrigation:							
Enterprises reporting.....enterprises..	49		39	8	2		
Quantity delivered.....acre-feet..	23,453		13,368	4,357	5,728		
Area supplied supplemental irrigation.....acres..	12,816		7,873	2,776	2,167		
Quantity per acre supplied.....acre-feet..	1.8		1.7	1.6	2.6		
Cost of water to farms for enterprises reporting quantity delivered:							
Cost for primary irrigation.....dollars..	1,545,622		240,250	93,802	465,930	658,468	78,172
Average cost per acre-foot.....dollars..	1.60		1.29	1.48	1.36	2.29	0.98
Cost for supplemental irrigation.....dollars..	34,077		17,064	3,304	13,709		
Average cost per acre-foot.....dollars..	1.45		1.28	0.76	2.39		
Measurement of water to farms:							
No water measured.....enterprises reporting..	569		452	72	4		41
.....acres..	200,456		83,768	31,347	59,377		25,964
Part of water measured.....enterprises reporting..	6		2			2	36
.....acres..	108,216		1,050			105,845	1,321
All water measured.....enterprises reporting..	24		15	5	3		1
.....acres..	70,250		17,069	18,406	25,296		9,479

¹Data for 2 Bureau of Reclamation enterprises operated by water users and for 1 enterprise receiving water from Bureau of Reclamation projects are included only with other types of enterprises under 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.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over ⁴
		All gravity	All pumped						
ENTERPRISES: FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises..	3,339	1,000	64	2,156	119	2,068	1,210	60	1
Farms irrigated direct per enterprise.....farms..	4.1	10.3	3.6	1.1	5.4	1.7	5.8	47.3	177.0
Area irrigated.....acres..	513,886	203,166	11,895	261,867	36,958	79,025	291,562	122,650	20,649
Average per enterprise.....acres..	154	203	186	121	311	38	241	2,044	20,649
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	50	48	1	1	.....	10	32	8	.....
Area irrigated.....acres..	26,614	23,971	2,495	148	.....	602	11,067	14,945	.....
Type of enterprise:									
Single-farm.....enterprises..	2,774	451	62	2,150	111	1,821	925	28	.....
.....acres..	323,762	33,641	4,809	261,474	23,838	67,236	203,033	48,493	.....
Mutual:									
Unincorporated.....enterprises..	448	439	.....	3	6	218	217	13	.....
.....acres irrigated..	89,905	86,959	.....	248	2,698	10,230	60,704	18,971	.....
Incorporated.....enterprises..	76	73	1	2	.....	18	49	9	.....
.....acres irrigated..	43,071	40,443	(⁴)	(⁴)	.....	1,119	16,197	25,755	.....
Commercial.....enterprises..	1	.....	.....	.....	1	.....	.....	1	.....
.....acres irrigated..	(⁴)	.....	.....	.....	(⁴)	.....	.....	(⁴)	.....
District.....enterprises..	3	2	1	.....	.....	.....	1	2	.....
.....acres irrigated..	8,130	(⁴)	(⁴)	.....	.....	.....	(⁴)	(⁴)	.....
U.S. Bureau of Reclamation ⁵.....enterprises..	1	1	.....	.....	.....	.....	.....	.....	1
.....acres irrigated..	20,649	20,649	.....	.....	.....	.....	.....	.....	20,649
U.S. Bureau of Indian Affairs ⁵.....enterprises..	35	33	.....	1	1	10	18	7	.....
.....acres irrigated..	16,810	17,855	.....	12	943	360	6,123	12,327	.....
State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
City.....enterprises..	1	1	.....	.....	.....	1	.....	.....	.....
.....acres irrigated..	(⁴)	(⁴)	.....	.....	.....	(⁴)	.....	.....	.....
Enterprises by primary and supplemental irrigation: ⁶									
All primary.....enterprises reporting..	3,173	916	57	2,092	108	1,958	1,162	52	1
.....acres irrigated..	482,746	178,691	11,662	256,850	35,543	75,755	278,167	108,175	20,649
Part primary, part supplemental.....enterprises reporting..	41	27	.....	14	.....	14	20	7	.....
.....acres irrigated..	14,133	13,510	.....	623	.....	470	4,738	8,925	.....
Supplemental irrigation.....acres irrigated..	7,305	6,650	.....	655	.....	360	2,395	4,550	.....
All supplemental.....enterprises reporting..	125	57	7	50	11	96	28	1	.....
.....acres irrigated..	9,702	4,315	233	3,739	1,415	2,440	6,262	1,000	.....
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	2,846	531	62	2,140	113	1,889	930	27	.....
4-9.....enterprises reporting..	190	172	.....	16	2	128	60	2	.....
10-29.....enterprises reporting..	222	220	1	.....	1	51	164	7	.....
30-99.....enterprises reporting..	72	70	.....	.....	2	.....	54	18	.....
100-299.....enterprises reporting..	6	5	1	.....	.....	.....	1	4	1
300-999.....enterprises reporting..	3	2	.....	.....	1	.....	1	2	.....
1,000 and over.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	936	347	25	525	39	936	.....	.....	.....
30-99.....enterprises reporting..	1,132	271	24	814	23	1,132	.....	.....	.....
100-499.....enterprises reporting..	1,097	299	12	747	39	.....	1,097	.....	.....
500-999.....enterprises reporting..	113	51	1	55	8	.....	113	.....	.....
1,000-2,999.....enterprises reporting..	52	26	1	16	9	.....	.....	52	.....
3,000-9,999.....enterprises reporting..	8	5	1	1	1	.....	.....	8	.....
10,000-29,999.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	.....	1
30,000 and over.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	1,000	1,000	.....	.....	.....	618	350	31	1
.....acres irrigated..	203,166	203,166	.....	.....	.....	19,467	98,277	64,773	20,649
Pumped only.....enterprises reporting..	64	.....	64	.....	.....	49	13	2	.....
.....acres irrigated..	11,895	.....	11,895	.....	.....	1,640	3,169	7,086	.....
Gravity and pumped.....enterprises reporting..	6	.....	.....	.....	6	4	2	.....	.....
.....acres irrigated..	1,750	.....	.....	.....	1,750	107	1,643	.....	.....
Ground water only (pumped from wells).....enterprises reporting..	2,156	.....	.....	2,156	.....	1,339	800	17	.....
.....acres irrigated..	261,867	.....	.....	261,867	.....	56,101	177,352	28,414	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	113	.....	.....	.....	113	58	45	10	.....
.....acres irrigated..	35,208	.....	.....	.....	35,208	1,710	11,121	22,377	.....
Stored water:									
None stored.....enterprises reporting..	3,052	918	57	1,976	101	1,948	1,056	48	.....
.....acres irrigated..	412,291	148,221	11,210	220,647	32,213	73,889	246,198	92,204	.....
Part stored.....enterprises reporting..	181	37	1	130	13	57	116	8	.....
.....acres irrigated..	49,610	11,788	486	32,886	4,450	2,879	34,143	12,588	.....
All stored.....enterprises reporting..	106	45	6	50	5	63	38	4	1
.....acres irrigated..	51,985	43,157	199	8,334	295	2,257	11,221	17,858	20,649

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.
⁴Data for less than 3 enterprises not shown separately.
⁵Data for less than 3 enterprises shown with permission of the enterprise.
⁶For interstate enterprises, data represent characteristics within the State.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁴									
Streams (and lakes).....enterprises reporting..	1,001	861	56	.....	84	580	380	40	1
.....acres irrigated..	237,134	197,605	11,642	.....	27,887	20,059	106,807	89,619	20,649
Springs.....enterprises reporting..	144	127	5	.....	12	124	18	2	.....
.....acres irrigated..	11,160	8,938	40	.....	2,182	2,681	4,520	3,959	.....
Flowing walls.....enterprises reporting..	19,114	34	.....	.....	28	37	22	3	.....
.....acres irrigated..	19,114	1,307	.....	.....	17,807	605	5,615	12,894	.....
Drainage water.....enterprises reporting..	11,597	35	.....	.....	7	10	3	2	.....
.....acres irrigated..	5	385	48	.....	11,164	282	525	10,790	.....
Sewage.....enterprises reporting..	691	3	2	.....	.....	3	2	.....	.....
.....acres irrigated..	.....	526	165	.....	.....	151	540	.....	.....
Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	201	53	8	119	21	82	103	16	.....
Acreage supplied primary irrigation.....acres..	81,230	24,877	8,444	28,705	19,204	3,166	34,174	43,890	.....
Acreage artificially drained.....acres..	42,324	5,014	5,122	20,120	12,068	2,758	18,416	21,150	.....
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	125	81	7	30	7	40	70	14	1
Acreage supplied primary irrigation.....acres..	75,263	57,379	7,333	6,762	3,789	1,947	21,202	31,465	20,649
Acreage in need of drainage.....acres..	10,741	6,526	2,487	1,379	349	680	4,716	5,295	50
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	896	834	7	.....	55	526	332	38	.....
.....dams..	1,177	1,089	8	.....	80	657	429	91	.....
Diversion dams by material:									
Concrete or masonry.....dams..	143	124	2	.....	17	43	71	29	.....
Timber.....dams..	108	93	.....	.....	15	72	34	2	.....
Earth or rock.....dams..	504	461	5	.....	38	316	139	49	.....
Other, mixed, and not reported.....dams..	422	411	1	.....	10	226	185	11	.....
Reservoirs.....enterprises reporting..	296	84	7	187	18	127	157	12	.....
.....reservoirs..	450	117	7	294	32	150	262	38	.....
Reservoirs for which capacity was reported.....reservoirs..	422	112	4	277	29	133	251	38	.....
.....total capacity, acre-feet..	135,204	125,920	3,612	3,957	1,715	10,850	44,064	80,290	.....
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	368	68	3	271	26	128	223	17	.....
100-199 acre-feet.....reservoirs..	37	28	.....	6	3	4	23	10	.....
1,000 acre-feet and over.....reservoirs..	17	16	1	.....	.....	1	5	11	.....
Reservoir dams by material:									
Concrete or masonry.....dams..	5	3	.....	2	.....	1	2	2	.....
Earth or rock.....dams..	429	107	6	284	32	140	255	34	.....
Other, mixed, and not reported.....dams..	16	7	1	8	.....	9	5	3	.....
Canals and ditches.....enterprises reporting..	1,172	822	22	273	55	617	514	740	300
.....total length, miles..	3,632	2,848	105	462	216	876	1,716	740	300
Pipelines and siphons.....enterprises reporting..	79	52	6	10	11	42	24	12	1
.....total length, miles..	158	41	39	60	18	35	72	47	5
Tunnels.....enterprises reporting..	8	7	.....	.....	1	.....	.....	.....	.....
.....total length, feet..	35,828	35,198	.....	.....	630	75	960	4,530	30,263
Flowing wells.....enterprises reporting..	63	34	.....	.....	29	37	23	3	.....
.....wells..	103	44	.....	.....	59	47	35	21	.....
Pumped wells.....enterprises reporting..	2,272	.....	.....	2,156	116	1,400	847	25	.....
.....wells..	3,793	.....	.....	3,578	215	1,654	1,924	215	.....
Wells for which pumping lift was reported.....wells..	3,493	.....	.....	3,293	200	1,495	1,808	190	.....
Average pumping lift.....feet..	70	.....	.....	71	61	67	73	74	.....
Irrigation pumps.....enterprises reporting..	2,340	62	.....	2,156	117	1,452	860	28	.....
.....pumps..	3,873	5	72	3,556	240	1,692	1,958	223	.....
Electric motors used for pumping.....enterprises reporting..	1,335	3	23	1,245	64	819	503	13	.....
.....electric motors..	2,194	3	26	2,023	142	964	1,152	78	.....
Other motors and engines used for pumping.....enterprises reporting..	1,122	2	41	1,016	63	666	434	22	.....
.....other motors and engines..	1,676	2	46	1,534	94	739	792	145	.....
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	115	80	7	27	1	83	32	.....	.....
.....acres irrigated..	11,694	8,987	451	2,176	80	2,924	8,770	.....	.....
Water delivered before and after July 1.....enterprises reporting..	3,002	864	53	1,970	115	1,817	1,129	55	1
.....acres irrigated..	475,496	183,571	11,354	243,868	36,703	71,295	271,643	111,890	20,649
Water delivered only after July 1.....enterprises reporting..	82	5	2	75	.....	62	18	2	.....
.....acres irrigated..	8,729	2,180	63	6,486	.....	2,046	3,243	3,440	.....
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	2,221	421	51	1,660	89	1,284	890	46	1
Amount.....dollars..	27,268,726	16,469,658	253,259	10,043,164	502,645	3,564,643	6,972,015	1,692,450	15,039,618
Area irrigated.....acres..	385,827	135,134	10,523	210,271	29,899	54,155	216,151	94,872	20,649
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	42	35	2	2	3	9	18	14	1
Amount.....dollars..	7,522,962	7,295,102	205,857	3,189	18,814	60,780	158,265	1,648,017	5,655,000
Area irrigated.....acres..	71,493	54,341	7,086	78	9,988	346	7,943	42,555	20,649
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	24	21	.....	1	2	7	12	5	.....
Amount.....dollars..	1,549,975	1,539,786	.....	1,189	9,000	57,065	143,064	1,349,846	.....
Area irrigated.....acres..	26,408	16,872	.....	12	9,524	200	4,455	21,753	.....

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 walls.

⁴Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State.

⁵Not reported by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
COST OF WATER TO FARMS⁴									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	3,339	1,000	64	2,156	119	2,068	1,210	60	1
Cost.....dollars..	2,521,133	434,475	68,331	1,796,916	221,411	521,561	1,470,961	465,143	63,468
Area irrigated.....acres..	513,886	203,166	11,896	261,867	36,958	79,025	291,562	122,650	20,649
Cost per acre irrigated.....dollars..	4.91	2.14	5.74	6.86	5.99	6.60	5.05	3.79	3.07
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	605	471	10	117	7	399	192	14	.....
.....acres irrigated..	91,106	73,578	986	16,158	384	10,379	55,797	24,930	.....
\$1.00 to \$1.99.....enterprises reporting..	368	179	6	166	17	171	186	11	.....
.....acres irrigated..	76,651	44,477	961	26,440	4,773	8,714	47,447	20,490	.....
\$2.00 to \$4.99.....enterprises reporting..	892	227	19	620	26	505	368	18	.....
.....acres irrigated..	174,776	69,473	4,374	84,604	16,325	24,844	83,288	45,995	20,649
\$5.00 to \$9.99.....enterprises reporting..	734	82	14	604	34	455	267	12	.....
.....acres irrigated..	106,408	12,425	5,163	78,627	10,185	19,619	63,781	23,000	.....
\$10.00 or more.....enterprises reporting..	740	41	15	649	35	538	197	5	.....
.....acres irrigated..	64,953	3,213	411	56,038	5,291	15,469	41,249	8,235	.....
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	3,214	943	57	2,106	108	1,972	1,182	59	1
Cost.....dollars..	2,455,664	417,069	65,591	1,769,030	203,974	501,136	1,448,624	442,436	63,468
Area supplied primary irrigation.....acres..	496,879	192,201	11,662	257,473	35,543	76,225	282,905	117,100	20,649
Cost per acre supplied.....dollars..	4.94	2.17	5.62	6.87	5.74	6.57	5.12	3.78	3.07
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	166	84	7	64	11	110	48	8	.....
Cost.....dollars..	65,469	17,406	2,740	27,886	17,437	20,425	22,337	22,707	.....
Area supplied supplemental irrigation.....acres..	17,007	10,965	233	4,394	1,415	2,800	8,657	5,550	.....
Cost per acre supplied.....dollars..	3.85	1.59	11.76	6.35	12.32	7.29	2.58	4.09	.....
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....enterprises..	29	24	2	1	2	4	16	9	.....
Cost.....dollars..	75,595	32,760	21,379	460	20,996	844	8,904	65,847	.....
Area irrigated.....acres..	42,208	25,460	7,086	72	9,590	294	7,653	34,261	.....
Cost per acre irrigated.....dollars..	1.79	1.29	3.02	6.39	2.19	2.87	1.16	1.92	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....enterprises..	33	31	.....	.....	2	4	19	10	.....
Amount.....dollars..	681,205	678,305	.....	.....	2,900	1,966	29,063	650,176	.....
Area irrigated.....acres..	34,663	23,291	.....	.....	11,372	159	8,074	26,430	.....
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶.....enterprises reporting..	551	536	2	6	7	244	277	29	1
.....acre-feet..	550,402	465,582	28,707	1,479	54,634	26,961	213,815	230,924	78,802
Surface sources.....enterprises reporting..	545	536	2	.....	7	238	277	29	1
.....acre-feet..	528,705	465,582	28,707	.....	34,416	25,482	213,815	210,606	78,802
Pumped wells.....enterprises reporting..	8	.....	.....	.....	2	6	.....	2	.....
.....acre-feet..	21,697	.....	.....	1,479	20,218	1,479	.....	20,218	.....
Other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acre-feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Conveyance loss ⁶.....enterprises reporting..	550	536	2	5	7	242	278	29	1
.....acre-feet..	136,947	118,481	7,822	237	10,407	7,144	50,928	51,921	26,954
Delivered: ⁶									
Direct to farms.....enterprises reporting..	551	536	2	6	7	244	277	29	1
.....acre-feet..	367,958	301,604	20,885	1,242	44,227	19,219	158,106	163,241	27,392
To other enterprises.....enterprises reporting..	3	3	.....	.....	.....	.....	2	1	.....
.....acre-feet..	630	630	.....	.....	.....	.....	130	500	.....
For use other than irrigation.....enterprises reporting..	37	37	.....	.....	.....	10	21	5	1
.....acre-feet..	44,867	44,867	.....	.....	.....	598	4,651	15,162	24,456
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	529	516	2	6	5	239	260	29	1
Quantity delivered.....acre-feet..	342,776	281,582	20,885	1,242	39,067	18,660	143,923	152,801	27,392
Acreage supplied primary irrigation.....acres..	169,719	149,350	7,086	393	12,890	11,249	73,978	63,843	20,649
Quantity per acre supplied.....acre-feet..	2.0	1.9	2.9	3.2	3.0	1.7	1.9	2.4	1.3
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	43	41	.....	.....	2	7	30	6	.....
Quantity delivered.....acre-feet..	14,554	13,894	.....	.....	660	549	8,065	5,940	.....
Acreage supplied supplemental irrigation.....acres..	9,703	9,518	.....	.....	185	415	5,038	4,250	.....
Quantity per acre supplied.....acre-feet..	1.5	1.5	.....	.....	3.6	1.3	1.6	1.4	.....
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	460,810	348,227	49,990	1,465	61,128	35,138	153,297	208,907	63,468
Average cost per acre-foot.....dollars..	1.34	1.24	2.39	1.18	1.56	1.88	1.07	1.37	2.32
Cost for supplemental irrigation.....dollars..	16,098	15,726	.....	.....	372	1,212	8,649	6,237	.....
Average cost per acre-foot.....dollars..	1.11	1.13	.....	.....	0.56	2.21	1.67	1.05	.....
Measurement of water to farms:									
No water measured.....enterprises reporting..	525	511	2	6	6	238	264	23	.....
.....acres..	130,492	119,836	7,086	393	3,177	11,421	74,626	44,445	.....
Part of water measured.....enterprises reporting..	4	4	.....	.....	.....	.....	2	1	.....
.....acres..	22,570	22,570	.....	.....	.....	.....	786	1,135	20,649
All water measured.....enterprises reporting..	17	15	.....	.....	2	.....	9	8	.....
.....acres..	32,274	22,331	.....	.....	9,943	.....	3,697	28,577	.....

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

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

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

Item (For definitions and explanations, see text)		The State	Bernalillo	Catron	Chaves	Colfax	Curry	De Baca	Dona Ana
1	Irrigated farms.....number 1950..	12,691	672	78	624	221	14	153	1,160
2	.....number 1945..	14,299	1,256	104	699	235	.....	118	1,234
3	Proportion of all farms.....percent 1950..	53.8	67.6	22.3	69.5	44.3	1.4	49.0	92.8
4	Land in irrigated farms.....acres 1950..	14,560,193	671,435	209,361	1,055,878	848,431	28,099	51,627	187,134
5	.....average per farm, acres 1950..	1,147.3	999.2	2,684.1	1,692.1	3,839.1	2,007.1	337.4	161.3
6	Value of land and buildings.....average per farm, dollars 1950..	22,900	19,549	19,194	49,929	61,208	412,875	15,042	41,171
7	.....average per acre, dollars 1950..	37.60	42.26	6.66	35.67	12.95	79.78	30.61	277.75
8	Proportion of irrigated farms reporting value.....percent 1950..	83	86	91	91	69	29	91	94
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	44	40	98	75	85	74	132	86
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	12,354	624	73	610	212	14	148	1,154
11	.....acres..	658,838	12,156	1,861	86,405	24,642	13,513	4,301	81,329
12	Cropland used only for pasture.....acres..	472,790	4,972	1,394	4,298	15,785	141	1,867	1,197
13	Cropland not harvested and not pastured.....acres..	145,426	3,140	256	10,494	9,261	2,434	758	3,828
14	Woodland pastured.....acres..	3,306,054	105,875	197,902	5,837	157,359	.....	109	2,742
15	Other pasture (not cropland and not woodland).....acres..	9,555,758	533,082	7,061	920,554	557,112	11,740	43,044	85,274
16	Land pastured, total.....farms reporting..	6,348	138	70	271	193	13	78	124
17	.....acres..	13,334,602	643,929	206,357	930,689	730,256	11,881	45,020	89,213
18	Irrigated land in farms.....acres 1949..	655,287	13,578	1,495	98,588	27,782	3,006	4,671	83,224
19	.....acres 1944..	534,640	18,905	1,271	83,341	30,573	.....	3,899	73,205
20	Land irrigated by sprinklers.....farms reporting 1949..	53	3	.....	3	1	1	2	4
21	.....acres 1949..	1,822	3	.....	64	39	23	60	89
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	12,187	603	71	603	207	13	144	1,152
23	.....acres..	577,767	11,132	1,218	85,891	21,044	2,956	4,103	81,229
24	Irrigated pasture.....farms reporting..	2,435	99	12	90	49	3	45	65
25	.....acres..	52,896	1,590	216	7,462	1,791	40	376	1,036
26	Irrigated wild grass pasture.....farms reporting..	1,050	32	4	23	20	1	8	10
27	.....acres..	28,747	223	65	4,876	865	24	71	420
28	Irrigated tame grass pasture.....farms reporting..	1,511	69	8	70	30	2	38	55
29	.....acres..	24,149	1,367	151	2,586	926	16	305	616
30	Irrigated cropland not harvested and not pastured.....farms reporting..	1,551	153	7	120	18	1	27	88
31	.....acres..	24,624	856	61	5,235	4,947	10	192	959
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	4,841	429	35	91	14	1	38	234
33	10-19 acres.....farms reporting..	2,359	117	17	53	20	.....	33	156
34	20-29 acres.....farms reporting..	1,088	45	7	21	21	.....	9	9
35	30-49 acres.....farms reporting..	1,289	37	15	57	32	1	45	103
36	50-99 acres.....farms reporting..	1,497	25	3	122	63	2	23	223
37	100-199 acres.....farms reporting..	992	10	1	133	45	4	5	154
38	200 acres and over.....farms reporting..	625	9	.....	137	26	5	.....	77
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	8,675	537	55	297	126	6	116	607
40	Part owners.....number..	2,304	70	13	147	62	5	26	284
41	Managers.....number..	120	12	1	6	9	1	1	14
42	Tenants.....number..	1,592	53	9	174	24	2	10	255
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	10,616	582	45	585	152	1	132	1,134
44	All land.....acres 1950..	7,293,423	278,784	202,544	1,029,842	537,590	480	35,049	183,715
45	Cropland harvested.....acres 1949..	506,739	10,550	889	83,755	16,098	141	3,878	78,556
46	Irrigated land.....acres 1949..	564,655	11,927	1,043	95,961	21,707	165	4,303	80,421
47	Partly irrigated farms.....number 1950..	2,075	90	33	39	69	13	21	26
48	All land.....acres 1950..	7,266,770	392,651	6,817	26,036	310,841	27,619	15,778	3,419
49	Cropland harvested, total.....farms reporting 1949..	1,938	42	28	25	60	13	16	20
50	.....acres 1949..	152,099	1,606	972	2,650	8,544	13,372	423	2,773
51	Irrigated land.....acres 1949..	90,632	1,651	452	2,627	6,075	2,841	368	2,803
52	Irrigated cropland harvested.....farms reporting 1949..	1,571	21	26	18	55	12	12	18
53	.....acres 1949..	71,028	582	329	2,136	4,946	2,815	225	2,673
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	10,616	582	45	585	152	1	132	1,134
55	Average acreage per farm:								
56	All land.....acres 1949..	687.0	478.2	4,501.0	1,760.4	3,536.8	480.0	271.6	162.0
57	Cropland harvested.....acres 1949..	47.7	18.1	19.8	143.2	105.9	141.0	29.4	69.3
58	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	1.2	1.0	0.9	0.3	1.4	.....	2.9	1.7
59	Vegetables harvested for sale.....acres 1949..	0.7	1.1	.....	0.1	0.1	1.0	0.3	1.2
60	Small grains (including sorghums).....acres 1949..	5.3	2.4	4.4	11.9	37.9	120.0	6.6	0.1
61	All hay.....acres 1949..	11.3	10.7	8.1	33.5	51.5	.....	14.0	6.6
62	Farms by tenure of operator:								
63	Full owners and managers.....number 1950..	7,442	470	29	279	96	1	101	609
64	Part owners.....number 1950..	1,810	65	10	142	36	.....	21	277
65	Tenants.....number 1950..	1,364	47	6	164	20	.....	10	248
66	Value of land and buildings per farm.....dollars 1950..	23,383	18,596	24,388	51,114	73,571	.....	12,521	40,263
67	Nonirrigated farms.....number 1950..	10,908	322	272	274	278	987	166	90
68	Average acreage per farm:								
69	All land.....acres 1949..	3,021.8	745.4	5,164.0	7,268.3	3,960.9	838.7	8,639.7	7,346.9
70	Cropland harvested.....acres 1949..	113.3	63.7	13.3	11.4	108.1	400.9	16.8	2.0
71	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	0.1	(¹)	(¹)	0.1	(¹)	0.2	(¹)
72	Vegetables harvested for sale.....acres 1949..	(¹)	(¹)	.....	.....	.....	(¹)	.....	.....
73	Small grains (including sorghums).....acres 1949..	77.9	5.6	1.9	2.8	46.3	362.0	5.8	0.9
74	All hay.....acres 1949..	3.3	0.6	1.6	0.7	22.8	0.6	4.1	.....
75	Farms by tenure of operator:								
76	Full owners and managers.....number 1950..	6,016	221	188	136	134	468	67	56
77	Part owners.....number 1950..	3,427	56	64	110	102	309	96	19
78	Tenants.....number 1950..	1,465	45	20	28	42	210	3	15
79	Value of land and buildings per farm.....dollars 1950..	31,360	3,978	27,134	44,926	37,183	36,474	71,870	249,068
Irrigated farms and irrigated land by origin of water, 1949:									
80	Individually operated supply works and—								
81	No other irrigation enterprise.....farms reporting..	2,489	14	21	436	38	14	3	13
82	.....acres irrigated..	293,060	230	510	78,850	3,533	3,006	100	425
83	1 other irrigation enterprise.....farms reporting..	260	4	1	54	4	.....	.....	30
84	.....acres irrigated..	40,197	65	85	11,928	280	.....	.....	4,403
85	2 or more other irrigation enterprises.....farms reporting..	26	.....	.....	6	.....	.....	.....	.....
86	.....acres irrigated..	2,587	.....	.....	1,170	.....	.....	.....	.....
87	No individually operated supply works but—								
88	1 other irrigation enterprise.....farms reporting..	9,344	654	56	121	175	.....	150	1,116
89	.....acres irrigated..	297,490	13,283	900	6,143	23,062	.....	4,571	78,223
90	2 or more other irrigation enterprises.....farms reporting..	572	.....	.....	7	4	.....	.....	1
91	.....acres irrigated..	21,953	.....	.....	497	907	.....	.....	173

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)	Eddy	Grant	Guadalupe	Harding	Hidalgo	Lee	Lincoln	Luna
1 Irrigated farms.....number 1950..	541	167	133	2	70	383	152	227
2	541	157	233	2	57	96	145	244
3 Proportion of all farms.....percent 1950..	71.9	43.0	34.9	0.7	44.3	51.1	37.5	70.5
4 Land in irrigated farms.....acres 1950..	226,976	375,488	110,977	28,810	103,931	341,707	163,827	160,275
5	419.5	2,248.4	834.4	14,405.0	1,484.7	892.2	1,077.8	706.1
6 Value of land and buildings.....average per farm, dollars 1950..	40,533	37,424	8,527	440,650	30,272	52,709	23,696	33,054
7	102.48	17.81	10.39	15.42	37.99	63.10	132.47	44.83
8 Proportion of irrigated farms reporting value.....percent 1950..	91	93	88	50	106	99	86	82
9 Proportion of land in irrigated farms for which value was reported.....percent 1950..	86	87	87	99	57	93	14	86
Land in irrigated farms according to use, 1949:								
10 Cropland harvested.....farms reporting..	515	157	130	2	69	379	147	218
11	66,521	5,070	2,024	1,079	9,178	62,352	4,734	21,853
12 Cropland used only for pasture.....acres..	6,679	2,245	2,855	.....	409	2,063	1,286	4,659
13 Cropland not harvested and not pastured.....acres..	6,417	4,276	240	.....	1,842	4,362	604	6,360
14 Woodland pastured.....acres..	19,660	16,620	30,326	.....	230	150	112,274	2,619
15 Other pasture (not cropland and not woodland).....acres..	116,432	338,475	70,297	27,722	91,121	269,123	37,747	112,327
16 Land pastured, total.....farms reporting..	256	141	100	2	39	253	118	115
17	142,771	357,340	103,478	27,722	91,760	271,336	151,307	139,515
18 Irrigated land in farms.....acres 1949..	71,451	6,033	2,043	14	10,820	61,443	4,218	22,764
19	67,778	6,301	2,966	18	2,691	3,946	3,360	12,142
20 Land irrigated by sprinklers.....farms reporting 1949..	2	1	2	.....	3	3	.....	.....
21	19	10	11	.....	348	104	.....	.....
Irrigated land in farms according to use, 1949:								
22 Irrigated cropland harvested.....farms reporting..	514	157	130	2	67	376	143	218
23	66,448	4,906	1,915	14	8,783	59,800	3,471	21,656
24 Irrigated pasture.....farms reporting..	107	50	8	.....	21	76	27	35
25	3,757	926	70	.....	976	1,108	522	938
26 Irrigated wild grass pasture.....farms reporting..	27	22	6	.....	10	26	5	12
27	1,247	283	33	.....	569	506	142	258
28 Irrigated tame grass pasture.....farms reporting..	82	34	3	.....	12	56	23	45
29	2,510	643	37	.....	407	602	380	680
30 Irrigated cropland not harvested and not pastured.....farms reporting..	56	16	11	.....	15	19	26	14
31	1,246	201	58	.....	1,061	535	225	170
Irrigated farms by acres irrigated in 1949:								
32 1-9 acres.....farms reporting..	64	51	67	1	3	14	59	16
33 10-19 acres.....farms reporting..	42	36	37	1	4	11	46	11
34 20-29 acres.....farms reporting..	30	19	16	.....	3	8	22	9
35 30-49 acres.....farms reporting..	62	25	9	.....	11	23	13	26
36 50-99 acres.....farms reporting..	139	21	1	.....	18	100	7	74
37 100-199 acres.....farms reporting..	112	13	2	.....	18	128	1	72
38 200 acres and over.....farms reporting..	92	2	1	.....	13	99	4	19
Irrigated farms by tenure of operator, 1950:								
39 Full owners.....number..	269	78	67	1	47	129	89	141
40 Part owners.....number..	112	53	51	1	13	87	29	38
41 Managers.....number..	3	3	.....	.....	.....	11	3	5
42 Tenants.....number..	157	33	15	.....	10	156	31	43
Land in wholly and in partly irrigated farms:								
43 Wholly irrigated farms.....number 1950..	511	142	115	.....	60	323	129	207
44 All land.....acres 1950..	214,708	272,296	106,286	.....	39,416	273,183	118,202	146,125
45 Cropland harvested.....acres 1949..	66,288	4,328	1,733	.....	7,910	51,860	3,153	20,634
46 Irrigated land.....acres 1949..	70,876	5,245	1,848	.....	9,370	53,165	3,804	21,450
47 Partly irrigated farms.....number 1950..	30	25	18	2	10	60	23	20
48 All land.....acres 1950..	12,268	103,192	4,691	28,810	64,515	68,524	45,625	14,150
49 Cropland harvested, total.....farms reporting 1949..	4	15	15	2	9	56	18	11
50	233	742	291	1,074	1,268	10,492	1,581	1,239
51 Irrigated land.....acres 1949..	575	788	195	14	1,450	8,278	414	1,314
52 Irrigated cropland harvested.....farms reporting 1949..	3	15	15	2	7	53	14	11
53	160	578	182	14	873	7,940	318	1,022
Characteristics of wholly irrigated and nonirrigated farms:								
54 Wholly irrigated farms.....number 1950..	511	142	115	.....	60	323	129	207
55 Average acreage per farm:								
56 All land.....acres 1949..	420.2	1,917.6	924.2	.....	656.9	845.8	916.3	705.9
57 Cropland harvested.....acres 1949..	129.3	30.5	15.1	.....	131.8	160.6	24.4	99.7
58 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.2	1.2	0.6	.....	(¹)	0.1	9.0	0.1
59 Vegetables harvested for sale.....acres 1949..	0.1	0.3	0.1	.....	1.3	0.7	0.4	0.1
60 Small grains (including sorghums).....acres 1949..	6.2	4.4	0.2	.....	5.9	9.8	2.8	2.3
61 All hay.....acres 1949..	27.6	14.3	8.2	.....	6.8	5.7	8.2	2.3
Farms by tenure of operator:								
62 Full owners and managers.....number 1950..	252	69	60	.....	43	118	76	131
63 Part owners.....number 1950..	107	46	43	.....	10	71	27	34
64 Tenants.....number 1950..	152	27	12	.....	7	134	26	42
65 Value of land and buildings per farm.....dollars 1950..	41,687	35,974	8,239	.....	32,107	56,901	20,529	34,247
Nonirrigated farms.....number 1950..								
66 Average acreage per farm:								
67 All land.....acres 1949..	3,207.9	3,109.6	6,920.6	3,772.8	16,910.3	6,211.5	6,284.0	6,886.9
68 Cropland harvested.....acres 1949..	1.3	4.5	5.8	138.8	7.2	38.4	11.5	9.5
69 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	0.7	(¹)	0.1	(¹)	0.1	0.3	0.1
70 Vegetables harvested for sale.....acres 1949..	.....	.....	(¹)	(¹)	.....	0.2	.....	.....
71 Small grains (including sorghums).....acres 1949..	.....	0.2	(¹)	110.8	0.1	10.4	2.0	0.6
72 All hay.....acres 1949..	.....	0.7	0.7	8.2	4.0	0.6	1.2	9.3
Farms by tenure of operator:								
73 Full owners and managers.....number 1950..	126	136	103	128	57	128	147	49
74 Part owners.....number 1950..	59	66	128	113	30	179	89	42
75 Tenants.....number 1950..	26	19	17	24	1	60	17	4
76 Value of land and buildings per farm.....dollars 1950..	20,885	38,430	59,702	29,509	120,142	57,496	46,166	49,002
Irrigated farms and irrigated land by origin of water, 1949:								
Individually operated supply works and—								
77 No other irrigation enterprise.....farms reporting..	229	52	3	2	37	379	54	223
78	44,013	1,568	58	14	8,906	61,265	2,679	21,911
79 1 other irrigation enterprise.....farms reporting..	39	10	.....	.....	.....	.....	16	.....
80	8,353	673	.....	.....	.....	.....	358	.....
81 2 or more other irrigation enterprises.....farms reporting..	.....	2	.....	.....	.....	.....	4	.....
82 .....	.....	129	.....	.....	.....	.....	255	.....
No individually operated supply works but—								
83 1 other irrigation enterprise.....farms reporting..	268	83	128	.....	33	4	65	4
84	18,765	2,194	1,953	.....	1,914	178	669	853
85 2 or more other irrigation enterprises.....farms reporting..	5	20	2	.....	.....	.....	13	.....
86	320	1,469	32	.....	.....	.....	257	.....

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)		McKinley	Mora	Otero	Quay	Rio Arriba	Roosevelt	Sandoval	San Juan
1	Irrigated farms.....number 1950..	25	397	214	217	1,472	624	533	1,198
2	.....1945..	45	660	281	23	1,034	386	657	829
3	Proportion of all farms.....percent 1950..	13.6	40.5	47.5	22.3	81.8	35.7	69.9	79.1
4	Land in irrigated farms.....acres 1950..	2,043,215	408,423	556,668	126,162	1,218,936	113,324	466,550	1,729,268
5	.....average per farm, acres 1950..	81,728.6	1,028.8	2,601.3	581.4	828.1	181.6	875.3	1,443.5
6	Value of land and buildings.....average per farm, dollars 1950..	9,437	12,086	17,353	18,654	8,964	15,046	17,973	11,618
7	.....average per acre, dollars 1950..	12.10	13.06	73.84	51.71	28.58	135.75	37.24	63.94
8	Proportion of irrigated farms reporting value.....percent 1950..	68	99	98	86	86	89	57	65
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	1	89	9	53	33	54	32	8
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	25	392	201	213	1,455	605	519	1,167
11	.....acres..	7,565	11,698	5,257	27,434	23,459	54,826	10,635	30,880
12	Cropland used only for pasture.....acres..	326,510	9,353	3,122	679	46,019	2,089	5,617	5,233
13	Cropland not harvested and not pastured.....acres..	5,438	2,627	1,890	2,997	18,709	2,880	2,044	5,553
14	Woodland pastured.....acres..	309,227	181,605	25,700	61	743,797	163	283,036	318,953
15	Other pasture (not cropland and not woodland).....acres..	1,386,899	155,172	508,379	91,592	370,358	47,316	153,927	1,343,643
16	Land pastured, total.....farms reporting..	23	345	138	178	717	351	273	634
17	.....acres..	2,022,636	346,130	537,201	92,332	1,160,174	49,568	442,580	1,667,829
18	Irrigated land in farms.....acres 1949..	4,753	9,924	11,726	22,024	21,574	34,386	11,277	36,334
19	.....1944..	3,475	14,699	8,780	662	29,930	14,495	15,799	33,493
20	Land irrigated by sprinklers.....farms reporting 1949..	.....	.....	.....	4	.....	9	1	7
21	.....acres 1949..	.....	.....	15	56	.....	465	6	334
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	25	384	198	211	1,418	592	512	1,158
23	.....acres..	4,736	8,458	4,541	21,219	17,365	32,407	9,226	29,485
24	Irrigated pasture.....farms reporting..	5	45	57	35	208	215	99	341
25	.....acres..	16	1,378	6,974	592	3,630	1,462	1,490	4,936
26	Irrigated wild grass pasture.....farms reporting..	2	25	13	4	103	24	86	121
27	.....acres..	7	832	6,396	19	2,327	132	1,384	1,861
28	Irrigated tame grass pasture.....farms reporting..	3	23	46	31	117	195	15	262
29	.....acres..	9	546	578	573	1,303	1,330	106	3,075
30	Irrigated cropland not harvested and not pastured.....farms reporting..	1	12	40	8	98	58	129	223
31	.....acres..	1	88	211	213	579	517	561	1,913
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	4	249	81	30	958	103	277	379
33	10-19 acres.....farms reporting..	11	70	46	19	273	77	169	334
34	20-29 acres.....farms reporting..	4	31	40	13	105	39	33	168
35	30-49 acres.....farms reporting..	2	17	25	34	65	131	31	139
36	50-99 acres.....farms reporting..	.....	14	12	49	50	180	18	118
37	100-199 acres.....farms reporting..	2	4	5	42	13	82	.....	53
38	200 acres and over.....farms reporting..	2	12	5	30	8	12	5	7
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	12	266	130	92	1,267	312	455	990
40	Part owners.....number..	8	109	39	70	143	163	59	101
41	Managers.....number..	3	5	4	2	3	2	8	5
42	Tenants.....number..	2	17	41	53	59	147	11	102
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	14	147	157	161	1,204	376	446	1,114
44	All land.....acres 1950..	16,529	297,174	43,539	86,442	192,099	39,700	358,624	157,658
45	Cropland harvested.....acres 1949..	393	5,534	3,958	17,737	12,738	20,045	7,696	24,286
46	Irrigated land.....acres 1949..	399	6,579	5,964	18,300	15,244	21,223	8,753	30,438
47	Partly irrigated farms.....number 1950..	11	250	57	56	268	248	87	84
48	All land.....acres 1950..	2,026,686	111,249	513,129	39,720	1,026,837	73,624	107,926	1,571,610
49	Cropland harvested, total.....farms reporting 1949..	11	245	44	52	251	229	73	53
50	.....acres 1949..	7,172	6,164	1,299	9,677	10,721	34,781	2,939	6,594
51	Irrigated land.....acres 1949..	4,354	3,345	5,762	3,724	6,330	13,163	2,524	5,896
52	Irrigated cropland harvested.....farms reporting 1949..	11	237	41	50	214	216	66	44
53	.....acres 1949..	4,343	2,924	583	3,462	4,027	12,362	1,530	5,199
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	14	147	157	161	1,204	376	446	1,114
55	Average acreage per farm:								
56	All land.....acres 1949..	1,180.6	2,021.6	277.3	536.9	159.6	105.6	804.1	141.5
57	Cropland harvested.....acres 1949..	28.1	37.6	25.2	110.3	10.6	53.3	17.3	21.8
58	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(1)	0.7	7.0	(1)	1.2	(1)	1.5	2.8
59	Vegetables harvested for sale.....acres 1949..	7.8	(1)	1.8	0.8	0.2	1.7	0.5	0.2
60	Small grains (including sorghums).....acres 1949..	3.2	8.1	2.4	33.4	2.2	12.2	3.9	2.5
61	All hay.....acres 1949..	13.1	26.8	3.4	7.9	6.0	3.8	7.7	8.4
62	Farms by tenure of operator:								
63	Full owners and managers.....number 1950..	10	111	99	68	1,072	206	395	924
64	Part owners.....number 1950..	3	28	28	47	92	85	42	94
65	Tenants.....number 1950..	1	8	30	46	40	85	9	96
66	Value of land and buildings per farm.....dollars 1950..	9,164	20,313	18,415	21,439	8,285	14,700	22,404	11,367
67	Nonirrigated farms.....number 1950..	159	584	237	757	327	1,125	230	317
68	Average acreage per farm:								
69	All land.....acres 1949..	3,591.1	1,187.0	4,728.3	2,317.2	698.1	1,169.4	746.7	753.3
70	Cropland harvested.....acres 1949..	46.0	21.9	11.1	256.8	29.6	229.1	14.1	7.0
71	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(1)	0.1	0.3	(1)	0.1	(1)	0.1	0.2
72	Vegetables harvested for sale.....acres 1949..	(1)	.....	0.2	(1)	(1)	(1)	0.2	0.1
73	Small grains (including sorghums).....acres 1949..	8.4	7.7	3.5	211.0	15.4	172.0	2.7	0.7
74	All hay.....acres 1949..	3.3	9.0	5.0	0.9	7.6	0.6	3.7	2.0
75	Farms by tenure of operator:								
76	Full owners and managers.....number 1950..	112	405	137	270	250	460	196	307
77	Part owners.....number 1950..	32	144	72	337	48	393	29	7
78	Tenants.....number 1950..	15	35	28	150	29	272	5	3
79	Value of land and buildings per farm.....dollars 1950..	28,693	11,434	32,751	37,393	4,211	25,551	19,716	2,634
Irrigated farms and irrigated land by origin of water, 1949:									
80	Individually operated supply works and—								
81	No other irrigation enterprise.....farms reporting..	3	19	95	41	40	549	1	8
82	.....acres irrigated..	1,553	1,969	2,434	2,052	2,627	31,944	80	815
83	1 other irrigation enterprise.....farms reporting..	.....	4	27	.....	0	15	6	13
84	.....acres irrigated..	.....	581	7,591	.....	374	1,173	67	805
85	2 or more other irrigation enterprises.....farms reporting..	.....	1	.....	.....	2	.....	.....	2
86	.....acres irrigated..	.....	40	.....	.....	7	.....	.....	60
87	No individually operated supply works but—								
88	1 other irrigation enterprise.....farms reporting..	22	328	90	176	1,315	59	524	1,103
89	.....acres irrigated..	3,200	6,443	1,921	19,972	16,267	1,200	11,015	30,300
90	2 or more other irrigation enterprises.....farms reporting..	.....	45	2	.....	107	1	2	72
91	.....acres irrigated..	.....	891	80	.....	2,299	69	115	4,346

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)	San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia
1 Irrigated farms.....number 1950..	352	340	204	281	1,255	73	42	867
2	586	531	245	574	1,291	7	32	1,197
3 Proportion of all farms.....percent 1950..	33.5	62.8	70.6	53.5	92.1	9.3	5.8	74.3
4 Land in irrigated farms.....acres 1950..	600,931	231,110	221,013	114,832	271,582	260,127	464,472	1,169,624
5	1,707.2	679.7	1,083.4	408.7	216.4	3,563.4	11,058.9	1,349.0
6 Value of land and buildings.....average per farm, dollars 1950..	22,440	12,591	17,557	16,077	4,899	36,027	135,590	12,078
7	21.68	72.98	18.66	31.11	47.10	21.65	16.03	22.40
8 Proportion of irrigated farms reporting value.....percent 1950..	101	83	107	66	83	110	43	62
9 Proportion of land in irrigated farms for which value was reported.....percent 1950..	61	21	93	84	40	51	33	25
Land in irrigated farms according to use, 1949:								
10 Cropland harvested.....farms reporting..	345	333	195	271	1,221	71	41	848
11	10,359	6,257	4,507	6,760	20,646	15,541	6,842	19,154
12 Cropland used only for pasture.....acres..	5,618	1,231	676	2,666	6,005	3,039	930	4,153
13 Cropland not harvested and not pastured.....acres..	2,365	9,694	1,754	2,121	11,438	9,231	6,943	5,460
14 Woodland pastured.....acres..	170,444	34,153	703	1,617	102,447	10,107	13,500	458,838
15 Other pasture (not cropland and not woodland).....acres..	390,255	175,171	202,593	97,540	112,716	215,629	426,299	657,248
16 Land pastured, total.....farms reporting..	283	122	94	134	725	63	40	317
17	566,317	210,555	203,972	101,823	221,168	228,775	440,729	1,120,239
18 Irrigated land in farms.....acres 1949..	9,229	5,173	4,997	8,281	24,664	11,178	7,091	21,546
19	20,104	6,051	5,103	11,373	25,106	38	3,734	31,402
20 Land irrigated by sprinklers.....farms reporting 1949..	2	1	.....	.....	2	1	.....	1
21	4	1	.....	.....	16	150	.....	5
Irrigated land in farms according to use, 1949:								
22 Irrigated cropland harvested.....farms reporting..	336	328	193	270	1,216	69	41	836
23	7,354	4,523	4,462	6,361	19,820	9,332	5,519	18,393
24 Irrigated pasture.....farms reporting..	49	55	24	59	400	16	8	112
25	1,798	469	368	734	4,098	1,179	1,382	1,582
26 Irrigated wild grass pasture.....farms reporting..	19	44	4	24	290	7	7	71
27	366	196	14	296	2,805	659	1,032	839
28 Irrigated tame grass pasture.....farms reporting..	35	13	20	39	125	9	1	50
29	1,432	273	354	438	1,293	520	350	743
30 Irrigated cropland not harvested and not pastured.....farms reporting..	9	43	24	44	119	11	2	159
31	77	181	167	1,186	746	667	190	1,571
Irrigated farms by acres irrigated in 1949:								
32 1-9 acres.....farms reporting..	191	235	85	85	609	4	1	433
33 10-19 acres.....farms reporting..	70	68	48	79	319	2	3	187
34 20-29 acres.....farms reporting..	26	10	23	41	143	3	3	82
35 30-49 acres.....farms reporting..	22	9	24	34	94	8	7	78
36 50-99 acres.....farms reporting..	23	6	18	27	63	23	9	11
37 100-199 acres.....farms reporting..	10	10	4	12	16	19	11	11
38 200 acres and over.....farms reporting..	10	2	2	3	11	14	8	10
Irrigated farms by tenure of operator, 1950:								
39 Full owners.....number..	249	299	127	178	968	35	8	722
40 Part owners.....number..	84	27	46	76	231	21	22	114
41 Managers.....number..	2	5	2	1	3	1	3	2
42 Tenants.....number..	17	9	29	26	53	16	9	29
Land in wholly and in partly irrigated farms:								
43 Wholly irrigated farms.....number 1950..	213	300	188	258	1,085	37	26	772
44 All land.....acres 1950..	402,667	111,565	195,259	111,295	252,775	96,297	359,237	1,133,513
45 Cropland harvested.....acres 1949..	5,339	3,256	4,352	6,069	18,177	5,954	3,933	17,479
46 Irrigated land.....acres 1949..	6,496	3,782	4,733	7,234	21,971	6,915	5,365	19,974
47 Partly irrigated farms.....number 1950..	139	40	16	23	170	36	16	95
48 All land.....acres 1950..	198,264	119,545	25,754	3,537	16,807	163,830	105,235	36,081
49 Cropland harvested, total.....farms reporting 1949..	132	33	7	13	136	34	15	76
50	5,020	3,001	155	696	2,469	9,587	2,909	1,675
51 Irrigated land.....acres 1949..	2,733	1,391	264	1,047	2,693	4,263	1,726	1,572
52 Irrigated cropland harvested.....farms reporting 1949..	123	28	5	12	131	32	15	64
53	2,015	1,267	110	292	1,643	3,378	1,586	914
Characteristics of wholly irrigated and nonirrigated farms:								
54 Wholly irrigated farms.....number 1950..	213	300	188	258	1,085	37	26	772
55 Average acreage per farm:								
56 All land.....acres 1949..	1,890.5	371.9	1,038.6	431.4	233.0	2,602.6	13,816.8	1,466.3
57 Cropland harvested.....acres 1949..	25.1	10.9	23.1	23.5	16.8	160.9	151.3	22.6
58 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.2	1.4	0.5	0.3	0.2	0.3	0.2	0.3
59 Vegetables harvested for sale.....acres 1949..	0.1	0.2	0.3	0.2	0.1	.....	.....	2.9
60 Small grains (including sorghums).....acres 1949..	3.8	1.3	1.1	3.9	5.6	34.2	16.2	4.8
61 All hay.....acres 1949..	18.0	5.2	4.3	10.2	8.1	11.3	117.5	8.9
Farms by tenure of operator:								
62 Full owners and managers.....number 1950..	162	269	121	164	837	18	8	644
63 Part owners.....number 1950..	42	23	39	68	206	8	15	101
64 Tenants.....number 1950..	9	8	28	26	42	11	3	27
65 Value of land and buildings per farm.....dollars 1950..	29,509	10,642	16,334	9,808	4,799	33,074	132,743	12,258
66 Nonirrigated farms.....number 1950..	698	201	85	244	107	712	688	300
67 Average acreage per farm:								
68 All land.....acres 1949..	1,978.4	3,823.3	3,899.4	5,657.3	2,441.1	1,852.1	2,933.7	5,521.0
69 Cropland harvested.....acres 1949..	16.6	81.1	1.4	44.9	10.3	131.0	126.2	49.2
70 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	0.2	0.1	0.1	(¹)	0.2	(¹)	0.2
71 Vegetables harvested for sale.....acres 1949..	(¹)	(¹)	.....	(¹)	.....	.....	(¹)	.....
72 Small grains (including sorghums).....acres 1949..	4.3	15.8	0.2	3.6	4.9	18.9	77.4	6.4
73 All hay.....acres 1949..	3.5	2.1	0.5	0.8	4.3	1.7	7.6	1.4
Farms by tenure of operator:								
74 Full owners and managers.....number 1950..	529	119	49	153	86	327	257	215
75 Part owners.....number 1950..	139	45	31	72	15	233	301	66
76 Tenants.....number 1950..	30	36	5	19	6	152	130	19
77 Value of land and buildings per farm.....dollars 1950..	24,242	35,921	50,061	33,906	7,601	24,581	39,256	17,007
Irrigated farms and irrigated land by origin of water, 1949:								
78 Individually operated supply works and—								
79 No other irrigation enterprise.....farms reporting..	21	16	54	4	4	71	37	8
80	1,407	1,671	894	7	256	10,591	6,746	1,246
81 1 other irrigation enterprise.....farms reporting..	8	4	10	.....	2	.....	.....	5
82	161	24	584	.....	14	.....	.....	2,678
83 2 or more other irrigation enterprises.....farms reporting..	2	.....	.....	.....	.....	.....	1	.....
84	423	.....	.....	.....	400	.....	95	.....
85 No individually operated supply works but—								
86 1 other irrigation enterprise.....farms reporting..	305	249	139	277	1,043	2	4	851
87	6,660	1,957	3,427	8,274	17,272	587	250	16,037
88 2 or more other irrigation enterprises.....farms reporting..	16	71	1	.....	200	.....	.....	3
89	578	1,521	92	.....	6,722	.....	.....	1,585

¹ Less than 0.05.

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

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

Item (For definitions and explanations, see text)		The State	Bernalillo	Catron	Chaves	Colfax	Curry	De Baca
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	3,478	30	32	518	48	15	5
2	.....enterprises 1940..	2,503	36	94	498	34	(*)	(*)
3	Intercounty enterprises.....enterprises 1950..	21	2	1	5			
4	Irrigated farms ².....farms 1950..	12,691	672	78	624	221	14	153
5	Average per enterprise.....farms 1950..	3.6	22.4	2.4	1.2	4.6	0.9	30.6
6	Farms irrigated direct per enterprise ³.....farms 1950..	5.5	31.7	2.7	1.4	4.6	0.9	30.8
7	Irrigated land ².....acres 1949..	691,476	14,651	1,463	100,797	27,364	2,056	4,691
8	.....acres 1939..	554,039	20,588	2,563	72,957	31,344	(*)	(*)
9	Average per irrigated farm.....acres 1949..	54.5	21.8	18.8	161.5	123.8	146.9	30.7
10	Average per enterprise.....acres 1949..	199	488	46	195	570	137	938
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	205	490	46	199	570	137	938
Type of enterprise, 1950:								
12	Single-farm.....enterprises..	2,858	27	24	506	41	15	3
13	.....acres irrigated..	327,725	348	629	90,495	3,783	2,056	100
Mutual:								
14	Unincorporated.....enterprises..	485	1	8	8	2		
15	.....acres irrigated..	105,874	(⁴)	834	588	(⁴)		
16	Incorporated.....enterprises..	80			3	5		
17	.....acres irrigated..	51,017			2,702	19,019		
18	Commercial.....enterprises..	1			1			
19	.....acres irrigated..	(⁴)			(⁴)			
20	District.....enterprises..	7	1					1
21	.....acres irrigated..	84,673	(⁴)					(⁴)
22	U. S. Bureau of Reclamation ⁵.....enterprises..	3						1
23	.....acres irrigated..	105,845						
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	42	1					
25	.....acres irrigated..	26,843	1,239					
26	State.....enterprises..							
27	.....acres irrigated..							
28	City.....enterprises..	2						
29	.....acres irrigated..	(⁴)						
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30	Gravity only.....enterprises reporting..	1,081	3	31	46	46	1	1
31	.....acres irrigated..	398,949	14,363	1,432	5,822	27,194	440	
32	Pumped only.....enterprises reporting..	74	2	1	25			1
33	.....acres irrigated..	12,141	53	31	2,666			4,591
34	Gravity and pumped.....enterprises reporting..	8			1			
35	.....acres irrigated..	2,965			76			
36	Ground water only (pumped from wells).....enterprises reporting..	2,190	25		406		14	3
37	.....acres irrigated..	261,867	295		70,578		1,616	100
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	125			40	2		
39	.....acres irrigated..	36,013			24,122	170		
Stored water:								
40	None stored.....enterprises reporting..	3,147	27	28	507	34	13	3
41	.....acres irrigated..	426,229	354	1,331	99,114	3,531	1,893	4,601
42	Part stored.....enterprises reporting..	211	3		8	6	1	
43	.....acres irrigated..	113,133	14,357		3,917	644	140	
44	All stored.....enterprises reporting..	120	4		3	8	1	2
45	.....acres irrigated..	172,573		132	233	23,189	23	10
Sources of surface water, 1949:⁶								
46	Streams (and lakes).....enterprises reporting..	1,104	4	28	73	33		2
47	.....acres irrigated..	435,158	14,368	1,362	25,017	27,027		4,591
48	Springs.....enterprises reporting..	148		4	4	16		
49	.....acres irrigated..	11,599		101	160	357		
50	Flowing wells.....enterprises reporting..	63			39			
51	.....acres irrigated..	19,120			17,645			
52	Drainage water.....enterprises reporting..	16	1		4	1		
53	.....acres irrigated..	11,997	48		10,878	150		
54	Sewage.....enterprises reporting..	5			1		1	
55	.....acres irrigated..	691			100		440	
56	Other sources.....enterprises reporting..							
57	.....acres irrigated..							
Drainage of irrigated land:⁷								
Irrigated land drained:								
58	Enterprises reporting.....enterprises 1949..	218	2		142	2	1	1
59	Area supplied primary irrigation.....acres 1949..	254,313	14,354		45,442	8,196	140	4,591
60	Area artificially drained.....acres 1949..	192,848	14,274		32,079	1,300	140	1,600
61	.....acres 1939..	210,042	20,190		20,585		(*)	(*)
Irrigated land in need of drainage:								
62	Enterprises reporting.....enterprises 1949..	144	2	1	29	2		1
63	Area supplied primary irrigation.....acres 1949..	241,401	14,354	3	6,784	8,196		4,591
64	Area in need of drainage.....acres 1949..	25,917	1,580	3	1,829	1,025		1,800
65	.....acres 1939..	8,732			311	(*)	(*)	(*)

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)		Dona Ana	Eddy	Grant	Guadalupe	Hidalgo	Lea	Lincoln	Luna
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	46	277	95	9	38	386	91	231
2	.....enterprises 1940..	10	241	120	9	21	42	131	167
3	Intercounty enterprises.....enterprises 1950..	2	4	.....	.....	1	.....	1	.....
4	Irrigated farms ².....farms 1950..	1,160	541	167	133	70	383	152	227
5	Average per enterprise.....farms 1950..	25.2	2.0	1.8	14.8	1.8	1.0	1.7	1.0
6	Farms irrigated direct per enterprise ³.....farms 1950..	26.2	2.2	2.4	17.2	2.0	1.0	2.1	1.0
7	Irrigated land ².....acres 1949..	83,446	72,230	7,027	2,109	11,343	61,931	5,224	22,965
8	.....acres 1939..	76,523	54,971	7,521	3,007	2,976	1,967	4,608	10,893
9	Average per irrigated farm.....acres 1949..	71.9	133.5	42.1	15.9	162.0	161.7	34.4	101.2
10	Average per enterprise.....acres 1949..	1,814	261	74	234	298	160	57	99
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	1,816	275	78	234	298	160	61	100
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	45	272	66	3	36	386	79	229
13	.....acres irrigated..	1,473	49,656	2,084	58	8,986	61,931	4,289	22,965
Mutual:									
14	Unincorporated.....enterprises..	.....	2	29	6	2	.....	11	2
15	.....acres irrigated..	.....	(4)	5,312	2,051	(4)	.....	1,132	(4)
Incorporated.....enterprises..									
16	.....acres irrigated..	.....	(4)	.....	.....	.....	.....	(4)	1
Commercial.....enterprises..									
18	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
District.....enterprises..									
20	.....acres irrigated..	.....	(4)	1	.....	.....	.....	.....	.....
U. S. Bureau of Reclamation ⁵.....enterprises..									
22	.....acres irrigated..	1	.....	.....	.....	.....	.....	.....	.....
U. S. Bureau of Indian Affairs ⁵.....enterprises..									
24	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
State.....enterprises..									
26	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
City.....enterprises..									
28	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	7	13	59	9	1	.....	58	3
31	.....acres irrigated..	82,204	26,478	6,249	2,109	50	.....	2,684	93
32	Pumped only.....enterprises reporting..	4	5	4	.....	.....	.....	2	1
33	.....acres irrigated..	73	3,599	33	.....	.....	.....	10	37
34	Gravity and pumped.....enterprises reporting..	.....	.....	.....	.....	.....	.....	1	.....
35	.....acres irrigated..	.....	.....	.....	.....	.....	.....	700	.....
Ground water only (pumped from wells).....enterprises reporting..									
36	.....acres irrigated..	34	244	20	.....	35	386	17	221
37	.....acres irrigated..	1,207	42,285	427	.....	8,936	61,931	430	22,456
Surface (gravity or pumped) and ground water...enterprises reporting..									
38	.....acres irrigated..	1	15	12	.....	2	.....	13	6
39	.....acres irrigated..	50	3,714	687	.....	2,357	.....	1,710	564
Stored water:									
40	None stored.....enterprises reporting..	42	168	92	8	20	382	90	188
41	.....acres irrigated..	1,348	25,692	6,842	1,754	7,034	60,468	5,489	17,058
42	Part stored.....enterprises reporting..	2	86	2	1	14	4	1	19
43	.....acres irrigated..	110	24,842	550	355	3,218	1,463	45	2,456
44	All stored.....enterprises reporting..	2	23	1	.....	4	.....	.....	24
45	.....acres irrigated..	82,076	25,542	4	.....	1,091	.....	.....	3,636
Sources of surface water, 1949: ⁶									
46	Streams (and lakes).....enterprises reporting..	12	24	69	9	2	.....	67	8
47	.....acres irrigated..	82,327	31,407	6,941	2,109	2,357	.....	5,039	646
Springs.....enterprises reporting..									
48	.....acres irrigated..	.....	7	3	.....	1	.....	8	1
49	.....acres irrigated..	.....	1,454	15	.....	80	.....	765	35
Flowing wells.....enterprises reporting..									
50	.....acres irrigated..	.....	3	1	.....	.....	.....	.....	1
51	.....acres irrigated..	.....	1,140	5	.....	.....	.....	.....	13
Drainage water.....enterprises reporting..									
52	.....acres irrigated..	.....	.....	2	.....	1	.....	2	.....
53	.....acres irrigated..	.....	.....	8	.....	50	.....	265	.....
Sewage.....enterprises reporting..									
54	.....acres irrigated..	.....	.....	1	.....	.....	.....	.....	.....
55	.....acres irrigated..	.....	.....	6	.....	.....	.....	.....	.....
Other sources.....enterprises reporting..									
56	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	6	15	.....	.....	.....	.....	1	1
59	Area supplied primary irrigation.....acres 1949..	82,177	27,793	.....	.....	.....	.....	20	93
60	Area artificially drained.....acres 1949..	82,177	12,672	.....	.....	.....	.....	6	93
61	.....acres 1939..	76,238	9,927	(*)	.....	.....	(*)	.....	.....
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	4	14	1	.....	.....	1	2	1
63	Area supplied primary irrigation.....acres 1949..	82,160	27,675	337	.....	.....	40	284	93
64	Area in need of drainage.....acres 1949..	202	3,577	35	.....	.....	10	27	93
65	.....acres 1939..	500	1,017	.....	(*)	.....	.....	(*)	.....

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)		McKinley	Mora	Otero	Quay ¹	Rio Arriba	Roosevelt	Sandoval	San Juan
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	9	78	144	47	208	585	38	76
2	.....acres irrigated..	4	57	62	12	187	309	45	60
3	Intercounty enterprises.....enterprises 1950..	1	2	1	1	4	.....	1	1
4	Irrigated farms ².....farms 1950..	25	397	214	217	1,472	624	533	1,198
5	Average per enterprise.....farms 1950..	2.8	5.1	1.5	4.6	7.1	1.1	14.0	15.8
6	Farms irrigated direct per enterprise ³.....farms 1950..	68.1	8.9	2.1	4.7	11.2	1.1	33.4	26.0
7	Irrigated land ².....acres 1949..	3,695	12,168	11,583	22,724	27,982	34,780	12,722	35,616
8	.....acres 1939..	4,005	21,260	4,618	243	35,581	10,872	18,630	34,759
9	Average per irrigated farm.....acres 1949..	147.8	30.6	54.1	104.7	19.0	55.7	23.9	29.7
10	Average per enterprise.....acres 1949..	411	156	80	483	134	59	335	469
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	411	184	85	483	144	60	359	490
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	1	24	133	46	41	585	9	25
13	.....acres irrigated..	(⁴)	3,023	8,295	2,075	2,649	34,878	134	1,489
Mutual:									
14	Unincorporated.....enterprises..	.....	35	8	.....	162	.....	20	30
15	.....acres irrigated..	.....	7,932	918	.....	26,066	.....	3,668	20,840
16	Incorporated.....enterprises..	.....	19	1	.....	2	.....	1	4
17	.....acres irrigated..	.....	3,429	(⁴)	.....	(⁴)	.....	(⁴)	2,446
Commercial.....enterprises.....									
18	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	1	.....	.....	.....	1	.....	1	1
21	.....acres irrigated..	(⁴)	.....	.....	.....	(⁴)	.....	(⁴)	(⁴)
22	U. S. Bureau of Reclamation ⁵.....enterprises..	.....	.....	.....	1	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	20,649	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	7	.....	1	.....	2	.....	7	16
25	.....acres irrigated..	3,082	.....	414	.....	1,035	.....	6,280	8,359
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	1	.....	.....	.....	.....	.....
29	.....acres irrigated..	.....	.....	(⁴)	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	8	76	109	2	203	.....	35	59
31	.....acres irrigated..	3,683	14,352	11,392	20,657	30,032	.....	12,449	36,489
32	Pumped only.....enterprises reporting..	.....	.....	5	.....	.....	1	.....	16
33	.....acres irrigated..	.....	.....	22	.....	.....	65	.....	727
34	Gravity and pumped.....enterprises reporting..	.....	.....	2	.....	.....	.....	1	.....
35	.....acres irrigated..	.....	.....	28	.....	.....	.....	1,209	.....
36	Ground water only (pumped from wells).....enterprises reporting..	1	2	16	44	3	584	2	1
37	.....acres irrigated..	12	32	354	2,064	12	34,813	2	1
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	.....	.....	12	1	2	.....	.....	.....
39	.....acres irrigated..	.....	.....	402	3	3	.....	.....	.....
Stored water:									
40	None stored.....enterprises reporting..	1	70	114	45	198	584	27	66
41	.....acres irrigated..	108	11,941	10,793	2,075	27,392	34,798	4,555	33,979
42	Part stored.....enterprises reporting..	2	2	14	.....	8	1	10	6
43	.....acres irrigated..	3,017	490	769	.....	2,200	80	8,804	2,696
44	All stored.....enterprises reporting..	6	6	16	2	2	.....	1	4
45	.....acres irrigated..	570	1,953	636	20,649	455	.....	301	542
Sources of surface water, 1949: ⁶									
46	Streams (and lakes).....enterprises reporting..	4	73	81	2	202	.....	33	73
47	.....acres irrigated..	3,630	14,177	10,940	20,657	29,835	.....	13,645	36,974
48	Springs.....enterprises reporting..	2	7	54	.....	6	.....	4	2
49	.....acres irrigated..	2,286	472	1,570	.....	946	.....	93	242
50	Flowing wells.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....	.....
51	.....acres irrigated..	34	.....	.....	.....	.....	.....	.....	.....
52	Drainage water.....enterprises reporting..	.....	.....	1	1	.....	.....	.....	1
53	.....acres irrigated..	.....	.....	15	3	.....	.....	.....	400
54	Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	1	.....	.....
55	.....acres irrigated..	.....	.....	.....	.....	.....	65	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	1	3	8	.....	5	.....	6	15
59	Area supplied primary irrigation.....acres 1949..	505	623	366	.....	1,238	.....	7,204	19,914
60	Area artificially drained.....acres 1949..	200	210	84	.....	135	.....	5,710	2,240
61	.....acres 1939..	.....	.....	17	.....	316	(⁴)	11,383	605
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	1	6	5	1	28	.....	2	23
63	Area supplied primary irrigation.....acres 1949..	505	520	793	20,649	7,360	.....	3,381	24,744
64	Area in need of drainage.....acres 1949..	130	126	139	50	1,137	.....	1,660	4,870
65	.....acres 1939..	.....	(⁴)	130	.....	577	.....	.....	3,172

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)		San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	87	88	75	6	95	72	42	26
2	.....enterprises 1940..	65	67	70	12	107	9	36	14
3	Intercounty enterprises.....enterprises 1950..	1	2	2	1	3	.....	1	3
4	Irrigated farms ².....farms 1950..	352	340	204	281	1,255	73	42	867
5	Average per enterprise.....farms 1950..	4.0	3.9	2.7	46.8	13.2	1.0	1.0	33.3
6	Farms irrigated direct per enterprise ³.....farms 1950..	5.8	9.5	3.3	61.8	19.7	1.0	1.1	67.8
7	Irrigated land ².....acres 1949..	10,626	6,177	5,192	13,347	28,055	10,519	7,458	31,535
8	.....acres 1939..	19,280	10,403	4,840	13,311	37,123	1,425	5,779	37,022
9	Average per irrigated farm.....acres 1949..	30.2	18.2	25.5	47.5	22.4	144.1	177.6	36.4
10	Average per enterprise.....acres 1949..	122	70	69	2,224	295	146	178	1,213
11	Average acreage irrigated direct per enterprise ³.....acres 1949..	128	76	73	2,224	322	146	180	1,276
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	31	25	69	4	12	72	42	13
13	.....acres irrigated..	1,441	1,639	1,163	7	492	10,519	7,553	3,407
Mutual:									
14	Unincorporated.....enterprises..	49	50	5	1	49	.....	.....	7
15	.....acres irrigated..	4,316	3,160	1,210	(⁴)	17,326	.....	.....	1,128
16	Incorporated.....enterprises..	6	7	.....	.....	32	.....	.....	.....
17	.....acres irrigated..	5,416	1,180	.....	.....	11,396	.....	.....	.....
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
19	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	.....	1	.....	1	.....	.....	.....	2
21	.....acres irrigated..	.....	(⁴)	.....	(⁴)	.....	.....	.....	(⁴)
22	U. S. Bureau of Reclamation ⁵.....enterprises..	1	.....	1	.....	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	3,135	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁵.....enterprises..	.....	4	.....	.....	2	.....	.....	4
25	.....acres irrigated..	.....	644	.....	.....	1,329	.....	.....	4,461
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	1	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	.....	(⁴)	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	79	68	29	6	93	.....	34	15
31	.....acres irrigated..	11,121	5,268	4,744	13,347	30,532	.....	6,837	28,928
32	Pumped only.....enterprises reporting..	1	.....	6	.....	.....	.....	.....	.....
33	.....acres irrigated..	1	.....	50	.....	.....	.....	175	.....
34	Gravity and pumped.....enterprises reporting..	.....	.....	1	.....	.....	.....	.....	1
35	.....acres irrigated..	.....	.....	6	.....	3	.....	.....	943
36	Ground water only (pumped from wells).....enterprises reporting..	5	17	28	.....	1	72	6	7
37	.....acres irrigated..	6	1,405	585	.....	8	10,519	141	1,652
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	2	3	11	.....	.....	.....	1	3
39	.....acres irrigated..	45	30	115	.....	.....	.....	400	1,641
Stored water:									
40	None stored.....enterprises reporting..	80	75	70	5	90	69	40	19
41	.....acres irrigated..	6,252	5,529	2,104	191	27,832	10,099	7,063	4,929
42	Part stored.....enterprises reporting..	.....	11	3	1	5	3	1	6
43	.....acres irrigated..	.....	1,139	93	13,156	2,711	420	260	25,201
44	All stored.....enterprises reporting..	7	2	2	.....	.....	.....	1	1
45	.....acres irrigated..	4,921	35	3,311	.....	.....	.....	230	3,034
Sources of surface water, 1949: ⁶									
46	Streams (and lakes).....enterprises reporting..	77	66	32	5	91	.....	33	16
47	.....acres irrigated..	11,076	4,958	4,420	13,346	30,385	.....	7,196	30,728
48	Springs.....enterprises reporting..	5	8	9	.....	3	.....	2	3
49	.....acres irrigated..	280	664	730	.....	150	.....	66	1,133
50	Flowing wells.....enterprises reporting..	2	.....	12	1	.....	.....	.....	1
51	.....acres irrigated..	32	.....	109	1	.....	.....	.....	141
52	Drainage water.....enterprises reporting..	.....	1	.....	.....	.....	.....	1	.....
53	.....acres irrigated..	.....	30	.....	.....	.....	.....	150	.....
54	Sewage.....enterprises reporting..	.....	1	.....	.....	.....	.....	.....	.....
55	.....acres irrigated..	.....	80	.....	.....	.....	.....	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	2	4	1	1	4	.....	.....	3
59	Area supplied primary irrigation.....acres 1949..	526	499	3,135	13,156	913	.....	.....	23,428
60	Area artificially drained.....acres 1949..	30	117	3,135	13,156	62	.....	.....	23,428
61	.....acres 1939..	.....	40	2,465	(*)	(*)	.....	(*)	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	3	6	.....	1	10	.....	.....	3
63	Area supplied primary irrigation.....acres 1949..	422	540	.....	13,156	2,404	.....	.....	22,410
64	Area in need of drainage.....acres 1949..	39	73	.....	4,000	377	.....	.....	3,135
65	.....acres 1939..	(*)	397	245	(*)	(*)	.....	.....	.....

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

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

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

Item (For definitions and explanations, see text)	The State	Bernalillo	Catron	Chaves	Colfax	Curry	De Baca
AIL ENTERPRISES							
Irrigation works:							
1 Diversion dams.....enterprises reporting 1950..	961	3	21	37	45		1
2	1,286	4	30	60	92		1
3	1,072	25	68	50	40	(*)	(*)
Diversion dams by material:							
4 Concrete or masonry.....dams 1950..	165	2		12	12		
5 Timber.....dams 1950..	121	1		4	9		
6 Earth and rock.....dams 1950..	537	1	20	15	68		
7 Other, mixed, and not reported.....dams 1950..	463		10	29	3		1
8 Reservoirs.....enterprises reporting 1950..	312	1	4	13	15	2	2
9	476	1	4	21	28	2	2
10	502	4	11	66	16	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	448	1	4	19	28	1	2
12	3,186,401	1	24	127	106,528	1	156,805
13	3,280,550	176	665	322	104,350	(*)	(*)
Reservoirs by capacity:							
14 1-99 acre-feet.....reservoirs 1950..	378	1	4	19	9	1	1
15 100-999 acre-feet.....reservoirs 1950..	43				9		
16 1,000 acre-feet and over.....reservoirs 1950..	27				10		1
Reservoir dams by material:							
17 Concrete or masonry.....dams 1950..	8				1	1	
18 Earth and rock.....dams 1950..	449		4	21	23	1	2
19 Other, mixed, and not reported.....dams 1950..	19	1			4		
20 Canals and ditches.....enterprises reporting 1950..	1,269	4	31	43	22	4	2
21	5,763	262	44	160	217	5	30
22	4,648	192	113	138	189	(*)	(*)
23 Pipelines and siphons ³.....enterprises reporting 1950..	92	1	1	6	3		2
24	168	5	(2)	14	6		38
25	36	1	1	4	1	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	12		1	2			
27	42,328		75	260			
28 Flowing wells.....enterprises reporting 1950..	65			40			
29	106			72			
30	268			120		(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	2,318	25		444	2	14	3
32	3,846	28		900	2	14	3
33	1,487	1	12	563		(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	3,538	10		794	1	11	3
35 Average pumping lift.....feet 1949..	70	43		61	20	162	47
36	46	(*)	42	38		(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	2,399	28	1	471	2	14	4
38	3,942	32	1	943	2	16	4
39	1,558	3	16	597	1	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	1,354	22		368		3	2
41	2,216	24		691		4	2
42 Other motors and engines used for pumping.....enterprises reporting 1950..	1,163	5	1	128	1	11	2
43	1,726	6	1	241	1	11	2
Season of irrigation, 1949:							
44 Water delivered only before July 1.....enterprises reporting..	117		2	14	1	2	
45	11,705		19	691	3	110	
46 Water delivered before and after July 1.....enterprises reporting..	3,095	27	25	472	37	8	4
47	673,014	14,663	1,377	99,970	26,795	1,451	4,681
48 Water delivered only after July 1.....enterprises reporting..	82	1		1	1		
49	8,729	48		200	100		
Capital investment:							
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	32,735,997	2,365,233	43,833	2,188,653	1,661,205	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51 Enterprises reporting.....enterprises 1950..	2,304	11	12	274	16	11	3
52 Amount.....dollars 1950..	28,401,912	22,260	20,700	2,160,347	104,824	117,095	372,486
53 Area irrigated direct.....acres 1949..	514,362	169	602	73,823	14,683	1,686	4,642
54 Total capital investment Jan. 1, 1950.....dollars 1950..	61,137,909	2,387,493	64,533	4,349,000	1,766,029	(*)	(*)
Indebtedness:⁴							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
55 Enterprises reporting.....enterprises 1950..	51	1		1	3		1
56 Amount.....dollars 1950..	19,979,735	1,974,960		14,000	115,100		158,896
57	16,715,813	2,204,791		3,550	218,187	(*)	(*)
58 Area irrigated direct.....acres 1949..	235,975	13,115		9,479	14,900		4,591
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
59 Enterprises reporting.....enterprises 1950..	27	1		1	1		
60 Amount.....dollars 1950..	2,825,348	330,434		8,000	10,000		
61 Area irrigated direct.....acres 1949..	78,861	13,115		9,479	6,400		

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Dona Ana	Eddy	Grant	Guadalupe	Hidalgo	Lea	Lincoln	Luna
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	6	19	66	6	4		63	6
2	dams 1950..	8	23	70	6	5		97	9
3	1940..	3	12	71	6	3		113	4
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	3	6		1			6	
5	Timber.....dams 1950..							30	
6	Earth and rock.....dams 1950..	5	11	59	3	4		33	5
7	Other, mixed, and not reported.....dams 1950..		6	11	2	1		28	4
8	Reservoirs.....enterprises reporting 1950..	3	110	4	1	18	5		47
9	reservoirs 1950..	4	181	4	1	25	7		69
10	1940..		135	28	1		1		135
11	Reservoirs for which capacity was reported.....reservoirs 1950..	4	179	3	1	20	5		63
12	total capacity, acre-feet 1950..	12	42,904	430	36	3,064	56		232
13	1940..		50,187	219	(*)		(*)		320
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	4	177	1	1	14	5		63
15	100-999 acre-feet.....reservoirs 1950..			2		6			
16	1,000 acre-feet and over.....reservoirs 1950..		2						
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..					1			
18	Earth and rock.....dams 1950..	4	180	4	1	24	7		62
19	Other, mixed, and not reported.....dams 1950..		1						7
20	Canals and ditches.....enterprises reporting 1950..	16	40	52	7	30	137	63	40
21	total length, miles 1950..	362	322	128	31	107	216	530	65
22	1940..	373	103	159	41	29	1	83	44
23	Pipelines and siphons ³.....enterprises reporting 1950..	(2)	2	4		4		4	1
24	total length, miles 1950..	(2)	52	(2)		2		2	1
25	1940..	(2)	2	2	(2)	(2)		2	
26	Tunnels.....enterprises reporting 1950..					1			
27	total length, feet 1950..					630			
28	Flowing wells.....enterprises reporting 1950..		3	1					2
29	wells 1950..		3	1					3
30	1940..		131	3					
31	Pumped wells.....enterprises reporting 1950..	35	261	32		36	386	34	227
32	wells 1950..	40	486	45		76	690	50	411
33	1940..		199	27		18	47	3	202
34	Wells for which pumping lift was reported.....wells 1949..	28	471	43		65	641	45	401
35	Average pumping lift.....feet 1949..	65	64	73		82	70	60	93
36	1939..		46	35		38	55	63	68
37	Irrigation pumps.....enterprises reporting 1950..	40	265	36		36	386	36	228
38	pumps 1950..	46	491	51		74	692	52	413
39	pumping plants 1940..	7	206	29		17	47	3	204
40	Electric motors used for pumping.....enterprises reporting 1950..	9	222	17		2	57	11	200
41	electric motors 1950..	9	424	24		2	80	18	360
42	Other motors and engines used for pumping.....enterprises reporting 1950..	32	65	20		33	350	24	37
43	other motors and engines 1950..	37	71	27		71	606	33	57
Season of Irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..		8				5		1
45	acres irrigated.....		601				901		80
46	Water delivered before and after July 1.....enterprises reporting..	27	262	87	6	33	353	89	212
47	acres irrigated.....	82,986	72,911	7,327	2,051	8,656	56,523	5,504	21,772
48	Water delivered only after July 1.....enterprises reporting..	2	5	4		1	11	1	7
49	acres irrigated.....	40	2,427	41		1,410	1,459	5	87
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	3,841,764	5,530,699	134,643	256,866	70,051	45,173	46,946	276,431
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	24	225	48	6	27	366	45	168
52	Amount.....dollars 1950..	77,495	2,053,800	109,526	10,760	452,023	2,362,868	129,288	1,571,694
53	Area irrigated direct.....acres 1949..	82,862	68,183	3,283	2,037	9,273	57,145	3,204	18,303
54	Total capital investment Jan. 1, 1950.....dollars 1950..	3,919,259	7,584,499	244,169	267,626	522,074	2,408,041	176,234	1,848,125
Indebtedness:⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	1	4	1	1	1			
56	Amount.....dollars 1950..	2,170,000	2,421,104	2,500	234	2,314			
57	1940..	2,513,259	3,390,482		90	532			
58	Area irrigated direct.....acres 1949..	82,061	26,348	45	620	464			
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..			1,000					
61	Area irrigated direct.....acres 1949..			45					

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)		McKinley	Mora	Otero	Quay ¹	Rio Arriba	Roosevelt	Sandoval	San Juan
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	3	70	69	1	184		27	50
2	dams 1950..	6	75	131	1	209		43	56
3	1940..	5	41	66		144		49	61
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	4	9	27		7		5	13
5	Timber.....dams 1950..	1	9	36		11		2	2
6	Earth and rock.....dams 1950..	1	43	58	1	32		27	13
7	Other, mixed, and not reported.....dams 1950..		14	10		159		9	28
8	Reservoirs.....enterprises reporting 1950..	8	6	29	2	3	1	5	7
9	reservoirs 1950..	13	8	48	2	5	1	6	8
10	1940..	13	5	4		5		5	8
11	Reservoirs for which capacity was reported.....reservoirs 1950..	13	8	40	2	5	1	5	8
12	total capacity, acre-feet 1950..	22,800	3,565	731	3	200,737	2	441	3,895
13	1940..	11,405	41	205		202,694		177	4,500
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	5	3	38	2	1	1	4	2
15	100-999 acre-feet.....reservoirs 1950..	4	5	2		2		1	5
16	1,000 acre-feet and over.....reservoirs 1950..	4				2			1
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	1		1					
18	Earth and rock.....dams 1950..	12	7	45	2	5	1	6	8
19	Other, mixed, and not reported.....dams 1950..		1	2					
20	Canals and ditches.....enterprises reporting 1950..	9	75	83	1	198	1	31	66
21	total length, miles 1950..	38	245	174	260	472	(2)	269	397
22	1940..	43	157	54		489	(2)	352	558
23	Pipelines and siphons ³.....enterprises reporting 1950..	1	1	13	1	3		4	23
24	total length, miles 1950..	(2)	(2)	16	3	3		1	8
25	1940..			4		1	(2)	6	4
26	Tunnels.....enterprises reporting 1950..				1			1	5
27	total length, feet 1950..				3,053			1,000	6,600
28	Flowing wells.....enterprises reporting 1950..	3							
29	wells 1950..	3							
30	1940..	7							
31	Pumped wells.....enterprises reporting 1950..	1	2	28	45	5	584	2	1
32	wells 1950..	1	2	32	60	5	785	2	1
33	1940..			4	12		332		1
34	Wells for which pumping lift was reported.....wells 1949..	1		29	59	4	755	2	1
35	Average pumping lift.....feet 1949..	85		108	66	15	68	40	50
36	1939..			112	74		46		(*)
37	Irrigation pumps.....enterprises reporting 1950..	1	2	34	45	5	585	2	17
38	pumps 1950..	1	2	38	55	6	772	2	20
39	pumping plants 1940..			4	12	1	330	1	1
40	Electric motors used for pumping.....enterprises reporting 1950..	1	2	8	5	2	393		2
41	electric motors 1950..	1	2	9	5	3	510		2
42	Other motors and engines used for pumping.....enterprises reporting 1950..			26	39	3	232	1	15
43	other motors and engines 1950..			28	48	3	277	1	17
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..		2	11	2	31	2	13	2
45	acres irrigated..		260	99	85	5,303	45	2,036	349
46	Water delivered before and after July 1.....enterprises reporting..	9	73	124	40	172	525	21	72
47	acres irrigated..	3,695	14,094	6,215	22,368	23,872	32,178	11,415	36,392
48	Water delivered only after July 1.....enterprises reporting..			1	3		37		
49	acres irrigated..			5	261		2,379		
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	912,424	114,617	442,922	14,694	681,604	363,060	1,941,964	2,564,775
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	8	24	66	43	102	510	9	61
52	Amount.....dollars 1950..	84,054	87,286	335,630	7,643,940	120,946	1,389,300	94,243	606,844
53	Area irrigated direct.....acres 1949..	3,685	5,052	3,995	22,633	19,772	31,649	4,134	35,011
54	Total capital investment Jan. 1, 1950.....dollars 1950..	996,478	201,903	778,552	7,658,634	802,550	1,752,360	2,036,207	3,171,619
Indebtedness:⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	5	1	2	1			2	25
56	Amount.....dollars 1950..	95,935	215	99,500	5,655,000			463,645	1,453,839
57	1940..	24,701	2,500	1,633		179,619		1,664,418	430,693
58	Area irrigated direct.....acres 1949..	805	80	2,571	20,649			3,933	18,039
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
59	Enterprises reporting.....enterprises 1950..	5						2	17
60	Amount.....dollars 1950..	95,935						82,639	1,433,129
61	Area irrigated direct.....acres 1950..	805						3,933	10,794

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	66	58	27	4	85	1	34	12
2 .....dams 1950..	68	67	31	5	99	8	59	23
3 .....dams 1940..	62	59	27	8	91	4	34	25
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	7	9	3	2	12		16	9
5 Timber.....dams 1950..	6				9			1
6 Earth and rock.....dams 1950..	16	8	23	3	45	8	27	8
7 Other, mixed, and not reported.....dams 1950..	39	50	5		33		16	5
8 Reservoirs.....enterprises reporting 1950..	5	4	5		5	3	2	6
9 .....reservoirs 1950..	6	4	8		5	3	3	7
10 .....reservoirs 1940..	4	12	22	2	7	4	6	6
11 Reservoirs for which capacity was reported.....reservoirs 1950..	6	4	8		5	3	3	7
12 total capacity, acre-feet 1950..	32,865	3,724	2,542,689		761	5	8,035	54,928
13 .....1940..	24,002	4,719	2,639,029	(*)	32,725	64	1,291	55,447
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	2	3	6		4	3	2	2
15 100-999 acre-feet.....reservoirs 1950..	2				1			4
16 1,000 acre-feet and over.....reservoirs 1950..	2	1	2				1	1
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..		1	1					1
18 Earth and rock.....dams 1950..	5	3	7		4	3	2	6
19 Other, mixed, and not reported.....dams 1950..	1				1		1	
20 Canals and ditches.....enterprises reporting 1950..	77	68	18	2	89	26	32	16
21 total length, miles 1950..	232	160	77	217	303	50	49	344
22 .....1940..	165	182	87	176	390	18	72	414
23 Pipelines and siphons ³.....enterprises reporting 1950..	3	3	6		1		1	
24 total length, miles 1950..	4	4	3		(²)		(²)	
25 .....1940..	(²)	3	4	1	(²)		(²)	1
26 Tunnels.....enterprises reporting 1950..	3							
27 total length, feet 1950..	30,710							
28 Flowing wells.....enterprises reporting 1950..	2		11	1				2
29 .....wells 1950..	2		18	1				3
30 .....1940..			7					
31 Pumped wells.....enterprises reporting 1950..	7	20	39		1	72	7	10
32 .....wells 1950..	7	22	50		2	104	7	21
33 .....1940..	1	4	47	2	2	6	2	
34 Wells for which pumping lift was reported.....wells 1949..	7	16	44		2	83	5	17
35 Average pumping lift.....feet 1949..	79	129	42		225	85	80	127
36 .....1939..	(*)	26	18	(*)	(*)	68	(*)	
37 Irrigation pumps.....enterprises reporting 1950..	8	20	46		2	72	8	11
38 .....pumps 1950..	8	23	60		3	104	9	22
39 .....pumping plants 1940..	1	4	59	2	2	5	3	
40 Electric motors used for pumping.....enterprises reporting 1950..	1	5	11		1	8		7
41 .....electric motors 1950..	1	5	15		1	10		14
42 Other motors and engines used for pumping.....enterprises reporting 1950..	6	16	37		1	65	8	6
43 .....other motors and engines 1950..	6	23	44		1	96	10	8
Season of Irrigation, 1949:								
44 Water delivered only before July 1.....enterprises reporting..	11				1		6	3
45 .....acres irrigated..	258				12		688	165
46 Water delivered before and after July 1.....enterprises reporting..	70	83	70	3	94	66	27	23
47 .....acres irrigated..	10,901	6,628	5,476	13,341	30,531	10,334	5,908	32,999
48 Water delivered only after July 1.....enterprises reporting..		1	1			4	1	
49 .....acres irrigated..		45	7			185	30	
Capital Investment:								
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,097,378	399,823	286,000	2,106,332	594,528	89,425	166,950	4,264,946
51 New capital investment Jan. 1, 1940, to Jan. 1, 1950:.....dollars 1950..	33	53	42	1	55	47	13	9
52 Enterprises reporting.....dollars 1950..	7,633,374	137,430	251,458	8,000	37,890	319,126	15,906	71,319
53 Area irrigated direct.....acres 1949..	3,631	5,277	4,431	184	21,415	5,774	1,824	6,001
54 Total capital investment Jan. 1, 1950.....dollars 1950..	8,730,752	537,253	537,458	2,114,332	632,418	408,551	182,856	4,336,265
Indebtedness: ⁴								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55 Enterprises reporting.....enterprises 1950..	1	1	1	1				1
56 Amount.....dollars 1950..	2,676	112,500	72,037	1,974,960				3,190,320
57 .....1940..		160,158	153,969	1,933,624	148,445			3,547,506
58 Area irrigated direct.....acres 1949	850		3,135	13,156				21,134
Arreage 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..				330,434				533,777
61 Area irrigated direct.....acres 1949..				13,156				21,134

*Not available.

¹For 1950, includes data for 2 enterprises in Harding County.

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.

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	Bernalillo	Catron	Chaves	Colfax	Curry	De Baca
ALL ENTERPRISES							
Cost of water to farms, 1949: ²							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	3,430	28	31	511	48	14	4
2 Cost.....dollars..	3,687,962	72,118	3,680	562,816	61,539	8,338	41,190
3 Area irrigated direct.....acres..	7,111,935	14,711	1,463	103,264	27,364	2,056	4,691
4 Cost per acre irrigated direct.....dollars..	5.18	4.90	2.52	6.42	2.25	4.06	8.78
5 Total cost per irrigated acre.....dollars..	5.33	4.92	2.52	6.58	2.25	4.06	8.78
6 Total cost per acre-foot of water ³.....dollars..	1.84	0.95	0.64	2.86	2.04	(⁴)	(⁴)
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	618	2	17	60	40	3	1
8 .....acres irrigated..	97,374	52	480	8,122	7,348	655	40
9 \$1.00-\$1.99.....enterprises reporting..	372	2	3	41	3	1	
10 .....acres irrigated..	77,490	126	121	7,235	4,509	385	
11 \$2.00-\$4.99.....enterprises reporting..	917	4	8	133	3	2	
12 .....acres irrigated..	249,156	14,366	760	36,420	14,900	205	
13 \$5.00-\$9.99.....enterprises reporting..	763	5	3	148		5	1
14 .....acres irrigated..	220,091	87	102	31,348		720	4,591
15 \$10.00 and over.....enterprises reporting..	760	15		129	2	3	2
16 .....acres irrigated..	67,824	80		20,139	607	91	60
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	3,299	23	31	500	48	14	4
18 Cost.....dollars..	3,603,459	70,261	3,680	652,398	61,539	8,338	41,190
19 Area supplied primary irrigation.....acres..	691,476	14,651	1,463	100,797	27,364	2,056	4,691
20 Cost per acre supplied.....dollars..	5.21	4.80	2.52	6.47	2.25	4.06	8.78
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	178	5		14			
22 Cost.....dollars..	84,503	1,857		10,418			
23 Area supplied supplemental irrigation.....acres..	20,459	60		2,467			
24 Cost per acre supplied.....dollars..	4.13	\$30.95		4.22			
Cost to farms for purposes other than operation and maintenance: ⁶							
25 Enterprises reporting.....enterprises..	54	1	1	1	3		1
26 Cost.....dollars..	398,164	29,900	250	19,936	15,477		16,379
27 Area irrigated direct.....acres..	214,301	13,115	52	9,479	14,900		4,591
28 Cost per acre irrigated.....dollars..	1.86	2.28	4.81	2.10	1.04		3.57
Arrearage in payments by farms, Jan. 1, 1950: ⁶							
29 Enterprises reporting.....enterprises..	41	1		1			
30 Amount.....dollars..	2,808,990	546,773		2,500			
31 Area irrigated direct.....acres..	117,967	13,115		9,479			
SINGLE-FARM ENTERPRISES, 1950							
32 Single-farm enterprises.....enterprises..	2,858	27	24	506	41	15	3
33 Area irrigated.....acres..	327,725	348	629	90,495	3,783	2,056	100
34 Complete-system enterprises ⁸.....enterprises..	2,774	24	23	492	41	14	3
35 Area irrigated.....acres..	323,762	343	629	89,839	3,783	2,056	100
Other farms irrigated:							
36 Enterprises reporting.....number..	185		3	57	1		
37 Number of other farms.....farms..	272		3	90	3		
38 Area irrigated in other farms.....acres..	10,208		17	3,996	72		
Enterprises by origin of water supply: ⁸							
39 No water from other enterprises.....enterprises reporting..	2,820	27	24	496	41	15	3
40 .....acres irrigated..	323,817	348	629	89,839	3,783	2,056	100
41 Part of water from other enterprises.....enterprises reporting..	12						
42 .....acres irrigated..	2,686						
43 All of water from other enterprises.....enterprises reporting..	26			10			
44 .....acres irrigated..	1,222			656			
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	2,689	20	23	490	41	14	3
46 .....acres irrigated..	319,642	288	629	88,995	3,783	2,056	100
47 Part primary, part supplemental.....enterprises reporting..	17			1			
48 .....acres irrigated..	585			5			
49 Primary irrigation.....acres irrigated..	700			75			
50 Supplemental irrigation.....acres irrigated..	110	5		11			
51 All supplemental.....enterprises reporting..	6,598	60		1,420			
Enterprises by number of acres irrigated: ⁸							
52 None.....enterprises reporting..	42	2	1	4		1	
53 1-9 acres.....enterprises reporting..	418	18	6	58	6	1	
54 10-29 acres.....enterprises reporting..	467	1	8	57	11	1	1
55 30-59 acres.....enterprises reporting..	469	5	7	73	3	3	2
60-99 acres.....enterprises reporting..	500	1	1	86	7	1	
100-199 acres.....enterprises reporting..	553		1	100	9	4	
200-499 acres.....enterprises reporting..	313			87	4	4	
500-999 acres.....enterprises reporting..	67			26	1		
1,000 acres or more.....enterprises reporting..	29			15			

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)	Dona Ana	Eddy	Grant	Guadalupe	Hidalgo	Lea	Lincoln	Luna
ALL ENTERPRISES								
Cost of water to farms, 1949:²								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	46	276	95	9	38	381	91	229
2 Cost.....dollars..	584,648	488,200	29,207	9,191	107,037	259,626	31,776	310,416
3 Area irrigated direct.....acres..	83,534	76,076	7,396	2,109	11,343	61,931	5,534	23,150
4 Cost per acre irrigated direct.....dollars..	7.00	6.42	3.95	4.36	9.44	4.19	5.74	13.41
5 Total cost per irrigated acre.....dollars..	7.01	6.76	4.16	4.36	9.44	4.19	6.08	13.52
6 Total cost per acre-foot of water ³.....dollars..	2.34	2.60	1.60	1.25	(⁴)	(⁴)	1.60	(⁴)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	5	14	31	4	5	30	26	12
8 .....acres irrigated..	97	4,932	1,098	542	902	7,526	715	1,315
9 \$1.00-\$1.99.....enterprises reporting..	6	19	6	.....	1	52	13	3
10 .....acres irrigated..	355	4,838	1,371	.....	320	11,185	1,615	122
11 \$2.00-\$4.99.....enterprises reporting..	8	73	25	4	2	145	24	8
12 .....acres irrigated..	226	20,739	3,712	1,285	512	24,121	2,345	693
13 \$5.00-\$9.99.....enterprises reporting..	13	84	13	.....	10	103	14	67
14 .....acres irrigated..	82,357	36,488	690	.....	3,867	15,533	455	7,927
15 \$10.00 and over.....enterprises reporting..	14	86	20	1	20	51	14	139
16 .....acres irrigated..	499	9,079	525	282	5,742	3,566	404	13,093
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	42	254	86	9	38	381	79	227
18 Cost.....dollars..	584,033	468,508	26,577	9,191	107,037	259,626	30,338	310,044
19 Area supplied primary irrigation.....acres..	83,446	72,230	7,027	2,109	11,343	61,931	5,224	22,965
20 Cost per acre supplied.....dollars..	7.00	6.49	3.78	4.36	9.44	4.19	5.81	13.50
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	4	28	9	.....	.....	.....	14	2
22 Cost.....dollars..	615	19,692	2,630	.....	.....	.....	1,438	372
23 Area supplied supplemental irrigation.....acres..	88	3,846	369	.....	.....	.....	310	185
24 Cost per acre supplied.....dollars..	6.99	5.12	7.13	.....	.....	.....	4.64	2.01
Cost to farms for purposes other than operation and maintenance:⁶								
25 Enterprises reporting.....enterprises..	1	4	1	2	.....	.....	.....	.....
26 Cost.....dollars..	120,573	62,361	1,060	375	.....	.....	.....	.....
27 Area irrigated direct.....acres..	82,061	26,354	111	902	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	1.47	2.37	9.55	0.42	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950:⁶								
29 Enterprises reporting.....enterprises..	.....	1	.....	1	1	.....	.....	.....
30 Amount.....dollars..	.....	16,902	.....	100	400	.....	.....	.....
31 Area irrigated direct.....acres..	.....	21,757	.....	620	1,893	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	45	272	66	3	36	386	79	229
33 Area irrigated.....acres..	1,473	49,656	2,084	58	8,986	61,931	4,289	22,965
34 Complete-system enterprises ⁸.....enterprises..	44	269	62	3	36	381	73	227
35 Area irrigated.....acres..	1,423	49,547	1,791	58	8,986	61,931	3,753	22,955
Other farms irrigated:								
36 Enterprises reporting.....number..	.....	32	1	.....	1	6	1	3
37 Number of other farms.....farms..	.....	41	1	.....	1	6	3	5
38 Area irrigated in other farms.....acres..	.....	1,830	8	.....	160	243	23	912
Enterprises by origin of water supply:⁸								
39 No water from other enterprises.....enterprises reporting..	44	270	63	3	36	386	74	229
40 .....acres irrigated..	1,423	49,547	1,801	58	8,986	61,931	3,768	22,965
41 Part of water from other enterprises.....enterprises reporting..	1	.....	1	.....	.....	.....	2	.....
42 .....acres irrigated..	50	.....	120	.....	.....	.....	469	.....
43 All of water from other enterprises.....enterprises reporting..	.....	2	2	.....	.....	.....	3	.....
44 .....acres irrigated..	.....	109	163	.....	.....	.....	52	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	41	244	61	3	36	381	66	227
46 .....acres irrigated..	1,385	46,636	2,012	58	8,986	61,931	3,949	22,965
47 Part primary, part supplemental.....enterprises reporting..	5	.....	.....	.....	.....	.....	1	.....
48 Primary irrigation.....acres irrigated..	.....	241	.....	.....	.....	.....	50	.....
49 Supplemental irrigation.....acres irrigated..	.....	417	.....	.....	.....	.....	65	.....
50 All supplemental.....enterprises reporting..	4	22	5	.....	.....	.....	12	.....
51 .....acres irrigated..	88	2,362	72	.....	.....	.....	225	.....
Enterprises by number of acres irrigated:⁸								
52 None.....enterprises reporting..	.....	1	.....	.....	.....	5	.....	2
53 1-9 acres.....enterprises reporting..	7	19	27	1	1	13	18	15
54 10-29 acres.....enterprises reporting..	20	27	20	1	2	18	39	21
55 30-59 acres.....enterprises reporting..	12	23	9	1	4	39	13	37
56 60-99 acres.....enterprises reporting..	1	51	4	.....	4	81	3	63
57 100-199 acres.....enterprises reporting..	4	74	5	.....	13	129	1	72
58 200-499 acres.....enterprises reporting..	1	55	1	.....	9	86	3	17
59 500-999 acres.....enterprises reporting..	.....	18	.....	.....	1	12	1	2
60 1,000 acres or more.....enterprises reporting..	.....	4	.....	.....	2	3	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)		McKinley	Mora	Otero	Quay ¹	Rio Arriba	Roosevelt	Sandoval	San Juan
ALL ENTERPRISES									
Cost of water to farms, 1949: ²									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	9	78	140	46	206	572	38	76
2	Cost.....dollars..	9,665	12,401	19,490	82,395	94,827	183,362	49,580	110,439
3	Area irrigated direct.....acres..	3,695	14,384	12,198	22,724	30,047	34,878	13,660	37,217
4	Cost per acre irrigated direct.....dollars..	2.62	0.86	1.60	3.63	3.16	5.26	3.63	2.97
5	Total cost per irrigated acre.....dollars..	2.62	1.02	1.68	3.63	3.39	5.27	3.90	3.10
6	Total cost per acre-foot of water ³.....dollars..	0.73	0.64	0.67	2.79	2.26	(⁴)	1.08	0.79
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	1	49	95	3	50	20	13	8
8	.....acres irrigated..	108	10,059	8,272	95	10,182	1,555	1,688	1,402
9	\$1.00-\$1.99.....enterprises reporting..	6	20	9	3	35	43	7	27
10	.....acres irrigated..	815	3,758	2,614	212	5,767	3,767	2,890	12,731
11	\$2.00-\$4.99.....enterprises reporting..	2	5	11	12	76	219	11	20
12	.....acres irrigated..	2,772	479	766	21,476	7,428	16,896	5,637	18,463
13	\$5.00-\$9.99.....enterprises reporting..	2	2	5	8	30	159	5	12
14	.....acres irrigated..	55	163	442	4,572	8,570	2,956	4,333	4,333
15	\$10.00 and over.....enterprises reporting..	2	20	20	15	131	131	2	9
16	.....acres irrigated..	33	383	499	2,098	4,090	489	288	288
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	9	73	124	46	195	572	34	68
18	Cost.....dollars..	9,665	10,666	18,706	82,395	90,275	182,481	46,953	101,579
19	Area supplied primary irrigation.....acres..	3,695	12,168	11,583	22,724	27,982	34,780	12,722	35,616
20	Cost per acre supplied.....dollars..	2.62	0.88	1.61	3.63	3.23	5.25	3.69	2.85
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	14	17	17	13	7	9	11	11
22	Cost.....dollars..	1,735	784	615	4,552	881	2,627	8,860	8,860
23	Area supplied supplemental irrigation.....acres..	2,216	615	615	2,065	98	938	1,601	1,601
24	Cost per acre supplied.....dollars..	0.78	1.27	1.27	2.20	8.99	2.80	5.53	5.53
Cost to farms for purposes other than operation and maintenance: ⁶									
25	Enterprises reporting.....enterprises..	1	1	1	9	2	2	18	18
26	Cost.....dollars..	44	887	12,313	3,090	7,050	24,146	14,476	14,476
27	Area irrigated direct.....acres..	80	2,172	3,090	3,990	3,599	14,476	1,96	1,96
28	Cost per acre irrigated.....dollars..	0.55	0.41	0.41	3.98	1.96	1.96	1.96	1.67
Arrearage in payments by farms, Jan. 1, 1950: ⁶									
29	Enterprises reporting.....enterprises..	2	1	1	3	3	27	27	27
30	Amount.....dollars..	12,945	100	100	126,654	653,723	653,723	23,815	23,815
31	Area irrigated direct.....acres..	760	49	49	4,511	23,815	23,815	23,815	23,815
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	1	24	133	46	41	585	9	25
33	Area irrigated.....acres..	(⁷)	3,023	8,295	2,075	2,649	34,878	134	1,489
34	Complete-system enterprises ⁸.....enterprises..	1	23	127	45	40	572	7	18
35	Area irrigated.....acres..	(⁷)	1,995	8,215	2,075	2,649	34,878	123	881
Other farms irrigated:									
36	Enterprises reporting.....number..	70	1	1	70	1	1	1	1
37	Number of other farms.....farms..	99	1	1	99	1	1	1	1
38	Area irrigated in other farms.....acres..	1,931	4	4	1,931	4	4	4	15
Enterprises by origin of water supply: ⁸									
39	No water from other enterprises.....enterprises reporting..	1	23	131	46	41	505	7	18
40	.....acres irrigated..	(⁷)	1,995	8,240	2,075	2,649	34,878	123	881
41	Part of water from other enterprises.....enterprises reporting..	1	1	2	1	1	1	1	1
42	.....acres irrigated..	1,028	55	55	1,028	55	55	55	400
43	All of water from other enterprises.....enterprises reporting..	2	2	2	2	2	2	2	6
44	.....acres irrigated..	11	11	11	11	11	11	11	208
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	1	22	114	45	37	565	4	16
46	.....acres irrigated..	(⁷)	2,758	7,980	2,075	2,641	34,507	92	1,185
47	Part primary, part supplemental.....enterprises reporting..	7	7	7	7	7	7	7	7
48	.....acres irrigated..	273	4	4	273	4	4	4	3
49	Supplemental irrigation.....acres irrigated..	98	7	7	98	7	7	7	35
50	All supplemental.....enterprises reporting..	2	16	16	2	2	2	2	8
51	.....acres irrigated..	265	315	315	265	315	315	315	266
Enterprises by number of acres irrigated: ⁸									
52	None.....enterprises reporting..	3	1	1	1	13	6	8	8
53	1-9 acres.....enterprises reporting..	6	45	11	11	63	2	5	5
54	10-29 acres.....enterprises reporting..	7	58	11	9	106	2	5	5
55	30-59 acres.....enterprises reporting..	2	20	7	9	163	4	4	4
56	60-99 acres.....enterprises reporting..	2	2	11	5	143	1	3	3
57	100-199 acres.....enterprises reporting..	1	3	2	4	84	3	3	3
58	200-499 acres.....enterprises reporting..	5	5	1	2	12	2	2	2
59	500-999 acres.....enterprises reporting..	1	1	1	1	1	1	1	1
60	1,000 acres or more.....enterprises reporting..	1	2	2	2	2	2	2	2

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)	San Miguel	Santa Fe	Sierra	Socorro	Taos	Torrance	Union	Valencia
ALL ENTERPRISES								
Cost of water to farms, 1949: ²								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	84	82	75	6	92	70	41	26
2 Cost.....dollars..	26,699	42,143	47,320	66,285	23,764	53,929	11,165	184,716
3 Area irrigated direct.....acres..	11,173	6,703	5,508	13,347	30,543	10,519	7,553	33,164
4 Cost per acre irrigated direct.....dollars..	2.39	6.29	8.59	4.97	0.78	5.13	1.48	5.57
5 Total cost per irrigated acre.....dollars..	2.51	6.82	9.11	4.97	0.85	5.13	1.50	5.86
6 Total cost per acre-foot of water ³.....dollars..	1.79	4.55	2.85	(⁴)	0.71	(⁴)	(⁴)	1.27
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	23	7	18	1	52	2	22	4
8 .....acres irrigated..	2,257	182	168	1	21,732	240	5,273	336
9 \$1.00-\$1.99.....enterprises reporting..	21	7	2	1	29	6	5	3
10 .....acres irrigated..	2,210	1,056	299	3	6,105	1,148	655	1,278
11 \$2.00-\$4.99.....enterprises reporting..	30	34	11	2	8	32	5	7
12 .....acres irrigated..	6,080	2,630	747	13,158	2,544	4,022	923	24,851
13 \$5.00-\$9.99.....enterprises reporting..	8	21	14	1	3	19	5	6
14 .....acres irrigated..	597	1,755	3,674	184	162	3,802	402	4,259
15 \$10.00 and over.....enterprises reporting..	2	13	30	1	.....	11	4	6
16 .....acres irrigated..	29	1,080	620	1	.....	1,307	300	2,440
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	78	75	71	6	89	70	40	24
18 Cost.....dollars..	25,074	39,875	44,370	66,285	22,763	53,929	10,765	164,918
19 Area supplied primary irrigation.....acres..	10,626	6,177	5,192	13,347	28,055	10,519	7,458	31,535
20 Cost per acre supplied.....dollars..	2.36	6.46	8.55	4.97	0.81	5.13	1.44	5.23
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	7	8	5	.....	9	.....	1	3
22 Cost.....dollars..	1,625	2,268	2,950	.....	1,001	.....	400	19,798
23 Area supplied supplemental irrigation.....acres..	547	526	316	.....	2,488	.....	95	1,629
24 Cost per acre supplied.....dollars..	2.97	4.31	9.34	.....	0.40	.....	4.21	12.15
Cost to farms for purposes other than operation and maintenance: ⁶								
25 Enterprises reporting.....enterprises..	1	8	1	1	.....	.....	.....	1
26 Cost.....dollars..	424	4,323	4,466	29,900	.....	.....	.....	48,300
27 Area irrigated direct.....acres..	850	1,044	3,135	13,156	.....	.....	.....	21,134
28 Cost per acre irrigated.....dollars..	0.50	4.14	1.42	2.27	.....	.....	.....	2.29
Arrearage in payments by farms, Jan. 1, 1950: ⁶								
29 Enterprises reporting.....enterprises..	2	.....	.....	1	1	.....	.....	2
30 Amount.....dollars..	2,671	.....	.....	546,773	60	.....	.....	899,389
31 Area irrigated direct.....acres..	4,269	.....	.....	13,156	375	.....	.....	24,168
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	31	25	69	4	12	72	42	13
33 Area irrigated.....acres..	1,441	1,639	1,163	7	492	10,519	7,553	3,407
34 Complete-system enterprises ⁸.....enterprises..	29	22	65	4	12	70	41	12
35 Area irrigated.....acres..	1,441	1,639	1,076	7	492	10,519	7,553	2,907
Other farms irrigated:								
36 Enterprises reporting.....number..	.....	2	1	.....	.....	3	2	.....
37 Number of other farms.....farms..	.....	7	3	.....	.....	4	4	.....
38 Area irrigated in other farms.....acres..	.....	225	31	.....	.....	211	530	.....
Enterprises by origin of water supply: ⁸								
39 No water from other enterprises.....enterprises reporting..	31	25	65	4	12	72	42	12
40 .....acres irrigated..	1,441	1,639	1,076	7	492	10,519	7,553	2,907
41 Part of water from other enterprises.....enterprises reporting..	.....	.....	3	.....	.....	.....	.....	1
42 .....acres irrigated..	.....	.....	64	.....	.....	.....	.....	500
43 All of water from other enterprises.....enterprises reporting..	.....	.....	1	.....	.....	.....	.....	.....
44 .....acres irrigated..	.....	.....	23	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	23	17	66	4	9	70	40	11
46 .....acres irrigated..	1,394	1,613	1,047	7	307	10,519	7,458	2,378
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	9	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	3	.....	.....	.....
50 All supplemental.....enterprises reporting..	6	5	3	.....	2	.....	1	2
51 .....acres irrigated..	47	26	116	.....	173	.....	95	1,029
Enterprises by number of acres irrigated: ⁸								
52 None.....enterprises reporting..	2	3	.....	.....	.....	2	1	.....
53 1-9 acres.....enterprises reporting..	16	7	37	4	7	4	2	1
54 10-29 acres.....enterprises reporting..	6	1	21	.....	1	5	6	2
55 30-59 acres.....enterprises reporting..	3	5	7	.....	2	10	5	1
56 60-99 acres.....enterprises reporting..	.....	3	2	.....	.....	18	7	2
57 100-199 acres.....enterprises reporting..	2	4	1	.....	1	21	11	1
58 200-499 acres.....enterprises reporting..	1	2	1	.....	1	11	6	3
59 500-999 acres.....enterprises reporting..	1	.....	.....	.....	.....	.....	3	2
60 1,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....	1	1	1

¹Includes data for 2 enterprises in Harding County.

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

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

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

⁵High cost due to unusual repair expense in 1949.

⁶Not reported by single-farm enterprises.

⁷Data for less than 3 enterprises not shown separately.

⁸For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.

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

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

Item (For definitions and explanations, see text)	The State	Bernalillo	Catron	Chaves	Colfax	Dona Ana ¹	Eddy
MULTIPLE-FARM ENTERPRISES, 1950							
1 Multiple-farm enterprises, total number ².....enterprises..	620	3	8	12	7	1	5
2 Area irrigated direct.....acres..	384,210	14,363	834	12,769	23,581	82,061	26,420
3 Multiple-purpose enterprises ².....enterprises..	61	2	1	1	1	1	1
4 Area irrigated direct.....acres..	173,662	13,124	155	148	.....	82,061	2,495
5 Complete-system enterprises ².....enterprises..	565	1	8	8	5	.....	4
6 Area irrigated direct.....acres..	190,124	9	834	12,690	15,986	.....	4,663
Enterprises by origin of water supply:²							
7 No water from other enterprises.....enterprises reporting..	588	2	8	12	6	1	4
8 Area irrigated.....acres irrigated..	344,641	13,124	834	12,769	19,281	82,061	4,663
9 Part of water from other enterprises.....enterprises reporting..	30	1	.....	.....	1	.....	1
10 Area irrigated.....acres irrigated..	34,236	1,239	.....	.....	4,300	.....	21,757
11 All water from other enterprises.....enterprises reporting..	22	.....	.....	.....	.....	.....	.....
12 Area irrigated.....acres irrigated..	5,333	.....	.....	.....	.....	.....	.....
Enterprises by delivery of irrigation water:²							
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	592	2	8	8	6	.....	4
15 Area irrigated.....acres irrigated..	228,411	1,248	834	12,690	20,286	.....	24,390
16 Water delivered to farms and to other enterprises.....enterprises reporting..	22	1	.....	1	1	1	1
17 Area irrigated.....acres irrigated..	155,799	13,115	.....	79	3,295	82,061	2,030
18 Water delivered to other enterprises only.....enterprises reporting..	6	.....	.....	3	.....	.....	.....
Enterprises by primary and supplemental irrigation:³							
19 All primary.....enterprises reporting..	563	3	8	7	7	1	4
20 Area irrigated.....acres irrigated..	329,804	14,363	834	10,306	23,581	82,061	4,663
21 Part primary, part supplemental.....enterprises reporting..	30	.....	.....	2	.....	.....	1
22 Area irrigated.....acres irrigated..	41,245	.....	.....	1,491	.....	.....	20,690
23 Supplemental irrigation.....acres irrigated..	9,722	.....	.....	972	.....	.....	1,067
24 All supplemental.....enterprises reporting..	21	.....	.....	.....	.....	.....	.....
25 Area irrigated.....acres irrigated..	3,439	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²							
26 None.....enterprises reporting..	6	.....	.....	3	.....	.....	.....
27 1-3.....enterprises reporting..	97	1	2	3	2	.....	1
28 4-9.....enterprises reporting..	175	.....	4	5	.....	.....	1
29 10-29.....enterprises reporting..	237	.....	2	.....	2	.....	1
30 30-99.....enterprises reporting..	89	.....	.....	1	3	.....	1
31 100-299.....enterprises reporting..	11	1	.....	.....	.....	.....	1
32 300-999.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....
33 1,000 or more.....enterprises reporting..	2	1	.....	.....	.....	1	.....
Enterprises by acres irrigated direct:²							
34 None.....enterprises reporting..	6	.....	.....	3	.....	.....	.....
35 1-99 acres.....enterprises reporting..	258	1	5	3	.....	.....	2
36 100-999 acres.....enterprises reporting..	311	.....	3	4	2	.....	.....
37 1,000-2,999 acres.....enterprises reporting..	28	.....	.....	1	.....	.....	2
38 3,000-9,999 acres.....enterprises reporting..	13	1	.....	1	5	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	2	.....	.....	.....	.....	.....	1
40 30,000 acres or more.....enterprises reporting..	2	1	.....	.....	.....	1	.....
Quantities of water reported, 1949:							
41 Total obtained from all sources.....enterprises reporting..	599	2	7	12	4	1	5
42 percent of all enterprises reporting..	17	7	22	2	8	2	2
43 Surface sources.....acre-feet..	2,177,754	375,075	4,857	37,125	25,215	923,660	108,260
44 Pumped wells.....acre-feet..	573	2	7	10	4	1	3
45 Other enterprises.....acre-feet..	2,032,115	375,075	4,857	17,712	25,215	923,660	33,013
46 Conveyance loss ⁴.....acre-feet..	6	.....	.....	3	.....	.....	2
47 Direct to farms.....acre-feet..	21,072	.....	.....	19,413	.....	.....	247
48 To other enterprises.....acre-feet..	26	.....	.....	.....	.....	.....	1
49 For use other than irrigation.....acre-feet..	124,567	.....	.....	.....	.....	.....	75,000
50 Delivered direct to farms for primary irrigation: ³	596	2	7	11	4	1	5
51 Quantity delivered.....acre-feet..	612,425	75,015	1,517	6,730	8,119	332,160	35,168
52 Area supplied primary irrigation.....acres..	.....	.....	.....	.....	.....	.....	.....
53 Quantity supplied per acre.....acre-feet..	.....	.....	.....	.....	.....	.....	.....
54 Delivered direct to farms for supplemental irrigation: ³	.....	.....	.....	.....	.....	.....	.....
55 Enterprises reporting.....enterprises..	593	2	7	9	4	1	5
56 Quantity delivered.....acre-feet..	1,230,618	260,030	3,140	29,415	17,096	464,200	65,215
57 Area supplied supplemental irrigation.....acres..	26	1	.....	4	.....	.....	1
58 Quantity supplied per acre.....acre-feet..	266,517	40,000	.....	980	.....	117,300	.....
59 Total quantity per irrigated acre ⁵.....acre-feet..	68,194	30	200	.....	.....	10,000	7,877
60 Cost of water to farms for enterprises reporting quantity delivered, 1949: ³	.....	.....	.....	.....	.....	.....	.....
61 Cost for primary irrigation.....dollars..	570	2	7	9	4	1	5
62 Average cost per acre-foot.....dollars..	965,011	67,630	3,140	27,561	17,096	250,000	62,547
63 Area supplied primary irrigation.....acres..	346,687	13,124	815	11,797	15,086	82,061	25,353
64 Quantity supplied per acre.....acre-feet..	2.8	5.2	3.9	2.3	1.1	3.0	2.5
65 Delivered direct to farms for supplemental irrigation: ³	.....	.....	.....	.....	.....	.....	.....
66 Enterprises reporting.....enterprises..	49	.....	.....	2	.....	.....	1
67 Quantity delivered.....acre-feet..	23,453	.....	.....	1,854	.....	.....	2,668
68 Area supplied supplemental irrigation.....acres..	12,816	.....	.....	972	.....	.....	1,067
69 Quantity supplied per acre.....acre-feet..	1.8	.....	.....	1.9	.....	.....	2.5
70 Total quantity per irrigated acre ⁵.....acre-feet..	2.9	5.2	3.9	2.3	1.1	3.0	2.6
71 Cost of water to farms for enterprises reporting quantity delivered, 1949: ³	.....	.....	.....	.....	.....	.....	.....
72 Cost for primary irrigation.....dollars..	1,545,622	65,027	3,146	40,291	40,279	572,000	161,070
73 Average cost per acre-foot.....dollars..	1.60	0.96	1.00	1.46	2.36	2.29	2.58
74 Cost for supplemental irrigation.....dollars..	34,077	.....	.....	401	.....	.....	7,615
75 Average cost per acre-foot.....dollars..	1.45	.....	.....	0.22	.....	.....	2.85
Measurement of water to farms, 1949:³							
76 No water measured.....enterprises reporting..	569	3	7	11	3	.....	4
77 Area irrigated.....acres irrigated..	200,456	14,363	815	3,290	5,386	.....	4,663
78 Part of water measured.....enterprises reporting..	6	.....	.....	.....	.....	1	.....
79 Area irrigated.....acres irrigated..	108,216	.....	.....	.....	.....	82,061	.....
80 All water measured.....enterprises reporting..	24	.....	.....	1	4	.....	1
81 Area irrigated.....acres irrigated..	70,250	.....	.....	9,479	18,195	.....	21,757

See footnotes at end of 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)		Grant	Guadalupe	Lincoln	McKinley	Mora	Otero	Quay ¹	Rio Arriba
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ².....enterprises..	29	6	12	8	54	11	1	167
2	Area irrigated direct.....acres..	5,312	2,051	1,245	3,587	11,361	3,903	20,649	27,398
3	Multiple-purpose enterprises ².....enterprises..	2	1	.....	1	.....	.....	.....	2
4	Area irrigated direct.....acres..	1,041	282	.....	505	.....	2,571	.....	369
5	Complete-system enterprises ².....enterprises..	27	6	11	8	53	8	1	159
6	Area irrigated direct.....acres..	5,266	2,051	1,178	3,587	11,308	3,090	20,649	25,198
Enterprises by origin of water supply: ²									
7	No water from other enterprises.....enterprises reporting..	29	6	12	8	54	11	1	160
8	acres irrigated.....	5,312	2,051	1,245	3,587	11,361	3,903	20,649	25,198
9	Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
10	acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	.....
11	All water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	7
12	acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	2,200
Enterprises by delivery of irrigation water: ²									
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	26	6	9	8	53	8	1	166
15	acres irrigated.....	4,929	2,051	757	3,587	11,308	3,090	20,649	27,398
16	Water delivered to farms and to other enterprises.....enterprises reporting..	3	.....	3	.....	1	2	.....	1
17	acres irrigated.....	383	.....	488	.....	53	813	.....	.....
18	Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....	.....	.....	1	.....	.....
Enterprises by primary and supplemental irrigation: ³									
19	All primary.....enterprises reporting..	25	6	11	8	42	9	1	156
20	acres irrigated.....	5,015	2,051	1,169	3,587	7,481	1,731	20,649	24,100
21	Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	9	1	.....	2
22	Primary irrigation.....acres irrigated.....	.....	.....	56	.....	1,929	1,872	.....	1,241
23	Supplemental irrigation.....acres irrigated.....	.....	.....	20	.....	651	300	.....	900
24	All supplemental.....enterprises reporting..	4	.....	.....	.....	3	.....	.....	8
25	acres irrigated.....	297	.....	.....	.....	1,300	.....	.....	1,157
Enterprises by number of farms irrigated direct: ²									
26	None.....enterprises reporting..	.....	.....	.....	.....	.....	1	.....	.....
27	1-3.....enterprises reporting..	11	.....	2	5	4	2	.....	32
28	4-9.....enterprises reporting..	15	.....	6	.....	12	3	.....	53
29	10-29.....enterprises reporting..	3	4	4	1	35	4	.....	57
30	30-99.....enterprises reporting..	.....	2	.....	.....	3	1	.....	24
31	100-299.....enterprises reporting..	.....	.....	.....	1	.....	.....	1	.....
32	300-999.....enterprises reporting..	.....	.....	.....	1	.....	.....	.....	.....
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1
Enterprises by acres irrigated direct: ²									
34	None.....enterprises reporting..	.....	.....	.....	.....	.....	1	.....	.....
35	1-99 acres.....enterprises reporting..	17	1	7	5	15	2	.....	88
36	100-999 acres.....enterprises reporting..	11	5	5	2	39	7	.....	76
37	1,000-2,999 acres.....enterprises reporting..	1	.....	.....	1	.....	1	.....	2
38	3,000-9,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
39	10,000-29,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	1	.....
40	30,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1
Quantities of water reported, 1949:									
41	Total obtained from all sources ⁴.....enterprises reporting..	27	5	12	7	54	10	1	167
42	percent of all enterprises reporting..	28	56	13	78	69	7	2	80
43	acres irrigated.....	17,255	7,332	5,897	5,533	26,714	7,210	78,802	428,418
44	Surface sources.....enterprises reporting..	27	5	12	7	54	10	1	160
45	acres irrigated.....	17,255	7,332	5,897	5,533	26,714	7,210	78,802	422,338
46	Pumped wells.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
47	acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	.....
48	Other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	7
49	acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	6,080
50	Conveyance loss ⁴.....enterprises reporting..	27	5	12	7	54	10	1	167
51	acres irrigated.....	3,138	1,866	1,069	773	8,747	848	26,954	88,503
Delivered: ⁴									
52	Direct to farms.....enterprises reporting..	27	5	12	7	54	9	1	167
53	acres irrigated.....	13,121	5,466	4,445	4,760	16,157	4,330	27,392	297,935
54	To other enterprises.....enterprises reporting..	2	.....	3	.....	1	3	.....	1
55	acres irrigated.....	996	.....	383	.....	1,810	732	.....	40,000
56	For use other than irrigation.....enterprises reporting..	.....	.....	.....	.....	.....	2	1	4
57	acres irrigated.....	.....	.....	.....	.....	.....	1,300	24,456	1,980
Delivered direct to farms for primary irrigation: ³									
58	Enterprises reporting.....enterprises..	24	5	12	7	51	9	1	158
59	Quantity delivered.....acres-foot..	12,445	5,466	4,371	4,760	12,963	4,330	27,392	35,643
60	Area supplied primary irrigation.....acres..	4,954	1,567	1,225	1,320	9,410	1,731	20,649	25,341
61	Quantity supplied per acre.....acre-foot..	2.5	3.5	3.6	3.6	1.4	2.5	1.3	1.4
Delivered direct to farms for supplemental irrigation: ³									
62	Enterprises reporting.....enterprises..	3	.....	1	.....	12	.....	.....	10
63	Quantity delivered.....acres-foot..	676	.....	74	.....	3,194	.....	.....	2,292
64	Area supplied supplemental irrigation.....acres..	252	.....	20	.....	1,951	.....	.....	2,057
65	Quantity supplied per acre.....acre-foot..	2.7	.....	3.7	.....	1.6	.....	.....	1.1
66	Total quantity per irrigated acre ³.....acre-foot..	2.6	3.5	3.8	3.6	1.6	2.5	1.3	1.5
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
67	Cost for primary irrigation.....dollars..	16,149	8,791	3,163	2,385	8,295	2,345	63,468	88,696
68	Average cost per acre-foot.....dollars..	1.30	1.61	0.72	0.50	0.64	0.54	2.32	2.49
69	Cost for supplemental irrigation.....dollars..	1,800	.....	95	.....	1,735	.....	.....	4,507
70	Average cost per acre-foot.....dollars..	2.66	.....	1.28	.....	0.54	.....	.....	1.97
Measurement of water to farms, 1949: ³									
71	No water measured.....enterprises reporting..	26	6	12	7	52	11	.....	165
72	acres irrigated.....	5,150	2,051	1,245	3,082	10,891	3,903	.....	26,576
73	Part of water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
74	acres irrigated.....	.....	.....	.....	.....	.....	.....	1	.....
75	All water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	20,649	.....
76	acres irrigated.....	.....	.....	.....	505	.....	.....	.....	.....

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)	Sandoval	San Juan	San Miguel	Santa Fe	Sierra	Taos	Valencia	All other counties
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ².....enterprises..	29	51	56	63	6	83	13	8
2 Area irrigated direct.....acres..	13,526	35,728	9,732	5,064	4,345	30,051	29,757	20,473
3 Multiple-purpose enterprises ³.....enterprises..	15	22	2	2	6	5	5	2
4 Area irrigated direct.....acres..	6,044	22,362	52	95	4,345	24,909	13,156	13,156
5 Complete-system enterprises ³.....enterprises..	23	42	52	52	5	81	11	5
6 Area irrigated direct.....acres..	5,822	24,088	5,282	4,020	1,210	29,411	6,649	7,133
Enterprises by origin of water supply:²								
7 No water from other enterprises.....enterprises reporting..	24	46	54	53	6	82	12	7
8 acres irrigated.....	9,120	34,054	9,441	4,020	4,345	29,551	27,783	20,289
9 Part of water from other enterprises.....enterprises reporting..	5	2	2	10	1	1	1	2
10 acres irrigated.....	4,406	560	10	10	1	1	1,974	1
11 All water from other enterprises.....enterprises reporting..	3	3	2	10	1	1	1	1
12 acres irrigated.....	1,114	1,114	291	1,044	500	500	500	184
Enterprises by delivery of irrigation water:²								
13 No water delivered.....enterprises reporting..	28	46	54	62	5	82	12	6
14 Water delivered direct to farms only.....enterprises reporting..	10,228	27,268	5,573	5,064	1,210	29,911	8,623	7,317
15 acres irrigated.....	1	5	2	1	1	1	1	1
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3,298	8,460	4,159	1	3,135	140	21,134	13,156
17 acres irrigated.....	1	1	1	1	1	1	1	1
18 Water delivered to other enterprises only.....enterprises reporting..	1	1	1	1	1	1	1	1
Enterprises by primary and supplemental irrigation:³								
19 All primary.....enterprises reporting..	25	49	54	57	4	74	12	5
20 acres irrigated.....	8,381	32,528	5,598	4,502	4,045	26,148	26,723	20,288
21 Part primary, part supplemental.....enterprises reporting..	4	2	1	1	1	5	1	1
22 Primary irrigation.....acres irrigated.....	4,245	1,900	3,634	62	100	1,591	2,434	1
23 Supplemental irrigation.....acres irrigated.....	900	1,300	500	200	100	2,212	600	1
24 All supplemental.....enterprises reporting..	2	2	2	2	1	1	1	2
25 acres irrigated.....	300	300	300	300	100	100	100	185
Enterprises by number of farms irrigated direct:²								
26 None.....enterprises reporting..	1	1	1	1	1	1	1	1
27 1-3.....enterprises reporting..	4	4	14	7	2	2	2	1
28 4-9.....enterprises reporting..	6	9	21	21	16	16	2	1
29 10-29.....enterprises reporting..	8	21	18	26	4	41	5	2
30 30-99.....enterprises reporting..	7	14	2	8	1	24	1	1
31 100-299.....enterprises reporting..	3	2	1	1	1	2	2	1
32 300-999.....enterprises reporting..	1	1	1	1	1	2	2	1
33 1,000 or more.....enterprises reporting..	1	1	1	1	1	1	1	1
Enterprises by acres irrigated direct:²								
34 None.....enterprises reporting..	10	6	35	40	18	2	2	1
35 1-99 acres.....enterprises reporting..	16	33	19	22	5	59	6	2
36 100-999 acres.....enterprises reporting..	2	9	1	1	6	2	2	2
37 1,000-2,999 acres.....enterprises reporting..	3	1	1	1	2	2	2	1
38 3,000-9,999 acres.....enterprises reporting..	1	1	1	1	1	1	1	1
39 10,000-29,999 acres.....enterprises reporting..	1	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 ⁴.....enterprises reporting..	24	50	56	63	6	79	10	8
42 percent of all enterprises reporting..	63	66	64	72	8	83	38	3
43 Surface sources.....acres irrigated.....	404,409	251,070	98,342	25,376	929,510	47,889	390,324	485,773
44 Surface sources.....acres irrigated.....	24	47	54	53	6	78	10	7
45 Pumped wells.....acres irrigated.....	401,734	214,315	97,881	22,235	929,510	47,042	390,324	483,028
46 Other enterprises.....acres irrigated.....	1	5	2	10	1	1	1	1
47 Conveyance loss ⁴.....acres irrigated.....	2,675	36,755	461	3,141	6	847	10	1,333
48 Delivered: ⁴	24	50	56	63	6	79	10	7
49 Direct to farms.....acres irrigated.....	282,310	161,429	39,597	8,259	466,950	31,670	271,945	289,908
50 To other enterprises.....acres irrigated.....	1	5	2	1	1	1	1	2
51 For use other than irrigation.....acres irrigated.....	40,000	20,512	461	7,495	117,300	847	40,000	115,000
52 Delivered direct to farms for primary irrigation: ³	3	12	1	15	3	1	1	1
53 Enterprises reporting.....	240	20,422	24,456	1,006	10,620	63	63	63
54 Quantity delivered.....acres irrigated.....	22	50	54	58	5	75	10	5
55 Area supplied primary irrigation.....acres..	29,978	129,299	10,590	6,298	12,700	28,029	120,425	92,348
56 Quantity supplied per acre.....acres-fee..	8,728	34,217	8,382	4,564	4,145	25,357	26,573	20,288
57 Delivered direct to farms for supplemental irrigation: ³	3.4	3.8	1.3	1.4	3.1	1.1	4.5	4.6
58 Enterprises reporting.....	4	2	1	3	2	6	1	2
59 Quantity delivered.....acres-fee..	2,932	4,604	490	811	250	2,228	720	660
60 Area supplied supplemental irrigation.....acres..	900	1,300	500	500	200	2,312	600	185
61 Quantity supplied per acre.....acres-fee..	3.3	3.5	1.0	1.6	1.2	1.0	1.2	3.6
62 Total quantity per irrigated acre ⁵.....acres-fee..	3.6	3.9	1.4	1.5	3.2	1.2	4.6	4.6
Cost of water to farms for enterprises reporting quantity delivered, 1949:³								
63 Cost for primary irrigation.....dollars..	26,194	96,994	22,127	24,267	28,417	19,288	132,924	120,306
64 Average cost per acre-foot.....dollars..	0.87	0.75	2.09	3.85	2.24	0.69	1.10	1.30
65 Cost for supplemental irrigation.....dollars..	2,577	5,825	1,575	2,268	500	963	3,844	372
66 Average cost per acre-foot.....dollars..	0.88	1.27	3.21	2.80	2.00	0.43	5.34	0.56
Measurement of water to farms, 1949:³								
67 No water measured.....enterprises reporting..	23	33	54	60	5	79	12	6
68 Part of water measured.....acres irrigated.....	11,207	21,168	5,598	4,849	1,210	28,277	26,723	20,009
69 All water measured.....enterprises reporting..	1	13	1	1	1	1	1	1
70 acres irrigated.....	301	12,381	4,134	186	3,135	1,135	3,024	464

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 COUNTIES IN WHICH ACREAGE WAS LOCATED: CENSUS OF 1950

[Symbols in parentheses refer to drainage basin symbols on map, "New Mexico: 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	Bernalillo	Catron	Chaves	Colfax	Curry	De Uccas
1	Irrigated land, 1949.....acres..	691,476	14,651	1,463	100,797	27,364	2,056	4,691
Area irrigated direct, by drainage basin origin of water, 1949: ²								
2	All basins.....acres..	763,847	27,826	1,463	103,264	27,364	2,056	4,691
3	Gulf of California (IV).....acres..	60,564		1,463				
4	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b).....acres..	3,327		46				
5	Gila River (Gila River direct) (IV-C-1d).....acres..	18,162		1,417				
6	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D).....acres..	39,075						
7	San Juan River direct (2a).....acres..	17,342						
8	La Plata River (2d).....acres..	3,829						
9	Animas River (2e).....acres..	16,938						
10	Los Pinos River (2f).....acres..	966						
11	Gulf of Mexico excluding Mississippi River (V).....acres..	631,407	27,826		103,264		2,056	4,691
12	Excluding Rio Grande (V-A).....acres..	98,865					2,056	
13	Colorado River (5b).....acres..	61,931						
14	Brazos River.....acres..	36,934						
15	Brazos River direct (6b).....acres..	36,681					2,056	
16	Salt Fork (6c).....acres..	253					1,803	
17	Rio Grande below Fort Quitman, Texas (Pecos River) ³ (V-B).....acres..	203,237			103,264		253	
18	Pecos River direct ³ (2b, 2c, and 2d).....acres..	197,072			103,264			4,691
19	Gallinas River (2g).....acres..	6,165						4,691
20	Rio Grande above Fort Quitman, Texas (V-C).....acres..	329,305	27,826					
21	Rio Grande direct (1a, 1b, and 1c).....acres..	167,136	14,711					
22	Mimbrea Valley (2).....acres..	25,144						
23	Tularosa and Estancia Valleys (3).....acres..	21,546						
24	Rio Puerco (4).....acres..	12,753						
25	Tesuque Creek (5).....acres..	3,052						
26	Santa Cruz River (6).....acres..	5,400						
27	Rio Chama (7).....acres..	71,712	13,115					
28	Embudo River (8).....acres..	7,635						
29	Rio Pueblo de Taos (9).....acres..	12,350						
30	Costilla Creek (10).....acres..	2,304						
31	San Antonio and Conejos Rivers (11).....acres..	293						
32	Mississippi River (Arkansas River) (VI-B).....acres..	71,876				27,364		
33	Canadian River.....acres..	66,496				27,364		
34	Canadian River direct (2a and 2b).....acres..	33,178				9,383		
35	Mora River.....acres..	15,337						
36	Mora River direct (2c).....acres..	12,882						
37	Sapello Creek (2d).....acres..	2,455						
38	Cimarron River (2e).....acres..	17,981				17,981		
39	Cimarron River (3).....acres..	5,380						

Item (For definitions and explanations, see text)		Dona Ana	Eddy	Grant	Guadalupe	Hidalgo	Lea	Lincoln	Luna
1	Irrigated land, 1949.....acres..	83,446	72,230	7,027	2,109	11,343	61,931	5,224	22,965
Area irrigated direct, by drainage basin origin of water, 1949: ²									
2	All basins.....acres..	83,534	76,076	7,396	2,109	11,343	61,931	5,534	23,150
3	Gulf of California (IV).....acres..			5,530		11,215			
4	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b).....acres..			5,530		11,215			
5	Gila River (Gila River direct) (IV-C-1d).....acres..								
6	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D).....acres..								
7	San Juan River direct (2a).....acres..								
8	La Plata River (2d).....acres..								
9	Animas River (2e).....acres..								
10	Los Pinos River (2f).....acres..								
11	Gulf of Mexico excluding Mississippi River (V).....acres..	83,534	76,076	1,866	2,109	128	61,931	5,534	23,150
12	Excluding Rio Grande (V-A).....acres..						61,931		
13	Colorado River (5b).....acres..						61,931		
14	Brazos River.....acres..								
15	Brazos River direct (6b).....acres..								
16	Salt Fork (6c).....acres..								
17	Rio Grande below Fort Quitman, Texas (Pecos River) ³ (V-B).....acres..		76,076		2,109			5,534	
18	Pecos River direct ³ (2b, 2c, and 2d).....acres..		76,076		2,109			5,534	
19	Gallinas River (2g).....acres..								
20	Rio Grande above Fort Quitman, Texas (V-C).....acres..	83,534		1,866		128			23,150
21	Rio Grande direct (1a, 1b, and 1c).....acres..	83,534							
22	Mimbres Valley (2).....acres..			1,866		128			23,150
23	Tularosa and Estancia Valleys (3).....acres..								
24	Rio Puerco (4).....acres..								
25	Tesuque Creek (5).....acres..								
26	Santa Cruz River (6).....acres..								
27	Rio Chama (7).....acres..								
28	Embudo River (8).....acres..								
29	Rio Pueblo de Taos (9).....acres..								
30	Costilla Creek (10).....acres..								
31	San Antonio and Conejos Rivers (11).....acres..								
32	Mississippi River (Arkansas River) (VI-B).....acres..								
33	Canadian River.....acres..								
34	Canadian River direct (2a and 2b).....acres..								
35	Mora River.....acres..								
36	Mora River direct (2c).....acres..								
37	Sapello Creek (2d).....acres..								
38	Cimarron River (2e).....acres..								
39	Cimarron River (3).....acres..								

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, "New Mexico: 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)		McKinley	Mora	Otero	Quay ¹	Rio Arriba	Roosevelt	Sandoval	San Juan
1	Irrigated land, 1949.....acres..	3,695	12,168	11,583	22,724	27,982	34,780	12,722	35,616
	Area irrigated direct, by drainage basin origin of water, 1949: ²								
2	All basins.....acres..	3,695	14,384	12,198	22,724	30,888	34,878	16,958	37,217
3	Gulf of California (IV).....acres..	3,695				954			37,217
4	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b).....acres..	2,791							
5	Gila River (Gila River direct) (IV-C-1d).....acres..								
6	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D).....acres..	904				954			37,217
7	San Juan River direct (2a).....acres..	904				954			15,484
8	La Plata River (2d).....acres..								3,829
9	Animas River (2e).....acres..								16,938
10	Los Pinos River (2f).....acres..								966
11	Gulf of Mexico excluding Mississippi River (V).....acres..		930	12,198	2,061	29,934	34,878	16,958	
12	Excluding Rio Grande.....acres..						34,878		
13	Colorado River (5b).....acres..								
14	Brazos River.....acres..						34,878		
15	Brazos River direct (6b).....acres..						34,878		
16	Salt Fork (6c).....acres..								
17	Rio Grande below Fort Quitman, Texas (Pecos River) ³ (V-R).....acres..			1,164	2,061				
18	Pecos River direct ³ (2b, 2c, and 2d).....acres..			1,164	2,061				
19	Gallinas River (2g).....acres..								
20	Rio Grande above Fort Quitman, Texas (V-C).....acres..		930	11,034		29,934		16,958	
21	Rio Grande direct (1a, 1b, and 1c).....acres..					3,891		10,473	
22	Mimbres Valley (2).....acres..								
23	Tularosa and Estancia Valleys (3).....acres..			11,034					
24	Rio Puerco (4).....acres..							3,187	
25	Tesuque Creek (5).....acres..								
26	Santa Cruz River (6).....acres..					3,706			
27	Rio Chama (7).....acres..					21,009		3,298	
28	Embudo River (8).....acres..					1,035			
29	Rio Pueblo de Taos (9).....acres..			930					
30	Costilla Creek (10).....acres..								
31	San Antonio and Conejos Rivers (11).....acres..					293			
32	Mississippi River (Arkansas River) (VI-R).....acres..		13,454		20,663				
33	Canadian River.....acres..		13,454		20,663				
34	Canadian River direct (2a and 2b).....acres..				278				
35	Mora River.....acres..		13,176						
36	Mora River direct (2c).....acres..		12,882						
37	Sapello Creek (2d).....acres..		294						
38	Cimarron River (2e).....acres..								
39	Cimarron River (3).....acres..								

Item (For definitions and explanations, see text)		San Miguel	Santa Fe	Sierra	Secorro	Taos	Torrance	Union	Valencia
1	Irrigated land, 1949.....acres..	10,626	6,177	5,192	13,347	28,055	10,519	7,458	31,535
	Area irrigated direct, by drainage basin origin of water, 1949: ²								
2	All basins.....acres..	11,173	7,071	5,508	26,503	30,543	10,519	7,553	54,298
3	Gulf of California (IV).....acres..								490
4	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b).....acres..								490
5	Gila River (Gila River direct) (IV-C-1d).....acres..								
6	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D).....acres..								
7	San Juan River direct (2a).....acres..								
8	La Plata River (2d).....acres..								
9	Animas River (2e).....acres..								
10	Los Pinos River (2f).....acres..								
11	Gulf of Mexico excluding Mississippi River (V).....acres..	8,331	7,071	5,508	26,503	30,543	10,519		53,808
12	Excluding Rio Grande.....acres..								
13	Colorado River (5b).....acres..								
14	Brazos River.....acres..								
15	Brazos River direct.....acres..								
16	Salt Fork (6c).....acres..								
17	Rio Grande below Fort Quitman, Texas (Pecos River) ³ (V-R).....acres..	8,331					7		
18	Pecos River direct ³ (2b, 2c, and 2d).....acres..	2,166					7		
19	Gallinas River (2g).....acres..	6,165							
20	Rio Grande above Fort Quitman, Texas (V-C).....acres..		7,071	5,508	26,503	30,543	10,512		53,808
21	Rio Grande direct (1a, 1b, and 1c).....acres..		2,325	5,508	13,347	10,239			23,108
22	Mimbres Valley (2).....acres..								
23	Tularosa and Estancia Valleys (3).....acres..						10,512		
24	Rio Puerco (4).....acres..								9,566
25	Tesuque Creek (5).....acres..		3,052						
26	Santa Cruz River (6).....acres..		1,694						
27	Rio Chama (7).....acres..				13,156				21,134
28	Embudo River (8).....acres..					5,670			
29	Rio Pueblo de Taos (9).....acres..					12,330			
30	Costilla Creek (10).....acres..					2,304			
31	San Antonio and Conejos Rivers (11).....acres..								
32	Mississippi River (Arkansas River) (VI-R).....acres..	2,842						7,553	
33	Canadian River.....acres..	2,842						2,173	
34	Canadian River direct (2a and 2b).....acres..	681						2,173	
35	Mora River.....acres..	2,161							
36	Mora River direct (2c).....acres..								
37	Sapello Creek (2d).....acres..	2,161							
38	Cimarron River (2e).....acres..								
39	Cimarron River (3).....acres..							5,380	

¹For 1950, includes data for 2 enterprises in Harding County.

²Acreage 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.

³Includes data for less than 3 enterprises in Sacramento River Basin (V-B-1c).

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Gulf of California	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b)	Gila River (Gila River direct) (IV-C-1d)	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)				
					Total	San Juan River direct (2a)	La Plata River (2d)	Aninas River (2e)	Los Pinos River (2f)
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	3,478	211	5	118	88	56	10	18	4
2 1940..	2,503	257	19	174	64	22	15	20	7
3 Interbasin.....enterprises 1950..	8	1		1					
4 Farms irrigated direct per enterprise ².....farms 1950..	5.5	14.2	122.4	2.4	23.9	26.9	6.1	29.2	3.8
5 Irrigated land ³.....acres 1949..	691,476	58,815	3,327	18,014	37,474	21,584	3,829	11,095	966
6 1939..	554,039	50,333	3,454	10,701	36,178	18,097	4,007	13,925	149
7 Average per enterprise.....acres 1949..	199	279	665	153	426	385	383	616	242
8 Average acreage irrigated direct per enterprise ².....acres 1949..	205	287	665	154	444	389	383	694	242
Type of enterprise, 1950:									
9 Single-farm.....enterprises..	2,858	123	2	92	29	23	1	3	2
10 acres irrigated..	327,725	12,535	(⁴)	10,812	1,677	1,166	(⁴)	95	(⁴)
Mutual:									
11 Unincorporated.....enterprises..	485	58		26	32	8	9	14	1
12 acres irrigated..	105,874	28,649		7,350	21,299	5,677	3,819	11,620	(⁴)
13 Incorporated.....enterprises..	80	4			4	2		1	1
14 acres irrigated..	51,017	2,446			2,446	(⁴)		(⁴)	(⁴)
15 Commercial.....enterprises..	1								
16 acres irrigated..	(⁴)								
17 District.....enterprises..	7	2	1		1	1			
18 acres irrigated..	84,673	(⁴)	(⁴)		(⁴)	(⁴)			
19 U. S. Bureau of Reclamation ⁵.....enterprises..	3								
20 acres irrigated..	105,845								
21 U. S. Bureau of Indian Affairs ⁵.....enterprises..	42	24	2		22	22			
22 acres irrigated..	26,843	12,346	2,776		9,570	9,570			
23 State.....enterprises..									
24 acres irrigated..									
25 City.....enterprises..	2								
26 acres irrigated..	(⁴)								
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
27 Gravity only.....enterprises reporting..	1,081	131	5	57	69	40	10	15	4
28 acres irrigated..	398,949	47,874	3,327	6,212	38,335	21,145	3,829	12,395	966
29 Pumped only.....enterprises reporting..	74	20		4	16	14		2	
30 acres irrigated..	12,141	787		60	727	633		94	
31 Gravity and pumped.....enterprises reporting..	8								
32 acres irrigated..	2,965								
33 Ground water only (pumped from wells).....enterprises reporting..	2,190	48		45	3	2		1	
34 acres irrigated..	261,867	8,988		8,975	13	12		1	
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	125	12							
36 acres irrigated..	36,013	2,915		2,915					
Stored water:									
37 None stored.....enterprises reporting..	3,147	168	2	95	71	43	9	18	1
38 acres irrigated..	426,229	48,103	46	13,471	34,586	18,643	3,447	12,490	6
39 Part stored.....enterprises reporting..	211	23	1	15	7	3	1		3
40 acres irrigated..	113,133	9,671	2,757	3,468	3,446	2,104	382		960
41 All stored.....enterprises reporting..	120	20	2	8	10	10			
42 acres irrigated..	172,573	2,790	524	1,223	1,043	1,043			
Sources of surface water, 1949:⁶									
43 Streams (and lakes).....enterprises reporting..	1,104	149	3	66	80	49	10	17	4
44 acres irrigated..	435,158	51,114	3,263	9,065	38,786	21,502	3,829	12,489	966
45 Springs.....enterprises reporting..	148	12	3	6	3	3			
46 acres irrigated..	11,599	3,625	2,821	147	657	657			
47 Flowing wells.....enterprises reporting..	63	4		1	3	3			
48 acres irrigated..	19,120	39		5	34	34			
49 Drainage water.....enterprises reporting..	16	2		1	1				1
50 acres irrigated..	11,997	450		50	400				400
51 Sewage.....enterprises reporting..	5								
52 acres irrigated..	691								
53 Other sources.....enterprises reporting..									
54 acres irrigated..									
Drainage of irrigated land:⁷									
Irrigated land drained:									
55 Enterprises reporting.....enterprises 1949..	218	16	1		15	6	2	6	1
56 Area supplied primary irrigation.....acres 1949..	254,313	20,419	505		19,914	13,279	1,010	5,442	183
57 Area artificially drained.....acres 1949..	192,848	2,440	200		2,240	1,250	60	920	10
58 acres 1939..	210,042	605			605	265	([*])	([*])	
Irrigated land in need of drainage:									
59 Enterprises reporting.....enterprises 1949..	144	27	1	2	24	9	4	9	2
60 Area supplied primary irrigation.....acres 1949..	241,401	25,938	505	340	25,113	14,942	1,746	7,842	583
61 Area in need of drainage.....acres 1949..	25,917	5,138	130	38	4,970	2,130	280	2,470	90
62 acres 1939..	8,732	3,172			3,172	2,472		([*])	

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]

Gulf of Mexico excluding Mississippi River	Excluding Rio Grande (V-A)					Rio Grande below Fort Quitman, Texas (Pecos River) (V-B)						Rio Grande above Fort Quitman, Texas (V-C)					
	Total	Colorado River (5b)	Brazos River			Total	Pecos River direct				Gallinas River (2R)	Total	Rio Grande direct				
			Total	Brazos River direct (6b)	Salt Fork (6c)		Total	Below Acme ¹ (1c and 2b)	Acme to Alamo-gordo Dam (2c)	Above Alamo-gordo Dam (2d)			Total	Below San Marcial (1*)	San Marcial to Otowi Bridge (1b)	Above Otowi Bridge (1c)	
3,059	986	386	600	595	5	1,021	1,005	905	60	41	16	1,052	246	123	74	49	1
2,102	350	42	308	308		970	(*)	(*)	(*)	(*)	11	(*)	(*)	(*)	(*)	(*)	2
6						1	1	1	1			5	3		1	2	3
4.8	1.1	1.0	1.1	1.1	0.8	2.2	2.1	1.7	3.5	9.6	8.8	10.8	24.6	11.8	4.8	24.7	4
562,207	98,767	61,931	36,836	36,583	253	196,108	190,443	169,283	16,891	4,269	5,665	267,332	166,780	88,645	63,096	15,129	5
439,602	12,798	1,967	10,831	10,831		155,262	147,470	130,638	6,960	9,872	7,792	271,542	178,236	80,617	76,010	21,609	6
184	100	160	61	61	51	192	189	187	282	104	354	274	678	721	851	399	7
189	100	160	62	62	51	199	196	194	282	104	385	263	687	724	859	336	8
2,609	986	386	600	595	5	950	944	875	59	11	6	673	174	117	51	6	9
299,524	98,865	61,931	36,934	36,681	253	147,564	147,538	135,058	12,300	180	26	53,095	4,689	2,643	1,985	61	10
369						55	49	21		28	6	314	53	5	13	35	11
63,222						8,674	7,792	3,816		3,976	882	54,548	14,405	1,210	1,327	11,868	12
53						11	7	6		1	4	11	42			5	13
26,083						10,758	5,501	5,382		(*)	5,257	15,325	3,557			35,557	14
(*)						1	1	1									15
(*)						(*)	(*)	(*)									16
5						2	2	1				3	1		1		17
80,085						(*)	(*)	(*)	(*)			53,737	(*)		(*)		18
2						1	1					1	1				19
85,196						1	1	1				85,196	85,196	85,196			20
18						1	1	1				17	11		8	3	21
14,497						414	414	414				14,083	10,481		9,493	988	22
																	23
																	24
2												2	1		1		25
(*)												(*)	(*)		(*)		26
758	1		1	1		200	189	147	2	40	11	557	113	39	26	48	27
279,207	440		440	440		46,315	40,156	35,903	18	4,235	6,159	232,452	164,023	86,955	60,596	16,472	28
52	1		1	1		32	32	31				19	12	10	2		29
11,178	65		65	65		10,866	10,866	6,275	4,591			247	184	131	53		30
8						2	2	2				6	2	1	1		31
2,965						776	776	776				2,189	1,215	6	1,209		32
2,132	984	386	598	593	5	717	712	657	56		5	431	103	61	42		33
252,692	98,360	61,931	36,429	36,176	253	115,626	115,620	103,341	12,279		6	38,706	3,492	1,792	1,700		34
109						70	70	68			1	39	16	12	3	1	35
32,523						29,654	29,654	29,611	3	40		2,869	197	165	30	2	36
798	979	382	597	593	4	889	875	781	58	37	14	930	220	115	61	44	37
353,179	97,159	60,468	36,691	36,461	230	143,387	141,632	120,901	16,881	3,850	1,755	112,630	21,565	3,459	4,417	13,689	38
179	6	4	2	2		97	97	96		1		76	21	5	11	5	39
102,068	1,683	1,463	220	220		29,574	29,574	29,219		355		70,811	61,823	203	58,835	2,785	40
82	1		1	1		35	33	28	2	3	2	46	3	3	2		41
123,321	23		23	23		30,276	25,866	25,786	10	70	4,410	93,022	85,723	85,387	336		42
778						238	227	189	2	36	11	540	118	46	24	48	43
312,153						77,380	71,221	62,438	4,599	4,184	6,159	234,773	164,626	86,753	61,488	16,385	44
109						28	28	24	1	3		81	16	9	6	1	45
6,858						2,871	2,871	2,802	10	59		3,987	1,156	730	337	89	46
59						44	44	42		2		15	13	13			47
19,081						18,817	18,817	18,785		32		264	110	110			48
12						7	7	6	1			5	2		2		49
11,247						11,146	11,146	11,143	3			101	78		78		50
5	2		2	2		1	1	1				2	1		1		51
691	505		505	505		100	100	100				86	80		80		52
																	53
																	54
195	1		1	1		159	159	158	1			35	17	6	7	4	55
224,549	140		140	140		77,855	77,855	73,264	4,591			146,554	144,482	85,312	57,822	1,348	56
188,868	140		140	140		46,366	46,366	44,766	1,600			142,362	141,677	85,312	56,248	117	57
209,417	(*)	(*)	(*)	(*)		34,132	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)	58
107	1	1				50	50	47	1	2		56	17	4	3	10	59
185,777	40	40				39,934	39,934	35,222	4,591	121		145,803	136,931	82,160	52,025	2,746	60
19,543	10	10				7,367	7,367	5,563	1,800	4		12,166	10,997	202	10,240	555	61
4,420						1,546	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)	62

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Rio Grande above Fort Quitman, Texas (V-C)									
		Mimbres Valley	Tularosa and Estancia Valleys	Rio Puerco	Tesuque Creek	Santa Cruz River	Rio Chama	Embudo River	Rio Pueblo de Taos	Costilla Creek	San Antonio and Conchos Rivers
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ALL ENTERPRISES											
Farms and land irrigated:											
1	All irrigation enterprises.....enterprises 1950..	276	181	43	32	39	145	49	30	9	5
2	1940..	208	(*)	23	34	19	(*)	(*)	29	15	10
3	Interbasin.....enterprises 1950..					2	1	2			
4	Farms irrigated direct per enterprise ².....farms 1950..	1.2	1.8	21.5	12.2	15.7	7.4	17.6	22.8	12.2	2.8
5	Irrigated land ³.....acres 1949..	24,738	20,931	10,696	2,412	3,710	17,986	6,421	11,061	2,304	293
6	acres 1939..	12,836	5,384	13,438	6,164	6,818	19,745	8,975	16,320	2,863	763
7	Average per enterprise.....acres 1949..	90	116	249	75	95	124	131	369	256	59
8	Average acreage irrigated direct per enterprise ².....acres 1949..	91	119	297	85	101	135	139	411	256	59
Type of enterprise, 1950:											
9	Single-farm.....enterprises..	261	171	18	2	3	32	6	5		1
10	acres irrigated..	23,806	18,057	3,527	(4)	21	2,521	56	396		(4)
Mutual:											
11	Unincorporated.....enterprises..	15	8	21	21	35	111	27	15	6	4
12	acres irrigated..	1,338	918	3,915	1,254	3,902	16,959	4,311	6,323	950	273
13	Incorporated.....enterprises..		1	1	7		1	15	9	3	
14	acres irrigated..		(4)	(4)	1,180		(4)	2,236	4,476	1,354	
15	Commercial.....enterprises..										
16	acres irrigated..										
17	District.....enterprises..			1		1					
18	acres irrigated..			(4)		(4)	(4)				
19	U. S. Bureau of Reclamation ⁵.....enterprises..										
20	acres irrigated..										
21	U. S. Bureau of Indian Affairs ⁵.....enterprises..			2	2			1	1		
22	acres irrigated..			1,997	276			194	1,135		
23	State.....enterprises..										
24	acres irrigated..										
25	City.....enterprises..		1								
26	acres irrigated..		(4)								
Use of surface, ground, pumped and stored water, 1949:											
Surface water:											
27	Gravity only.....enterprises reporting..	35	78	32	30	38	143	49	28	9	5
28	acres irrigated..	1,566	10,463	8,517	2,710	3,915	19,545	6,797	12,319	2,304	293
29	Pumped only.....enterprises reporting..	2	5								
30	acres irrigated..	41	22								
31	Gravity and pumped.....enterprises reporting..		2	1					1		
32	acres irrigated..		28	943					3		
33	Ground water only (pumped from wells).....enterprises reporting..	231	85	7	2	1			1		
34	acres irrigated..	22,844	10,696	1,652	2	8			8		
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	8	11	3							
36	acres irrigated..	693	337	1,641							
Stored water:											
37	None stored.....enterprises reporting..	231	152	37	32	24	144	48	28	9	5
38	acres irrigated..	18,748	20,147	7,431	2,712	1,589	19,550	6,761	11,530	2,304	293
39	Part stored.....enterprises reporting..	20	15	5		14	1		2		
40	acres irrigated..	2,756	774	2,288		2,334		36	800		
41	All stored.....enterprises reporting..	25	14	1		1					
42	acres irrigated..	3,640	625	3,034							
Sources of surface water, 1949: ⁶											
43	Streams (and lakes).....enterprises reporting..	40	54	32	30	38	141	47	29	9	5
44	acres irrigated..	2,240	9,965	10,316	2,710	3,915	19,346	6,736	12,322	2,304	293
45	Springs.....enterprises reporting..	2	48	4	4		5	2			
46	acres irrigated..	39	1,137	724	339		531	61			
47	Flowing wells.....enterprises reporting..	1		1							
48	acres irrigated..	13		141							
49	Drainage water.....enterprises reporting..	2	1								
50	acres irrigated..	8	15								
51	Sewage.....enterprises reporting..	1									
52	acres irrigated..	6									
53	Other sources.....enterprises reporting..										
54	acres irrigated..										
Drainage of irrigated land:⁷											
Irrigated land drained:											
55	Enterprises reporting.....enterprises 1949..	1	7	1		4	1		4		
56	Area supplied primary irrigation.....acres 1949..	93	357	320		339	50		913		
57	Area artificially drained.....acres 1949..	93	75	320		85	50		62		
58	acres 1939..	(*)	(*)		10	(*)	(*)	(*)	(*)		190
Irrigated land in need of drainage:											
59	Enterprises reporting.....enterprises 1949..	1	3	2	1	6	17	5	4		
60	Area supplied primary irrigation.....acres 1949..	93	314	1,276	120	770	3,932	807	1,560		
61	Area in need of drainage.....acres 1949..	93	9	135	4	169	542	36	181		
62	acres 1939..		(*)		367	(*)	(*)	(*)			

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

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

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

Item (For definitions and explanations, see text)	Mississippi River (Arkansas River) (VI-B)										
	Total	Canadian River								Cimarron River (2e)	Cimarron River (3)
		Total	Canadian River direct			Mora River					
			Total	Below Conchas Reservoir (2a)	Above Conchas Reservoir (2b)	Total	Direct (2c)	Sapello Creek (2d)			
ALL ENTERPRISES											
Farms and land irrigated:											
1 All irrigation enterprises.....enterprises 1950..	210	178	55	14	41	105	69	36	19	32	
2 1940..	146	118	(*)	(*)	(*)	65	45	20	7	28	
3 Interbasin.....enterprises 1950..	3	3	1		1	2			1		
4 Farms irrigated direct per enterprise ².....farms 1950..	6.0	6.9	5.5	13.6	2.7	7.6	9.7	3.4	7.4	1.1	
5 Irrigated land ³.....acres 1949..	70,454	65,169	30,705	23,357	7,348	14,079	11,583	2,496	20,385	5,285	
6 1939..	64,104	58,724	12,794	622	12,172	25,301	18,824	6,557	20,549	5,380	
7 Average per enterprise.....acres 1949..	335	366	558	1,668	179	134	168	69	1,073	165	
8 Average acreage irrigated direct per enterprise ².....acres 1949..	347	379	560	1,668	181	155	199	71	1,073	168	
Type of enterprise, 1950:											
9 Single-farm.....enterprises..	126	94	48	13	35	33	18	15	13	32	
10 acres irrigated..	15,666	10,286	4,874	2,708	2,166	3,712	2,669	1,043	1,700	5,380	
Mutual:											
11 Incorporated.....enterprises..	58	58	2		2	54	33	21	2		
12 acres irrigated..	14,003	14,003	(4)		(4)	9,213	7,699	1,514	(4)		
13 Incorporated.....enterprises..	25	25	4		4	18	18		4		
14 acres irrigated..	22,488	22,488	5,023		5,023	3,342	3,342		14,123		
Commercial.....enterprises..											
District.....enterprises..											
U. S. Bureau of Reclamation⁵.....enterprises..											
19 acres irrigated..	1	1	1	1							
U. S. Bureau of Indian Affairs⁵.....enterprises..											
21 acres irrigated..	20,649	20,649	20,649	20,649							
State.....enterprises..											
23 acres irrigated..											
City.....enterprises..											
25 acres irrigated..											
Use of surface, ground, pumped and stored water, 1949:											
Surface water:											
Gravity only:											
27 enterprises reporting..	194	165	44	7	37	103	67	36	19	29	
28 acres irrigated..	71,868	67,063	30,443	23,202	7,241	16,235	13,678	2,557	20,385	4,805	
Pumped only:											
29 enterprises reporting..	2	1	1		1					1	
30 acres irrigated..	176	1	1		1					175	
Gravity and pumped:											
31 enterprises reporting..											
32 acres irrigated..											
Ground water only (pumped from wells):											
33 enterprises reporting..	10	9	7	7		2	2			1	
34 acres irrigated..	187	187	155	155		32	32				
Surface (gravity or pumped) and ground water:											
35 enterprises reporting..	4	3	3		3					1	
36 acres irrigated..	575	175	175		175					400	
Stored water:											
None stored:											
37 enterprises reporting..	183	152	45	12	33	97	62	35	10	31	
38 acres irrigated..	24,950	19,830	4,712	2,478	2,234	13,519	11,398	2,121	1,599	5,120	
Part stored:											
39 enterprises reporting..	9	8	3		3	2	2		3	1	
40 acres irrigated..	1,394	1,134	351		351	490	490		293	260	
41 All stored.....enterprises reporting..	18	18	7	2	5	6	5	1	6		
42 acres irrigated..	46,462	46,462	25,711	20,879	4,832	2,258	1,822	436	18,493		
Sources of surface water, 1949:⁶											
Streams (and lakes):											
43 enterprises reporting..	179	151	33	7	26	102	66	36	17	28	
44 acres irrigated..	71,891	66,727	30,211	23,202	7,009	16,231	13,674	2,557	20,285	5,164	
Springs:											
45 enterprises reporting..	27	25	16		16	7	5	2	2	2	
46 acres irrigated..	1,116	1,050	428		428	522	301	221	100	66	
Flowing wells.....enterprises reporting..											
Drainage water:											
48 enterprises reporting..	2	1							1	1	
49 acres irrigated..	300	150							150	150	
Sewage.....enterprises reporting..											
Other sources.....enterprises reporting..											
Drainage of irrigated land:⁷											
Irrigated land drained:											
55 Enterprises reporting.....enterprises 1949..	7	7	3	1	2	3	3		1		
56 Area supplied primary irrigation.....acres 1949..	9,345	9,345	4,522	521	4,001	623	623		4,200		
57 Area artificially drained.....acres 1949..	1,540	1,540	1,030	25	1,005	210	210		300		
58 acres 1939..	20		(*)	(*)	(*)					(*)	
Irrigated land in need of drainage:											
59 Enterprises reporting.....enterprises 1949..	10	10	2	1	1	7	6	1	1		
60 Area supplied primary irrigation.....acres 1949..	29,666	29,666	24,645	20,649	3,996	821	520	301	4,200		
61 Area in need of drainage.....acres 1949..	1,236	1,236	1,050	50	1,000	161	126	35	25		
62 acres 1939..	1,140		(*)	(*)	(*)	(*)	(*)				

*Not available.

¹Includes data for less than 3 enterprises in the Sacramento River Basin (V-B-1c).

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 one 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	Gulf of California	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b)	Gila River (Gila River direct) (IV-C-1d)	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)				
					Total	San Juan River direct (2a)	La Plata River (2d)	Animas River (2e)	Los Pinos River (2f)
ALL ENTERPRISES									
Irrigation works:									
1 Diversion dams.....enterprises reporting 1950..	961	116	2	59	55	30	10	13	2
2 dams 1950..	1,286	138	4	72	62	35	10	13	4
3 dams 1940..	1,072	180	4	106	70	47	9	14	.....
Diversion dams by material:									
4 Concrete or masonry.....dams 1950..	165	17	2	.....	15	14	.....	.....	1
5 Timber.....dams 1950..	121	3	1	.....	2	2	.....	.....	.....
6 Earth and rock.....dams 1950..	537	70	1	54	15	8	3	3	1
7 Other, mixed, and not reported.....dams 1950..	463	48	.....	18	30	11	7	10	2
8 Reservoirs.....enterprises reporting 1950..	312	41	3	24	14	13	1	.....	.....
9 reservoirs 1950..	476	57	9	31	17	16	1	.....	.....
10 reservoirs 1940..	502	55	12	26	17	17	.....	.....	.....
11 Reservoirs for which capacity was reported.....reservoirs 1950..	448	52	9	26	17	16	1	.....	.....
12 total capacity, acre-feet 1950..	3,186,401	32,898	21,920	3,193	7,785	7,435	350	.....	.....
13 total capacity, acre-feet 1940..	3,280,550	18,985	9,361	674	8,950	8,950	.....	.....	.....
Reservoirs by capacity:									
14 1-99 acre-feet.....reservoirs 1950..	378	27	1	19	7	7	.....	.....	.....
15 100-999 acre-feet.....reservoirs 1950..	43	19	4	7	8	7	1	.....	.....
16 1,000 acre-feet and over.....reservoirs 1950..	27	6	4	.....	2	2	.....	.....	.....
Reservoir dams by material:									
17 Concrete or masonry.....dams 1950..	8	2	1	1	.....	.....	.....	.....	.....
18 Earth and rock.....dams 1950..	449	55	8	30	17	16	1	.....	.....
19 Other, mixed, and not reported.....dams 1950..	19	.....	.....	.....	.....	.....	.....	.....	.....
20 Canals and ditches.....enterprises reporting 1950..	1,269	173	4	92	77	47	10	16	4
21 total length, miles 1950..	5,763	700	32	247	421	253	34	120	14
22 1940..	4,648	876	34	258	584	399	43	142	.....
23 Pipelines and siphons ³.....enterprises reporting 1950..	92	32	1	7	24	13	3	8	.....
24 total length, miles 1950..	168	11	(²)	3	8	6	(²)	2	.....
25 1940..	36	5	.....	1	4	3	(²)	1	.....
26 Tunnels.....enterprises reporting 1950..	12	7	.....	2	5	2	.....	3	.....
27 total length, feet 1950..	42,328	7,305	.....	705	6,600	6,000	.....	600	.....
28 Flowing wells.....enterprises reporting 1950..	65	4	.....	1	3	3	.....	.....	.....
29 wells 1950..	106	4	.....	1	3	3	.....	.....	.....
30 1940..	268	10	.....	3	7	7	.....	.....	.....
31 Pumped wells.....enterprises reporting 1950..	2,318	59	.....	56	3	2	.....	1	.....
32 wells 1950..	3,846	103	.....	100	3	2	.....	1	.....
33 1940..	1,487	42	5	36	1	.....	1	.....	.....
34 Wells for which pumping lift was reported.....wells 1949..	3,538	91	.....	88	3	2	.....	1	.....
35 Average pumping lift.....feet 1949..	70	72	.....	73	55	58	.....	50	.....
36 1939..	46	(*)	36	(*)	.....	.....	(*)	.....	.....
37 Irrigation pumps.....enterprises reporting 1950..	2,399	79	.....	60	19	16	.....	3	.....
38 pumps 1950..	3,942	125	.....	103	22	19	.....	3	.....
39 1940..	1,559	44	5	38	1	.....	1	.....	.....
40 Electric motors used for pumping.....enterprises reporting 1950..	1,354	13	.....	9	4	3	.....	1	.....
41 electric motors 1950..	2,216	13	.....	9	4	3	.....	1	.....
42 1940..	474	.....	.....	.....	.....	.....	.....	.....	.....
43 Other motors and engines used for pumping.....enterprises reporting 1950..	1,163	65	.....	50	15	13	.....	2	.....
44 other motors and engines 1950..	1,726	110	.....	93	17	15	.....	2	.....
45 1940..	1,084	48	5	42	1	.....	1	.....	.....
Season of irrigation, 1949:									
46 Water delivered only before July 1.....enterprises reporting..	117	4	.....	2	2	.....	1	1	.....
47 acres irrigated..	11,705	368	.....	19	349	.....	300	49	.....
48 Water delivered before and after July 1.....enterprises reporting..	3,095	191	4	104	83	54	9	16	4
49 acres irrigated..	673,014	56,940	3,326	15,364	38,250	21,764	3,529	11,991	966
50 Water delivered only after July 1.....enterprises reporting..	82	3	.....	3	.....	.....	.....	.....	.....
51 acres irrigated..	8,729	1,431	.....	1,431	.....	.....	.....	.....	.....
Capital investment:									
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	32,735,997	3,716,460	832,565	210,327	2,673,568	2,217,399	68,544	387,141	484
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53 Enterprises reporting.....enterprises 1950..	2,304	14 ^o	3	76	70	44	7	17	2
54 Amount.....dollars 1950..	28,401,912	1,223,708	23,440	530,135	670,133	546,588	22,320	101,165	60
55 Area irrigated direct.....acres 1949..	514,362	51,75 ^o	2,791	12,518	36,450	20,179	3,593	12,489	189
56 Total capital investment Jan. 1, 1950.....dollars 1950..	61,137,909	4,940,168	856,005	740,462	3,343,701	2,763,987	90,864	488,306	544
Indebtedness:⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57 Enterprises reporting.....enterprises 1950..	51	32	1	2	29	18	.....	10	1
58 Amount.....dollars 1950..	19,979,735	1,554,588	12,001	4,814	1,537,773	1,516,371	.....	20,283	1,191
59 1940..	16,715,813	455,926	.....	532	455,394	454,444	.....	950	.....
60 Area irrigated direct.....acres 1949..	235,975	19,353	19	509	18,825	9,395	.....	9,053	377
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61 Enterprises reporting.....enterprises 1950..	27	23	1	1	21	17	.....	4	.....
62 Amount.....dollars 1950..	2,825,348	1,530,064	12,001	1,000	1,517,063	1,512,309	.....	4,754	.....
63 Area irrigated direct.....acres 1949..	78,861	11,644	19	45	11,580	8,880	.....	2,700	.....

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	Excluding Rio Grande (V-A)					Rio Grande below Fort Quitman, Texas (Pecos River) (V-B)					Rio Grande above Fort Quitman, Texas (V-C)				
	Total	Colorado River (5b)	Brazos River			Total	Pecos River direct				Total	Rio Grande direct			
			Total	Brazos River direct (6b)	Salt Fork (6c)		Total	Below Acme ¹ (1c and 2b)	Acme to Alamo-gordo Dam (2c)	Above Alamo-gordo Dam (2d)		Gallinas River (2g)	Total	Below San Marcial (1a)	San Marcial to Otowi Bridge (1b)	Above Otowi Bridge (1c)
664					187	178	146	3	29	9	477	91	35	17	39
887					271	261	229	3	29	10	616	111	42	25	44
761					271	(*)	(*)	(*)	(*)	11	(*)	(*)	(*)	(*)	(*)
110					46	42	39		3	4	64	25	6	9	10
95					67	66	66		8	1	28	4		2	5
319					71	70	60	2		1	248	46	31	8	7
363					87	83	64	1	18	4	276	36	5	6	25
245	8		3	2	132	131	125	2	4	1	105	18	8	6	4
377	10	5	3	2	217	215	209	2	4	2	150	23	12	7	4
422	1				212	(*)	(*)	(*)	(*)	2	(*)	(*)	(*)	(*)	(*)
354	7	5	2	1	210	208	202	2	4	2	137	23	12	7	4
3,025,924	59	56	3	2	223,485	200,085	43,227	7	156,851	23,400	2,802,380	2,544,644	2,543,701	184	759
3,155,921	(*)	(*)			222,560	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
336	7	5	2	1	204	204	199	2	3		125	20	10	7	3
9					2	1	1			1	7	1			1
9					4	3	2		1	1	5	2			
5	1		1	1	215	214	208	2	4	1	135	20	11	6	3
359	9	7	2	1	2	1	1			1	11	2		1	1
13					207	196	158	3	35	11	582	107	32	27	48
931	142	137	5	3	1,227	1,160	1,033	32	95	67	2,742	1,555	440	937	178
4,190	221	216	5	4	512	(*)	(*)	(*)	(*)	65	(*)	(*)	(*)	(*)	(*)
3,308	1	(2)	(2)		19	19	15	3	1		34	15	8	5	2
53					109	109	68	40	1		36	16	4	6	6
145		(2)	(2)		8	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
29					4	2	2			2					
4					3,760	260	260			3,500	1,000	1,000		1,000	
4,760					45	45	43			2	16	12			
61					77	77	75			2	25	19			
102					251	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
258					791	786	729	57	1	5	470	119	73	45	1
2,245	984	386	598	593	41	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
3,724	1,489	690	799	794	825	820	762	58	1	5	494	133	84	48	1
1,442	330		330	330	1,554	1,549	1,432	116	1	5	766	161	105	55	1
3,434	1,407	641	766	763	827	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
70	69	70	69	80	605	605	596	8	1		280	45	20	25	
(*)	(*)	55	46	46	1,142	1,142	1,128	13	1		464	51	24	27	
2,304	985	386	599	594	322	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
3,800	1,480	692	788	782	264	260	212	49		4	229	90	67	22	1
1,510	380	47	333	333	401	397	296	101		4	307	111	80	30	1
1,338	453	57	396	395	501	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
2,200	594	80	514	513	31	31	29	2			53	2		1	1
474	15		15	15	1,468	1,460	1,383	85			7,604	598		300	298
1,086	593	350	243	240	936	922	834	53	36	14	919	208	96	65	47
1,602	894	606	288	285	196,235	190,070	169,326	16,535	4,209	6,165	259,659	167,802	88,463	63,165	16,174
1,031	360	47	313	313	10	10	7	3			19	5	3	2	50
93	9	5	4	4	2,893	2,893	2,632	261			437	140	47	93	51
10,128	1,056	901	155	155	27,058,232	407,033	45,173	361,860	361,860	9,357,216	(*)	(*)	(*)	(*)	(*)
2,741	886	353	533	531	2,082	887	366	521	518	3	616	606	546	50	11
546,046	90,152	56,523	33,629	33,566	63	63	61	62	80	82	5	5	5	5	5
77	48	11	37	37	31	31	29	2			53	2		1	1
7,168	3,838	1,459	2,379	2,379	2,893	2,893	2,632	261			437	140	47	93	51
27,058,232	407,033	45,173	361,860	361,860	9,357,216	(*)	(*)	(*)	(*)	1,022,764	(*)	(*)	(*)	(*)	(*)
2,082	887	366	521	518	3	3	3	3			579	131	64	30	37
11,830,640	3,869,263	2,362,968	1,506,395	1,467,115	30,280	4,883,960	4,872,315	3,866,045	740,921	265,349	11,645	3,077,417	590,095	328,953	153,119
418,371	90,480	57,145	33,335	33,132	203	155,765	154,490	136,890	15,227	2,373	1,275	172,126	105,166	87,293	4,163
38,888,872	4,276,296	2,408,041	1,868,255	1,828,975	39,280	14,241,176	(*)	(*)	(*)	(*)	1,034,409	(*)	(*)	(*)	(*)
14					8	8	7	5			6	6	2	1	1
12,654,832					2,594,234	2,435,104	158,806	234			2,676	10,057,922	9,838,037	2,242,037	7,596,000
16,041,700					3,534,278	(*)	(*)	(*)	(*)		(*)	(*)	(*)	(*)	(*)
180,993					41,888	41,038	35,927	4,591			620	139,105	135,399	85,196	50,703
3					1	1	1				2	1		1	
1,285,284					8,000	8,000	8,000				1,277,234	1,270,899		1,270,899	
60,817					9,479	9,479	9,479				51,338	50,703		50,703	

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Rio Grande above Fort Quitman, Texas (V-C)—Continued									
		Mimbres Valley	Tularosa and Estancia Valleys	Rio Puerco	Tesuque Creek	Santa Cruz River	Rio Chama	Embudo River	Rio Pueblo de Taos	Costilla Creek	San Antonio and Conejos Rivers
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ALL ENTERPRISES											
Irrigation works:											
1	Diversion dams.....enterprises reporting 1950..	37	42	29	29	30	135	44	27	9	5
2	dams 1950..	41	89	52	36	30	158	46	38	9	6
3	1940..	37	(*)	28	33	12	(*)	(*)	38	13	3
Diversion dams by material:											
4	Concrete or masonry.....dams 1950..		12	10	7	2	1	1	4	2	
5	Timber.....dams 1950..		4	2			10	3	5		
6	Earth and rock.....dams 1950..	33	64	30	5	1	28	16	21	2	2
7	Other, mixed, and not reported.....dams 1950..	8	9	10	24	27	119	26	8	5	4
8	Reservoirs.....enterprises reporting 1950..	49	29	6		1	1	1	1		
9	reservoirs 1950..	71	44	8		1	1	1	1		
10	1940..	139	(*)	6	4	1	(*)	(*)	1	1	1
11	Reservoirs for which capacity was reported.....reservoirs 1950..	64	39	7		1	1	1	1		
12	total capacity, acre-feet 1950..	557	540	54,919		3,700	198,000	5	15		
13	1940..	467	(*)	55,447	20	(*)	(*)	(*)	201	(*)	(*)
Reservoirs by capacity:											
14	1-9 acre-feet.....reservoirs 1950..	63	38	2				1	1		
15	100-999 acre-feet.....reservoirs 1950..	1	1	4							
16	1,000 acre-feet and over.....reservoirs 1950..			1		1	1				
Reservoir dams by material:											
17	Concrete or masonry.....dams 1950..		1	1		1					
18	Earth and rock.....dams 1950..	64	41	7			1	1	1		
19	Other, mixed, and not reported.....dams 1950..	7	2								
20	Canals and ditches.....enterprises reporting 1950..	60	95	30	30	38	138	46	27	9	4
21	total length, miles 1950..	94	201	176	69	66	311	137	110	19	4
22	1940..	87	(*)	185	108	75	(*)	(*)	163	47	8
23	Pipelines and siphons ³.....enterprises reporting 1950..	3	12		2		1		1		
24	total length, miles 1950..	1	16		3		(2)		(2)		(2)
25	1940..	1	(*)		2		(*)	(*)			(2)
26	Tunnels.....enterprises reporting 1950..										
27	total length, feet 1950..										
28	Flowing wells.....enterprises reporting 1950..	2		2							
29	wells 1950..	3		3							
30	1940..		(*)				(*)	(*)			
31	Dumped wells.....enterprises reporting 1950..	239	96	10	2	1	2		1		
32	wells 1950..	432	132	21	2	1	2		2		
33	1940..	213	(*)				(*)	(*)			1
34	Wells for which pumping lift was reported.....wells 1949..	421	110	17	2	1	1		2		
35	Average pumping lift.....feet 1949..	94	91	127	180	4			225		
36	1939..	64	(*)				(*)	(*)			(*)
37	Irrigation pumps.....enterprises reporting 1950..	241	102	11	2	1	2		2		
38	pumps 1950..	436	138	22	2	2	2		3		
39	1940..	213	(*)				(*)	(*)			1
40	Electric motors used for pumping.....enterprises reporting 1950..	210	14	7	2	1			1		
41	electric motors 1950..	377	17	14	2	2			1		
42	1940..	126	(*)				(*)	(*)			
43	Other motors and engines used for pumping.....enterprises reporting 1950..	41	89	6			2		1		
44	other motors and engines 1950..	63	122	8			2		1		
45	1940..	88	(*)				(*)	(*)			1
Season of Irrigation, 1949:											
46	Water delivered only before July 1.....enterprises reporting..	1	4	15		2	27		1		1
47	acres irrigated..	80	8	1,901		442	4,447		12		116
48	Water delivered before and after July 1.....enterprises reporting..	252	163	24	32	37	116	49	29	9	3
49	acres irrigated..	23,723	15,469	10,643	2,712	3,481	14,253	6,797	12,318	2,304	157
50	Water delivered only after July 1.....enterprises reporting..	9	5								
51	acres irrigated..	107	190								
Capital investment:											
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	306,986	(*)	922,005	119,765	493,323	(*)	(*)	164,928	108,155	9,650
New capital investment Jan. 1, 1940, to Jan. 1, 1950:											
53	Enterprises reporting.....enterprises 1950..	179	102	13	22	22	61	27	20	4	
54	Amount.....dollars 1950..	1,623,808	635,243	89,619	27,271	21,380	27,136	50,677	10,555	1,633	
55	Area irrigated direct.....acres 1949..	18,943	9,483	7,818	1,992	2,586	11,642	4,650	9,122	724	
56	Total capital investment Jan. 1, 1950.....dollars 1950..	1,930,794	(*)	1,011,624	147,036	514,703	(*)	(*)	175,483	109,788	9,650
Indebtedness:											
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
57	Enterprises reporting.....enterprises 1950..		2	1		1					
58	Amount.....dollars 1950..		99,500	7,885		112,500					
59	1940..			376,399	64,248	147,500	(*)	(*)	86,828	8,759	
60	Area irrigated direct.....acres 1949..		2,571	635							
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
61	Enterprises reporting.....enterprises 1950..			1							
62	Amount.....dollars 1950..			6,385							
63	1949..			635							

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

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

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

Item (For definitions and explanations, see text)	Mississippi River (Arkansas River) (VI-B)										
	Total	Canadian River								Cimarron River	Cimarron River
		Total	Canadian River direct			Mora River			Cimarron River		
			Total	Below Conchas Reservoir (2a)	Above Conchas Reservoir (2b)	Total	Direct (2c)	Sapello Creek (2d)			
ALL ENTERPRISES											
Irrigation works:											
1 Diversion dams.....enterprises reporting 1950..	183	153	39	4	35	96	63	33	19	30	
2 Diversion dams.....dams 1950..	261	213	68	11	57	102	67	35	43	48	
3 Diversion dams.....dams 1940..	131	101	(*)	(*)	(*)	50	36	14	11	30	
4 Diversion dams by material:											
5 Concrete or masonry.....dams 1950..	38	25	9	3	6	9	0	.....	7	13
6 Timber.....dams 1950..	23	23	2	.....	2	12	9	3	9	.....
7 Earth and rock.....dams 1950..	148	129	54	8	46	50	36	14	25	19	
8 Other, mixed, and not reported.....dams 1950..	52	36	3	.....	3	31	13	18	2	16
9 Reservoirs.....enterprises reporting 1950..	26	24	10	1	9	6	5	1	3	2	
10 Reservoirs.....reservoirs 1950..	42	39	19	(*)	18	8	7	1	12	3	
11 Reservoirs.....reservoirs 1940..	25	24	(*)	(*)	(*)	2	1	1	6	1	
12 Reservoirs for which capacity was reported.....reservoirs 1950..	42	39	19	1	18	8	7	1	12	3	
13 Reservoirs.....total capacity, acre-feet 1950..	127,579	119,544	13,647	1	13,646	12,515	3,515	9,000	93,382	8,035	
14 Reservoirs.....total capacity, acre-feet 1940..	105,644	105,639	(*)	(*)	(*)	(*)	(*)	(*)	93,650	(*)	
15 Reservoirs by capacity:											
16 1-99 acre-feet.....reservoirs 1950..	15	13	8	1	7	2	2	.....	3	2
17 100-999 acre-feet.....reservoirs 1950..	15	15	6	.....	6	5	5	.....	4	.....
18 1,000 acre-feet and over.....reservoirs 1950..	12	11	5	.....	5	1	.....	1	5	1
19 Reservoir dams by material:											
20 Concrete or masonry.....dams 1950..	1	1	.....	.....	.....	.....	.....	.....	1	.....
21 Earth and rock.....dams 1950..	35	33	18	1	17	7	6	1	8	2	
22 Other, mixed, and not reported.....dams 1950..	6	5	1	.....	1	1	1	.....	3	1
23 Canals and ditches.....enterprises reporting 1950..	167	142	29	9	20	102	67	35	12	25	
24 Canals and ditches.....total length, miles 1950..	872	832	392	321	71	273	232	41	167	40	
25 Canals and ditches.....total length, miles 1940..	464	398	(*)	(*)	(*)	184	130	54	65	66	
26 Pipelines and siphons ³.....enterprises reporting 1950..	7	6	4	2	2	1	1	.....	1	1
27 Pipelines and siphons ³.....total length, miles 1950..	11	11	7	6	1	.....	(²)	.....	4	(²)
28 Pipelines and siphons ³.....total length, miles 1940..	2	1	(*)	(*)	(*)	(²)	(²)	(²)	.....	(²)
29 Tunnels.....enterprises reporting 1950..	1	1	1	1	.....	.....	.....	.....	.....	.....
30 Tunnels.....total length, feet 1950..	30,263	30,263	30,263	30,263	.....	.....	.....	.....	.....	.....
31 Flowing wells.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
32 Flowing wells.....wells 1950..	.....	.....	(*)	(*)	(*)	.....	.....	.....	.....	.....
33 Pumped wells.....enterprises reporting 1950..	14	12	10	7	3	2	2	.....	.....	2
34 Pumped wells.....wells 1950..	19	17	15	12	3	2	2	.....	.....	2
35 Pumped wells.....wells 1940..	3	2	(*)	(*)	(*)	.....	.....	.....	.....	1
36 Wells for which pumping lift was reported.....wells 1949..	13	11	11	9	2	.....	.....	.....	.....	2
37 Average pumping lift.....feet 1949..	45	.....	41	41	40	.....	.....	.....	.....	45
38 Average pumping lift.....feet 1939..	52	(*)	(*)	(*)	(*)	.....	.....	.....	.....	(*)
39 Irrigation pumps.....enterprises reporting 1950..	16	13	11	7	4	2	2	.....	.....	3
40 Irrigation pumps.....pumps 1950..	17	13	11	7	4	2	2	.....	.....	4
41 Irrigation pumps.....pumps 1940..	5	3	(*)	(*)	(*)	.....	.....	.....	.....	2
42 Electric motors used for pumping.....enterprises reporting 1950..	3	3	1	1	.....	2	2	.....	.....	.....
43 Electric motors used for pumping.....electric motors 1950..	3	3	1	1	.....	2	2	.....	.....	.....
44 Electric motors used for pumping.....electric motors 1940..	.....	.....	(*)	(*)	(*)	.....	.....	.....	.....	.....
45 Other motors and engines used for pumping.....enterprises reporting 1950..	12	9	9	6	3	.....	.....	.....	.....	3
46 Other motors and engines used for pumping.....other motors and engines 1950..	14	9	9	6	3	.....	.....	.....	.....	5
47 Other motors and engines used for pumping.....other motors and engines 1940..	5	3	(*)	(*)	(*)	.....	.....	.....	.....	2
48 Season of irrigation, 1949:											
49 Water delivered only before July 1.....enterprises reporting..	20	14	1	.....	1	13	.....	13	.....	6
50 Water delivered only before July 1.....acres irrigated..	1,209	521	3	.....	3	518	.....	518	.....	688
51 Water delivered before and after July 1.....enterprises reporting..	165	143	36	8	28	90	67	23	16	22	
52 Water delivered before and after July 1.....acres irrigated..	70,028	65,976	29,929	23,030	6,899	15,739	13,700	2,039	20,308	4,052	
53 Water delivered only after July 1.....enterprises reporting..	2	2	2	1	1	.....	.....	.....	.....	.....
54 Water delivered only after July 1.....acres irrigated..	130	130	130	30	100	.....	.....	.....	.....	.....
55 Capital investment:											
56 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,961,305	1,812,825	(*)	(*)	(*)	125,633	85,630	40,003	1,057,462	148,480	
57 New capital investment Jan. 1, 1940, to Jan. 1, 1950:											
58 Enterprises reporting.....enterprises 1950..	73	64	24	7	17	33	22	11	7	9	
59 Amount.....dollars 1950..	15,347,564	15,337,554	15,176,865	15,106,514	70,351	120,150	86,900	33,250	40,530	10,010	
60 Area irrigated direct.....acres 1949..	44,232	42,514	26,597	21,280	5,317	6,428	4,992	1,436	9,489	1,718	
61 Total capital investment Jan. 1, 1950.....dollars 1950..	17,308,869	17,150,379	(*)	(*)	(*)	245,783	172,530	73,253	1,098,001	159,490	
62 Indebtedness: ⁴											
63 Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
64 Enterprises reporting.....enterprises 1950..	5	5	2	1	1	1	1	.....	3	.....
65 Amount.....dollars 1950..	5,770,315	5,770,315	5,692,200	5,655,000	37,200	215	215	.....	77,900	.....
66 Enterprises reporting.....enterprises 1940..	218,187	218,187	(*)	(*)	(*)	.....	.....	.....	145,687	.....
67 Amount.....dollars 1940..	35,629	35,629	24,645	20,649	3,996	80	80	.....	10,904	.....
68 Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
69 Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
70 Enterprises reporting.....enterprises 1950..	1	1	1	.....	1	.....	.....	.....	1	.....
71 Amount.....dollars 1950..	10,000	10,000	5,200	.....	5,200	.....	.....	.....	3,800	.....
72 Area irrigated direct.....acres 1949..	6,400	6,400	3,996	.....	3,996	.....	.....	.....	2,401	.....

*Not available.
¹Includes data for less than 3 enterprises in the Sacramento River Basin (V-B-1c).
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

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

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

Item (For definitions and explanations, see text)	The State	Gulf of California	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River)	Gila River (Gila River direct)	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)					
					Total	San Juan River direct	La Plata River	Animas River	Los Pinos River	
										(1)	(2a)	(2e)	(2f)
ALL ENTERPRISES										
Cost of water to farms, 1949: ²										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	3,430	209	5	117	87	55	10	18	4
2	Cost.....dollars..	3,687,962	253,015	10,394	129,175	113,446	57,281	6,563	47,772	1,830
3	Area irrigated direct.....acres..	711,935	60,564	3,327	18,162	39,075	21,790	3,829	12,490	966
4	Cost per acre irrigated direct.....dollars..	5.18	4.18	3.12	7.11	2.90	2.63	1.71	3.82	1.89
5	Total cost per irrigated acre.....dollars..	5.33	4.30	3.12	7.17	3.03	2.65	1.71	4.31	1.89
6	Total cost per acre-foot of water ³.....dollars..	1.84	1.13	0.54	2.05	0.80	0.74	0.57	0.94	(4)
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	618	43	2	29	12	10	1	.....	1
8	acres irrigated..	97,374	4,022	46	2,017	1,959	1,340	436	.....	183
9	\$1.00-\$1.99.....enterprises reporting..	372	43	1	10	32	24	4	.....	3
10	acres irrigated..	77,490	15,358	19	1,812	13,527	9,313	1,691	.....	377
11	\$2.00-\$4.99.....enterprises reporting..	917	50	2	26	22	9	4	.....	7
12	acres irrigated..	249,156	26,326	3,262	4,096	18,968	9,434	1,692	.....	406
13	\$5.00-\$9.99.....enterprises reporting..	763	32	.....	20	12	6	1	.....	5
14	acres irrigated..	220,091	8,537	.....	4,204	4,333	1,510	10	.....	3
15	\$10.00 and over.....enterprises reporting..	760	41	.....	32	9	6	.....	.....	.....
16	acres irrigated..	67,824	6,321	.....	6,033	288	193	.....	.....	95
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	3,299	194	5	110	79	50	10	15	4
18	Cost.....dollars..	3,603,459	242,825	10,394	127,845	104,586	56,266	6,563	39,927	1,830
19	Area supplied primary irrigation.....acres..	691,476	58,815	3,327	18,014	37,474	21,584	3,829	11,095	966
20	Cost per acre supplied.....dollars..	5.21	4.13	3.12	7.10	2.79	2.61	1.71	3.60	1.89
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	178	18	.....	7	11	6	.....	.....	5
22	Cost.....dollars..	84,503	10,190	.....	1,330	8,860	1,015	.....	.....	7,845
23	Area supplied supplemental irrigation.....acres..	20,459	1,749	.....	148	1,601	206	.....	.....	1,395
24	Cost per acre supplied.....dollars..	4.13	5.83	.....	8.99	5.53	4.93	.....	.....	5.62
Cost to farms for purposes other than operation and maintenance: ⁵										
25	Enterprises reporting.....enterprises..	54	20	.....	2	18	3	4	9	2
26	Cost.....dollars..	398,164	25,456	.....	1,310	24,146	10,311	1,847	11,283	705
27	Area irrigated direct.....acres..	214,301	14,639	.....	163	14,476	5,392	1,939	6,585	560
28	Cost per acre irrigated.....dollars..	1.86	1.74	.....	8.04	1.67	1.91	0.95	1.71	1.26
Arrearage in payments by farms, Jan. 1, 1950: ⁵										
29	Enterprises reporting.....enterprises..	41	30	.....	1	29	14	.....	14	1
30	Amount.....dollars..	2,808,990	667,068	.....	400	666,668	656,027	.....	10,632	9
31	Area irrigated direct.....acres..	117,967	26,468	.....	1,893	24,575	12,134	.....	12,064	377
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	2,858	123	2	92	29	23	1	3	2
33	Area irrigated.....acres..	327,725	12,535	(6)	10,812	1,677	1,166	(6)	95	(6)
34	Complete-system enterprises ⁷.....enterprises..	2,774	110	2	87	21	16	1	3	1
35	Area irrigated.....acres..	323,762	11,634	(6)	10,519	1,069	958	(6)	95	(6)
Other farms irrigated:										
36	Enterprises reporting.....number..	185	6	.....	5	1	.....	.....	1	.....
37	Number of other farms.....farms..	272	6	.....	5	1	.....	.....	1	.....
38	Area irrigated in other farms.....acres..	10,208	200	.....	185	15	.....	.....	15	.....
Enterprises by origin of water supply: ⁷										
39	No water from other enterprises.....enterprises reporting..	2,820	113	2	89	22	17	1	3	1
40	acres irrigated..	323,817	11,644	(6)	10,529	1,069	958	(6)	95	(6)
41	Part of water from other enterprises.....enterprises reporting..	12	2	.....	1	1	.....	.....	.....	1
42	acres irrigated..	2,686	520	.....	120	400	.....	.....	.....	(6)
43	All of water from other enterprises.....enterprises reporting..	26	8	.....	2	6	.....	.....	.....	.....
44	acres irrigated..	1,222	371	.....	163	208	208	.....	.....	.....
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	2,689	107	2	86	19	16	1	.....	2
46	acres irrigated..	319,842	12,159	(6)	10,740	1,373	957	(6)	.....	(6)
47	Part primary, part supplemental.....enterprises reporting..	17	1	.....	1	1	.....	.....	.....	.....
48	Primary irrigation.....acres irrigated..	585	3	.....	3	3	.....	.....	.....	.....
49	Supplemental irrigation.....acres irrigated..	700	35	.....	35	35	.....	.....	.....	.....
50	All supplemental.....enterprises reporting..	110	13	.....	5	8	.....	.....	.....	3
51	acres irrigated..	6,598	338	.....	72	266	171	.....	.....	95
Enterprises by number of acres irrigated: ⁷										
52	None.....enterprises reporting..	42	2	.....	1	1	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	418	27	1	18	8	6	.....	1	1
54	10-29 acres.....enterprises reporting..	467	26	.....	21	5	4	1	.....	.....
55	30-59 acres.....enterprises reporting..	469	23	1	16	6	4	.....	2	.....
56	60-99 acres.....enterprises reporting..	500	9	.....	6	3	3	.....	.....	.....
57	100-199 acres.....enterprises reporting..	553	21	.....	17	4	4	.....	.....	.....
58	200-499 acres.....enterprises reporting..	313	12	.....	10	2	1	.....	.....	1
59	500-999 acres.....enterprises reporting..	67	1	.....	1	.....	.....	.....	.....	.....
60	1,000 acres or more.....enterprises reporting..	29	2	.....	2	.....	.....	.....	.....	.....

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	Excluding Rio Grande (V-A)					Rio Grande below Fort Quitman, Texas (Pecos River) (V-B)					Rio Grande above Fort Quitman, Texas (V-C)						
	Total	Colorado River (5b)	Brazos River			Total	Pecos River direct				Total	Rio Grande direct					
			Total	Brazos River direct (6b)	Salt Fork (6c)		Total	Below Acme ¹ (1c and 2b)	Acme to Alamo-gordo Dam (2c)	Above Alamo-gordo Dam (2d)		Gal-linas River (2g)	Total	Below San Marcial (1a)		San Marcial to Otowi Pridge (1b)	Above Otowi Bridge (1c)
3,012	967	301	586	582	4	1,008	994	896	59	40	14	1,037	241	123	69	49	1
3,283,358	451,326	259,626	191,700	190,200	1,500	1,277,297	1,260,624	1,127,987	116,426	16,211	16,673	1,554,735	984,032	632,053	311,531	40,448	2
578,565	98,865	61,931	36,934	36,681	253	203,237	197,072	175,906	16,891	4,275	6,165	276,463	169,111	89,049	63,580	16,474	3
5.68	4.57	4.19	5.19	5.19	5.93	6.28	6.40	6.41	6.89	3.79	2.70	5.62	7.10	4.90	2.46	4	4
5.84	4.57	4.19	5.20	5.20	5.93	6.51	6.62	6.66	6.89	3.80	2.94	5.82	5.90	7.13	4.94	2.67	5
2.01	(*)	(*)	(*)	(*)	(*)	2.60	2.55	2.56	(*)	1.52	2.45	1.94	1.64	2.38	0.99	1.48	6
448	53	30	23	22	1	142	141	126	4	11	20	253	51	24	10	17	7
68,785	9,736	7,526	2,210	2,160	50	15,656	15,636	14,163	571	902	20	43,393	9,602	266	264	9,072	8
289	96	52	44	44	.....	84	80	71	4	5	4	109	19	9	6	1	9
52,831	15,337	11,165	4,152	4,152	.....	15,796	14,309	13,253	712	344	1,487	21,698	3,919	657	2,124	1,138	10
842	366	145	221	221	.....	265	260	228	13	19	5	211	48	20	15	13	11
185,334	41,222	24,121	17,101	17,101	.....	67,360	62,768	54,199	6,337	2,232	4,592	76,752	60,688	975	56,538	3,175	12
722	267	103	164	162	.....	262	259	244	13	3	3	193	47	26	14	7	13
211,052	24,823	15,533	9,290	9,110	180	73,883	73,821	66,909	6,422	490	62	112,346	91,542	86,031	3,583	1,928	14
711	185	51	134	133	1	255	254	227	25	2	1	271	44	24	8	15	15
60,563	7,747	3,566	4,181	4,158	23	30,542	30,538	27,382	2,849	307	4	22,274	3,360	1,120	1,079	1,161	16
2,907	967	381	586	582	4	962	948	851	59	39	14	978	218	116	59	43	17
3,211,230	450,445	259,626	190,819	189,319	1,500	1,244,174	1,229,076	1,096,439	116,426	16,211	15,098	1,516,611	973,944	628,486	307,399	38,057	18
562,207	98,767	61,931	36,836	36,593	253	196,108	190,443	159,283	16,891	4,269	5,665	267,332	166,780	88,645	63,006	15,129	19
5.71	4.56	4.19	5.18	5.18	5.93	6.34	6.45	6.48	6.89	3.80	2.67	5.67	5.84	7.09	4.88	2.52	20
140	7	.....	7	7	.....	58	57	56	.....	1	1	75	28	8	11	9	21
72,128	881	.....	881	881	.....	33,123	31,548	31,548	.....	0	1,575	38,124	10,088	3,565	4,132	2,391	22
16,358	98	.....	98	98	.....	7,129	6,629	6,623	.....	6	500	9,131	2,331	404	582	1,345	23
4.41	8.99	.....	8.99	8.99	.....	4.65	4.76	4.76	.....	0.00	3.15	4.18	4.33	8.82	7.10	1.78	24
30	.....	.....	.....	.....	.....	9	8	5	1	2	1	21	7	1	2	4	25
357,187	.....	.....	.....	.....	.....	99,475	99,051	82,297	16,379	375	424	257,712	245,015	125,039	115,150	4,826	26
184,682	.....	.....	.....	.....	.....	42,176	41,326	35,833	4,591	902	850	142,506	137,200	85,196	51,004	1,000	27
1.93	.....	.....	.....	.....	.....	2.36	2.40	2.30	3.57	0.42	0.50	1.81	1.79	1.47	2.26	4.83	28
10	.....	.....	.....	.....	.....	5	3	2	.....	1	2	5	2	.....	2	.....	29
2,141,822	.....	.....	.....	.....	.....	22,173	19,502	19,402	.....	100	2,671	2,119,649	2,103,374	2,103,374	.....	.....	30
91,450	.....	.....	.....	.....	.....	36,125	31,856	31,236	.....	620	4,269	55,325	51,004	.....	51,004	.....	31
2,609	986	386	600	595	5	950	944	875	59	11	6	673	174	117	51	6	32
299,524	98,865	61,931	36,934	36,681	253	147,564	147,538	135,058	12,300	180	26	53,095	4,899	2,643	1,985	61	33
2,540	967	381	586	582	4	923	919	851	58	11	4	650	163	112	45	6	34
297,490	98,865	61,931	36,934	36,681	253	146,263	146,237	133,757	12,300	180	26	52,362	4,547	2,506	1,980	61	35
176	76	6	70	70	.....	90	90	89	2	.....	.....	10	4	1	3	.....	36
259	99	6	93	93	.....	134	134	132	2	.....	.....	26	11	3	8	.....	37
9,406	2,174	243	1,931	1,931	.....	5,849	5,849	5,429	420	.....	.....	1,383	260	31	229	.....	38
2,582	986	386	600	595	5	933	927	858	59	11	6	663	169	112	51	6	39
297,535	98,865	61,931	36,934	36,681	253	146,278	146,252	133,772	12,300	86	26	52,392	4,552	2,506	1,985	61	40
9	.....	.....	.....	.....	.....	2	2	2	.....	.....	.....	7	4	4	.....	.....	41
1,138	.....	.....	.....	.....	.....	469	469	469	.....	.....	.....	669	114	114	.....	.....	42
18	.....	.....	.....	.....	.....	15	15	15	.....	.....	.....	3	1	1	.....	.....	43
851	.....	.....	.....	.....	.....	817	817	817	.....	.....	.....	34	23	23	.....	.....	44
2,465	960	381	579	575	4	888	884	817	58	10	4	617	150	111	35	4	45
292,418	98,494	61,931	36,563	36,310	253	142,698	142,672	130,198	12,300	174	26	51,226	4,397	2,439	1,809	59	46
16	7	.....	7	7	.....	7	7	7	.....	.....	.....	2	1	1	.....	.....	47
582	273	.....	273	273	.....	296	296	296	.....	.....	.....	13	4	4	.....	.....	48
665	98	.....	98	98	.....	557	557	557	.....	.....	.....	10	7	7	.....	.....	49
89	.....	.....	.....	.....	.....	46	46	45	.....	.....	.....	43	18	6	10	2	50
5,859	.....	.....	.....	.....	.....	4,013	4,013	4,007	.....	.....	.....	1,846	281	204	75	2	51
39	19	5	14	13	1	9	7	6	1	.....	2	11	5	.....	5	.....	52
367	77	13	64	64	.....	121	118	102	11	5	3	169	75	48	23	4	53
413	125	18	107	106	1	155	154	139	12	3	1	133	45	41	3	1	54
435	204	39	165	163	2	128	128	115	10	3	.....	103	70	19	10	1	55
477	226	81	145	145	.....	151	151	139	12	.....	.....	100	7	3	4	.....	56
507	217	129	82	87	1	179	179	174	5	.....	.....	111	9	5	4	.....	57
285	102	86	16	16	.....	146	146	143	3	.....	.....	37	3	1	2	.....	58
61	13	12	1	1	.....	43	43	42	1	.....	.....	5	.....	.....	.....	.....	59
25	.....	3	.....	.....	.....	18	18	15	4	.....	.....	4	.....	.....	.....	.....	60

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Rio Grande above Fort Quitman, Texas (V-C)—Continued									
		Mimbres Valley (2)	Tularosa and Estancia Valleys (3)	Rio Puerco (4)	Tesuque Creek (5)	Santa Cruz River (6)	Rio Chama (7)	Embudo River (8)	Rio Pueblo de Taos (9)	Costilla Creek (10)	San Antonio and Conejos Rivers (11)
ALL ENTERPRISES											
Cost of water to farms, 1949: ²											
Total cost of water to farms:											
1	Enterprises reporting.....enterprises..	274	176	43	32	36	144	47	30	9	5
2	Cost.....dollars..	321,165	71,905	76,571	8,944	35,108	30,212	16,652	7,900	1,765	481
3	Area irrigated direct.....acres..	25,144	21,546	12,753	2,712	3,923	19,550	6,797	12,330	2,304	293
4	Cost per acre irrigated direct.....dollars..	12.77	3.34	6.00	3.30	8.95	1.55	2.45	0.64	0.77	1.64
5	Total cost per irrigated acre.....dollars..	12.98	3.44	7.16	3.71	9.46	1.68	2.59	0.71	0.77	1.64
6	Total cost per acre-foot of water ³.....dollars..	5.90	1.38	3.41	2.32	7.88	1.53	2.35	0.59	0.86	0.91
Enterprises by cost per acre:											
7	Less than \$1.00.....enterprises reporting..	34	70	13	.....	2	42	17	19	4	1
8	.....acres irrigated..	1,732	7,672	1,980	.....	13	9,612	1,990	9,282	1,490	20
9	\$1.00-\$1.99.....enterprises reporting..	3	14	8	.....	2	29	15	8	4	3
10	.....acres irrigated..	122	3,697	2,550	660	446	4,920	2,863	1,610	754	157
11	\$2.00-\$4.99.....enterprises reporting..	17	40	9	21	9	57	6	2	1	1
12	.....acres irrigated..	1,581	4,579	1,522	1,798	234	3,679	1,060	1,435	60	116
13	\$5.00-\$9.99.....enterprises reporting..	73	23	7	4	18	13	7	1	.....	.....
14	.....acres irrigated..	8,382	3,958	4,261	192	2,319	1,167	522	3	.....	.....
15	\$10.00 and over.....enterprises reporting..	147	29	6	3	5	3	2	.....	.....	.....
16	.....acres irrigated..	13,327	1,640	2,440	62	911	172	362	.....	.....	.....
Cost of water for primary irrigation:											
17	Enterprises reporting.....enterprises..	270	160	40	30	34	138	46	28	9	5
18	Cost.....dollars..	319,493	71,121	56,421	8,394	33,390	27,678	16,265	7,659	1,765	481
19	Area supplied primary irrigation.....acres..	24,738	20,931	10,696	2,412	3,710	17,986	6,421	11,061	2,304	293
20	Cost per acre supplied.....dollars..	12.92	3.40	5.27	3.48	9.00	1.54	2.53	0.69	0.77	1.64
Cost of water for supplemental irrigation:											
21	Enterprises reporting.....enterprises..	4	17	7	2	3	8	2	4	.....	.....
22	Cost.....dollars..	1,672	784	20,150	550	1,718	2,534	387	241	.....	.....
23	Area supplied supplemental irrigation.....acres..	406	615	2,057	300	213	1,564	376	1,269	.....	.....
24	Cost per acre supplied.....dollars..	4.12	1.27	9.80	1.83	0.07	1.62	1.03	0.19	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁵											
25	Enterprises reporting.....enterprises..	.....	1	.....	.....	12	1	.....	.....	.....	.....
26	Cost.....dollars..	.....	877	.....	.....	11,010	800	.....	.....	.....	.....
27	Area irrigated direct.....acres..	.....	2,172	.....	.....	2,334	800	.....	.....	.....	.....
28	Cost per acre irrigated.....dollars..	.....	0.41	.....	.....	4.72	1.00	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁵											
29	Enterprises reporting.....enterprises..	.....	.....	2	.....	.....	.....	1	.....	.....	.....
30	Amount.....dollars..	.....	.....	16,215	.....	.....	.....	60	.....	.....	.....
31	Area irrigated direct.....acres..	.....	.....	3,946	.....	.....	.....	375	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950											
32	Single-farm enterprises.....enterprises..	261	171	18	2	3	32	6	5	.....	1
33	Area irrigated.....acres..	23,806	18,057	3,527	(⁶)	21	2,521	56	396	.....	(⁶)
34	Complete-system enterprises ⁷.....enterprises..	259	164	15	2	3	32	6	5	.....	1
35	Area irrigated.....acres..	23,806	17,977	3,016	(⁶)	21	2,521	56	396	.....	20
Other farms irrigated:											
36	Enterprises reporting.....number..	3	3	.....	.....	.....	.....	.....	.....	.....	.....
37	Number of other farms.....farms..	5	10	.....	.....	.....	.....	.....	.....	.....	.....
38	Area irrigated in other farms.....acres..	912	211	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by origin of water supply: ⁷											
39	No water from other enterprises.....enterprises reporting..	261	169	15	2	3	32	6	5	.....	1
40	.....acres irrigated..	23,806	18,002	3,016	(⁶)	21	2,521	56	396	.....	(⁶)
41	Part of water from other enterprises.....enterprises reporting..	.....	2	1	.....	.....	.....	.....	.....	.....	.....
42	.....acres irrigated..	.....	55	500	.....	.....	.....	.....	.....	.....	.....
43	All of water from other enterprises.....enterprises reporting..	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
44	.....acres irrigated..	.....	.....	11	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:											
45	All primary.....enterprises reporting..	259	151	15	2	1	30	6	2	.....	1
46	.....acres irrigated..	23,806	17,742	2,470	(⁶)	8	2,514	56	211	.....	(⁶)
47	Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
48	Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	9	.....	.....
49	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
50	All supplemental.....enterprises reporting..	.....	16	3	.....	2	2	.....	2	.....	.....
51	.....acres irrigated..	.....	315	1,057	.....	13	7	.....	173	.....	.....
Enterprises by number of acres irrigated: ⁷											
52	None.....enterprises reporting..	2	4	.....	.....	.....	.....	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	30	41	4	2	3	7	5	2	.....	.....
54	10-29 acres.....enterprises reporting..	30	46	3	.....	.....	.....	.....	1	.....	.....
55	30-59 acres.....enterprises reporting..	40	24	1	.....	.....	.....	1	.....	.....	.....
56	60-99 acres.....enterprises reporting..	66	19	3	.....	.....	5	.....	.....	.....	.....
57	100-199 acres.....enterprises reporting..	74	23	1	.....	.....	3	.....	1	.....	.....
58	200-499 acres.....enterprises reporting..	17	11	3	.....	.....	2	.....	.....	.....	.....
59	500-999 acres.....enterprises reporting..	2	.....	2	.....	.....	1	.....	.....	.....	.....
60	1,000 acres or more.....enterprises reporting..	.....	3	1	.....	.....	.....	.....	.....	.....	.....

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

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

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

Item (For definitions and explanations, see text)	Mississippi River (Arkansas River) (VI-B)									
	Total	Canadian River								Cimarron River (3)
		Total	Canadian River direct			Mora River			Cimarron River (2e)	
			Total	Below Conchas Reservoir (2a)	Above Conchas Reservoir (2b)	Total	Direct (2c)	Sapello Creek (2d)		
ALL ENTERPRISES										
Cost of water to farms, 1949: ²										
Total cost of water to farms:										
1 Enterprises reporting.....enterprises..	209	178	55	14	41	105	69	36	19	31
2 Cost.....dollars..	151,589	142,342	91,128	65,896	25,232	14,355	12,216	2,139	36,859	9,247
3 Area irrigated direct.....acres..	72,806	67,426	30,774	23,357	7,417	16,267	13,710	2,557	20,385	5,380
4 Cost per acre irrigated direct.....dollars..	2.08	2.11	2.96	2.82	3.40	0.88	0.89	0.84	1.81	1.72
5 Total cost per irrigated acre.....dollars..	2.15	2.18	2.97	2.82	3.43	1.02	1.05	0.86	1.81	1.75
6 Total cost per acre-foot of water.....dollars..	1.65	1.68	2.28	2.17	3.43	0.64	0.62	0.72	1.51	(4)
Enterprises by cost per acre:										
7 Less than \$1.00.....enterprises reporting..	127	110	39	7	32	56	40	16	15	17
8 acres irrigated..	24,567	21,326	4,949	2,563	2,386	11,120	9,385	1,735	5,257	3,241
9 \$1.00-\$1.99.....enterprises reporting..	40	36	4	1	3	31	20	11	1	4
10 acres irrigated..	9,301	8,706	442	60	382	4,040	3,758	282	4,224	595
11 \$2.00-\$4.99.....enterprises reporting..	25	20	4	2	2	14	5	9	3	5
12 acres irrigated..	37,496	36,573	24,650	20,653	3,997	1,019	479	540	10,904	923
13 \$5.00-\$9.99.....enterprises reporting..	9	6	4	2	2	2	2	.....	.....	3
14 acres irrigated..	502	141	86	41	45	55	55	.....	.....	361
15 \$10.00 and over.....enterprises reporting..	8	6	4	2	2	2	2	.....	.....	2
16 acres irrigated..	940	680	647	40	607	33	33	.....	.....	260
Cost of water for primary irrigation:										
17 Enterprises reporting.....enterprises..	198	168	55	14	41	95	64	31	19	30
18 Cost.....dollars..	149,404	140,557	91,100	65,896	25,204	12,598	10,527	2,071	36,859	8,847
19 Area supplied primary irrigation.....acres..	70,454	65,169	30,705	23,357	7,348	14,079	11,583	2,496	20,385	5,285
20 Cost per acre supplied.....dollars..	2.12	2.16	2.97	2.82	3.43	0.89	0.91	0.83	1.81	1.67
Cost of water for supplemental irrigation:										
21 Enterprises reporting.....enterprises..	20	19	2	.....	2	17	11	6	.....	1
22 Cost.....dollars..	2,185	1,785	28	.....	28	1,757	1,689	68	.....	400
23 Area supplied supplemental irrigation.....acres..	2,352	2,257	69	.....	69	2,188	2,127	61	.....	95
24 Cost per acre supplied.....dollars..	0.93	0.79	0.41	.....	0.41	0.80	0.79	1.11	.....	4.21
Cost to farms for purposes other than operation and maintenance: ⁵										
25 Enterprises reporting.....enterprises..	4	4	1	.....	1	1	1	.....	3	.....
26 Cost.....dollars..	15,521	15,521	4,960	.....	4,960	44	44	.....	10,517	.....
27 Area irrigated direct.....acres..	14,980	14,980	3,996	.....	3,996	80	80	.....	10,904	.....
28 Cost per acre irrigated.....dollars..	1.04	1.04	1.24	.....	1.24	0.55	0.55	.....	0.96	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁵										
29 Enterprises reporting.....enterprises..	1	1	.....	.....	.....	1	1	.....	.....	.....
30 Amount.....dollars..	100	100	.....	.....	.....	100	100	.....	.....	.....
31 Area irrigated direct.....acres..	49	49	.....	.....	.....	49	49	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950										
32 Single-farm enterprises.....enterprises..	126	94	48	13	35	33	18	15	13	32
33 Area irrigated.....acres..	15,666	10,286	4,874	2,708	2,166	3,712	2,669	1,043	1,700	5,380
34 Complete-system enterprises ⁷.....enterprises..	124	93	48	13	35	32	17	15	13	31
35 Area irrigated.....acres..	14,638	9,258	4,874	2,708	2,166	2,684	1,641	1,043	1,700	5,380
Other farms irrigated:										
36 Enterprises reporting.....number..	3	1	.....	.....	.....	.....	.....	.....	1	2
37 Number of other farms.....farms..	7	3	.....	.....	.....	.....	.....	.....	3	4
38 Area irrigated in other farms.....acres..	602	72	.....	.....	.....	.....	.....	.....	72	530
Enterprises by origin of water supply: ⁷										
39 No water from other enterprises.....enterprises reporting..	125	93	48	13	35	32	17	15	13	32
40 acres irrigated..	14,638	9,258	4,874	2,708	2,166	2,684	1,641	1,043	1,700	5,380
41 Part of water from other enterprises.....enterprises reporting..	1	1	.....	.....	.....	1	1	.....	.....	.....
42 acres irrigated..	1,028	1,028	.....	.....	.....	1,028	1,028	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
44 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:										
45 All primary.....enterprises reporting..	117	87	48	13	35	26	16	10	13	30
46 acres irrigated..	15,265	9,980	4,874	2,708	2,166	3,406	2,404	1,002	1,700	5,285
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	8	7	.....	.....	.....	7	2	5	.....	1
51 acres irrigated..	401	306	.....	.....	.....	306	265	41	.....	95
Enterprises by number of acres irrigated: ⁷										
52 None.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....	.....	1
53 1-9 acres.....enterprises reporting..	24	23	13	2	11	10	6	4	.....	1
54 10-29 acres.....enterprises reporting..	28	25	14	4	10	9	3	6	2	3
55 30-59 acres.....enterprises reporting..	11	8	4	2	2	2	1	1	2	3
56 60-99 acres.....enterprises reporting..	14	8	5	1	4	.....	.....	.....	3	6
57 100-199 acres.....enterprises reporting..	25	14	6	.....	6	5	3	2	3	11
58 200-499 acres.....enterprises reporting..	16	12	3	2	1	6	4	2	3	4
59 500-999 acres.....enterprises reporting..	5	2	2	1	1	.....	.....	.....	.....	3
60 1,000 acres or more.....enterprises reporting..	2	2	1	.....	.....	1	1	.....	.....	.....

¹Includes data for less than 3 enterprises in the Sacramento River Basin (V-B-1c). 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	Gulf of California	Colorado River below Lees Ferry, Arizona excluding Gila River (Little Colorado River) (IV-B-4b)	Gila River (Gila River direct) (IV-C-1d)	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)			
					Total ¹	San Juan River direct (2a)	La Plata River (2d)	Animas River (2e)
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ⁴.....enterprises..	620	88	3	26	59	33	9	15
2 Area irrigated direct.....acres..	384,210	48,029	3,281	7,350	37,398	20,624	3,819	12,395
3 Multiple-purpose enterprises ⁴.....enterprises..	61	26	1	2	23	7	4	12
4 Area irrigated direct.....acres..	173,662	24,132	505	896	22,731	10,071	1,900	10,760
5 Complete-system enterprises ⁴.....enterprises..	565	77	3	24	50	29	9	12
6 Area irrigated direct.....acres..	190,124	36,343	3,281	7,304	25,758	12,094	3,819	9,845
7 Enterprises by origin of water supply: ⁴								
8 No water from other enterprises.....enterprises reporting..	588	83	3	26	54	31	9	14
9 acres irrigated..	344,641	46,355	3,281	7,350	35,724	19,960	3,819	12,945
10 Part of water from other enterprises.....enterprises reporting..	10	2			2			
11 acres irrigated..	34,236	560			560			
12 All water from other enterprises.....enterprises reporting..	22	3			3	2		1
acres irrigated..	5,333	1,114			1,114	664		450
13 Enterprises by delivery of irrigation water: ⁴								
14 No water delivered.....enterprises reporting..								
15 Water delivered direct to farms only.....enterprises reporting..	592	80	3	23	54	32	9	12
16 acres irrigated..	228,411	39,186	3,281	6,967	28,938	16,541	3,819	8,395
17 Water delivered to farms and to other enterprises.....enterprises reporting..	22	8		3	5	1		3
18 acres irrigated..	155,799	8,843		383	8,460	4,083		4,000
19 Water delivered to other enterprises only.....enterprises reporting..	6							
20 Enterprises by primary and supplemental irrigation: ⁵								
21 All primary.....enterprises reporting..	563	84	3	24	57	33	9	13
22 acres irrigated..	329,804	44,753	3,281	7,274	34,198	20,624	3,819	9,195
23 Part primary, part supplemental.....enterprises reporting..	30	2			2			2
24 Primary irrigation.....acres irrigated..	41,245	1,900			1,900			1,900
25 Supplemental irrigation.....acres irrigated..	9,722	1,300			1,300			1,300
26 All supplemental.....enterprises reporting..	21	2		2				
acres irrigated..	3,439	76		76				
27 Enterprises by number of farms irrigated direct: ⁴								
28 None.....enterprises reporting..	6							
29 1-3.....enterprises reporting..	97	20	1	10	9	6	2	
30 4-9.....enterprises reporting..	175	20		10	10	3	6	1
31 10-29.....enterprises reporting..	237	28	1	5	22	13	1	8
32 30-99.....enterprises reporting..	89	15		1	14	7		6
33 100-299.....enterprises reporting..	11	3			3	3		
34 300-999.....enterprises reporting..	3	2	1		1	1		
35 1,000 or more.....enterprises reporting..	2							
36 Enterprises by acres irrigated direct: ⁴								
37 None.....enterprises reporting..	6							
38 1-99 acres.....enterprises reporting..	258	23	1	11	11	10	1	
39 100-999 acres.....enterprises reporting..	311	49	1	12	36	17	8	10
40 1,000-2,999 acres.....enterprises reporting..	28	13	1	3	9	4		5
41 3,000-9,999 acres.....enterprises reporting..	13	3			3	2		
42 10,000-29,999 acres.....enterprises reporting..	2							
43 30,000 or more.....enterprises reporting..	2							
44 Quantities of water reported, 1949: ⁵								
45 Total obtained from all sources ⁶.....enterprises reporting..	599	84	2	24	58	32	9	15
46 percent of all enterprises reporting..	17	40	40	20	66	57	90	83
47 Surface sources.....acres-foot..	2,177,754	297,009	3,408	38,137	255,464	109,344	13,599	77,413
48 reporting..	573	81	2	24	55	30	9	14
49 Pumped wells.....acres-foot..	2,032,115	258,842	3,408	36,725	218,709	106,344	13,599	73,113
50 reporting..	6	1						
51 Other enterprises.....acres-foot..	21,072	1,412		1,412				
52 reporting..	26	5			5	2		1
53 Conveyance loss ⁶.....acres-foot..	124,567	36,755			36,755	3,000		4,300
54 reporting..	596	84	2	24	58	32	9	15
55 acre-foot..	612,425	56,816	348	7,042	49,426	19,060	1,959	14,813
56 Delivered: ⁶								
57 Direct to farms.....enterprises reporting..	593	84	2	24	58	32	9	15
58 acre-foot..	1,230,618	197,763	3,060	29,899	164,804	73,172	11,640	50,148
59 To other enterprises.....enterprises reporting..	26	7		2	5	1		3
60 acre-foot..	266,517	21,508		996	20,512	3,300		5,542
61 For use other than irrigation.....enterprises reporting..	44	14		1	13	8		5
62 acre-foot..	68,194	20,922		200	20,722	13,812		6,910
63 Delivered direct to farms for primary irrigation: ⁵								
64 Enterprises reporting.....enterprises..	570	83	2	23	58	32	9	15
65 Quantity delivered.....acre-foot..	965,011	160,977	3,060	25,243	132,674	73,172	11,640	45,544
66 Area supplied primary irrigation.....acres..	346,687	43,666	524	7,255	35,887	20,413	3,819	11,095
67 Quantity supplied per acre.....acre-foot..	2.8	3.7	5.8	3.5	3.7	3.6	3.0	4.1
68 Delivered direct to farms for supplemental irrigation: ⁵								
69 Enterprises reporting.....enterprises..	49	3		1	2			2
70 Quantity delivered.....acre-foot..	23,453	4,760		156	4,604			4,604
71 Area supplied supplemental irrigation.....acres..	12,816	1,331		31	1,300			1,300
72 Quantity supplied per acre.....acre-foot..	1.8	3.6		5.0	3.5			3.5
73 Total quantity per irrigated acre.....acre-foot..	2.9	3.8	5.8	3.5	3.8	3.6	3.0	4.6
74 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵								
75 Cost for primary irrigation.....dollars..	1,545,622	131,405	1,589	29,921	99,895	52,465	6,513	39,927
76 Average cost per acre-foot.....dollars..	1.60	0.82	0.52	1.19	0.75	0.72	0.56	0.88
77 Cost for supplemental irrigation.....dollars..	34,077	6,325		500	5,825			5,825
78 Average cost per acre-foot.....dollars..	1.45	1.33		3.21	1.27			1.27
79 Measurement of water to farms, 1949: ⁵								
80 No water measured.....enterprises reporting..	569	66	2	23	41	30	4	6
81 acres irrigated..	200,456	32,439	2,776	6,825	22,838	16,474	1,391	4,790
82 Part of water measured.....enterprises reporting..	6	2			2			1
83 acres irrigated..	108,216	1,050			1,050		600	450
84 All water measured.....enterprises reporting..	24	15	1	1	13	2	4	6
85 acres irrigated..	70,250	13,350	505	464	12,381	4,113	1,828	6,063

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.]

Gulf of Mexico excluding Mississippi River	Rio Grande below Fort Quitman, Texas (Pecos River) (V-B)					Rio Grande above Fort Quitman, Texas (V-C)						
	Total	Pecos River direct				Total	Rio Grande direct				Mimbres Valley (2)	
		Total?	Below Acme	Above Alamogordo Dam	Gallinas River		Total	Below San Marcial	San Marcial to Otowi Bridge	Above Otowi Bridge		
			(2b)	(2d)	(2g)			(1a)	(1b)	(1c)		
450	71	61	30	30	10	379	72	6	23	43	15	1
279,041	55,673	49,534	40,848	4,095	6,139	223,368	164,422	86,406	61,603	16,413	1,338	2
35	4	4	2	2	2	31	12	6	6	1	3	3
149,530	2,925	2,925	2,643	282	27	146,605	137,652	86,406	51,246	40	300	4
409	59	51	23	27	8	350	60	5	15	15	15	5
104,289	28,906	27,177	18,531*	4,055	1,729	75,383	19,810	1,210	3,097	15,503	1,338	6
424	68	59	29	29	9	356	62	6	16	40	15	7
245,446	33,625	27,762	19,091	4,080	5,863	211,821	155,709	86,406	53,800	15,503	1,338	8
7	1	1	1	1	1	6	6	1	6	1	1	9
29,376	21,757	21,757	21,757	1	1	7,619	7,619	1	7,619	1	1	10
19	2	2	2	2	2	17	4	1	1	3	3	11
4,219	291	15	15	15	276	3,928	1,094	1	184	910	1	12
432	59	50	21	28	9	373	70	5	22	43	15	13
135,433	48,503	46,498	37,837	4,070	2,005	86,930	28,523	1,210	10,900	16,413	1,338	14
12	8	7	6	1	1	4	2	1	1	1	1	15
143,608	7,170	3,036	3,011	25	4,134	136,438	135,899	85,196	50,703	1	1	16
6	4	3	3	1	1	2	2	1	1	1	1	17
407	62	53	23	29	9	345	63	4	23	36	11	19
231,791	27,243	25,238	16,552	4,095	2,005	204,548	158,516	86,106	58,305	14,105	932	20
19	5	4	4	3	1	14	4	1	1	3	3	21
37,416	25,871	22,237	22,237	3,634	500	11,545	3,863	100	2,798	965	1	22
7,771	2,559	2,059	2,059	1	1	5,212	1,513	100	500	913	1	23
16	1	1	1	1	1	16	5	1	1	4	4	24
2,063	4	4	3	1	2	2,063	530	100	430	406	406	25
6	4	4	3	1	1	2	2	1	1	1	1	26
60	9	9	6	3	3	51	3	1	1	2	4	27
134	24	22	12	10	2	110	11	7	7	4	10	28
169	26	19	6	13	7	145	30	4	5	21	1	29
71	6	5	2	3	1	63	22	1	5	16	1	30
7	2	2	1	1	1	5	4	1	4	1	1	31
1	1	1	1	1	1	1	1	1	1	1	1	32
2	1	1	1	1	1	2	2	1	1	1	1	33
6	4	4	3	1	2	2	2	1	1	1	1	34
201	29	26	12	14	3	172	17	10	7	7	12	35
220	31	25	10	15	6	189	46	5	9	32	3	36
15	3	3	3	1	1	12	6	2	2	4	4	37
5	3	2	1	1	1	2	1	1	1	1	1	38
1	1	1	1	1	1	1	1	1	1	1	1	39
2	1	1	1	1	1	2	2	1	1	1	1	40
436	70	60	30	29	10	366	67	6	18	43	14	41
14	7	6	3	71	62	35	27	5	24	88	5	42
1,748,896	266,830	254,548	153,356	86,547	12,282	1,482,066	1,371,698	929,510	401,590	40,588	3,770	43
413	64	55	26	28	9	349	63	6	17	40	14	44
1,641,424	171,709	159,858	58,696	86,517	11,851	1,469,715	1,365,281	929,510	397,582	38,189	3,770	45
5	5	5	5	5	5	5	5	5	5	5	5	46
19,660	19,660	19,660	19,660	19,660	19,660	19,660	19,660	19,660	19,660	19,660	19,660	47
21	3	2	1	1	1	18	5	2	2	3	3	48
87,812	75,461	75,030	75,000	30	431	12,351	6,417	4,008	2,409	14	14	49
433	67	57	29	366	10	67	67	6	43	43	14	50
511,384	53,071	48,005	43,174	2,634	5,066	458,313	428,059	334,640	81,945	11,474	748	51
430	66	56	27	28	10	364	67	6	18	43	14	52
971,497	128,191	121,406	100,075	8,883	6,785	843,306	773,787	466,950	279,465	27,372	3,022	53
18	12	11	9	2	1	6	2	1	1	1	1	54
243,199	77,291	76,860	1,830	75,030	431	165,908	157,300	117,300	40,000	1	1	55
29	2	2	2	2	2	27	10	3	3	4	4	56
22,816	8,277	8,277	8,277	8,277	8,277	14,539	12,552	10,620	180	1,752	1	57
409	65	56	27	28	9	344	60	5	16	39	10	58
744,580	121,980	116,810	95,479	8,883	5,170	622,600	560,219	262,700	272,125	25,394	1,842	59
256,327	51,780	46,991	38,789	3,611	4,789	204,547	155,368	86,206	54,092	15,070	871	60
2.9	2.4	2.5	2.5	2.5	1.1	3.0	3.6	3.0	5.0	1.7	2.1	61
34	5	4	4	1	1	29	9	2	7	7	4	62
15,499	5,086	4,596	4,596	490	1	10,413	4,568	250	2,340	1,978	1,180	63
9,534	2,559	2,059	2,059	500	1.0	6,975	2,043	200	500	1,343	406	64
1.6	2.0	2.2	2.2	1.0	1.5	1.5	2.2	1.2	4.7	1.5	2.9	65
2.9	2.5	2.6	2.6	2.5	1.2	3.0	3.6	3.0	5.0	1.8	2.2	66
1,300,713	273,970	260,045	204,524	15,531	13,925	1,026,743	899,910	600,417	261,535	37,958	3,490	67
1.75	2.25	2.23	2.14	1.75	2.69	1.65	1.61	2.28	0.96	1.49	1.89	68
26,017	9,686	8,111	8,111	1,575	3.21	16,331	5,116	500	2,250	2,366	1,672	69
1.68	1.76	1.76	1.76	3.21	1.57	1.57	1.12	2.00	0.96	1.20	1.42	70
427	67	58	28	29	9	360	68	5	20	43	13	71
150,191	20,303	18,298	9,612	4,095	2,005	129,888	78,881	1,210	61,258	16,413	1,218	72
3	1	1	1	1	1	3	1	1	1	1	1	73
86,517	3	2	2	2	1	86,517	85,196	85,196	85,196	85,196	85,196	74
5	3	2	2	2	1	5	1	1	1	1	1	75
38,705	35,370	31,236	31,236	4,134	3,335	3,335	301	301	301	301	301	76

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Rio Grande above Fort Quitman, Texas (V-C)—Continued								
		Tularosa and Estancia Valleys (3)	Rio Puerco (4)	Tesuque Creek (5)	Santa Cruz River (6)	Rio Chama (7)	Embudo River (8)	Rio Pueblo de Taos (9)	Costilla Creek (10)	San Antonio and Conejos Rivers (11)
MULTIPLE-FARM ENTERPRISES, 1950										
1	Multiple-farm enterprises, total number ⁴.....enterprises..	10	25	30	36	113	43	25	9	4
2	Area irrigated direct.....acres..	3,489	9,226	2,710	3,902	17,029	6,741	11,934	2,304	273
3	Multiple-purpose enterprises ⁴.....enterprises..	2	15	.....	1	1	.....	.....	.....	.....
4	Area irrigated direct.....acres..	2,571	6,082	.....	.....	.....	.....	.....	.....	.....
5	Complete-system enterprises ⁴.....enterprises..	8	25	30	21	112	41	25	9	4
6	Area irrigated direct.....acres..	3,090	9,226	2,710	1,568	17,029	6,101	11,934	2,304	273
Enterprises by origin of water supply: ⁴										
7	No water from other enterprises.....enterprises reporting..	10	25	30	22	113	42	25	9	4
8	acres irrigated.....	3,489	9,226	2,710	1,568	17,029	6,241	11,934	2,304	273
9	Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	acres irrigated.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11	All water from other enterprises.....enterprises reporting..	.....	.....	.....	14	.....	1	.....	.....	.....
12	acres irrigated.....	.....	.....	.....	2,334	.....	500	.....	.....	.....
Enterprises by delivery of irrigation water: ⁴										
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	8	25	30	35	112	42	25	9	4
15	acres irrigated.....	3,090	9,226	2,710	3,902	17,029	6,601	11,934	2,304	273
16	Water delivered to farms and to other enterprises.....enterprises reporting..	1	.....	.....	.....	1	1	.....	.....	.....
17	acres irrigated.....	399	.....	.....	.....	.....	140	.....	.....	.....
18	Water delivered to other enterprises only.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation: ⁵										
19	All primary.....enterprises reporting..	8	21	28	32	106	39	24	9	4
20	acres irrigated.....	1,317	4,345	2,410	3,640	14,231	6,196	10,384	2,304	273
21	Part primary, part supplemental.....enterprises reporting..	1	4	.....	1	2	1	1	.....	.....
22	Primary irrigation.....acres irrigated.....	1,872	3,881	.....	62	1,241	169	457	.....	.....
23	Supplemental irrigation.....acres irrigated.....	300	1,000	.....	200	900	206	1,093	.....	.....
24	All supplemental.....enterprises reporting..	.....	.....	2	.....	4	1	.....	.....	.....
25	acres irrigated.....	.....	.....	300	.....	657	170	.....	.....	.....
Enterprises by number of farms irrigated direct: ⁴										
26	None.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....	.....
27	1-3.....enterprises reporting..	2	4	3	5	25	2	1	.....	2
28	4-9.....enterprises reporting..	3	6	11	7	47	6	3	4	2
29	10-29.....enterprises reporting..	3	10	14	13	35	22	12	5	.....
30	30-99.....enterprises reporting..	1	3	2	10	5	13	9	.....	.....
31	100-299.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	.....	.....
32	300-999.....enterprises reporting..	.....	1	.....	.....	.....	.....	.....	.....	.....
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....	.....	.....
Enterprises by acres irrigated direct: ⁴										
34	None.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....	.....
35	1-99 acres.....enterprises reporting..	2	9	19	21	65	18	4	2	3
36	100-999 acres.....enterprises reporting..	6	14	11	14	45	25	19	7	1
37	1,000-2,999 acres.....enterprises reporting..	1	1	.....	.....	2	.....	2	.....	.....
38	3,000-9,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
39	10,000-29,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	30,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....	.....	.....
Quantities of water reported, 1949:										
41	Total obtained from all sources ⁶.....enterprises reporting..	9	23	30	36	113	42	22	9	4
42	percent of all enterprises reporting..	5	53	94	92	70	86	73	100	80
43	Surface sources.....enterprises reporting..	5,136	21,150	6,459	20,468	398,124	12,558	15,674	3,142	612
44	acres-foot.....	5,136	21,150	6,459	13,656	398,124	11,711	15,674	3,142	612
45	Pumped wells.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
46	acres-foot.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
47	Other enterprises.....enterprises reporting..	.....	.....	.....	14	.....	1	.....	.....	.....
48	acres-foot.....	.....	.....	.....	6,812	.....	847	.....	.....	.....
49	Conveyance loss ⁶.....enterprises reporting..	9	23	30	36	113	42	22	9	4
50	acres-foot.....	641	4,245	1,724	7,443	80,724	3,594	5,576	1,008	126
Delivered: ⁶										
52	Direct to farms.....enterprises reporting..	8	23	30	35	113	42	22	9	4
53	acres-foot.....	3,330	16,665	3,951	5,529	277,400	8,117	10,035	2,134	486
54	To other enterprises.....enterprises reporting..	2	.....	.....	1	.....	1	.....	.....	.....
55	acres-foot.....	265	.....	.....	7,496	40,000	847	.....	.....	.....
56	For use other than irrigation.....enterprises reporting..	1	3	12	.....	.....	.....	1	.....	.....
57	acres-foot.....	900	240	784	.....	.....	.....	63	.....	.....
Delivered direct to farms for primary irrigation: ⁵										
58	Enterprises reporting.....enterprises..	8	23	28	33	108	39	22	9	4
59	Quantity delivered.....acres-foot..	3,330	15,353	3,441	4,078	16,123	6,505	9,089	2,134	486
60	Area supplied primary irrigation.....acres..	1,317	8,006	2,410	3,702	15,472	6,171	8,653	2,304	273
61	Quantity supplied per acre.....acres-foot..	2.5	1.9	1.4	1.1	1.0	1.1	1.1	0.9	1.8
Delivered direct to farms for supplemental irrigation: ⁵										
62	Enterprises reporting.....enterprises..	.....	4	.....	2	6	2	1	.....	.....
63	Quantity delivered.....acres-foot..	.....	1,312	510	301	1,277	319	946	.....	.....
64	Area supplied supplemental irrigation.....acres..	.....	1,000	300	200	1,557	376	1,093	.....	.....
65	Quantity supplied per acre.....acres-foot..	.....	1.3	1.7	1.5	0.8	0.8	0.9	.....	.....
66	Total quantity per irrigated acre ⁷.....acres-foot..	.....	2.1	1.6	1.2	1.1	1.1	1.2	0.9	1.8
Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵										
67	Cost for primary irrigation.....dollars..	2,345	30,555	8,114	33,349	26,236	15,884	4,614	1,765	481
68	Average cost per acre-foot.....dollars..	0.70	1.99	2.35	8.18	1.63	2.44	0.51	0.83	0.99
69	Cost for supplemental irrigation.....dollars..	.....	4,171	550	1,718	2,514	387	203	.....	.....
70	Average cost per acre-foot.....dollars..	.....	3.18	1.08	5.71	1.97	1.21	0.21	.....	.....
Measurement of water to farms, 1949: ⁵										
71	No water measured.....enterprises reporting..	10	20	29	35	111	40	24	9	4
72	acres irrigated.....	3,489	4,205	2,524	3,886	16,207	6,102	10,799	2,304	273
73	Part of water measured.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
74	acres irrigated.....	.....	.....	186	.....	.....	.....	1,135	.....	.....
75	All water measured.....enterprises reporting..	.....	1	.....	.....	.....	.....	.....	.....	.....
76	acres irrigated.....	.....	3,034	.....	.....	.....	.....	.....	.....	.....

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

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

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

Item (For definitions and explanations, see text)	Mississippi River (Arkansas River) (VI-P)								
	Total	Canadian River							Cimarron River (2e)
		Total	Canadian River direct			Mora River			
			Total	Below Conchas Reservoir ² (2a)	Above Conchas Reservoir (2b)	Total	Direct (2c)	Sapello Creek (2d)	
MULTIPLE-FARM ENTERPRISES, 1950									
1 Multiple-farm enterprises, total number ¹.....enterprises..	84	84	7	1	6	72	51	21	6
2 Area irrigated direct.....acres..	57,140	57,140	25,900	20,649	5,251	12,555	11,041	1,514	18,685
3 Multiple-purpose enterprises ⁴.....enterprises..									
4 Area irrigated direct.....acres..									
5 Complete-system enterprises ⁴.....enterprises..	81	81	7	1	6	71	50	21	4
6 Area irrigated direct.....acres..	49,492	49,492	25,900	20,649	5,251	12,502	10,988	1,514	11,090
7 Enterprises by origin of water supply: ⁴									
8 No water from other enterprises.....enterprises reporting..	83	83	7	1	6	72	51	21	5
9 acres irrigated.....acres..	52,840	52,840	25,900	20,649	5,251	12,555	11,041	1,514	14,385
10 Part of water from other enterprises.....enterprises reporting..	1	1							1
11 acres irrigated.....acres..	4,300	4,300							4,300
12 All water from other enterprises.....enterprises reporting..									
13 acres irrigated.....acres..									
14 Enterprises by delivery of irrigation water: ⁴									
15 No water delivered.....enterprises reporting..									
16 Water delivered direct to farms only.....enterprises reporting..	82	82	7	1	6	71	50	21	5
17 acres irrigated.....acres..	53,792	53,792	25,900	20,649	5,251	12,502	10,988	1,514	15,390
18 Water delivered to farms and to other enterprises.....enterprises reporting..	2	2				1	1		1
19 acres irrigated.....acres..	3,348	3,348				53	53		3,295
20 Water delivered to other enterprises only.....enterprises reporting..									
21 Enterprises by primary and supplemental irrigation: ⁵									
22 All primary.....enterprises reporting..	72	72	5	1	4	62	42	20	6
23 acres irrigated.....acres..	53,260	53,260	25,682	20,649	5,033	8,893	7,481	1,412	18,685
24 Part primary, part supplemental.....enterprises reporting..	9	9	2			7	6	1	
25 Primary irrigation.....acres irrigated..	1,929	1,929	149		149	1,780	1,698	82	
26 Supplemental irrigation.....acres irrigated..	651	651	69		69	582	562	20	
27 All supplemental.....enterprises reporting..	3	3				3	3		
28 acres irrigated.....acres..	1,300	1,300				1,300	1,300		
29 Enterprises by number of farms irrigated direct: ⁴									
30 None.....enterprises reporting..									
31 1-3.....enterprises reporting..	17	17				15	4	11	2
32 4-9.....enterprises reporting..	21	21	4		4	17	10	7	
33 10-29.....enterprises reporting..	39	39	1		1	37	34	3	1
34 30-99.....enterprises reporting..	6	6	1		1	3	3		3
35 100-299.....enterprises reporting..	1	1	1		1				
36 300-999.....enterprises reporting..									
37 1,000 or more.....enterprises reporting..									
38 Enterprises by acres irrigated direct: ⁴									
39 None.....enterprises reporting..									
40 1-99 acres.....enterprises reporting..	34	34	3		3	31	14	17	
41 100-999 acres.....enterprises reporting..	44	44	2		2	41	37	4	1
42 1,000-9,999 acres.....enterprises reporting..									
43 3,000-9,999 acres.....enterprises reporting..	5	5	1		1				5
44 10,000-29,999 acres.....enterprises reporting..	1	1	1		1				
45 30,000 acres or more.....enterprises reporting..									
46 Quantities of water reported, 1949: ⁶									
47 Total obtained from all sources ⁶.....enterprises reporting..	81	81	6	1	5	72	51	21	4
48 percent of all enterprises reporting..	39	46	11	7	12	69	74	58	21
49 Surface sources.....acres-foot..	133,774	133,774	88,665	78,802	9,863	28,465	25,918	2,547	25,215
50 Pumped wells.....acres-foot..	81	81	6	1	5	72	51	21	4
51 Other enterprises.....acres-foot..	133,774	133,774	88,665	78,802	9,863	28,465	25,918	2,547	25,215
52 Conveyance loss ⁶.....acres-foot..	81	81	6	1	5	72	51	21	4
53 Delivered: ⁶	44,860	44,860	30,032	26,954	3,078	9,280	8,486	794	8,119
54 Direct to farms.....acres-foot..	81	81	6	1	5	72	51	21	4
55 To other enterprises.....acres-foot..	62,648	62,648	34,177	27,392	6,785	17,375	15,622	1,753	17,096
56 For use other than irrigation.....acres-foot..	1,810	1,810				1,810	1,810		
57 Delivered direct to farms for primary irrigation: ⁵	24,456	24,456	24,456	24,456					
58 Enterprises reporting.....enterprises..	78	78	6	1	5	69	48	21	4
59 Quantity delivered.....acres-foot..	59,454	59,454	31,751	27,392	4,359	14,327	12,592	1,735	13,376
60 Area supplied primary irrigation.....acres..	46,694	46,694	24,931	20,649	4,282	10,673	9,179	1,494	11,090
61 Quantity supplied per acre.....acres-foot..	1.3	1.3	1.3	1.3	1.0	1.3	1.4	1.2	1.2
62 Delivered direct to farms for supplemental irrigation: ⁵									
63 Enterprises reporting.....enterprises..	12	12	2		2	10	9	1	
64 Quantity delivered.....acres-foot..	3,194	3,194	146		146	3,048	3,030	18	
65 Area supplied supplemental irrigation.....acres..	1,951	1,951	69		69	1,882	1,862	20	
66 Quantity supplied per acre.....acres-foot..	1.6	1.6	2.1		2.1	1.6	1.6	0.9	
67 Total quantity per irrigated acre ⁷.....acres-foot..	1.3	1.3	1.3	1.3	1.0	1.6	1.7	1.2	1.2
68 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵									
69 Cost for primary irrigation.....dollars..	113,504	113,504	80,078	63,468	16,610	9,267	8,166	1,101	24,159
70 Average cost per acre-foot.....dollars..	1.91	1.91	2.52	2.32	3.81	0.65	0.65	0.63	1.81
71 Cost for supplemental irrigation.....dollars..	1,735	1,735	28		28	1,707	1,689	18	
72 Average cost per acre-foot.....dollars..	0.54	0.54	0.19		0.19	0.56	0.56	1.00	
73 Measurement of water to farms, 1949: ⁵									
74 No water measured.....enterprises reporting..	77	77	5		5	70	49	21	2
75 acres irrigated.....acres..	17,826	17,826	1,255		1,255	12,085	10,571	1,514	4,486
76 Part of water measured.....enterprises reporting..	1	1	1		1				
77 acres irrigated.....acres..	20,649	20,649	20,649	20,649					
78 All water measured.....enterprises reporting..	4	4	1		1				4
79 acres irrigated.....acres..	18,195	18,195	3,996		3,996				14,199

¹Data for less than 3 enterprises in Drainage Basin IV-D-2f included only in totals.

²Data for less than 3 enterprises in Drainage Basin V-B-2c included only in totals.

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

⁴For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

⁵For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

⁶For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.

⁷Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

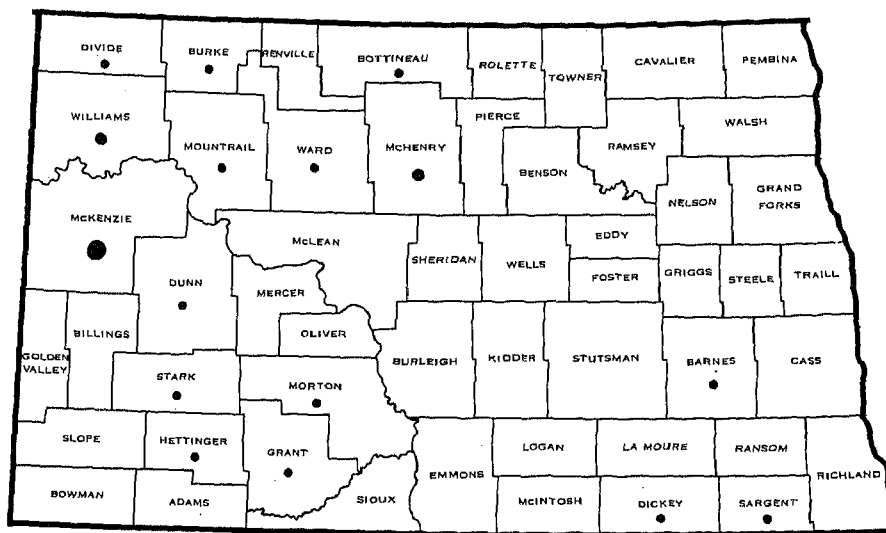
IRRIGATION OF AGRICULTURAL LANDS

NORTH DAKOTA

CONTENTS

[Page numbers listed here omit the State (or States) part number which appears as a prefix to the page number for each page. The part number for this State is 13]

	<i>Page</i>
Map:	
Acres of irrigated land, by counties, 1949.....	3
State table—	
1.—Irrigation summary: 1890 to 1950.....	4
2.—Characteristics of irrigation enterprises: 1920 to 1950.....	4
3.—Irrigation enterprises, number and characteristics, by type of enterprise: Censuses of 1950 and 1940.....	5
4.—Complete-system irrigation enterprises by surface, ground, gravity and pumped water; and by acreage irrigated: Census of 1950.....	8
County table—	
1.—Irrigated farms: Number, acreage, and other characteristics: Censuses of 1950 and 1945.....	11
2.—Irrigation enterprises: Number and characteristics, by counties: Censuses of 1950 and 1940:	
Part 1.....	12
Part 2.....	13
Part 3.....	14
Part 4.....	15
3.—Acreage irrigated, by drainage basin origin of water, and by counties in which acreage was located: Census of 1950.....	16
Drainage basin table—	
1.—Irrigation enterprises: Number and characteristics by drainage basins: Censuses of 1950 and 1940:	
Part 1.....	17
Part 2.....	18
Part 3.....	19
Part 4.....	20



LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 20,000 - 49,999 ACRES

NORTH DAKOTA: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1, 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	65,401	41,194,044	304	35,294	35,759	35	2,957,763
1945.....	69,520	41,001,158	206	22,814	(*)	(*)	(*)
1940.....	73,962	37,936,136	479	319,975	21,615	80	1,755,489
1935.....	84,606	39,118,136	273	411,759	(*)	(*)	(*)
1930.....	77,975	38,657,894	113	510,651	9,392	23	1,267,314
1920.....	77,690	36,214,751	340	(**)	12,072	30	1,857,118
1910.....	74,360	28,426,650	69	(**)	10,248	49	836,482
1900.....	45,332	15,542,640	54	4,872	(*)	(*)	16,980
1890.....	27,611	7,660,333	7	445	(*)	(*)	(*)

* Not available.

** Available data not comparable.

¹ Census of Agriculture.

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

³ Irrigated land from which crops were harvested plus 510 acres of irrigated land used only for pasture.

⁴ Irrigated land from which crops were harvested.

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

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

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

Item (For definitions and explanations, see text)	Census of—			
	1950	1940	1930	1920
Enterprises..... total number..	35	80	23	30
Enterprises by type:				
Single-farm..... number..	29	67	22	(*)
Mutual:				
Unincorporated..... number..				(*)
Incorporated..... number..	1	2		(*)
Commercial..... number..				(*)
District..... number..	4	3		(*)
U.S. Bureau of Reclamation ¹ number..		1	1	(*)
U.S. Bureau of Indian Affairs..... number..		7		(*)
State..... number..	1			(*)
City..... number..				(*)
Other..... number..				(*)
Irrigated land, total ² acres..	35,759	21,615	9,392	12,072
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres..	1,361	2,232	3,303	3,306
Mutual:				
Unincorporated..... acres..				
Incorporated..... acres..	(*)	500		
Commercial..... acres..				
District..... acres..	27,375	4,605		
U.S. Bureau of Reclamation ¹ acres..		14,131	6,089	8,766
U.S. Bureau of Indian Affairs..... acres..		147		
State..... acres..	(*)			
City..... acres..				
Other..... acres..				
Acreage irrigated, by source of water: ^{3, 5}				
Streams (and lakes)..... acres..	35,642	21,519	8,853	12,007
Springs..... acres..	27	49	8	
Flowing wells..... acres..				
Pumped wells..... acres..	41	47		
Sewage..... acres..				
Other and not reported..... acres..	56		531	65
Irrigated land artificially drained..... acres..	18,960	11,552	3,040	1,613
Irrigated land in need of drainage..... acres..	1,320	242	2,000	659
Irrigation works:				
Diversion dams..... total number..	15	19	9	26
Reservoirs..... number..	11	14	8	9
Total capacity (reported)..... acre-feet..	1,101	3,946	1,466	1,110
Reservoir dams..... total number..	11	14	10	11
Canals and ditches..... total length, miles..	193	159	87	151
Pipe lines..... total length, miles..	7	4	1	(*)
Flowing wells..... number..				
Pumped wells..... number..	4	11		
Average pumping lift (reported)..... feet..	23	25	(*)	(*)
Pumps..... number..	35	83	13	10
Average pumping lift from all sources..... feet..	(*)	17	24	
Capital investment, total..... dollars..	2,957,763	1,755,489	1,267,314	1,857,118
Capital investment by type of enterprise:				
Single-farm..... dollars..	104,977	54,732	55,091	81,693
Mutual:				
Unincorporated..... dollars..				
Incorporated..... dollars..	(*)	57,130		
Commercial..... dollars..				
District..... dollars..	241,100	234,600		
U.S. Bureau of Reclamation ¹ dollars..	1,393,237	1,393,237	1,212,223	1,775,425
U.S. Bureau of Indian Affairs..... dollars..	15,790	15,790		
State..... dollars..	(*)			
City..... dollars..				
Other..... dollars..				

* Not available.

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

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

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

⁴ Data for less than 3 enterprises not shown separately.

⁵ Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "Other mixed" with "Other and not reported."

⁶ Less than 0.5.

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

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

Item (For definitions and explanations, see text)	Type of enterprise				
	All types ¹	Single-farm	District	Operated by U.S. Bureau of Reclamation	Office of Indian Affairs
ENTERPRISES: FARMS AND LAND IRRIGATED					
Number of enterprises.....enterprises 1950..	35	29	4		7
.....1940..	80	67	3	1	
Farms irrigated direct per enterprise.....farms 1949..	8.8	1.0	53.2		
Area irrigated direct.....acres 1949..	35,766	1,361	27,375		
.....acres 1939..	21,615	2,232	4,605	14,131	147
Average per enterprise.....acres 1949..	1,022	47	6,844		
CHARACTERISTICS OF ENTERPRISES, 1949					
Multiple-purpose enterprises.....enterprises..					
Area irrigated direct.....acres..					
Complete-system enterprises.....enterprises..	34	28	4		
Area irrigated direct.....acres..	35,766	1,361	27,375		
Enterprises by origin of water supply:					
No water from other enterprises.....enterprises reporting..	35	29	4		
.....acres irrigated..	35,766	1,361	27,375		
Part of water from other enterprises.....enterprises reporting..					
.....acres irrigated..					
All water from other enterprises.....enterprises reporting..					
.....acres irrigated..					
Enterprises by delivery of irrigation water:					
No water delivered.....enterprises reporting..	1	1			
Water delivered direct to farms only.....enterprises reporting..	33	28	3		
.....acres irrigated..	20,581	1,361	12,190		
Water delivered to farms and to other enterprises.....enterprises reporting..	1		1		
.....acres irrigated..	15,185		15,185		
Water delivered to other enterprises only.....enterprises reporting..					
.....acres irrigated..					
Enterprises by primary and supplemental irrigation: ²					
All primary.....enterprises reporting..	33	27	4		
.....acres irrigated..	35,754	1,349	27,375		
Part primary, part supplemental.....enterprises reporting..	1	1			
Primary irrigation.....acres irrigated..	5	5			
Supplemental irrigation.....acres irrigated..	7	7			
All supplemental.....enterprises reporting..					
.....acres irrigated..					
Enterprises by number of farms irrigated direct:					
None.....enterprises reporting..	1	1			
1-3.....enterprises reporting..	28	28			
4-9.....enterprises reporting..	2		1		
10-29.....enterprises reporting..	1		1		
30-99.....enterprises reporting..	2		1		
100-299.....enterprises reporting..					
300-999.....enterprises reporting..	1		1		
1,000 or more.....enterprises reporting..					
Enterprises by acres irrigated direct:					
None.....enterprises reporting..	1	1			
1-29.....enterprises reporting..	14	14			
30-99.....enterprises reporting..	12	11			
100-499.....enterprises reporting..	3	3			
500-999.....enterprises reporting..	1		1		
1,000-2,999.....enterprises reporting..					
3,000-9,999.....enterprises reporting..	3		2		
10,000-29,999.....enterprises reporting..					
30,000 or more.....enterprises reporting..	1		1		
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949					
Surface water:					
Gravity only.....enterprises reporting..	12	10	1		
.....acres irrigated..	8,288	658	7,600		
Pumped only.....enterprises reporting..	20	17	2		
.....acres irrigated..	12,252	662	4,590		
Gravity and pumped.....enterprises reporting..	1		1		
.....acres irrigated..	15,185		15,185		
Ground water only (pumped from wells).....enterprises reporting..	2	2			
.....acres irrigated..	41	41			
Surface (gravity or pumped) and ground.....enterprises reporting..					
.....acres irrigated..					
Stored water:					
None stored.....enterprises reporting..	27	22	4		
.....acres irrigated..	35,341	966	27,375		
Part stored.....enterprises reporting..	3	3			
.....acres irrigated..	231	231			
All stored.....enterprises reporting..	5	4			
.....acres irrigated..	194	164			

¹Not available.

²Data for 1 incorporated mutual enterprise and for 1 State enterprise are included only under "all types." Data for 2 U.S. Bureau of Reclamation enterprises operated by water users and included only under other types of enterprises and under "all types."

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Type of enterprise				
	All types ¹	Single-farm	District	Operated by U.S. Bureau of Reclamation	Office of Indian Affairs
SOURCES OF SURFACE WATER, 1949²					
Streams (and lakes).....enterprises reporting..	28	22	4		
.....acres irrigated..	35,642	1,237	27,375		
Springs.....enterprises reporting..	3	3			
.....acres irrigated..	27	27			
Flowing wells.....enterprises reporting..					
.....acres irrigated..					
Drainage water.....enterprises reporting..	2	2			
.....acres irrigated..	56	56			
Sewage.....enterprises reporting..					
.....acres irrigated..					
Other sources.....enterprises reporting..					
.....acres irrigated..					
DRAINAGE OF IRRIGATED LAND, 1949					
Irrigated land drained:					
Enterprises reporting.....enterprises..	11	7	3		
Area supplied primary irrigation.....acres..	34,479	635	26,844		
Area artificially drained.....acres..	18,960	197	11,763		
Irrigated land in need of drainage:					
Enterprises reporting.....enterprises..	5	2	3		
Area supplied primary irrigation.....acres..	12,376	186	12,190		
Area in need of drainage.....acres..	1,320	70	1,250		
IRRIGATION WORKS, 1950					
Diversion dams.....enterprises reporting..	10	9	1		
.....dams..	15	14	1		
Diversion dams by material:					
Concrete or masonry.....dams..	2	2			
Timber.....dams..					
Earth and rock.....dams..	10	9	1		
Other, mixed, and not reported.....dams..	3	3			
Reservoirs.....enterprises reporting..	9	8			
.....reservoirs..	11	9			
Reservoirs for which capacity was reported.....number..	6	4			
.....total capacity, acre-feet..	1,101	381			
Reservoirs by capacity:					
1-99 acre-feet.....reservoirs..	3	3			
100-999 acre-feet.....reservoirs..	3	1			
1,000 acre-feet and over.....reservoirs..					
Reservoir dams by material:					
Concrete or masonry.....dams..	2	2			
Earth and rock.....dams..	5	5			
Other, mixed and not reported.....dams..	4	2			
Canals and ditches.....enterprises reporting..	9	3	4		
.....total length, miles..	193	1	132		
Pipelines and siphons.....enterprises reporting..	6	5	1		
.....total length, miles..	7	7	(3)		
Tunnels.....enterprises reporting..	1				
.....total length, feet..	200				
Flowing wells.....enterprises reporting..					
.....wells..					
Pumped wells.....enterprises reporting..	2	2			
.....wells..	4	4			
Wells for which pumping lift was reported.....wells..	4	4			
.....average pumping lift.....feet..	23	23			
Irrigation pumps.....enterprises reporting..	23	19	2		
.....pumps..	35	27	4		
Electric motors used for pumping.....enterprises reporting..	7	5	1		
.....electric motors..	14	8	3		
Other motors and engines used for pumping.....enterprises reporting..	18	16	1		
.....other motors and engines..	19	17	1		
SEASON OF IRRIGATION, 1949					
Water delivered only before July 1.....enterprises reporting..	9	8	1		
.....acres irrigated..	8,188	588	7,600		
Water delivered before and after July 1.....enterprises reporting..	19	15	3		
.....acres irrigated..	27,360	585	19,775		
Water delivered only after July 1.....enterprises reporting..	4	3			
.....acres irrigated..	157	127			
CAPITAL INVESTMENT, 1950 AND 1940					
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,755,489	54,732	234,600	1,393,237	15,790
New capital investment Jan. 1, 1940 to Jan. 1, 1950:					
Enterprises reporting.....enterprises 1950..	21	17	2		
.....dollars 1950..	1,202,274	50,245	6,500		
Area irrigated direct.....acres 1949..	12,592	972	4,590		
Total capital investment Jan. 1, 1950.....dollars 1950..	2,957,763	104,977	241,100	1,393,237	15,790
INDEBTEDNESS, 1950⁴					
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
Enterprises reporting.....enterprises..	3		2		
.....dollars..	1,416,460		868,460		
Area irrigated direct.....acres..	22,716		15,716		
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
Enterprises reporting.....enterprises..	2		2		
.....dollars..	3,153		3,153		
Area irrigated direct.....acres..	15,716		15,716		

¹Data for 1 incorporated mutual enterprise and for 1 State enterprise are included only under "all types." Data for 2 U. S. Bureau of Reclamation enterprises operated by water users are included only under other types of enterprises and under "all types."

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.

³Less than 0.5.

⁴Not reported by single-farm enterprises.

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 ¹	Single-farm	District	Operated by U.S. Bureau of Reclamation	Office of Indian Affairs
COST OF WATER TO FARMS, 1949²					
Total cost of water to farms:					
Enterprises reporting.....enterprises..	34	28	4		
Cost.....dollars..	112,235	3,359	84,574		
Area irrigated direct.....acres..	35,766	1,361	27,375		
Cost per acre irrigated direct.....dollars..	3.14	2.47	3.09		
Enterprises by cost per acre:					
Less than \$1.00.....enterprises reporting..	14	12	1		
.....acres irrigated..	8,348	718	7,600		
\$1.00-\$1.99.....enterprises reporting..	2	2			
.....acres irrigated..	130	130			
\$2.00-\$4.99.....enterprises reporting..	9	5	3		
.....acres irrigated..	26,911	136	19,775		
\$5.00-\$9.99.....enterprises reporting..	5	5			
.....acres irrigated..	362	362			
\$10.00 or more.....enterprises reporting..	4	4			
.....acres irrigated..	15	15			
Cost of water for primary irrigation:					
Enterprises reporting.....enterprises..	34	28	4		
Cost.....dollars..	112,235	3,359	84,574		
Area supplied primary irrigation.....acres..	35,759	1,354	27,375		
Cost per acre supplied.....dollars..	3.14	2.48	3.09		
Cost of water for supplemental irrigation:					
Enterprises reporting.....enterprises..	1	1			
Cost.....dollars..					
Area supplied supplemental irrigation.....acres..	7	7			
Cost per acre supplied.....dollars..					
Cost to farms for purposes other than operation and maintenance: ³					
Enterprises reporting.....enterprises..	2		2		
Cost.....dollars..	42,292		42,292		
Area irrigated direct.....acres..	15,716		15,716		
Cost per acre irrigated.....dollars..	2.69		2.69		
Arreage in payments by farms, Jan. 1, 1950: ³					
Enterprises reporting.....enterprises..	2		1		
Amount.....dollars..	2,387		681		
Area irrigated direct.....acres..	22,185		15,185		
QUANTITIES OF WATER REPORTED, 1949³					
Total obtained from all sources ⁴.....enterprises reporting..	5		4		
.....acre-feet..	288,727		258,579		
Surface sources.....enterprises reporting..	5		4		
.....acre-feet..	288,727		258,579		
Pumped wells.....enterprises reporting..					
.....acre-feet..					
Other enterprises.....enterprises reporting..					
.....acre-feet..					
Conveyance loss ⁴.....enterprises reporting..	4		3		
.....acre-feet..	120,975		108,900		
Delivered: ⁴					
Direct to farms.....enterprises reporting..	5		4		
.....acre-feet..	165,952		147,879		
To other enterprises.....enterprises reporting..	1		1		
.....acre-feet..	1,800		1,800		
For use other than irrigation.....enterprises reporting..					
.....acre-feet..					
Delivered direct to farms for primary irrigation:					
Enterprises reporting.....enterprises..	5		4		
Quantity delivered.....acre-feet..	83,877		65,804		
Area supplied primary irrigation.....acres..	34,375		27,375		
Quantity per acre supplied.....acre-feet..	2.4		2.4		
Delivered direct to farms for supplemental irrigation:					
Enterprises reporting.....enterprises..					
Quantity delivered.....acre-feet..					
Area supplied supplemental irrigation.....acres..					
Quantity per acre supplied.....acre-feet..					
Cost of water to farms for enterprises reporting quantity delivered:					
Cost for primary irrigation.....dollars..	108,876		84,574		
Average cost per acre-foot.....dollars..	1.30		1.29		
Cost for supplemental irrigation.....dollars..					
Average cost per acre-foot.....dollars..					
Measurement of water to farms:					
No water measured.....enterprises reporting..	4		3		
.....acres..	12,220		12,190		
Part of water measured.....enterprises reporting..	1		1		
.....acres..	15,185		15,185		
All water measured.....enterprises reporting..	1				
.....acres..	7,000				

¹ Data for 1 incorporated mutual enterprise and for 1 State enterprise are included only under "all types." Data for 2 U.S. Bureau of Reclamation enterprises operated by water users are included only under other types of enterprises and under "all types."

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

³ Not reported by single-farm enterprises.

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²			Acres irrigated ²		
		Surface ³		Mixed ⁴	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped				
ENTERPRISES: FARMS AND LAND IRRIGATED							
Number of enterprises.....enterprises..	34	12	19	3	26	4	4
Farms irrigated direct per enterprise.....farms..	9.1	3.4	6.1	50.7	1.2	2.0	67.0
Area irrigated.....acres..	35,766	8,288	12,252	15,226	794	1,128	33,844
Average per enterprise.....acres..	1,052	691	645	5,075	31	282	8,461
CHARACTERISTICS OF ENTERPRISES							
Multiple-purpose enterprises.....enterprises.....							
Area irrigated.....acres.....							
Type of enterprise:							
Single-farm.....enterprises..	28	10	16	2	25	3	
.....acres..	1,361	658	662	41	764	597	
Mutual:							
Unincorporated.....enterprises.....							
.....acres irrigated.....							
Incorporated.....enterprises.....							
.....acres irrigated.....							
Commercial.....enterprises.....							
.....acres irrigated.....							
District.....enterprises.....							
.....acres irrigated.....							
U.S. Bureau of Reclamation.....enterprises.....							
.....acres irrigated.....							
U.S. Bureau of Indian Affairs.....enterprises.....							
.....acres irrigated.....							
State.....enterprises..							
.....acres irrigated.....							
City.....enterprises.....							
.....acres irrigated.....							
Enterprises by primary and supplemental irrigation: ⁶							
All primary.....enterprises reporting..							
.....acres irrigated..							
Part primary, part supplemental.....enterprises reporting..							
.....acres irrigated..							
Primary irrigation.....acres irrigated..							
Supplemental irrigation.....acres irrigated..							
All supplemental.....enterprises reporting..							
.....acres irrigated..							
Enterprises by number of farms irrigated:							
1-3.....enterprises reporting..							
.....acres irrigated..							
4-9.....enterprises reporting..							
.....acres irrigated..							
10-29.....enterprises reporting..							
.....acres irrigated..							
30-99.....enterprises reporting..							
.....acres irrigated..							
100-299.....enterprises reporting..							
.....acres irrigated..							
300-999.....enterprises reporting..							
.....acres irrigated..							
1,000 and over.....enterprises reporting..							
.....acres irrigated..							
Enterprises by acreage irrigated:							
1-29.....enterprises reporting..							
.....acres irrigated..							
30-99.....enterprises reporting..							
.....acres irrigated..							
100-499.....enterprises reporting..							
.....acres irrigated..							
500-999.....enterprises reporting..							
.....acres irrigated..							
1,000-2,999.....enterprises reporting..							
.....acres irrigated..							
3,000-9,999.....enterprises reporting..							
.....acres irrigated..							
10,000-29,999.....enterprises reporting..							
.....acres irrigated..							
30,000 and over.....enterprises reporting..							
.....acres irrigated..							
USE OF SURFACE, GROUND, PUMPED AND STORED WATER							
Surface water:							
Gravity only.....enterprises reporting..							
.....acres irrigated..							
Pumped only.....enterprises reporting..							
.....acres irrigated..							
Gravity and pumped.....enterprises reporting..							
.....acres irrigated..							
Ground water only (pumped from wells).....enterprises reporting..							
.....acres irrigated..							
Surface (gravity or pumped) and ground.....enterprises reporting..							
.....acres irrigated..							
Stored water:							
None stored.....enterprises reporting..							
.....acres irrigated..							
Part stored.....enterprises reporting..							
.....acres irrigated..							
All stored.....enterprises reporting..							
.....acres irrigated..							

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.

⁴Includes data for 2 enterprises using ground water only.

⁵Data for less than 3 enterprises not shown separately.

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

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²			Acres irrigated ²		
		Surface ³		Mixed ⁴	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped				
SOURCES OF SURFACE WATER⁵							
Streams (and lakes).....enterprises reporting..	27	8	18	1	19	4	4
.....acres irrigated..	35,642	8,211	12,246	15,185	670	1,128	33,844
Springs.....enterprises reporting..	3	3			3		
.....acres irrigated..	27	27			27		
Flowing wells.....enterprises reporting..							
.....acres irrigated..							
Drainage water.....enterprises reporting..	2	1	1		2		
.....acres irrigated..	56	50	6		56		
Sewage.....enterprises reporting..							
.....acres irrigated..							
Other sources.....enterprises reporting..							
.....acres irrigated..							
DRAINAGE OF IRRIGATED LAND							
Irrigated land drained:							
Enterprises reporting.....enterprises..	11	3	7	1	5	2	4
.....acres..	34,479	7,984	11,310	15,185	138	497	33,844
Acres artificially drained.....acres..	18,960	5,225	11,135	2,600	138	59	18,763
Irrigated land in need of drainage:							
Enterprises reporting.....enterprises..	5	2	3		1	2	2
.....acres..	12,376	7,650	4,726		50	667	11,659
Acres in need of drainage.....acres..	1,320	900	420		50	320	950
IRRIGATION WORKS							
Diversion dams.....enterprises reporting..	10	8	2		8	1	1
.....dams..	15	13	2		12	2	1
Diversion dams by material:							
Concrete or masonry.....dams..	2	1	1		2		
Timber.....dams..							
Earth or rock.....dams..	10	10			9		1
Other, mixed, and not reported.....dams..	3	2	1		1	2	
Reservoirs.....enterprises reporting..	9	7	2		8	1	
.....reservoirs..	11	9	2		10	1	
Reservoirs for which capacity was reported.....reservoirs..	6	5	1		6		
.....total capacity, acre-feet..	1,101	1,089	12		1,101		
Reservoirs by capacity:							
1-99 acre-feet.....reservoirs..	3	2	1		3		
100-999 acre-feet.....reservoirs..	3	3			3		
1,000 acre-feet and over.....reservoirs..							
Reservoir dams by material:							
Concrete or masonry.....dams..	2	2			2		
Earth or rock.....dams..	5	3	2		4	1	
Other, mixed, and not reported.....dams..	4	4			4		
Canals and ditches.....enterprises reporting..	9	4	4	1	4		4
.....total length, miles..	193	9	86	99	8	5	181
Pipelines and siphons.....enterprises reporting..	6	2	4		3	3	
.....total length, miles..	7	4	3		5	2	
Tunnels.....enterprises reporting..	1				1		
.....total length, feet..	200	200			200		
Flowing wells.....enterprises reporting..							
.....wells..							
Pumped wells.....enterprises reporting..	2			2	2		
.....wells..	4			4	4		
Wells for which pumping lift was reported.....wells..	4			4	4		
.....Average pumping lift.....feet..	23			23	23		
Irrigation pumps.....enterprises reporting..	22	1	19	2	17	3	2
.....pumps..	34	1	29	4	21	7	6
Electric motors used for pumping.....enterprises reporting..	7		5	2	3	2	2
.....electric motors..	14		11	3	4	4	6
Other motors and engines used for pumping.....enterprises reporting..	18	1	16	1	16	2	6
.....other motors and engines..	19	1	17	1	16	3	
SEASON OF IRRIGATION							
Enterprises reporting and acreage irrigated:							
Water delivered only before July 1.....enterprises reporting..	9	6	3		7	1	1
.....acres irrigated..	8,188	8,128	60		227	361	7,600
Water delivered before and after July 1.....enterprises reporting..	19	3	13	3	13	3	3
.....acres irrigated..	27,360	117	12,017	15,226	349	767	26,244
Water delivered only after July 1.....enterprises reporting..	4	2	2		4		
.....acres irrigated..	157	42	115		157		
NEW CAPITAL INVESTMENT							
New capital investment Jan. 1, 1940 to Jan. 1, 1950:							
Enterprises reporting.....enterprises..	21	6	13	2	15	4	2
Amount.....dollars..	1,202,274	6,573	1,189,489	6,212	27,373	27,095	1,147,806
Area irrigated.....acres..	12,592	524	12,027	41	405	1,128	11,059
INDEBTEDNESS⁶							
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
Enterprises reporting.....enterprises..	3		2	1		1	2
Amount.....dollars..	1,416,460		570,000	846,460		22,000	1,394,460
Area irrigated.....acres..	22,716		7,531	15,185		531	22,185
Acreage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:							
Enterprises reporting.....enterprises..	2		1	1		1	1
Amount.....dollars..	3,153		2,000	1,153		2,000	1,153
Area irrigated.....acres..	15,716		531	15,185		531	15,185

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 Includes data for 2 enterprises using ground water only.
⁵ Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise; acreage represents acreage within the State.
⁶ Not reported by single-farm enterprises.
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IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²			Acres irrigated ²		
		Surface ³		Mixed ⁴	1 to 99	100 to 999	1,000 and over
		All gravity	All pumped				
COST OF WATER TO FARMS⁵							
Total cost of water to farms:							
Enterprises reporting.....enterprises..	34	12	19	3	26	4	4
Cost.....dollars..	112,235	2,944	41,376	67,915	2,528	2,611	107,096
Area irrigated.....acres..	35,766	8,288	12,252	15,226	794	1,128	33,844
Cost per acre irrigated.....dollars..	3.14	0.36	3.38	4.46	3.18	2.31	3.16
Enterprises by cost per acre:							
Less than \$1.00.....enterprises reporting..	14	12	2		12	1	1
.....acres irrigated..	8,348	8,288	60		387	361	7,600
\$1.00-\$1.99.....enterprises reporting..	2		2		1	1	
.....acres irrigated..	130		130		30	100	
\$2.00-\$4.99.....enterprises reporting..	9		7	2	5	1	3
.....acres irrigated..	26,911		11,686	15,225	136	531	26,244
\$5.00-\$9.99.....enterprises reporting..	5		5		4	1	
.....acres irrigated..	362		362		226	136	
\$10.00 or more.....enterprises reporting..	4		3	1	4		
.....acres irrigated..	15		14	1	15		
Cost of water for primary irrigation:							
Enterprises reporting.....enterprises..	34	12	19	3	26	4	4
Cost.....dollars..	112,235	2,944	41,376	67,915	2,528	2,611	107,096
Area supplied primary irrigation.....acres..	35,759	8,281	12,252	15,226	787	1,128	33,844
Cost per acre supplied.....dollars..	3.14	0.36	3.38	4.46	3.21	2.31	3.16
Cost of water for supplemental irrigation:							
Enterprises reporting.....enterprises..	1	1			1		
Cost.....dollars..							
Area supplied supplemental irrigation.....acres..	7	7			7		
Cost per acre supplied.....dollars..							
Cost to farms for purposes other than operation and maintenance: ⁶							
Enterprises reporting.....enterprises..	2		1	1		1	1
Cost.....dollars..	42,292		755	41,537		755	41,537
Area irrigated.....acres..	15,716		531	15,185		531	15,185
Cost per acre irrigated.....dollars..	2.69		1.42	2.74		1.42	2.74
Arrearage in payments by farms, Jan. 1, 1950: ⁶							
Enterprises reporting.....enterprises..	2		1	1			2
Amount.....dollars..	2,387		1,706	681			2,387
Area irrigated.....acres..	22,185		7,000	15,185			22,185
QUANTITIES OF WATER REPORTED⁶							
Total obtained from all sources ⁷.....enterprises reporting..	5	1	3	1		1	4
.....acre-feet..	288,727	10,000	59,927	218,800		1,615	287,112
Surface sources.....enterprises reporting..	5	1	3	1		1	4
.....acre-feet..	288,727	10,000	59,927	218,800		1,615	287,112
Pumped wells.....enterprises reporting..							
.....acre-feet..							
Other enterprises.....enterprises reporting..							
.....acre-feet..							
Conveyance loss ⁷.....enterprises reporting..	4		3	1		1	3
.....acre-feet..	120,975		26,475	94,500		318	120,657
Delivered: ⁷							
Direct to farms.....enterprises reporting..	5	1	3	1		1	4
.....acre-feet..	165,952	10,000	33,452	122,500		1,297	164,655
To other enterprises.....enterprises reporting..	1			1			1
.....acre-feet..	1,800			1,800			1,800
For use other than irrigation.....enterprises reporting..							
.....acre-feet..							
Delivered to farms for primary irrigation:							
Enterprises reporting.....enterprises..	5	1	3	1		1	4
Quantity delivered.....acre-feet..	83,877	10,000	33,452	40,425		1,297	82,590
Acreage supplied primary irrigation.....acres..	34,375	7,600	11,590	15,185		531	33,844
Quantity per acre supplied.....acre-feet..	2.4	1.3	2.9	2.7		2.4	2.4
Delivered to farms for supplemental irrigation:							
Enterprises reporting.....enterprises..							
Quantity delivered.....acre-feet..							
Acreage supplied supplemental irrigation.....acres..							
Quantity per acre supplied.....acre-feet..							
Cost of water to farms for enterprises reporting quantity delivered:							
Cost for primary irrigation.....dollars..	108,876	2,937	38,259	67,680		1,780	107,096
Average cost per acre-foot.....dollars..	1.30	0.29	1.14	1.67		1.37	1.30
Cost for supplemental irrigation.....dollars..							
Average cost per acre-foot.....dollars..							
Measurement of water to farms:							
No water measured.....enterprises reporting..	4	2	2		1	1	2
.....acres..	12,220	7,630	4,590		30	531	11,659
Part of water measured.....enterprises reporting..	1			1			1
.....acres..	15,185			15,185			15,185
All water measured.....enterprises reporting..	1		1				1
.....acres..	7,000		7,000				7,000

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 Includes data for 2 enterprises using ground water only.
⁵ Enterprises with reported cost of \$0 in 1949 are included.
⁶ Not reported by single-farm enterprises.
⁷ For interstate enterprises, data represent characteristics of the entire enterprise.

NORTH DAKOTA

13-11

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	Bottineau	McHenry	McKenzie	Ward	Williams	All other counties
1	Irrigated farms.....number 1950..	304	3	25	173	8	71	24
2	.....1945..	296	.....	17	157	1	16	15
3	Proportion of all farms.....percent 1950..	0.5	0.2	1.5	14.0	0.4	4.3	(1)
4	Land in irrigated farms.....acres 1950..	224,255	545	60,456	61,631	1,297	40,679	59,657
5	.....average per farm, acres 1950..	737.7	181.7	2,413.2	356.2	162.1	572.9	2,485.7
6	Value of land and buildings.....average per farm, dollars 1950..	22,274	.....	35,193	20,932	8,509	16,689	41,948
7	.....average per acre, dollars 1950..	36.15	.....	18.91	57.17	565.67	41.66	18.03
8	Proportion of irrigated farms reporting value.....percent 1950..	107	.....	128	115	62	100	71
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	89	.....	98	118	4	70	65
Land in irrigated farms according to use, 1949:								
10	Cropland harvested.....farms reporting..	302	3	25	172	7	71	24
11	.....acres..	70,201	45	17,706	26,982	604	13,742	11,042
12	Cropland used only for pasture.....acres..	3,833	.....	994	1,387	84	767	698
13	Cropland not harvested and not pastured.....acres..	14,628	46	1,512	5,037	319	5,606	2,108
14	Woodland pastured.....acres..	5,834	.....	1,055	3,458	11	704	605
15	Other pasture (not cropland and not woodland).....acres..	118,697	145	37,114	21,165	4	18,196	42,073
16	Land pastured, total.....farms reporting..	241	1	25	132	6	56	21
17	.....acres..	128,364	145	39,073	26,004	99	19,667	43,376
18	Irrigated land in farms.....acres 1949..	35,294	14	7,516	19,856	209	6,754	945
19	.....1944..	22,814	.....	4,634	16,473	9	1,275	423
20	Land irrigated by sprinklers.....farms reporting 1949..	9	2	.....	.....	1	1	5
21	.....acres 1949..	318	13	.....	.....	65	132	108
Irrigated land in farms according to use, 1949:								
22	Irrigated cropland harvested.....farms reporting..	294	3	24	171	7	69	20
23	.....acres..	32,952	9	7,449	18,314	173	6,189	818
24	Irrigated pasture.....farms reporting..	77	.....	2	58	1	11	5
25	.....acres..	1,135	.....	67	822	9	110	.....
26	Irrigated wild grass pasture.....farms reporting..	17	.....	2	12	.....	2	1
27	.....acres..	354	.....	67	219	.....	28	40
28	Irrigated tame grass pasture.....farms reporting..	63	.....	.....	49	1	9	4
29	.....acres..	781	.....	.....	603	9	82	87
30	Irrigated cropland not harvested and not pastured.....farms reporting..	47	1	.....	24	3	19	.....
31	.....acres..	1,207	5	.....	720	27	455	.....
Irrigated farms by acres irrigated in 1949:								
32	1-9 acres.....farms reporting..	24	2	.....	5	5	1	11
33	10-19 acres.....farms reporting..	9	1	.....	3	1	2	2
34	20-29 acres.....farms reporting..	10	.....	7	7	.....	1	2
35	30-49 acres.....farms reporting..	30	.....	2	13	1	8	6
36	50-99 acres.....farms reporting..	73	.....	2	50	.....	20	1
37	100-199 acres.....farms reporting..	122	.....	6	76	1	38	1
38	200 acres and over.....farms reporting..	36	.....	15	19	.....	1	1
Irrigated farms by tenure of operator, 1950:								
39	Full owners.....number..	146	2	7	92	1	36	8
40	Part owners.....number..	108	.....	13	50	.....	32	13
41	Managers.....number..	5	1	.....	.....	.....	1	2
42	Tenants.....number..	45	.....	5	31	6	2	1
Land in wholly and in partly irrigated farms:								
43	Wholly irrigated farms.....number 1950..	143	.....	.....	110	4	29	.....
44	All land.....acres 1950..	25,566	.....	.....	20,883	44	4,639	.....
45	Cropland harvested.....acres 1949..	16,096	.....	.....	13,000	17	3,079	.....
46	Irrigated land.....acres 1949..	17,530	.....	.....	14,112	21	3,397	.....
47	Partly irrigated farms.....number 1950..	161	3	25	63	4	42	24
48	All land.....acres 1950..	198,699	545	60,456	40,740	1,253	36,040	59,657
49	Cropland harvested, total.....farms reporting 1949..	159	3	25	62	3	42	24
50	.....acres 1949..	54,105	45	17,706	13,982	667	10,663	11,042
51	Irrigated land.....acres 1949..	17,764	14	7,516	5,744	180	3,357	945
52	Irrigated cropland harvested.....farms reporting 1949..	151	3	24	61	3	40	20
53	.....acres 1949..	16,856	9	7,449	5,314	156	3,110	818
Characteristics of wholly irrigated and nonirrigated farms:								
54	Wholly irrigated farms.....number 1950..	143	.....	.....	110	4	29	.....
55	Average acreage per farm:.....acres 1949..	178.8	.....	.....	189.8	11.0	160.0	.....
56	Cropland harvested.....acres 1949..	112.6	.....	.....	118.2	4.2	106.2	.....
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(1)	.....	.....	(1)	.....	.....	.....
58	Vegetables harvested for sale.....acres 1949..	(1)	.....	.....	(1)	0.8	0.1	.....
59	Small grains (including sorghums).....acres 1949..	59.8	.....	.....	59.0	1.5	70.6	.....
60	All hay.....acres 1949..	20.2	.....	.....	22.4	.....	14.8	.....
Farms by tenure of operator:								
61	Full owners and managers.....number 1950..	83	.....	.....	59	.....	25	.....
62	Part owners.....number 1950..	28	.....	.....	26	.....	2	.....
63	Tenants.....number 1950..	32	.....	.....	26	.....	4	.....
64	Value of land and buildings per farm.....dollars 1950..	20,054	.....	.....	22,399	8,500	13,810	.....
65	Nonirrigated farms.....number 1950..	65,097	1,802	1,690	1,061	2,014	1,578	56,952
66	Average acreage per farm:.....acres 1949..	629.4	573.2	624.7	1,067.2	605.9	765.3	620.2
67	Cropland harvested.....acres 1949..	311.6	305.7	335.1	285.6	310.5	281.1	312.4
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(1)	0.1	(1)	(1)	0.1	(1)	(1)
69	Vegetables harvested for sale.....acres 1949..	(1)	(1)	(1)	(1)	(1)	(1)	(1)
70	Small grains (including sorghums).....acres 1949..	239.8	265.6	239.0	199.9	264.2	245.7	238.8
71	All hay.....acres 1949..	51.9	34.3	83.1	72.4	38.5	30.8	52.2
Farms by tenure of operator:								
72	Full owners and managers.....number 1950..	25,457	697	635	472	796	617	22,240
73	Part owners.....number 1950..	25,385	731	682	490	828	791	21,863
74	Tenants.....number 1950..	14,255	374	373	99	390	170	12,849
75	Value of land and buildings per farm.....dollars 1950..	17,991	16,683	14,164	16,549	16,924	15,369	18,281
Irrigated farms and irrigated land by origin of water, 1949:								
Individually operated supply works and—								
76	No other irrigation enterprise.....farms reporting..	42	3	3	7	3	3	23
77	.....acres irrigated..	2,975	14	1,380	421	186	60	944
78	1 other irrigation enterprise.....farms reporting..	.....	.....	.....	.....	.....	.....	.....
79	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
80	2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....
81	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
No individually operated supply works but—								
82	1 other irrigation enterprise.....farms reporting..	262	.....	22	166	5	68	1
83	.....acres irrigated..	32,319	.....	6,166	19,435	23	6,694	1
84	2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	.....	.....	.....
85	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....

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	Bottineau and McHenry ¹	Divide and Williams ¹	McKenzie	Ward	All other counties
ALL ENTERPRISES						
Farms and land irrigated:						
1 All irrigation enterprises.....enterprises 1950..	35	3	3	11	4	14
2 1940..	80	(*)	(*)	3	6	(*)
3 Intercounty enterprises.....enterprises 1950..	1			1		
4 Irrigated farms ².....farms 1950..	304	28	72	173	8	23
5 Average per enterprise.....farms 1950..	8.7	9.3	24.0	15.7	2.0	1.6
6 Farms irrigated direct per enterprise ³.....farms 1950..	8.8	9.0	20.7	17.7	2.2	1.1
7 Irrigated land ².....acres 1949..	35,759	7,613	7,018	20,191	186	751
8 1939..	21,615	(*)	(*)	15,361	846	(*)
9 Average per irrigated farm.....acres 1949..	117.6	271.9	97.5	116.7	23.2	32.7
10 Average per enterprise.....acres 1949..	1,022	2,538	2,339	1,836	46	54
11 Average acreage irrigated direct per enterprise ³.....acres 1949..	1,022	2,538	2,339	1,836	48	54
Type of enterprises, 1950:						
12 Single-farm.....enterprises..	29	2	2	8	3	14
13 acres irrigated..	1,361	(*)	(*)	416	163	751
Mutual:						
14 Unincorporated.....enterprises..						
15 acres irrigated..						
16 Incorporated.....enterprises..	1		1			
17 acres irrigated..	(*)		(*)			
18 Commercial.....enterprises..						
19 acres irrigated..						
20 District.....enterprises..	4	1		3		
21 acres irrigated..	27,375	(*)		19,775		
22 U. S. Bureau of Reclamation.....enterprises..						
23 acres irrigated..						
24 U. S. Bureau of Indian Affairs.....enterprises..						
25 acres irrigated..						
26 State.....enterprises..	1				1	
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..	12	2		3	3	4
31 acres irrigated..	8,288	7,611		223	57	397
32 Pumped only.....enterprises reporting..	20	1	3	7	1	8
33 acres irrigated..	12,252	2	7,018	4,783	136	313
34 Gravity and pumped.....enterprises reporting..	1			1		
35 acres irrigated..	15,185			15,185		
36 Ground water only (pumped from wells).....enterprises reporting..	2					2
37 acres irrigated..	41					41
38 Surface (gravity or pumped) and ground water.....enterprises reporting..						
39 acres irrigated..						
Stored water:						
40 None stored.....enterprises reporting..	27	3	2	8	1	13
41 acres irrigated..	35,341	7,613	7,006	19,968	15	739
42 Part stored.....enterprises reporting..	3		1	1	1	
43 acres irrigated..	231		12	83	136	
44 All stored.....enterprises reporting..	5			2	2	1
45 acres irrigated..	194			140	42	12
Sources of surface water, 1949:⁵						
46 Streams (and lakes).....enterprises reporting..	28	2	2	10	3	11
47 acres irrigated..	35,642	7,602	7,012	20,141	178	709
48 Springs.....enterprises reporting..	3	1			1	1
49 acres irrigated..	27	11			15	1
50 Flowing wells.....enterprises reporting..						
51 acres irrigated..						
52 Drainage water.....enterprises reporting..	2		1	1		
53 acres irrigated..	56		6	50		
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..	11	2	2	2	1	4
59 Area supplied primary irrigation.....acres 1949..	34,479	7,602	7,012	19,244	135	485
60 Area artificially drained.....acres 1949..	18,960	5,165	7,012	6,600	20	163
61 acres 1939..	11,552	(*)	(*)	(*)		(*)
Irrigated land in need of drainage:						
62 Enterprises reporting.....enterprises 1949..	5	1		3	1	
63 Area supplied primary irrigation.....acres 1949..	12,376	7,600		4,640	135	
64 Area in need of drainage.....acres 1949..	1,320	850		450	20	
65 acres 1939..	242	(*)	(*)			(*)

¹Not available.

²Adjoining counties with less than 3 enterprises in each.

³Farms or acres irrigated direct by 2 or more enterprises are counted only once. Number of irrigated farms is from the U.S. Census of Agriculture. Acreage irrigated is from the Census of Irrigation and therefore differs from acreage irrigated shown in County Table 1. (See text.)

⁴Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise.

⁵Data for less than 3 enterprises not shown separately.

⁶Enterprises reporting water from more than 1 source are counted for each.

⁷For intercounty and interstate enterprises, data represent characteristics within the county or State.

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

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

Item (For definitions and explanations, see text)		The State	Bottineau and McHenry ¹	Divide and Williams ¹	McKenzie	Ward	All other counties
ALL ENTERPRISES							
Irrigation works:							
1	Diversion dams.....enterprises reporting 1950..	10	1	.....	2	2	5
2	.....dams 1950..	15	1	.....	5	3	6
3	.....dams 1940..	19	(*)	(*)	.....	1	(*)
Diversion dams by material:							
4	Concrete or masonry.....dams 1950..	2	.....	.....	.....	1	1
5	Timber.....dams 1950..	.....	.....	.....	.....	.....	.....
6	Earth and rock.....dams 1950..	10	1	.....	5	2	2
7	Other, mixed, and not reported.....dams 1950..	3	.....	.....	.....	.....	3
8	Reservoirs.....enterprises reporting 1950..	9	.....	.....	1	3	2
9	.....reservoirs 1950..	11	.....	.....	1	3	2
10	.....reservoirs 1940..	14	(*)	(*)	.....	5	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	6	.....	.....	1	2	2
12	.....total capacity, acre-feet 1950..	1,101	.....	.....	12	360	9
13	.....1940..	3,946	(*)	(*)	.....	720	(*)
Reservoirs by capacity:							
14	1-99 acre-feet.....reservoirs 1950..	3	.....	.....	1	.....	2
15	100-999 acre-feet.....reservoirs 1950..	3	.....	.....	1	.....	.....
16	1,000 acre-feet and over.....reservoirs 1950..	.....	.....	.....	.....	2	.....
Reservoir dams by material:							
17	Concrete or masonry.....dams 1950..	2	.....	.....	.....	2	.....
18	Earth and rock.....dams 1950..	5	.....	.....	1	1	2
19	Other, mixed, and not reported.....dams 1950..	4	.....	.....	2	2	.....
20	Canals and ditches.....enterprises reporting 1950..	9	1	1	4	1	2
21	.....total length, miles 1950..	193	2	53	131	6	1
22	.....1940..	159	(*)	(*)	124	24	(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	6	1	.....	1	2	2
24	.....total length, miles 1950..	7	2	.....	(³)	2	3
25	.....1940..	4	(*)	(*)	.....	1	(*)
26	Tunnels.....enterprises reporting 1950..	1	.....	.....	.....	1	.....
27	.....total length, feet 1950..	200	.....	.....	.....	200	.....
28	Flowing wells.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....
29	.....wells 1950..	.....	.....	.....	.....	.....	.....
30	.....1940..	.....	(*)	(*)	.....	.....	(*)
31	Pumped wells.....enterprises reporting 1950..	2	.....	.....	.....	.....	2
32	.....wells 1950..	4	.....	.....	.....	.....	4
33	.....1940..	11	(*)	(*)	.....	.....	(*)
34	Wells for which pumping lift was reported.....wells 1949..	4	.....	.....	.....	.....	4
35	.....Average pumping lift.....feet 1949..	23	.....	.....	.....	.....	23
36	.....1939..	25	(*)	(*)	.....	.....	(*)
37	Irrigation pumps.....enterprises reporting 1950..	23	1	3	7	2	10
38	.....pumps 1950..	35	2	5	9	5	14
39	.....pumping plants 1940..	83	(*)	(*)	4	10	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	7	.....	1	1	1	4
41	.....electric motors 1950..	14	.....	3	3	2	6
42	Other motors and engines used for	.....	.....	.....	.....	.....	.....
43	pumping.....enterprises reporting 1950..	18	1	2	5	2	8
.....	.....other motors and engines 1950..	19	1	2	5	3	8
Season of Irrigation, 1949:							
44	Water delivered only before July 1.....enterprises reporting..	9	1	1	3	1	3
45	.....acres irrigated..	8,188	7,600	12	158	15	403
46	Water delivered before and after July 1.....enterprises reporting..	19	2	2	4	1	10
47	.....acres irrigated..	27,350	13	7,006	19,850	136	347
48	Water delivered only after July 1.....enterprises reporting..	4	.....	.....	2	2	.....
49	.....acres irrigated..	157	.....	.....	115	42	.....
Capital Investment:							
50	Capital investment in irrigation works and water	.....	.....	.....	.....	.....	.....
.....	rights to Jan. 1, 1940.....dollars 1940..	1,755,489	(*)	(*)	1,568,237	61,225	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
51	Enterprises reporting.....enterprises 1950..	21	.....	3	3	3	12
52	Amount.....dollars 1950..	1,202,274	.....	1,142,306	7,100	29,468	23,400
53	Area irrigated direct.....acres 1949..	12,592	.....	7,018	4,673	181	720
54	Total capital investment Jan. 1, 1950.....dollars 1950..	2,957,763	(*)	(*)	1,575,337	90,693	(*)
Indebtedness:⁴							
Outstanding bonds, construction cost, and other							
funded obligations, Jan. 1, 1950:							
55	Enterprises reporting.....enterprises 1950..	3	.....	1	2	.....	.....
56	Amount.....dollars 1950..	1,416,460	.....	548,000	868,460	.....	.....
57	.....1940..	1,337,648	(*)	(*)	1,300,708	.....	(*)
58	Area irrigated direct.....acres 1949..	22,716	.....	7,000	15,716	.....	.....
Arrearage in payment of principal or interest on							
bonds, construction cost, and other funded							
obligations, Jan. 1, 1950:							
59	Enterprises reporting.....enterprises 1950..	2	.....	.....	2	.....	.....
60	Amount.....dollars 1950..	3,153	.....	.....	3,153	.....	.....
61	Area irrigated direct.....acres 1949..	15,716	.....	.....	15,716	.....	.....

* Not available. ¹ Adjoining counties with less than 3 enterprises in each. ² Pipelines in farm-distribution systems were included in 1940, not included in 1950. ³ Less than 0.5. ⁴ Not 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	Bottineau and McHenry ¹	Divide and Williams ¹	McKenzie	Ward	All other counties
ALL ENTERPRISES						
Cost of water to farms, 1949:²						
Total cost of water to farms:						
1 Enterprises reporting.....enterprises..	34	3	10	4	3	14
2 Cost.....dollars..	112,235	3,064	82,795	701	24,368	1,307
3 Area irrigated direct.....acres..	35,766	7,613	20,191	193	7,018	751
4 Cost per acre irrigated direct.....dollars..	3.14	0.40	4.10	3.63	3.47	1.74
5 Total cost per irrigated acre.....dollars..	3.14	0.40	4.10	3.77	3.47	1.74
6 Total cost per acre-foot of water.....dollars..	1.31	(⁴)	1.46	(⁴)	(⁴)	(⁴)
Enterprises by cost per acre:						
7 Less than \$1.00.....enterprises reporting..	14	2	3	3		6
8 Area irrigated.....acres..	8,348	7,611	223	57		457
9 \$1.00-\$1.99.....enterprises reporting..	2					2
10 Area irrigated.....acres..	130					130
11 \$2.00-\$4.99.....enterprises reporting..	9		5		3	1
12 Area irrigated.....acres..	26,911		19,853		7,018	40
13 \$5.00-\$9.99.....enterprises reporting..	5		2	1		2
14 Area irrigated.....acres..	362		115	136		111
15 \$10.00 and over.....enterprises reporting..	4	1				3
16 Area irrigated.....acres..	15	2				13
Cost of water for primary irrigation:						
17 Enterprises reporting.....enterprises..	34	3	10	4	3	14
18 Cost.....dollars..	112,235	3,064	82,795	701	24,368	1,307
19 Area supplied primary irrigation.....acres..	35,759	7,613	20,191	186	7,018	751
20 Cost per acre supplied.....dollars..	3.14	0.40	4.10	3.77	3.47	1.74
Cost of water for supplemental irrigation:						
21 Enterprises reporting.....enterprises..	1			1		
22 Cost.....dollars..						
23 Area supplied supplemental irrigation.....acres..	(⁴)			(⁴)		
24 Cost per acre supplied.....dollars..	(⁴)			(⁴)		
Cost to farms for purposes other than operation and maintenance:⁵						
25 Enterprises reporting.....enterprises..	2		2			
26 Cost.....dollars..	42,292		42,292			
27 Area irrigated direct.....acres..	15,716		15,716			
28 Cost per acre irrigated.....dollars..	2.69		2.69			
Arrearage in payments by farms, Jan. 1, 1950:⁵						
29 Enterprises reporting.....enterprises..	2		1		1	
30 Amount.....dollars..	2,387		681		1,706	
31 Area irrigated direct.....acres..	22,185		15,185		7,000	
SINGLE-FARM ENTERPRISES, 1950						
32 Single-farm enterprises.....enterprises..	29	2	8	3	2	14
33 Area irrigated.....acres..	1,361	13	416	163	18	751
34 Complete-system enterprises ⁶.....enterprises..	28	2	7	3	2	14
35 Area irrigated.....acres..	1,361	13	416	163	18	751
Other farms irrigated:						
36 Enterprises reporting.....number..	2			1		1
37 Number of other farms.....farms..	2			1		1
38 Area irrigated in other farms.....acres..	32			7		25
Enterprises by origin of water supply:⁶						
39 No water from other enterprises.....enterprises reporting..	29	2	8	3	2	14
40 Area irrigated.....acres..	1,361	13	416	163	18	751
41 Part of water from other enterprises.....enterprises reporting..						
42 Area irrigated.....acres..						
43 All of water from other enterprises.....enterprises reporting..						
44 Area irrigated.....acres..						
Enterprises by primary and supplemental irrigation:						
45 All primary.....enterprises reporting..	27	2	7	2	2	14
46 Area irrigated.....acres..	1,349	13	416	151	18	751
47 Part primary, part supplemental.....enterprises reporting..	1			1		
48 Area irrigated.....acres..	5			5		
49 Supplemental irrigation.....acres irrigated..	7			7		
50 All supplemental.....enterprises reporting..						
51 Area irrigated.....acres..						
Enterprises by number of acres irrigated:⁶						
52 None.....enterprises reporting..	1		1			
53 1-9 acres.....enterprises reporting..	6	1			1	4
54 10-29 acres.....enterprises reporting..	8	1	1	2	1	3
55 30-59 acres.....enterprises reporting..	6		2			4
56 60-99 acres.....enterprises reporting..	5		4			1
57 100-199 acres.....enterprises reporting..	2			1		1
58 200-499 acres.....enterprises reporting..	1					1
59 500-999 acres.....enterprises reporting..						
60 1,000 acres or more.....enterprises reporting..						

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

County Table 2 (Part 4 of 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	McKenzie	All other counties
MULTIPLE-FARM ENTERPRISES, 1950				
1	Multiple-farm enterprises, total number ¹.....enterprises..	6	3	3
2	Area irrigated direct.....acres..	34,405	19,775	14,630
3	Multiple-purpose enterprises ¹.....enterprises..			
4	Area irrigated direct.....acres..			
5	Complete-system enterprises ¹.....enterprises..	6	3	3
6	Area irrigated direct.....acres..	34,405	19,775	14,630
Enterprises by origin of water supply: ¹				
7	No water from other enterprises.....enterprises reporting..	6	3	3
8	Part of water from other enterprises.....acres irrigated..	34,405	19,775	14,630
9	Enterprises reporting.....enterprises reporting..			
10	acres irrigated.....acres irrigated..			
11	All water from other enterprises.....enterprises reporting..			
12	acres irrigated.....acres irrigated..			
Enterprises by delivery of irrigation water: ¹				
13	No water delivered.....enterprises reporting..			
14	Water delivered direct to farms only.....enterprises reporting..	5	2	3
15	acres irrigated.....acres irrigated..	19,220	4,590	14,630
16	Water delivered to farms and to other enterprises.....enterprises reporting..	1	1	
17	acres irrigated.....acres irrigated..	15,185	15,185	
18	Water delivered to other enterprises only.....enterprises reporting..			
Enterprises by primary and supplemental irrigation: ²				
19	All primary.....enterprises reporting..	6	3	3
20	acres irrigated.....acres irrigated..	34,405	19,775	14,630
21	Part primary, part supplemental.....enterprises reporting..			
22	Primary irrigation.....acres irrigated..			
23	Supplemental irrigation.....acres irrigated..			
24	All supplemental.....enterprises reporting..			
25	acres irrigated.....acres irrigated..			
Enterprises by number of farms irrigated direct: ¹				
26	None.....enterprises reporting..			
27	1-3.....enterprises reporting..			
28	4-9.....enterprises reporting..	2	1	1
29	10-29.....enterprises reporting..	1	1	1
30	30-99.....enterprises reporting..	2	1	1
31	100-299.....enterprises reporting..			
32	300-999.....enterprises reporting..	1	1	
33	1,000 or more.....enterprises reporting..			
Enterprises by acres irrigated direct: ¹				
34	None.....enterprises reporting..			
35	1-99 acres.....enterprises reporting..	1		1
36	100-999 acres.....enterprises reporting..	1	1	
37	1,000-2,999 acres.....enterprises reporting..			
38	3,000-9,999 acres.....enterprises reporting..	3	1	2
39	10,000-29,999 acres.....enterprises reporting..			
40	30,000 acres or more.....enterprises reporting..	1	1	
Quantities of water reported, 1949:				
41	Total obtained from all sources ³.....enterprises reporting..	5	3	2
42	percent of all enterprises reporting..	14	27	66
43	Surface sources.....acres irrigated..	288,727	248,579	40,148
44	acres irrigated.....acres irrigated..	5	3	2
45	Pumped wells.....acres irrigated..	288,727	248,579	40,148
46	acres irrigated.....acres irrigated..			
47	Other enterprises.....acres irrigated..			
48	acres irrigated.....acres irrigated..			
49	Conveyance loss ³.....acres irrigated..			
50	acres irrigated.....acres irrigated..	4	3	1
51	acres irrigated.....acres irrigated..	120,975	108,900	12,075
Delivered: ³				
52	Direct to farms.....enterprises reporting..	5	3	2
53	acres irrigated.....acres irrigated..	165,952	137,879	28,073
54	To other enterprises.....enterprises reporting..	1	1	
55	acres irrigated.....acres irrigated..	1,800	1,800	
56	For use other than irrigation.....enterprises reporting..			
57	acres irrigated.....acres irrigated..			
Delivered direct to farms for primary irrigation: ²				
58	Enterprises reporting.....enterprises..	5	3	2
59	Quantity delivered.....acres..	83,877	55,804	28,073
60	Area supplied primary irrigation.....acres..	34,375	19,775	14,600
61	Quantity supplied per acre.....acres..	2.4	2.8	1.9
Delivered direct to farms for supplemental irrigation: ²				
62	Enterprises reporting.....enterprises..			
63	Quantity delivered.....acres..			
64	Area supplied supplemental irrigation.....acres..			
65	Quantity supplied per acre.....acres..			
66	Total quantity per irrigated acre ⁴.....acres..	2.4	2.8	1.9
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²				
67	Lost for primary irrigation.....dollars..	108,876	81,637	27,239
68	Average cost per acre-foot.....dollars..	1.30	1.46	0.97
69	Cost for supplemental irrigation.....dollars..			
70	Average cost per acre-foot.....dollars..			
Measurement of water to farms, 1949: ²				
71	No water measured.....enterprises reporting..	4	2	2
72	Part of water measured.....acres irrigated..	12,220	4,590	7,630
73	Enterprises reporting.....enterprises reporting..	1	1	
74	acres irrigated.....acres irrigated..	15,185	15,185	
75	All water measured.....enterprises reporting..	1		1
76	acres irrigated.....acres irrigated..	7,000		7,000

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, "North Dakota: 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	Bottineau and McHenry ¹	Divide and Williams ¹	McKenzie	Ward	All other counties
Irrigated land 1949.....acres..	35,759	7,613	7,018	20,191	186	751
Area irrigated direct, by drainage basin origin of water, 1949: ²						
All basins.....acres..	35,766	7,613	7,018	20,191	193	751
Mississippi River (VI).....acres..	27,823	.....	7,012	20,191	.....	620
Missouri River direct (VI-C-1a).....acres..	11,864	.....	7,012	4,232	.....	620
Yellowstone River direct (VI-F-1a).....acres..	15,959	.....	.....	15,959	.....	.....
Hudson Bay (Red River of the North) (VII).....acres..	7,943	7,613	6	.....	193	131

¹ Adjoining counties with less than 3 enterprises in each.² 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.

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

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

Item (For definitions and explanations, see text)	The State	Mississippi River (VI)			Hudson Bay (Red River of the North) (VII)
		Total	Missouri River direct (VI-C-1a)	Yellowstone River direct (VI-F-1a)	
ALL ENTERPRISES					
Farms and land irrigated:					
1 All irrigation enterprises.....enterprises 1950..	35	24	16	8	11
2 1940..	80	67	(*)	(*)	13
3 Interbasin.....enterprises 1950..	1	1		1	
4 Farms irrigated direct per enterprise ¹.....farms 1950..	8.8	11.2	6.8	20.0	3.6
5 Irrigated land ².....acres 1949..	35,759	27,823	11,864	15,959	7,936
6 1939..	21,615	17,122	2,741	14,381	4,493
7 Average per enterprise.....acres 1949..	1,022	1,159	742	1,995	722
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	1,022	1,159	742	1,995	722
Type of enterprise, 1950:					
9 Single-farm.....enterprises..	29	20	14	6	9
10 acres irrigated..	1,361	1,048	805	243	313
Mutual:					
11 Unincorporated.....enterprises..					
12 acres irrigated..					
13 Incorporated.....enterprises..	1	1	1		
14 acres irrigated..	(³)	(³)	(³)		
Commercial.....enterprises..					
15 acres irrigated..					
16 District.....enterprises..	4	3	1	2	1
17 acres irrigated..	27,375	19,775	(³)	(³)	(³)
18 U. S. Bureau of Reclamation.....enterprises..					
19 acres irrigated..					
20 U. S. Bureau of Indian Affairs.....enterprises..					
21 acres irrigated..					
22 State.....enterprises..	1				1
23 acres irrigated..	(³)				(³)
24 City.....enterprises..					
25 acres irrigated..					
26					
Use of surface, ground, pumped and stored water, 1949:					
Surface water:					
27 Gravity only.....enterprises reporting..	12	6	5	1	6
28 acres irrigated..	8,288	619	569	50	7,669
29 Pumped only.....enterprises reporting..	20	15	9	6	9
30 acres irrigated..	12,252	11,978	11,254	724	274
31 Gravity and pumped.....enterprises reporting..	1	1		1	
32 acres irrigated..	15,185	15,185		15,185	
Ground water only (pumped from wells).....enterprises reporting..					
33 acres irrigated..	2	2	2		
34 Surface (gravity or pumped) and ground water.....enterprises reporting..	41	41	41		
35 acres irrigated..					
Stored water:					
36 None stored.....enterprises reporting..	27	19	12	7	8
37 acres irrigated..	35,341	27,576	11,667	15,909	7,765
38 Part stored.....enterprises reporting..	3	2	2		1
39 acres irrigated..	231	95	95		136
40 All stored.....enterprises reporting..	5	3	2		2
41 acres irrigated..	194	152	102	50	42
42					
Sources of surface water, 1949:⁴					
43 Streams (and lakes).....enterprises reporting..	28	21	14	7	7
44 acres irrigated..	35,642	27,732	11,823	15,909	7,910
45 Springs.....enterprises reporting..	3				3
46 acres irrigated..	27				27
47 Flowing wells.....enterprises reporting..					
48 acres irrigated..					
49 Drainage water.....enterprises reporting..	2	1		1	1
50 acres irrigated..	56	50		50	6
51 Sewage.....enterprises reporting..					
52 acres irrigated..					
53 Other sources.....enterprises reporting..					
54 acres irrigated..					
Drainage of irrigated land:⁵					
Irrigated land drained:					
55 Enterprises reporting.....enterprises 1949..	11	7	6	1	4
56 Area supplied primary irrigation.....acres 1949..	34,479	26,711	11,526	15,185	7,768
57 Area artificially drained.....acres 1949..	18,960	13,745	11,145	2,600	5,215
58 1939..	11,552	11,552	(*)	(*)	
Irrigated land in need of drainage:					
59 Enterprises reporting.....enterprises 1949..	5	3	1	2	2
60 Area supplied primary irrigation.....acres 1949..	12,376	4,640	4,059	581	7,736
61 Area in need of drainage.....acres 1949..	1,320	450	100	358	870
62 1939..	242	242	(*)	(*)	

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Mississippi River (VI)			Hudson Bay (Mad River of the North) (VIII)
		Total	Missouri River direct (VI-C-1a)	Yellowstone River direct (VI-F-1a)	
ALL ENTERPRISES					
Irrigation works:					
1 Diversion dams.....enterprises reporting 1950..	10	6	5	1	4
2 ..dams 1950..	15	10	6	4	5
3 ..1940..	19	14	(*)	(*)	5
Diversion dams by material:					
4 Concrete or masonry.....dams 1950..	2	1	1		1
5 Timber.....dams 1950..					
6 Earth and rock.....dams 1950..	10	6	2	4	4
7 Other, mixed, and not reported.....dams 1950..	3	3	3		
8 Reservoirs.....enterprises reporting 1950..	9	6	5	1	3
9 ..reservoirs 1950..	11	6	5	1	5
10 ..1940..	14	12	(*)	(*)	2
11 Reservoirs for which capacity was reported.....reservoirs 1950..	6	4	4		2
12 ..total capacity, acre-feet 1950..	1,101	381	381		720
13 ..1940..	3,946	3,226	(*)	(*)	720
Reservoirs by capacity:					
14 1-99 acre-feet.....reservoirs 1950..	3	3	3		
15 100-999 acre-feet.....reservoirs 1950..	3	1	1		2
16 1,000 acre-feet and over.....reservoirs 1950..					
Reservoir dams by material:					
17 Concrete or masonry.....dams 1950..	2				2
18 Earth and rock.....dams 1950..	5	4	4		1
19 Other, mixed, and not reported.....dams 1950..	4	2	1	1	2
20 Canals and ditches.....enterprises reporting 1950..	9	6	4	2	3
21 ..total length, miles 1950..	193	185	81	104	8
22 ..1940..	159	135	(*)	(*)	24
23 Pipelines and siphons ¹.....enterprises reporting 1950..	6	2	1	1	4
24 ..total length, miles 1950..	7	1	1	(2)	6
25 ..1940..	4	2	(*)	(*)	2
26 Tunnels.....enterprises reporting 1950..	1				1
27 ..total length, feet 1950..	200				200
28 Flowing wells.....enterprises reporting 1950..					
29 ..wells 1950..					
30 ..1940..			(*)	(*)	
31 Pumped wells.....enterprises reporting 1950..	2	2	2		
32 ..wells 1950..	4	4	4		
33 ..1940..	11	11	(*)	(*)	
34 Wells for which pumping lift was reported.....wells 1949..	4	4	4		
35 Average pumping lift.....feet 1949..	23	23	23		
36 ..1939..	25	25	(*)	(*)	
37 Irrigation pumps.....enterprises reporting 1950..	23	17	11	6	6
38 ..pumps 1950..	35	24	18	6	11
39 ..1940..	83	67	(*)	(*)	16
40 Electric motors used for pumping.....enterprises reporting 1950..	7	5	5		2
41 ..electric motors 1950..	14	10	10		4
42 ..1940..	9	8	(*)	(*)	1
43 Other motors and engines used for pumping.....enterprises reporting 1950..	18	13	8	5	5
44 ..other motors and engines 1950..	19	13	8	5	6
45 ..1940..	73	57	(*)	(*)	16
Season of Irrigation, 1949:					
46 Water delivered only before July 1.....enterprises reporting..	9	6	4	2	3
47 ..acres irrigated..	8,188	543	475	68	7,645
48 Water delivered before and after July 1.....enterprises reporting..	19	14	12	2	5
49 ..acres irrigated..	27,360	27,105	11,389	15,716	255
50 Water delivered only after July 1.....enterprises reporting..	4	2		2	2
51 ..acres irrigated..	157	115		115	42
Capital Investment:					
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,755,489	1,624,923	(*)	(*)	130,566
New capital investment Jan. 1, 1940, to Jan. 1, 1950:					
53 Enterprises reporting.....enterprises 1950..	21	15	14	1	6
54 Amount.....dollars 1950..	1,202,274	1,170,406	1,169,906	500	31,868
55 Area irrigated direct.....acres 1949..	12,592	12,275	11,744	531	317
56 Total capital investment Jan. 1, 1950.....dollars 1950..	2,957,763	1,624,923	(*)	(*)	162,434
Indebtedness:³					
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
57 Enterprises reporting.....enterprises 1950..	3	3	1	2	
58 Amount.....dollars 1950..	1,416,460	1,416,460	548,000	868,460	
59 ..1940..	1,337,648	1,308,148	(*)	(*)	29,500
60 Area irrigated direct.....acres 1949..	22,716	22,716	7,000	15,716	
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:					
61 Enterprises reporting.....enterprises 1950..	2	2		2	
62 Amount.....dollars 1950..	3,153	3,153		3,153	
63 Area irrigated direct.....acres 1949..	15,716	15,716		15,716	

*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.

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

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

Item (For definitions and explanations, see text)	The State	Mississippi River (VI)			Hudson Pay (Red River of the North) (VII)	
		Total	Missouri River direct (VI-C-1a)	Yellowstone River direct (VI-F-1a)		
ALL ENTERPRISES						
Cost of water to farms, 1949: ¹						
Total cost of water to farms:						
1	Enterprises reporting.....enterprises..	34	23	16	7	11
2	Cost.....dollars..	112,235	108,270	37,652	70,618	3,965
3	Area irrigated direct.....acres..	35,766	27,823	11,864	15,959	7,943
4	Cost per acre irrigated direct.....dollars..	3.14	3.89	3.17	4.42	0.50
5	Total cost per irrigated acre.....dollars..	3.14	3.89	3.17	4.42	0.50
6	Total cost per acre-foot of water ².....dollars..	1.31	1.39	(³)	(³)	(³)
Enterprises by cost per acre:						
7	Less than \$1.00.....enterprises reporting..	14	8	7	1	6
8	acres irrigated..	8,348	679	629	50	7,669
9	\$1.00-\$1.99.....enterprises reporting..	2				2
10	acres irrigated..	130				130
11	\$2.00-\$4.99.....enterprises reporting..	9	8	4	4	1
12	acres irrigated..	26,911	26,905	11,111	15,794	6
13	\$5.00-\$9.99.....enterprises reporting..	5	4	2	2	1
14	acres irrigated..	362	226	111	115	136
15	\$10.00 and over.....enterprises reporting..	4	3	3		1
16	acres irrigated..	15	13	13		2
Cost of water for primary irrigation:						
17	Enterprises reporting.....enterprises..	34	23	16	7	11
18	Cost.....dollars..	112,235	108,270	37,652	70,618	3,965
19	Area supplied primary irrigation.....acres..	35,759	27,823	11,864	15,959	7,936
20	Cost per acre supplied.....dollars..	3.14	3.89	3.17	4.42	0.50
Cost of water for supplemental irrigation:						
21	Enterprises reporting.....enterprises..	1				1
22	Cost.....dollars..					7
23	Area supplied supplemental irrigation.....acres..	(³)				(³)
24	Cost per acre supplied.....dollars..	(³)				(³)
Cost to farms for purposes other than operation and maintenance: ⁴						
25	Enterprises reporting.....enterprises..	2	2		2	
26	Cost.....dollars..	42,292	42,292		42,292	
27	Area irrigated direct.....acres..	15,716	15,716		15,716	
28	Cost per acre irrigated.....dollars..	2.69	2.69		2.69	
Arrearage in payments by farms, Jan. 1, 1950: ⁴						
29	Enterprises reporting.....enterprises..	2	2	1	1	
30	Amount.....dollars..	2,387	2,387	1,706	681	
31	Area irrigated direct.....acres..	22,185	22,185	7,000	15,185	
SINGLE-FARM ENTERPRISES, 1950						
32	Single-farm enterprises.....enterprises..	29	20	14	6	9
33	Area irrigated.....acres..	1,361	1,048	805	243	313
34	Complete-system enterprises ⁵.....enterprises..	28	19	14	5	9
35	Area irrigated.....acres..	1,361	1,048	805	243	313
Other farms irrigated:						
36	Enterprises reporting.....number..	2	1	1		1
37	Number of other farms.....farms..	2	1	1		1
38	Area irrigated in other farms.....acres..	32	25	25		7
Enterprises by origin of water supply: ⁵						
39	No water from other enterprises.....enterprises reporting..	29	20	14	6	9
40	acres irrigated..	1,361	1,048	805	243	313
41	Part of water from other enterprises.....enterprises reporting..					
42	acres irrigated..					
43	All of water from other enterprises.....enterprises reporting..					
44	acres irrigated..					
Enterprises by primary and supplemental irrigation:						
45	All primary.....enterprises reporting..	27	19	14	5	8
46	acres irrigated..	1,349	1,048	804	243	301
47	Part primary, part supplemental.....enterprises reporting..	1				1
48	Primary irrigation.....acres irrigated..	5				5
49	Supplemental irrigation.....acres irrigated..	7				7
50	All supplemental.....enterprises reporting..					
51	acres irrigated..					
Enterprises by number of acres irrigated: ⁵						
52	None.....enterprises reporting..	1	1		1	3
53	1-9 acres.....enterprises reporting..	6	3	3		3
54	10-29 acres.....enterprises reporting..	8	5	4	1	1
55	30-59 acres.....enterprises reporting..	5	5	3	2	
56	60-99 acres.....enterprises reporting..	5	5	3	2	
57	100-199 acres.....enterprises reporting..	2				
58	200-499 acres.....enterprises reporting..	1	1	1		
59	500-999 acres.....enterprises reporting..					
60	1,000 acres or more.....enterprises reporting..					

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 56.)

³ Average not given because number of reports 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.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		The State ¹	Mississippi River total (VI)
MULTIPLE-FARM ENTERPRISES, 1950			
1	Multiple-farm enterprises, total number ² enterprises..	6	4
2	Area irrigated direct..... acres..	34,405	26,775
3	Multiple-purpose enterprises ² enterprises..		
4	Area irrigated direct..... acres..		
5	Complete-system enterprise ² enterprises..	6	4
6	Area irrigated direct..... acres..	34,405	26,775
7	Enterprises by origin of water supply: ²		
8	No water from other enterprises..... enterprises reporting..	6	4
9	Part of water from other enterprises..... enterprises reporting..	34,405	26,775
10	Area irrigated..... acres irrigated..		
11	All water from other enterprises..... enterprises reporting..		
12	Area irrigated..... acres irrigated..		
13	Enterprises by delivery of irrigation water: ²		
14	No water delivered..... enterprises reporting..		
15	Water delivered direct to farms only..... enterprises reporting..	5	3
16	Area irrigated..... acres irrigated..	19,220	11,590
17	Water delivered to farms and to other enterprises..... enterprises reporting..	1	1
18	Area irrigated..... acres irrigated..	15,185	15,185
19	Enterprises by primary and supplemental irrigation: ³		
20	All primary..... enterprises reporting..	6	4
21	Area irrigated..... acres irrigated..	34,405	26,775
22	Part primary, part supplemental..... enterprises reporting..		
23	Primary irrigation..... acres irrigated..		
24	Supplemental irrigation..... acres irrigated..		
25	All supplemental..... enterprises reporting..		
26	Area irrigated..... acres irrigated..		
27	Enterprises by number of farms irrigated direct: ²		
28	None..... enterprises reporting..		
29	1-3..... enterprises reporting..		
30	4-9..... enterprises reporting..	2	1
31	10-29..... enterprises reporting..	1	
32	30-99..... enterprises reporting..	2	2
33	100-299..... enterprises reporting..		
34	300-999..... enterprises reporting..	1	1
35	1,000 or more..... enterprises reporting..		
36	Enterprises by acres irrigated direct: ²		
37	None..... enterprises reporting..		
38	1-99..... enterprises reporting..	1	
39	100-999 acres..... enterprises reporting..	1	1
40	1,000-2,999 acres..... enterprises reporting..		
41	3,000-9,999 acres..... enterprises reporting..	3	2
42	10,000-29,999 acres..... enterprises reporting..		
43	30,000 acres or more..... enterprises reporting..	1	1
44	Quantities of water reported, 1949:		
45	Total obtained from all sources ⁴ enterprises reporting..	5	4
46	percent of all enterprises reporting..	14	17
47	Surface sources..... enterprises reporting..	288,727	278,727
48	Area irrigated..... acre-feet..	5	4
49	Pumped wells..... enterprises reporting..	288,727	278,727
50	Area irrigated..... acre-feet..		
51	Other enterprises..... enterprises reporting..		
52	Area irrigated..... acre-feet..		
53	Conveyance loss ⁴ enterprises reporting..	4	4
54	Area irrigated..... acre-feet..	120,975	120,975
55	Delivered: ⁴		
56	Direct to farms..... enterprises reporting..	5	4
57	Area irrigated..... acre-feet..	165,952	155,952
58	To other enterprises..... enterprises reporting..	1	1
59	Area irrigated..... acre-feet..	1,800	1,800
60	For use other than irrigation..... enterprises reporting..		
61	Area irrigated..... acre-feet..		
62	Delivered direct to farms for primary irrigation: ³		
63	Enterprises reporting..... enterprises	5	4
64	Quantity delivered..... acre-feet..	83,877	73,877
65	Area supplied primary irrigation..... acres	34,375	26,775
66	Quantity supplied per acre..... acre-feet..	2.4	2.8
67	Delivered direct to farms for supplemental irrigation: ³		
68	Enterprises reporting..... enterprises		
69	Quantity delivered..... acre-feet..		
70	Area supplied supplemental irrigation..... acres		
71	Quantity supplied per acre..... acre-feet..		
72	Total quantity per irrigated acre ⁵ acre-feet..	2.4	2.8
73	Cost of water to farms for enterprises reporting quantity delivered, 1949: ³		
74	Cost for primary irrigation..... dollars..	108,876	105,939
75	Average cost per acre-foot..... dollars..	1.30	1.43
76	Cost for supplemental irrigation..... dollars..		
77	Average cost per acre-foot..... dollars..		
78	Measurement of water to farms, 1949: ³		
79	No water measured..... enterprises reporting..	4	2
80	Area irrigated..... acres irrigated..	12,220	4,590
81	Part of water measured..... enterprises reporting..	1	1
82	Area irrigated..... acres irrigated..	15,185	15,185
83	All water measured..... enterprises reporting..	1	1
84	Area irrigated..... acres irrigated..	7,000	7,000

¹Includes data for 2 enterprises in Hudson Bay (Red River of the North) basin (VII).

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.

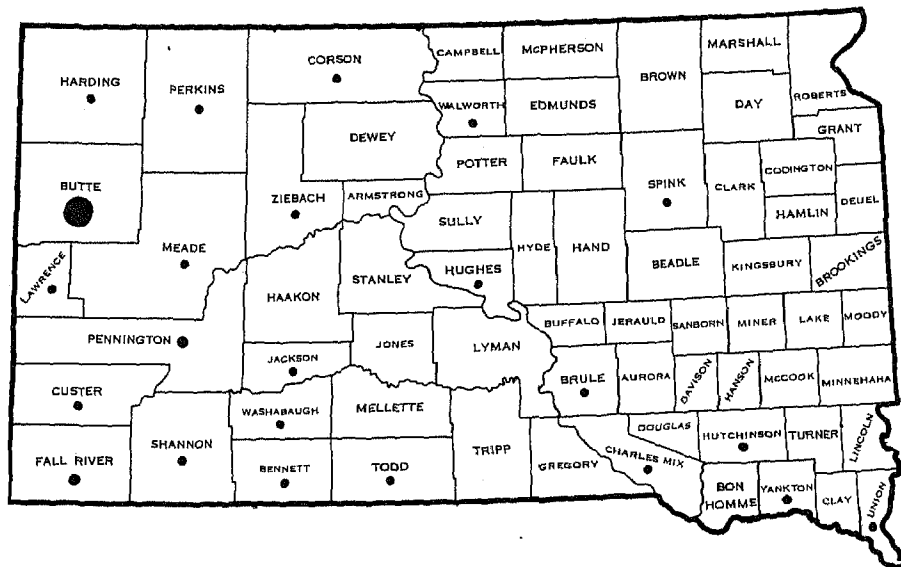
IRRIGATION OF AGRICULTURAL LANDS

SOUTH DAKOTA

CONTENTS

[Page numbers listed here omit the State (or States) part number which appears as a prefix to the page number for each page. The part number for this State is 13]

	Page
Map:	
Acres of irrigated land, by counties, 1949.....	23
State table--	
1.—Irrigation summary: 1890 to 1950.....	24
2.—Characteristics of irrigation enterprises: 1920 to 1950.....	24
3.—Irrigation enterprises, number and characteristics, by type of enterprise: Censuses of 1950 and 1940.....	25
4.—Complete-system irrigation enterprises by surface, ground, gravity and pumped water; and by acreage irrigated: Census of 1950.....	28
County table--	
1.—Irrigated farms: Number, acreage, and other characteristics: Censuses of 1950 and 1945.....	31
2.—Irrigation enterprises: Number and characteristics, by counties: Censuses of 1950 and 1940:	
Part 1.....	33
Part 2.....	35
Part 3.....	37
Part 4.....	39
3.—Acreage irrigated, by drainage basin origin of water, and by counties in which acreage was located: Census of 1950.....	40
Drainage basin table--	
1.—Irrigation enterprises: Number and characteristics by drainage basins: Censuses of 1950 and 1940:	
Part 1.....	41
Part 2.....	42
Part 3.....	43
Part 4.....	44



LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 50,000 - 99,999 ACRES

SOUTH DAKOTA: ACRES OF IRRIGATED LAND, BY COUNTIES, 1949

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—IRRIGATION SUMMARY: 1890 TO 1950

Census year	All farms ¹ (number)	All land in farms ¹ (acres)	Irrigated farms ^{1 2} (number)	Irrigated acreage reported by—		Irrigation enterprises (number)	Total capital investment in irrigation enterprises (dollars)
				Farms ¹ (acres)	Irrigation enterprises (acres)		
1950.....	66,452	44,785,529	807	78,069	84,356	214	6,617,914
1945.....	68,705	43,031,964	708	52,895	(*)	(*)	(*)
1940.....	72,454	39,473,584	967	³ 54,073	60,198	274	5,395,610
1935.....	83,303	37,101,871	974	⁴ 56,565	(*)	(*)	(*)
1930.....	83,157	36,470,083	763	⁵ 59,361	67,107	121	4,502,117
1920.....	74,637	34,636,491	1,198	(**)	100,682	292	5,465,248
1910.....	77,644	26,016,892	500	(**)	63,248	395	3,043,140
1900.....	52,622	19,070,616	606	43,676	(*)	(*)	284,747
1890.....	50,158	11,396,460	189	15,717	(*)	(*)	63,968

*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 4,333 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..	214	274	121	292
Enterprises by type:				
Single-farm.....number..	190	233	105	(*)
Mutual:				
Unincorporated.....number..	13	8	15	(*)
Incorporated.....number..	8	13		(*)
Commercial.....number..				(*)
District.....number..	1			(*)
U.S. Bureau of Reclamation ¹.....number..	1	1	1	(*)
U.S. Bureau of Indian Affairs.....number..	1	18		(*)
State.....number..		1		(*)
City.....number..				(*)
Other.....number..				(*)
Irrigated land, total ².....acres..	84,356	60,198	67,107	100,682
Acreage irrigated, by type of enterprise: ³				
Single-farm.....acres..	16,854	10,606	11,268	31,664
Mutual:				
Unincorporated.....acres..	9,628	2,204	19,646	10,080
Incorporated.....acres..	6,689	12,329		2,280
Commercial.....acres..				
District.....acres..	⁴ 50,767			
U.S. Bureau of Reclamation ¹.....acres..		34,222	36,193	56,638
U.S. Bureau of Indian Affairs.....acres..	⁴ 55	815		20
State.....acres..		22		
City.....acres..				
Other.....acres..				
Acreage irrigated, by source of water: ^{3 5}				
Streams (and lakes).....acres..	82,748	57,871	66,226	95,692
Springs.....acres..	1,500	737	25	326
Flowing wells.....acres..	1,782	593	688	150
Pumped wells.....acres..	2,030	108		500
Sewage.....acres..				
Other and not reported.....acres..		278	328	3,864
Irrigated land artificially drained.....acres..	51,632	25,906	4,353	2,109
Irrigated land in need of drainage.....acres..	1,956	5,509	6,100	4,714
Irrigation works:				
Diversion dams.....total number..	281	258	91	207
Reservoirs.....number..	100	82	5	119
Total capacity (reported).....acre-feet..	204,693	209,785	203,124	212,264
Reservoir dams.....total number..	100	74	10	182
Canals and ditches.....total length, miles..	964	1,049	1,082	1,258
Pipe lines.....total length, miles..	8	17	9	7
Flowing wells.....number..	14	19	13	4
Pumped wells.....number..	27	16	1	1
Average pumping lift (reported).....feet..	27	55	(*)	(*)
Pumps.....number..	87	127	8	25
Average pumping lift from all sources.....feet..	(*)	20	27	21
Capital investment, total.....dollars..	6,617,914	5,395,610	4,502,117	5,465,248
Capital investment by type of enterprise:				
Single-farm.....dollars..	656,315	240,939	237,424	743,880
Mutual:				
Unincorporated.....dollars..	56,192	46,892	196,953	240,030
Incorporated.....dollars..	219,629	209,129		15,058
Commercial.....dollars..				
District.....dollars..	74,678			
U.S. Bureau of Reclamation ¹.....dollars..	⁵ 341,318	4,628,868	4,067,740	4,464,780
U.S. Bureau of Indian Affairs.....dollars..	² 268,782	267,782		1,500
State.....dollars..	1,000	1,000		
City.....dollars..				
Other.....dollars..				

*Not available.

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

SOUTH DAKOTA

13-25

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							Commercial, Indian, State, city, and other ¹
	All types	Single- farm	Mutual		District ¹	U.S. Bureau of Reclamation		
			Unincor- porated	Incorporated		Operated by Bureau ¹	Operated by water users ^{1 2}	
ENTERPRISES: FARMS AND LAND IRRIGATED								
Number of enterprises.....enterprises 1950..	214	190	13	8	1	1	1	1
.....enterprises 1940..	274	233	8	13	.....	1	(*) 1	19
Farms irrigated direct per enterprise.....farms 1949..	3.9	1.0	10.8	8.3	410.0	.....	410.0	10.0
Area irrigated direct.....acres 1949..	84,393	16,854	9,628	6,689	50,767	.....	50,767	455
.....acres 1939..	60,198	10,606	2,204	12,329	.....	34,222	(*)	837
Average per enterprise.....acres 1949..	394	89	741	836	50,767	.....	50,767	455
CHARACTERISTICS OF ENTERPRISES, 1949								
Multiple-purpose enterprises.....enterprises..	1	.....	.....	.....	.....	1	.....	.....
Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....	.....
Complete-system enterprises.....enterprises..	199	100	11	6	1	.....	1	1
Area irrigated direct.....acres..	79,553	15,814	8,728	3,789	50,767	.....	50,767	455
Enterprises by origin of water supply:								
No water from other enterprises.....enterprises reporting..	204	181	12	8	1	1	1	1
.....acres irrigated..	82,653	15,814	8,928	6,689	50,767	.....	50,767	455
Part of water from other enterprises.....enterprises reporting..	4	3	.....	.....	.....	.....	.....	.....
.....acres irrigated..	1,065	365	700	.....	.....	.....	.....	.....
All water from other enterprises.....enterprises reporting..	6	6	.....	.....	.....	.....	.....	.....
.....acres irrigated..	675	675	.....	.....	.....	.....	.....	.....
Enterprises by delivery of irrigation water:								
No water delivered.....enterprises reporting..	2	1	.....	.....	.....	1	.....	.....
Water delivered direct to farms only.....enterprises reporting..	209	189	12	6	1	.....	1	1
.....acres irrigated..	81,293	16,054	9,428	3,789	50,767	.....	50,767	455
Water delivered to farms and to other enterprises.....enterprises reporting..	3	.....	1	2	.....	.....	.....	.....
.....acres irrigated..	3,100	.....	200	2,900	.....	.....	.....	.....
Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:³								
All primary.....enterprises reporting..	211	188	13	8	1	.....	1	1
.....acres irrigated..	84,203	16,664	9,628	6,689	50,767	.....	50,767	455
Part primary, part supplemental.....enterprises reporting..	1	1	.....	.....	.....	.....	.....	.....
.....acres irrigated..	153	153	.....	.....	.....	.....	.....	.....
Supplemental irrigation.....acres irrigated..	37	37	.....	.....	.....	.....	.....	.....
All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:								
None.....enterprises reporting..	2	1	.....	.....	.....	1	.....	.....
1-3.....enterprises reporting..	193	180	5	.....	.....	.....	.....	.....
4-9.....enterprises reporting..	11	1	2	5	.....	.....	.....	.....
10-29.....enterprises reporting..	6	.....	5	3	.....	.....	.....	1
30-99.....enterprises reporting..	1	.....	1	.....	.....	.....	.....	.....
100-299.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
300-999.....enterprises reporting..	1	.....	.....	.....	1	.....	1	.....
1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:								
None.....enterprises reporting..	2	1	.....	.....	.....	1	.....	.....
1-29.....enterprises reporting..	64	64	.....	.....	.....	.....	.....	.....
30-99.....enterprises reporting..	74	73	1	.....	.....	.....	.....	.....
100-499.....enterprises reporting..	58	47	7	3	.....	.....	.....	1
500-999.....enterprises reporting..	8	4	2	2	.....	.....	.....	.....
1,000-2,999.....enterprises reporting..	6	1	2	3	.....	.....	.....	.....
3,000-9,999.....enterprises reporting..	1	.....	1	.....	.....	.....	.....	.....
10,000-29,999.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
30,000 or more.....enterprises reporting..	1	.....	.....	.....	1	.....	1	.....
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949								
Surface water:								
Gravity only.....enterprises reporting..	145	123	13	8	.....	1	.....	.....
.....acres irrigated..	28,693	12,376	9,628	6,689	.....	.....	.....	.....
Pumped only.....enterprises reporting..	37	36	.....	.....	.....	.....	.....	1
.....acres irrigated..	2,048	1,593	.....	.....	.....	.....	.....	455
Gravity and pumped.....enterprises reporting..	9	8	.....	.....	1	.....	1	.....
.....acres irrigated..	51,622	855	.....	.....	50,767	.....	50,767	.....
Ground water only (pumped from wells).....enterprises reporting..	16	16	.....	.....	.....	.....	.....	.....
.....acres irrigated..	713	713	.....	.....	.....	.....	.....	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	7	7	.....	.....	.....	.....	.....	.....
.....acres irrigated..	1,317	1,317	.....	.....	.....	.....	.....	.....
Stored water:								
None stored.....enterprises reporting..	154	133	13	8	.....	.....	.....	.....
.....acres irrigated..	27,345	11,028	9,628	6,689	.....	.....	.....	.....
Part stored.....enterprises reporting..	28	27	.....	.....	1	.....	1	.....
.....acres irrigated..	54,544	3,777	.....	.....	50,767	.....	50,767	.....
All stored.....enterprises reporting..	32	30	.....	.....	.....	1	.....	1
.....acres irrigated..	2,504	2,049	.....	.....	.....	.....	.....	455

*Not available.

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.

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

IRRIGATION OF AGRICULTURAL LANDS

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 ¹	U.S. Bureau of Reclamation		Commercial, Indian, State, city, and other ¹
			Unincorporated	Incorporated		Operated by Bureau ¹	Operated by water users ^{1 2}	
SOURCES OF SURFACE WATER, 1949³								
Streams (and lakes).....enterprises reporting..	181	159	11	8	1	1	1	1
.....acres irrigated..	82,748	15,402	9,435	6,689	50,767		50,767	455
Springs.....enterprises reporting..	9	7	2					
.....acres irrigated..	1,500	1,307	193					
Flowing wells.....enterprises reporting..	10							
.....acres irrigated..	1,782	1,782						
Drainage water.....enterprises reporting..	9							
.....acres irrigated..	296	296						
Sewage.....enterprises reporting..								
.....acres irrigated..								
Other sources.....enterprises reporting..								
.....acres irrigated..								
DRAINAGE OF IRRIGATED LAND, 1949								
Irrigated land drained:								
Enterprises reporting.....enterprises..	7	4	1	1	1		1	
Area supplied primary irrigation.....acres..	57,645	605	5,073	1,200	50,767		50,767	
Area artificially drained.....acres..	51,632	305	320	240	50,767		50,767	
Irrigated land in need of drainage:								
Enterprises reporting.....enterprises..	9	4	2	3				
Area supplied primary irrigation.....acres..	10,308	685	6,273	3,350				
Area in need of drainage.....acres..	1,956	71	1,180	705				
IRRIGATION WORKS, 1950								
Diversion dams.....enterprises reporting..	128	110	10	7	1		1	
.....dams..	281	263	10	7	1		1	
Diversion dams by material:								
Concrete or masonry.....dams..	13	7	3	3				
Timber.....dams..	12	5	5	2				
Earth and rock.....dams..	251	248	2	1				
Other, mixed, and not reported.....dams..	5	3		1				
Reservoirs.....enterprises reporting..	61	58			1	1	1	1
.....reservoirs..	100	97			1	1	1	1
Reservoirs for which capacity was reported, total capacity, acre-feet..	94	91			1	1	1	1
.....number..	204,693	5,250			177,500	15,143	177,500	6,800
Reservoirs by capacity:								
1-99 acre-feet.....reservoirs..	77	77						
100-999 acre-feet.....reservoirs..	13	13						
1,000 acre-feet and over.....reservoirs..	4	1			1	1	1	1
Reservoir dams by material:								
Concrete or masonry.....dams..	96	94				1		1
Earth and rock.....dams..	4	3			1		1	
Other, mixed, and not reported.....dams..	99	76	13	8	1		1	1
Canals and ditches.....enterprises reporting..	964	160	75	52	663		663	15
.....total length, miles..	17	13	3		1		1	
Pipelines and siphons.....enterprises reporting..	8	4	(4)		2		2	
.....total length, miles..	1				1		1	
Tunnels.....enterprises reporting..	1,300				1,300		1,300	
.....total length, feet..	10	10						
Flowing wells.....enterprises reporting..	14	14						
.....wells..	24	24						
Pumped wells.....enterprises reporting..	27	27						
.....wells..	26	26						
Wells for which pumping lift was reported, Average pumping lift, feet..	27	27						
Irrigation pumps.....enterprises reporting..	67	66			1		1	
.....pumps..	87	83			4		4	
Electric motors used for pumping, electric motors..	11	11						
.....	14	14						
Other motors and engines used for pumping, enterprises reporting..	58	57			1		1	
.....other motors and engines..	74	70			4		4	
SEASON OF IRRIGATION, 1949								
Water delivered only before July 1.....enterprises reporting..	57	57						
.....acres irrigated..	4,708	4,708						
Water delivered before and after July 1.....enterprises reporting..	119	97	12	8	1		1	1
.....acres irrigated..	77,140	10,371	8,858	6,689	50,767		50,767	455
Water delivered only after July 1.....enterprises reporting..	32	31	1					
.....acres irrigated..	2,408	1,638	770					
CAPITAL INVESTMENT, 1950 AND 1940								
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	5,395,610	240,939	46,892	209,129		4,628,868	(*)	269,782
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
Enterprises reporting.....enterprises 1950..	127	118	6	1	1	1	1	1
Amount.....dollars 1950..	1,222,304	415,376	9,300	10,500	74,678	712,450	74,678	
Area irrigated direct.....acres 1949..	62,214	12,074	1,030	450	48,660		48,660	
Total capital investment Jan. 1, 1950.....dollars 1950..	6,617,914	656,315	56,192	219,629	74,678	5,341,318	(*)	269,782
INDEBTEDNESS, 1950⁵								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	2				1	1	1	1
Amount.....dollars..	3,350,000				2,750,000	600,000	2,750,000	
Area irrigated direct.....acres..	50,767				50,767		50,767	
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..								
Amount.....dollars..								
Area irrigated direct.....acres..								

*Not available.
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.
³Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise; acreage represents acreage within the State.
⁴Less than 0.5.
⁵Not reported by single-farm enterprises.

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							Commercial, Indian, State, city, and other ¹
	All types	Single- farm	Mutual		District ¹	U.S. Bureau of Reclamation		
			Unincor- porated	Incorporated		Operated by Bureau ¹	Operated by water users ^{1 2}	
COST OF WATER TO FARMS, 1949³								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	212	189	13	8	1		1	1
Cost.....dollars..	145,929	17,095	9,199	6,225	112,500		112,500	910
Area irrigated direct.....acres..	84,393	16,854	9,628	6,689	50,767		50,767	455
Cost per acre irrigated direct.....dollars..	1.73	1.01	0.96	0.93	2.22		2.22	2.00
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	140	125	10	5				
acres irrigated.....	19,569	12,037	4,143	3,389				
\$1.00-\$1.99.....enterprises reporting..	22	17	2	3				
acres irrigated.....	10,706	2,208	5,198	3,300				
\$2.00-\$4.99.....enterprises reporting..	27	24	1		1		1	1
acres irrigated.....	53,226	1,717	287		50,767		50,767	455
\$5.00-\$9.99.....enterprises reporting..	12	12						
acres irrigated.....	714	714						
\$10.00 or more.....enterprises reporting..	11	11						
acres irrigated.....	178	178						
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	212	189	13	8	1		1	1
Cost.....dollars..	145,871	17,037	9,199	6,225	112,500		112,500	910
Area supplied primary irrigation.....acres..	84,356	16,817	9,628	6,689	50,767		50,767	455
Cost per acre supplied.....dollars..	1.73	1.01	0.96	0.93	2.22		2.22	2.00
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	1	1						
Cost.....dollars..	58	58						
Area supplied supplemental irrigation.....acres..	37	37						
Cost per acre supplied.....dollars..	1.57	1.57						
Cost to farms for purposes other than operation and maintenance: ⁴								
Enterprises reporting.....enterprises..	1				1		1	
Cost.....dollars..	36,500				36,500		36,500	
Area irrigated direct.....acres..	50,767				50,767		50,767	
Cost per acre irrigated.....dollars..	0.72				0.72		0.72	
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
Enterprises reporting.....enterprises..								
Amount.....dollars..								
Area irrigated direct.....acres..								
QUANTITIES OF WATER REPORTED, 1949⁴								
Total obtained from all sources ⁵.....enterprises reporting..	20		12	6	1		1	1
acres-foot..	183,231		25,244	14,870	139,717		139,717	3,400
Surface sources.....enterprises reporting..	20		12	6	1		1	1
acres-foot..	182,611		24,624	14,870	139,717		139,717	3,400
Pumped wells.....enterprises reporting..								
acres-foot..								
Other enterprises.....enterprises reporting..	1		1					
acres-foot..	620		620					
Conveyance loss ⁵.....enterprises reporting..	13		6	5	1		1	1
acres-foot..	75,559		4,014	1,704	69,501		69,501	340
Delivered: ⁵								
Direct to farms.....enterprises reporting..	20		12	6	1		1	1
acres-foot..	106,202		20,880	12,046	70,216		70,216	3,060
To other enterprises.....enterprises reporting..	3		1	2				
acres-foot..	1,470		350	1,120				
For use other than irrigation.....enterprises reporting..								
acres-foot..								
Delivered direct to farms for primary irrigation:								
Enterprises reporting.....enterprises..	20		12	6	1		1	1
Quantity delivered.....acres-foot..	105,230		19,908	12,046	70,216		70,216	3,060
Area supplied primary irrigation.....acres..	66,273		9,560	5,491	50,767		50,767	455
Quantity per acre supplied.....acres-foot..	1.6		2.1	2.2	1.4		1.4	6.7
Delivered direct to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..								
Quantity delivered.....acres-foot..								
Area supplied supplemental irrigation.....acres..								
Quantity per acre supplied.....acres-foot..								
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	128,234		9,199	5,625	112,500		112,500	910
Average cost per acre-foot.....dollars..	1.22		0.46	0.47	1.60		1.60	0.30
Cost for supplemental irrigation.....dollars..								
Average cost per acre-foot.....dollars..								
Measurement of water to farms:								
No water measured.....enterprises reporting..	15		9	4			1	1
acres..	8,046		3,700	3,891				455
Part of water measured.....enterprises reporting..	6		3	2	1		1	
acres..	58,227		5,860	1,600	50,767		50,767	
All water measured.....enterprises reporting..								
acres..								

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.
³Enterprises with reported cost of \$0 in 1949 are included.
⁴Not reported by single-farm enterprises.
⁵For interstate enterprises, data represent characteristics of the entire enterprise.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
ENTERPRISES: FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises..	199	133	35	16	15	134	59	5	1
Farms irrigated direct per enterprise.....farms..	3.9	2.2	1.3	1.0	28.3	1.0	2.5	17.8	410.0
Area irrigated.....acres..	79,553	24,063	2,028	713	52,749	4,619	14,833	9,334	50,767
Average per enterprise.....acres..	400	181	58	45	3,517	34	251	1,867	50,767
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..									
Area irrigated.....acres..									
Type of enterprise:									
Single-farm.....enterprises..	180	116	34	16	14	133	46	1	
.....acres..	15,814	11,546	1,573	713	1,982	4,551	10,263	1,000	
Mutual:									
Unincorporated.....enterprises..	11	11				1	7	3	
.....acres irrigated..	8,728	8,728				68	1,617	7,043	
Incorporated.....enterprises..	6	6					5	1	
.....acres irrigated..	3,789	3,789					2,498	1,291	
Commercial.....enterprises..									
.....acres irrigated..									
District ⁴.....enterprises..	1								1
.....acres irrigated..	50,767				50,767				50,767
U.S. Bureau of Reclamation.....enterprises..									
.....acres irrigated..									
U.S. Bureau of Indian Affairs ⁴.....enterprises..	1								
.....acres irrigated..	455		455				455		
State.....enterprises..									
.....acres irrigated..									
City.....enterprises..									
.....acres irrigated..									
Enterprises by primary and supplemental irrigation: ⁵									
All primary.....enterprises reporting..	199	133	35	16	15	134	59	5	1
.....acres irrigated..	79,553	24,063	2,028	713	52,749	4,619	14,833	9,334	50,767
Part primary, part supplemental.....enterprises reporting..									
Primary irrigation.....acres irrigated..									
Supplemental irrigation.....acres irrigated..									
All supplemental.....enterprises reporting..									
.....acres irrigated..									
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	184	120	34	16	14	134	49	1	
4-9.....enterprises reporting..	9	9					8	1	
10-29.....enterprises reporting..	4	3	1				2	2	
30-99.....enterprises reporting..	1	1						1	
100-299.....enterprises reporting..									
300-999.....enterprises reporting..	1					1			1
1,000 and over.....enterprises reporting..									
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	62	33	18	8	3	62			
30-99.....enterprises reporting..	72	51	10	6	5	72			
100-499.....enterprises reporting..	52	38	7	2	5		52		
500-999.....enterprises reporting..	7	7					7		
1,000-2,999.....enterprises reporting..	4	3			1			4	
3,000-9,999.....enterprises reporting..	1	1						1	
10,000-29,999.....enterprises reporting..									
30,000 and over.....enterprises reporting..	1				1				1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	133	133				84	45	4	
.....acres irrigated..	24,063	24,063				3,274	12,455	8,334	
Pumped only.....enterprises reporting..	35		35			28	7		
.....acres irrigated..	2,028		2,028			655	1,373		
Gravity and pumped.....enterprises reporting..	8				8	4	3		1
.....acres irrigated..	51,432				51,432	180	485		50,767
Ground water only (pumped from wells).....enterprises reporting..	16			16		14	2		
.....acres irrigated..	713			713		393	320		
Surface (gravity or pumped) and ground.....enterprises reporting..	7				7	4	2	1	
.....acres irrigated..	1,317				1,317	117	200	1,000	
Stored water:									
None stored.....enterprises reporting..	142	93	26	16	7	96	42	4	
.....acres irrigated..	22,550	20,194	1,058	713	585	3,267	10,949	8,334	
Part stored.....enterprises reporting..	26	14	4		8	14	10	1	1
.....acres irrigated..	54,499	2,201	134		52,164	537	2,195	1,000	50,767
All stored.....enterprises reporting..	31	26	5		7	24	7		
.....acres irrigated..	2,504	1,668	836			815	1,689		

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.

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 ⁴
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁵									
Streams (and lakes).....enterprises reporting..	167	121	32	.....	14	106	55	5	1
.....acres irrigated..	78,063	23,307	2,009	.....	52,747	3,829	14,133	9,334	50,767
Springs.....enterprises reporting..	8	6	1	.....	1	6	1	1	.....
.....acres irrigated..	1,345	333	12	.....	1,000	220	125	1,000	.....
Flowing wells.....enterprises reporting..	10	4	2	.....	4	5	4	1	.....
.....acres irrigated..	1,782	450	45	.....	1,287	51	731	1,000	.....
Drainage water.....enterprises reporting..	8	5	2	.....	1	8	.....	.....	.....
.....acres irrigated..	276	215	11	.....	50	276	.....	.....	.....
Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	5	3	1	.....	1	2	1	1	1
.....acres..	56,265	5,338	160	.....	50,767	10	415	5,073	50,767
Acreage supplied primary irrigation.....acres..	51,382	585	30	.....	50,767	10	285	320	50,767
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	5	5	.....	.....	.....	2	2	.....	.....
.....acres..	7,028	7,028	.....	.....	.....	50	705	6,273	.....
Acreage in need of drainage.....acres..	1,266	1,266	.....	.....	.....	1	85	1,180	.....
IRRIGATION WORKS									
Diversions dams.....enterprises reporting..	119	104	6	1	8	71	43	4	1
.....dams..	271	243	6	2	20	159	107	4	1
Diversions dams by material:									
Concrete or masonry.....dams..	10	10	.....	.....	.....	3	6	1	.....
.....dams..	11	11	.....	.....	.....	3	7	1	.....
Earth or rock.....dams..	245	218	6	2	19	150	93	2	.....
.....dams..	5	4	.....	.....	1	3	1	.....	.....
Other, mixed, and not reported.....dams..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reservoirs.....enterprises reporting..	58	41	9	.....	8	39	17	1	1
.....reservoirs..	97	73	12	.....	12	61	34	1	1
Reservoirs for which capacity was reported.....reservoirs..	91	68	11	.....	12	57	32	1	1
.....total capacity, acre-feet..	189,513	3,518	7,063	.....	178,932	2,148	8,865	1,000	177,500
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	75	56	10	.....	9	48	27	.....	.....
.....reservoirs..	13	12	.....	.....	1	9	4	.....	.....
1,000 acre-feet and over.....reservoirs..	3	.....	1	.....	2	.....	1	.....	1
Reservoir dams by material:									
Concrete or masonry.....dams..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....dams..	93	71	11	.....	11	60	32	1	.....
Earth or rock.....dams..	4	2	1	.....	1	1	2	.....	1
.....dams..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other, mixed, and not reported.....dams..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canals and ditches.....enterprises reporting..	86	60	12	5	9	46	34	5	1
.....total length, miles..	920	212	29	4	676	60	146	52	663
Pipelines and siphons.....enterprises reporting..	16	6	8	1	1	10	5	.....	1
.....total length, miles..	7	2	3	(⁶)	2	3	2	.....	2
Tunnels.....enterprises reporting..	1	.....	.....	.....	1	.....	.....	.....	.....
.....total length, feet..	1,300	.....	.....	.....	1,300	.....	.....	.....	1,300
Flowing wells.....enterprises reporting..	10	4	2	.....	4	5	4	1	.....
.....wells..	14	4	2	.....	8	7	4	3	.....
Pumped wells.....enterprises reporting..	24	.....	.....	16	8	19	4	1	.....
.....wells..	27	.....	.....	18	9	22	4	1	.....
Wells for which pumping lift was reported.....wells..	26	.....	.....	17	9	21	4	1	.....
.....feet..	27	.....	.....	21	39	26	28	50	.....
Average pumping lift.....feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irrigation pumps.....enterprises reporting..	64	33	16	15	49	13	1	1	1
.....pumps..	84	41	19	24	64	15	1	4	.....
Electric motors used for pumping.....enterprises reporting..	11	3	4	4	9	1	1	.....	.....
.....electric motors..	14	3	6	5	12	1	1	.....	.....
Other motors and engines used for pumping.....enterprises reporting..	54	29	12	13	41	12	.....	.....	.....
.....other motors and engines..	70	37	13	20	51	15	.....	.....	4
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	57	51	2	.....	4	43	14	.....	.....
.....acres irrigated..	4,708	4,348	90	.....	270	1,833	2,875	.....	.....
Water delivered before and after July 1.....enterprises reporting..	107	69	20	9	9	63	39	4	1
.....acres irrigated..	72,320	18,327	1,501	313	52,179	1,882	11,107	8,564	50,767
Water delivered only after July 1.....enterprises reporting..	31	10	13	6	2	25	5	1	.....
.....acres irrigated..	2,388	1,266	437	385	300	867	751	770	.....
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	120	71	22	14	13	78	40	1	1
.....dollars..	494,654	233,388	118,094	28,644	114,528	128,901	290,075	1,000	74,678
Area irrigated.....acres..	61,269	9,128	944	680	50,517	2,766	8,843	1,000	48,660
INDEBTEDNESS⁷									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	1	.....	.....	.....	1	.....	.....	.....	1
.....dollars..	2,750,000	.....	.....	.....	2,750,000	.....	.....	.....	2,750,000
Area irrigated.....acres..	50,767	.....	.....	.....	50,767	.....	.....	.....	50,767
Acreage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....dollars..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Area irrigated.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ "Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water direct to farms, less than 10 percent to other irrigation enterprises; and (2) obtained less than 10 percent of their water from other irrigation enterprises. Enterprises that delivered no water in 1949 are excluded.
² Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise.
³ Surface water includes water from springs and from flowing wells.
⁴ 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. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State.
⁶ Less than 0.5.
⁷ Not reported by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²			Acres irrigated ²				
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over ⁴
		All gravity	All pumped						
COST OF WATER TO FARMS⁵									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	199	133	35	16	15	134	59	5	1
Cost.....dollars..	140,545	18,184	5,288	1,850	115,223	6,388	12,788	8,869	112,500
Area irrigated.....acres..	79,553	24,063	2,028	713	52,749	4,619	14,833	9,334	50,767
Cost per acre irrigated.....dollars..	1.77	0.76	2.61	2.59	2.18	1.38	0.86	0.95	2.22
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	133	121	5	4	3	87	42	4	
.....acres irrigated..	18,219	16,299	425	315	1,180	3,421	10,537	4,261	
\$1.00-\$1.99.....enterprises reporting..	17	6	6	3	2	8	8	1	
.....acres irrigated..	7,236	6,407	324	205	300	319	1,644	5,073	
\$2.00-\$4.99.....enterprises reporting..	26	4	13	3	6	18	7		1
.....acres irrigated..	53,206	927	1,048	79	51,152	487	1,952		50,767
\$5.00-\$9.99.....enterprises reporting..	12	1	5	3	3	10	2		
.....acres irrigated..	714	400	165	47	102	214	500		
\$10.00 or more.....enterprises reporting..	11	1	6	3	1	11			
.....acres irrigated..	178	30	66	67	15	178			
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	199	133	35	16	15	134	59	5	1
Cost.....dollars..	140,545	18,184	5,288	1,850	115,223	6,388	12,788	8,869	112,500
Area supplied primary irrigation.....acres..	79,553	24,063	2,028	713	52,749	4,619	14,833	9,334	50,767
Cost per acre supplied.....dollars..	1.77	0.76	2.61	2.59	2.18	1.38	0.86	0.95	2.22
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..									
Cost.....dollars..									
Area supplied supplemental irrigation.....acres..									
Cost per acre supplied.....dollars..									
Cost to farms for purposes other than operation and maintenance: ⁶									
Enterprises reporting.....enterprises..	1				1				1
Cost.....dollars..	36,500				36,500				36,500
Area irrigated.....acres..	50,767				50,767				50,767
Cost per acre irrigated.....dollars..	0.72				0.72				0.72
Arrearage in payments by farms, Jan. 1, 1950: ⁶									
Enterprises reporting.....enterprises..									
Amount.....dollars..									
Area irrigated.....acres..									
QUANTITIES OF WATER REPORTED⁶									
Total obtained from all sources ⁷.....enterprises reporting..	16	14	1		1		11	4	1
.....acre-feet..	173,151	30,034	3,400		139,717		11,499	21,935	139,717
Surface sources.....enterprises reporting..	16	14	1		1		11	4	1
.....acre-feet..	173,151	30,034	3,400		139,717		11,499	21,935	139,717
Pumped wells.....enterprises reporting..									
.....acre-feet..									
Other enterprises.....enterprises reporting..									
.....acre-feet..									
Conveyance loss ⁷.....enterprises reporting..	10	8	1		1		5	4	1
.....acre-feet..	74,191	4,350	340		69,501		1,488	3,202	69,501
Delivered: ⁷									
Direct to farms.....enterprises reporting..	16	14	1		1		11	4	1
.....acre-feet..	98,960	25,684	3,060		70,216		10,011	18,733	70,216
To other enterprises.....enterprises reporting..									
.....acre-feet..									
For use other than irrigation.....enterprises reporting..									
.....acre-feet..									
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	16	14	1		1		11	4	1
Quantity delivered.....acre-feet..	97,988	24,712	3,060		70,216		10,011	17,761	70,216
Acreage supplied primary irrigation.....acres..	62,473	11,251	455		50,767		3,372	8,334	50,767
Quantity per acre supplied.....acre-feet..	1.6	2.2	6.7		1.4		3.0	2.1	1.4
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..									
Quantity delivered.....acre-feet..									
Acreage supplied supplemental irrigation.....acres..									
Quantity per acre supplied.....acre-feet..									
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	123,834	10,424	910		112,500		2,515	8,819	112,500
Average cost per acre-foot.....dollars..	1.26	0.42	0.30		1.60		0.25	0.50	1.60
Cost for supplemental irrigation.....dollars..									
Average cost per acre-foot.....dollars..									
Measurement of water to farms:									
No water measured.....enterprises reporting..	11	10	1				8	3	
.....acres..	5,446	4,991	455				2,185	3,261	
Part of water measured.....enterprises reporting..	4	3			1		2	1	1
.....acres..	56,527	5,760			50,767		687	5,073	50,767
All water measured.....enterprises reporting..									
.....acres..									

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

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.

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

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

⁶Not reported by single-farm enterprises.

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

SOUTH DAKOTA

13-31

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	Butte	Charles Mix	Custer	Fall River	Harding	Jackson
1	Irrigated farms.....number 1950..	807	447	3	22	71	13	3
2	.....number 1945..	708	415	.....	20	16	7	6
3	Proportion of all farms.....percent 1950..	0.1	67.0	0.2	4.7	15.7	2.9	1.3
4	Land in irrigated farms.....acres 1950..	1,175,463	432,829	2,241	70,080	276,941	75,427	7,850
5	.....average per farm, acres 1950..	1,456.6	868.3	747.0	3,185.5	3,900.6	5,802.1	2,616.7
6	Value of land and buildings.....average per farm, dollars 1950..	25,546	17,645	.....	56,900	37,422	93,340	18,240
7	.....average per acre, dollars 1950..	16.91	17.22	.....	15.03	10.07	9.42	7.85
8	Proportion of irrigated farms reporting value.....percent 1950..	90	94	.....	77	99	46	333
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	93	99	.....	92	94	79	296
Land in irrigated farms according to use, 1949:								
10	Cropland harvested.....farms reporting..	790	435	3	21	71	13	3
11	.....acres..	146,500	67,567	548	4,795	20,540	4,128	437
12	Cropland used only for pasture.....acres..	16,374	5,889	.....	12	2,114	100	205
13	Cropland not harvested and not pastured.....acres..	16,246	5,433	163	625	7,261	489	15
14	Woodland pastured.....acres..	26,876	10,657	1,257	1,350	3,813	300	160
15	Other pasture (not cropland and not woodland).....acres..	943,988	326,685	200	62,690	240,291	69,547	6,959
16	Land, pastured, total.....farms reporting..	765	416	3	21	71	13	3
17	.....acres..	987,238	343,231	1,457	64,052	246,218	69,947	7,324
18	Irrigated land in farms.....acres 1949..	78,069	49,891	302	2,375	8,305	865	47
19	.....acres 1944..	52,895	34,014	.....	1,410	823	1,045	50
20	Land irrigated by sprinklers.....farms reporting 1949..	12	1	1	1	1	.....	.....
21	.....acres 1949..	391	2	10	12	200	6	.....
Irrigated land in farms according to use, 1949:								
22	Irrigated cropland harvested.....farms reporting..	761	430	3	20	61	12	1
23	.....acres..	66,926	44,774	137	1,748	5,854	415	2
24	Irrigated pasture.....farms reporting..	248	166	2	6	20	1	3
25	.....acres..	9,483	4,311	110	422	2,256	360	45
26	Irrigated wild grass pasture.....farms reporting..	154	104	1	5	17	1	.....
27	.....acres..	5,960	2,648	100	222	2,096	80	.....
28	Irrigated tame grass pasture.....farms reporting..	117	79	1	1	4	1	3
29	.....acres..	3,523	1,663	10	200	160	280	45
30	Irrigated cropland not harvested and not pastured.....farms reporting..	75	45	1	4	6	3	.....
31	.....acres..	1,660	806	55	205	195	90	.....
Irrigated farms by acres irrigated in 1949:								
32	1-9 acres.....farms reporting..	88	15	1	.....	3	1	1
33	10-19 acres.....farms reporting..	60	22	.....	3	4	5	1
34	20-29 acres.....farms reporting..	53	24	.....	2	9	1	.....
35	30-49 acres.....farms reporting..	100	47	1	3	10	1	1
36	50-99 acres.....farms reporting..	202	128	.....	6	19	3	.....
37	100-199 acres.....farms reporting..	200	141	.....	4	13	1	.....
38	200 acres and over.....farms reporting..	104	70	1	4	13	1	.....
Irrigated farms by tenure of operator, 1950:								
39	Full owners.....number..	348	203	1	9	14	1	1
40	Part owners.....number..	283	136	1	2	51	11	2
41	Managers.....number..	19	4	1	.....	.....	.....	.....
42	Tenants.....number..	157	104	.....	5	6	1	.....
Land in wholly and in partly irrigated farms:								
43	Wholly irrigated farms.....number 1950..	262	190	.....	4	5	1	.....
44	All land.....acres 1950..	156,266	82,579	.....	20,740	32,781	8,160	.....
45	Cropland harvested.....acres 1949..	25,051	21,246	.....	790	860	100	.....
46	Irrigated land.....acres 1949..	28,383	23,686	.....	810	1,190	100	.....
47	Partly irrigated farms.....number 1950..	545	257	3	18	66	12	3
48	All land.....acres 1950..	1,019,197	350,250	2,241	49,340	244,160	67,267	7,850
49	Cropland harvested, total.....farms reporting 1949..	528	245	3	17	66	12	3
50	.....acres 1949..	121,449	46,321	548	4,005	19,680	4,028	437
51	Irrigated land.....acres 1949..	49,686	26,205	302	1,565	7,115	765	47
52	Irrigated cropland harvested.....farms reporting 1949..	499	240	3	16	56	11	1
53	.....acres 1949..	41,875	23,528	137	958	4,994	315	2
Characteristics of wholly irrigated and nonirrigated farms:								
54	Wholly irrigated farms.....number 1950..	262	190	.....	4	5	1	.....
55	Average acreage per farm:							
55	All land.....acres 1949..	596.4	434.6	.....	5,185.0	6,556.2	8,160.0	.....
56	Cropland harvested.....acres 1949..	95.6	111.8	.....	197.5	172.0	100.0	.....
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.2	0.1	.....	.....	0.4	.....	.....
58	Vegetables harvested for sale.....acres 1949..	0.4	0.2	.....	.....	0.2	.....	.....
59	Small grains (including sorghums).....acres 1949..	38.7	45.7	.....	.....	8.0	.....	.....
60	All hay.....acres 1949..	34.5	32.8	.....	197.5	163.0	100.0	.....
Farms by tenure of operator:								
61	Full owners and managers.....number 1950..	147	98	.....	1	2	.....	.....
62	Part owners.....number 1950..	53	41	.....	2	3	1	.....
63	Tenants.....number 1950..	62	51	.....	1	.....	.....	.....
64	Value of land and buildings per farm.....dollars 1950..	15,531	13,409	.....	55,366	132,250	81,600	.....
65	Nonirrigated farms.....number 1950..	65,645	221	1,655	447	380	433	225
66	Average acreage per farm:							
66	All land.....acres 1949..	664.3	4,008.3	414.8	1,393.5	1,575.0	3,562.1	1,535.1
67	Cropland harvested.....acres 1949..	264.8	178.6	259.7	108.9	168.3	288.6	241.0
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(1)	(1)	0.1	(1)	0.1	(1)	(1)
69	Vegetables harvested for sale.....acres 1949..	(1)	(1)	(1)	(1)	(1)	(1)	(1)
70	Small grains (including sorghums).....acres 1949..	140.8	33.9	108.4	36.4	80.6	119.3	100.4
71	All hay.....acres 1949..	65.7	134.4	36.4	68.7	61.7	163.4	133.1
Farms by tenure of operator:								
72	Full owners and managers.....number 1950..	20,554	82	385	166	113	98	107
73	Part owners.....number 1950..	25,051	108	694	231	202	302	100
74	Tenants.....number 1950..	20,040	31	576	50	65	33	18
75	Value of land and buildings per farm.....dollars 1950..	20,769	25,179	20,696	19,372	18,282	30,697	15,987
Irrigated farms and irrigated land by origin of water, 1949:								
76	Individually operated supply works and—							
77	No other irrigation enterprise.....farms reporting..	197	2	3	21	67	13	1
78	.....acres irrigated..	16,057	80	302	2,185	8,067	865	7
79	1 other irrigation enterprise.....farms reporting..	5	1	.....	.....	.....	.....	1
80	.....acres irrigated..	382	70	.....	.....	.....	.....	10
81	2 or more other irrigation enterprises.....farms reporting..	3	.....	.....	1	1	.....	.....
81	.....acres irrigated..	850	.....	.....	190	120	.....	.....
No individually operated supply works but—								
82	1 other irrigation enterprise.....farms reporting..	573	434</					

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)		Lawrence	Meade	Minnehaha	Pennington	Perkins	Shannon	Union	All other counties
1	Irrigated farms.....number 1950..	77	34	3	84	3	10	8	29
2	.....1945..	87	16	1	90	.....	7	.....	43
3	Proportion of all farms.....percent 1950..	19.8	3.2	0.1	9.4	0.3	2.2	0.6	0.1
4	Land in irrigated farms.....acres 1950..	39,895	52,618	827	132,544	2,308	24,088	1,746	56,069
5	.....average per farm, acres 1950..	518.1	1,547.6	275.7	1,577.9	769.3	2,408.8	218.2	1,933.4
6	Value of land and buildings.....average per farm, dollars 1950..	24,776	21,243	26,500	44,825	.....	17,691	38,500	64,748
7	.....average per acre, dollars 1950..	40.12	17.66	311.76	25.64	.....	10.58	250.00	24.38
8	Proportion of irrigated farms reporting value.....percent 1950..	92	82	167	68	.....	150	62	66
9	Proportion of land in irrigated farms for which value was reported.....percent 1950..	110	64	51	75	.....	111	44	90
Land in irrigated farms according to use, 1949:									
10	Cropland harvested.....farms reporting..	74	33	3	84	3	10	8	29
11	.....acres..	7,744	8,492	692	14,645	331	2,975	1,521	12,085
12	Cropland used only for pasture.....acres..	1,162	442	.....	6,025	.....	39	80	306
13	Cropland not harvested and not pastured.....acres..	449	436	10	475	128	88	59	615
14	Woodland pastured.....acres..	2,936	20	.....	1,899	.....	510	.....	3,974
15	Other pasture (not cropland and not woodland).....acres..	27,104	42,495	95	107,407	1,840	20,317	23	38,335
16	Land pastured, total.....farms reporting..	61	34	30	75	3	7	5	23
17	.....acres..	31,202	42,957	95	115,331	1,840	20,866	103	42,615
18	Irrigated land in farms.....acres 1949..	3,011	2,491	95	7,975	.....	633	472	1,537
19	.....1944..	4,240	1,258	10	8,783	.....	794	.....	468
20	Land irrigated by sprinklers.....farms reporting 1949..	1	1	2	.....	1	.....	.....	2
21	.....acres 1949..	3	15	65	.....	50	.....	.....	28
Irrigated land in farms according to use, 1949:									
22	Irrigated cropland harvested.....farms reporting..	73	29	3	82	3	10	7	27
23	.....acres..	2,789	2,196	95	6,619	70	556	418	1,253
24	Irrigated pasture.....farms reporting..	18	6	.....	18	.....	2	2	4
25	.....acres..	153	292	.....	1,344	.....	37	47	106
26	Irrigated wild grass pasture.....farms reporting..	10	3	.....	.....	.....	.....	.....	3
27	.....acres..	54	190	.....	489	.....	.....	.....	81
28	Irrigated tame grass pasture.....farms reporting..	8	4	.....	10	.....	2	2	2
29	.....acres..	99	102	.....	855	.....	37	47	25
30	Irrigated cropland not harvested and not pastured.....farms reporting..	5	2	.....	.....	.....	.....	.....	.....
31	.....acres..	69	3	.....	12	.....	40	7	170
Irrigated farms by acres irrigated in 1949:									
32	1-9 acres.....farms reporting..	33	4	.....	16	1	1	1	11
33	10-19 acres.....farms reporting..	8	4	.....	8	1	1	1	2
34	20-29 acres.....farms reporting..	8	1	.....	3	.....	2	.....	3
35	30-49 acres.....farms reporting..	11	4	3	12	.....	3	2	2
36	50-90 acres.....farms reporting..	8	10	.....	20	.....	.....	.....	4
37	100-199 acres.....farms reporting..	6	9	.....	17	.....	3	1	5
38	200 acres and over.....farms reporting..	3	2	.....	8	.....	.....	.....	2
Irrigated farms by tenure of operator, 1950:									
39	Full owners.....number..	51	13	.....	44	1	.....	3	10
40	Part owners.....number..	18	14	3	21	2	.....	1	13
41	Managers.....number..	1	.....	.....	3	.....	4	.....	4
42	Tenants.....number..	8	6	.....	16	.....	5	4	2
Land in wholly and in partly irrigated farms:									
43	Wholly irrigated farms.....number 1950..	33	6	.....	18	1	1	1	2
44	All land.....acres 1950..	883	1,116	.....	9,432	240	38	160	137
45	Cropland harvested.....acres 1949..	314	546	.....	940	5	38	123	89
46	Irrigated land.....acres 1949..	325	569	.....	1,378	5	38	160	122
47	Partly irrigated farms.....number 1950..	44	28	3	66	2	.....	7	27
48	All land.....acres 1950..	39,012	51,502	827	123,112	2,068	24,050	1,586	55,932
49	Cropland harvested, total.....farms reporting 1949..	41	27	3	66	2	9	7	27
50	.....acres 1949..	7,430	7,946	692	13,705	326	2,937	1,398	11,996
51	Irrigated land.....acres 1949..	2,686	1,922	95	6,597	65	595	312	1,415
52	Irrigated cropland harvested.....farms reporting 1949..	40	23	3	64	2	9	6	25
53	.....acres 1949..	2,475	1,650	95	5,679	65	518	295	1,164
Characteristics of wholly irrigated and nonirrigated farms:									
54	Wholly irrigated farms.....number 1950..	33	6	.....	18	1	1	1	2
55	Average acreage per farm: All land.....acres 1949..	26.8	186.0	.....	524.0	240.0	38.0	160.0	68.5
56	Cropland harvested.....acres 1949..	9.5	91.0	.....	52.2	5.0	38.0	123.0	44.5
57	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.6	(¹)	.....	0.1	.....	.....	.....	.....
58	Vegetables harvested for sale.....acres 1949..	0.6	.....	.....	1.2	.....	.....	.....	11.0
59	Small grains (including sorghums).....acres 1949..	1.0	25.5	.....	5.4	.....	.....	50.0	14.0
60	All hay.....acres 1949..	4.1	20.7	.....	42.3	4.0	38.0	18.0	11.0
61	Farms by tenure of operator: Full owners and managers.....number 1950..	27	2	.....	16	.....	.....	.....	1
62	Part owners.....number 1950..	2	.....	.....	1	.....	.....	.....	.....
63	Tenants.....number 1950..	4	2	.....	1	.....	1	1	1
64	Value of land and buildings per farm.....dollars 1950..	8,771	13,000	.....	21,000	.....	.....	.....	.....
65	Nonirrigated farms.....number 1950..	312	1,026	2,436	806	930	454	1,415	54,905
66	Average acreage per farm: All land.....acres 1949..	487.9	2,020.8	205.8	1,134.1	1,811.3	1,921.9	191.8	591.2
67	Cropland harvested.....acres 1949..	100.3	246.2	154.3	238.0	328.2	178.2	149.1	276.3
68	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	0.1	(¹)	0.1	0.1	(¹)	(¹)	(¹)	(¹)
69	Vegetables harvested for sale.....acres 1949..	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
70	Small grains (including sorghums).....acres 1949..	39.5	96.6	63.1	115.8	184.6	71.3	57.3	64.5
71	All hay.....acres 1949..	50.2	124.2	15.8	87.4	127.7	92.6	11.0	32.0
72	Farms by tenure of operator: Full owners and managers.....number 1950..	162	395	897	334	350	185	458	16,822
73	Part owners.....number 1950..	95	497	499	338	484	183	287	21,031
74	Tenants.....number 1950..	55	134	1,040	134	96	86	670	17,052
75	Value of land and buildings per farm.....dollars 1950..	13,339	22,031	25,953	20,740	20,718	13,985	31,402	20,305
Irrigated farms and irrigated land by origin of water, 1949:									
76	Individually operated supply works and—								
77	No other irrigation enterprise.....farms reporting..	10	11	3	23	3	3	8	29
78	.....acres irrigated..	586	700	95	877	70	214	472	1,537
79	1 other irrigation enterprise.....farms reporting..	1	1	.....	1	.....	.....	.....	.....
80	.....acres irrigated..	259	40	.....	3	.....	.....	.....	.....
81	2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	1	.....	.....	.....	.....
	.....acres irrigated..	.....	.....	.....	540	.....	.....	.....	.....
82	No individually operated supply works but—								
83	1 other irrigation enterprise.....farms reporting..	62	22	.....	44	.....	7	.....	.....
84	.....acres irrigated..	1,830	1,751	.....	2,847	.....	419	.....	.....
85	2 or more other irrigation enterprises.....farms reporting..	4	.....	.....	15	.....	.....	.....	.....
	.....acres irrigated..	336	.....	.....	3,708	.....	.....	.....	.....

¹Less than 0.05.

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

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

Item (For definitions and explanations, see text)	The State	Butte	Charles Mix	Custer	Fall River	Harding	Jackson
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	214	8	3	22	71	12	3
2 1940..	274	11	9	36	18	10	(*)
3 Intercounty enterprises.....enterprises 1950..	2	2					
4 Irrigated farms ¹.....farms 1950..	807	447	3	22	71	13	3
5 Average per enterprise.....farms 1950..	3.8	55.9	1.0	1.0	1.0	1.1	1.0
6 Farms irrigated direct per enterprise ².....farms 1950..	3.9	58.0	1.0	1.0	1.1	1.0	1.0
7 Irrigated land ¹.....acres 1949..	84,356	55,018	302	2,478	8,818	765	47
8 1939..	60,198	38,460	255	941	2,574	588	(*)
9 Average per irrigated farm.....acres 1949..	108.7	123.1	100.7	112.6	124.2	58.8	15.7
10 Average per enterprise.....acres 1949..	394	6,877	101	113	124	64	16
11 Average acreage irrigated direct per enterprise ².....acres 1949..	394	6,877	101	114	124	64	16
Type of enterprise, 1950:							
12 Single-farm.....enterprises..	190	4	3	22	69	12	3
13 acres irrigated..	16,854	115	302	2,515	8,625	765	47
Mutual:							
14 Unincorporated.....enterprises..	13	2			2		
15 acres irrigated..	9,628	(3)			(3)		
16 Incorporated.....enterprises..	8	1					
17 acres irrigated..	6,689	(3)					
18 Commercial.....enterprises..							
19 acres irrigated..							
20 District ⁴.....enterprises..	1	1					
21 acres irrigated..	50,767	48,660					
22 U. S. Bureau of Reclamation ⁴.....enterprises..	1						
23 acres irrigated..							
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	1						
25 acres irrigated..	455						
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..	145	4	1	18	58	11	
31 acres irrigated..	28,693	6,293	255	1,998	6,770	759	
32 Pumped only.....enterprises reporting..	37	3	1	2	4	1	2
33 acres irrigated..	2,048	65	42	217	443	6	37
34 Gravity and pumped.....enterprises reporting..	9	1		2	4		1
35 acres irrigated..	51,622	48,660		300	345		10
36 Ground water only (pumped from wells).....enterprises reporting..	16		1		1		
37 acres irrigated..	713		5		60		
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	7				4		
39 acres irrigated..	1,317				1,200		
Stored water:							
40 None stored.....enterprises reporting..	154	5	2	17	52	1	1
41 acres irrigated..	27,345	6,288	260	1,763	5,627	6	30
42 Part stored.....enterprises reporting..	28	3	1	3	15		2
43 acres irrigated..	54,544	48,730	42	535	2,911		17
44 All stored.....enterprises reporting..	32			2	4	11	
45 acres irrigated..	2,504			217	280	759	
Sources of surface water, 1949:⁵							
46 Streams (and lakes).....enterprises reporting..	181	7	1	21	68	12	3
47 acres irrigated..	82,748	54,968	42	2,503	8,565	765	47
48 Springs.....enterprises reporting..	9			1	3		
49 acres irrigated..	1,500			12	1,193		
50 Flowing wells.....enterprises reporting..	10		2	1	3		
51 acres irrigated..	1,782		297	110	1,176		
52 Drainage water.....enterprises reporting..	9	2			1		1
53 acres irrigated..	296	70			50		7
54 Sewage.....enterprises reporting..							
55 acres irrigated..							
56 Other sources.....enterprises reporting..							
57 acres irrigated..							
Drainage of irrigated land:⁶							
Irrigated land drained:							
58 Enterprises reporting.....enterprises 1949..	7	2	1				
59 Area supplied primary irrigation.....acres 1949..	57,645	53,733	255				
60 Area artificially drained.....acres 1949..	51,632	48,980	255				
61 acres 1939..	25,906	(*)				(*)	(*)
Irrigated land in need of drainage:							
62 Enterprises reporting.....enterprises 1949..	9	1	1	1			
63 Area supplied primary irrigation.....acres 1949..	10,308	5,073	255	200			
64 Area in need of drainage.....acres 1949..	1,956	400	60	5			
65 acres 1939..	5,509	(*)					

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

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

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

Item (For definitions and explanations, see text)		The State	Butte	Charles Mix	Custer	Fall River	Harding	Jackson
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	128	6		17	61	2	2
2	dams 1950..	281	6		24	196	5	4
3	1940..	258	8		65	18	13	(*)
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	13	2		2			
5	Timber.....dams 1950..	12			2	1		
6	Earth and rock.....dams 1950..	251	3		18	195	5	4
7	Other, mixed, and not reported.....dams 1950..	5	1		2			
8	Reservoirs.....enterprises reporting 1950..	61	3	1	5	20	11	2
9	reservoirs 1950..	100	3	1	7	45	18	2
10	1940..	82	3		9	3		(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	94	3	1	7	43	18	2
12	total capacity, acre-feet 1950..	204,693	177,805	15	197	2,054	923	226
13	1940..	209,785	197,030		90	210	300	(*)
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..	77	1	1	7	40	12	1
15	100-999 acre-feet.....reservoirs 1950..	13				2	6	1
16	1,000 acre-feet and over.....reservoirs 1950..	4	1			1		
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..							1
18	Earth and rock.....dams 1950..	96	2	1	7	43	18	1
19	Other, mixed, and not reported.....dams 1950..	4	1			2		1
20	Canals and ditches.....enterprises reporting 1950..	99	5		13	14	6	3
21	total length, miles 1950..	964	669		36	32	12	2
22	1940..	1,049	681		53	40	9	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..	17	1		1	2	1	1
24	total length, miles 1950..	8	2		(²)	1	(²)	(*)
25	1940..	17	6		1	(²)	(²)	(*)
26	Tunnels.....enterprises reporting 1950..	1	1					
27	total length, feet 1950..	1,300	1,300					
28	Flowing wells.....enterprises reporting 1950..	10		2	1	3		
29	wells 1950..	14		2	1	5		
30	1940..	19		7		2		(*)
31	Pumped wells.....enterprises reporting 1950..	24		1		6		
32	wells 1950..	27		1		7		
33	1940..	16				2		
34	Wells for which pumping lift was reported.....wells 1949..	26		1		7		
35	Average pumping lift.....feet 1949..	27		20		36		
36	1939..	55						
37	Irrigation pumps.....enterprises reporting 1950..	67	4	2	4	13	1	3
38	pumps 1950..	87	7	2	6	17	1	4
39	pumping plants 1940..	119	3	5	1	6	3	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	11				3		
41	electric motors 1950..	14				3		
42	Other motors and engines used for pumping.....enterprises reporting 1950..	58	4	2	4	11	1	3
43	other motors and engines 1950..	74	7	4	6	15	1	3
Season of Irrigation, 1949:								
44	Water delivered only before July 1.....enterprises reporting..	57			2	42	7	
45	acres irrigated.....	4,708			90	3,065	643	
46	Water delivered before and after July 1.....enterprises reporting..	119	4	3	19	27	4	1
47	acres irrigated.....	77,140	54,183	302	2,413	5,628	112	10
48	Water delivered only after July 1.....enterprises reporting..	32	4		1	25	10	2
49	acres irrigated.....	2,408	835		12			37
Capital Investment:								
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	5,395,610	4,509,595	11,493	39,415	27,884	14,728	(*)
51	New capital investment Jan. 1, 1940, to Jan. 1, 1950:							
52	Enterprises reporting.....enterprises 1950..	127	2	1	9	52	8	2
53	Amount.....dollars 1950..	1,222,304	74,798	500	98,970	162,043	10,370	(³)
54	Area irrigated direct.....acres 1949..	62,214	48,710	5	1,347	7,514	277	17
55	Total capital investment Jan. 1, 1950.....dollars 1950..	6,617,914	4,584,393	11,993	138,385	189,927	25,098	(*)
Indebtedness:^{4 5}								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55	Enterprises reporting.....enterprises 1950..	2	1					
56	Amount.....dollars 1950..	3,350,000	2,640,000					(*)
57	1940..	4,600,023	4,348,525					
58	Area irrigated direct.....acres 1949..	50,767	48,660					
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
59	Enterprises reporting.....enterprises 1950..							
60	Amount.....dollars 1950..							
61	Area irrigated direct.....acres 1949..							

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

IRRIGATION OF AGRICULTURAL LANDS

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

[Intercountry enterprises are counted in each county in which they had irrigation works, but only once in State total. For intercountry 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)		Lawrence	Meade	Pennington	Perkins	Shannon	Union	All other counties
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	16	5	15	1		1	2
2	dams 1950..	17	8	16	1		2	2
3	1940..	18	75	25	8	(*)	(*)	(*)
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	5	2	2				
5	Timber.....dams 1950..	6		3				
6	Earth and rock.....dams 1950..	6	6	9	1		2	2
7	Other, mixed, and not reported.....dams 1950..			2				
8	Reservoirs.....enterprises reporting 1950..		5	10	1	2		1
9	reservoirs 1950..		6	14	1	2		1
10	1940..	7	30	3	7	(*)	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..		5	13		2		
12	total capacity, acre-feet 1950..		241	15,552		7,680		
13	1940..	550	355	722	862	(*)	(*)	(*)
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..		4	11				
15	100-999 acre-feet.....reservoirs 1950..		1	1		1		
16	1,000 acre-feet and over.....reservoirs 1950..			1		1		
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..							
18	Earth and rock.....dams 1950..		6	14	1	2		1
19	Other, mixed, and not reported.....dams 1950..							
20	Canals and ditches.....enterprises reporting 1950..	16	7	20	1	3	5	7
21	total length, miles 1950..	46	60	70	1	20	4	12
22	1940..	42	68	75	6	(*)	(*)	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..	4	1	3				3
24	total length, miles 1950..		(²)	(²)	(²)	(²)	(²)	1
25	1940..	(²)	1			(*)	(*)	(*)
26	Tunnels.....enterprises reporting 1950..							
27	total length, feet 1950..							
28	Flowing wells.....enterprises reporting 1950..	2	1	1				
29	wells 1950..	2	1	3				
30	1940..	4				(*)	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..		1	6		1	6	3
32	wells 1950..		1	8		1	6	3
33	1940..			1				13
34	Wells for which pumping lift was reported.....wells 1949..			8		1	6	3
35	Average pumping lift.....feet 1949..			15		70	24	36
36	1939..			(*)				(*)
37	Irrigation pumps.....enterprises reporting 1950..		2	14	2	2	7	13
38	pumps 1950..		3	18	2	4	9	14
39	pumping plants 1940..		7	9	3	(*)	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..		1	5		1		1
41	electric motors 1950..		1	7		2		1
42	Other motors and engines used for pumping.....enterprises reporting 1950..		1	9	2	2	7	12
43	other motors and engines 1950..		2	9	2	2	9	14
Season of Irrigation, 1949:								
44	Water delivered only before July 1.....enterprises reporting..		5	1				
45	acres irrigated.....		660	250				
46	Water delivered before and after July 1.....enterprises reporting..	15	5	27	2	4		9
47	acres irrigated..	2,534	2,273	8,395	20	669		601
48	Water delivered only after July 1.....enterprises reporting..	3	1	6	1		7	5
49	acres irrigated..	309	30	224	50		455	421
Capital Investment:								
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	72,987	261,370	138,748	10,411	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
51	Enterprises reporting.....enterprises 1950..	11	6	15	1	2	7	11
52	Amount.....dollars 1950..	24,200	6,150	724,624	960	(³)	14,000	101,260
53	Area irrigated direct.....acres 1949..	1,842	653	428	5	199	455	762
54	Total capital investment Jan. 1, 1950.....dollars 1950..	97,187	267,520	863,372	11,371	(*)	(*)	(*)
Indebtedness:^{4 5}								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55	Enterprises reporting.....enterprises 1950..		1	1				
56	Amount.....dollars 1950..		110,000	600,000				
57	1940..		228,870			(*)	(*)	(*)
58	Area irrigated direct.....acres 1949..		2,107					
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
59	Enterprises reporting.....enterprises 1950..							
60	Amount.....dollars 1950..							
61	Area irrigated direct.....acres 1949..							

*Not available.
¹Pipelines in farm-distribution systems were included in 1940, not included in 1950.
²Less than 0.5.
³Data for less than 3 enterprises not shown separately.
⁴Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.
⁵Data less than 3 enterprises shown with permission of the enterprise.

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	Butte	Charles Mix	Custer	Fall River	Harding	Jackson
ALL ENTERPRISES							
Cost of water to farms, 1949: ¹							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	212	8	3	22	71	12	3
2 Cost.....dollars..	145,929	116,444	61	4,035	6,903	350	232
3 Area irrigated direct.....acres..	84,393	55,018	302	2,515	8,818	765	47
4 Cost per acre irrigated direct.....dollars..	1.73	2.12	0.20	1.60	0.78	0.46	4.94
5 Total cost per irrigated acre.....dollars..	1.73	2.12	0.20	1.63	0.78	0.46	4.94
6 Total cost per acre-foot of water ².....dollars..	1.08	1.41	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	140	1	2	16	58	10	.....
8 .....acres irrigated..	19,569	770	297	1,478	6,758	699	.....
9 \$1.00-\$1.99.....enterprises reporting..	22	3	.....	2	4	.....	.....
10 .....acres irrigated..	10,706	5,523	.....	390	880	.....	.....
11 \$2.00-\$4.99.....enterprises reporting..	27	3	.....	2	5	2	2
12 .....acres irrigated..	53,226	48,710	.....	217	1,005	66	17
13 \$5.00-\$9.99.....enterprises reporting..	12	1	.....	1	2	.....	1
14 .....acres irrigated..	714	15	.....	400	100	.....	30
15 \$10.00 and over.....enterprises reporting..	11	.....	1	1	2	.....	.....
16 .....acres irrigated..	178	.....	5	30	75	.....	.....
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	212	8	3	22	71	12	3
18 Cost.....dollars..	145,871	116,444	61	3,977	6,903	350	232
19 Area supplied primary irrigation.....acres..	84,356	55,018	302	2,478	8,818	765	47
20 Cost per acre supplied.....dollars..	1.73	2.12	0.20	1.60	0.78	0.46	4.94
Cost of water for supplemental irrigation:							
21 Enterprises reporting.....enterprises..	1	.....	.....	1	.....	.....	.....
22 Cost.....dollars..	58	.....	.....	58	.....	.....	.....
23 Area supplied supplemental irrigation.....acres..	37	.....	.....	37	.....	.....	.....
24 Cost per acre supplied.....dollars..	1.57	.....	.....	1.57	.....	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁴							
25 Enterprises reporting.....enterprises..	1	1	.....	.....	.....	.....	.....
26 Cost.....dollars..	36,500	35,000	.....	.....	.....	.....	.....
27 Area irrigated direct.....acres..	50,767	48,660	.....	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	0.72	0.72	.....	.....	.....	.....	.....
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..	190	4	3	22	69	12	3
33 Area irrigated.....acres..	16,854	115	302	2,515	8,625	765	47
34 Complete-system enterprises ⁵.....enterprises..	180	3	3	17	69	12	3
35 Area irrigated.....acres..	15,814	95	302	1,860	8,625	765	47
Other farms irrigated:							
36 Enterprises reporting.....number..	5	.....	.....	1	2	.....	.....
37 Number of other farms.....farms..	9	.....	.....	1	5	.....	.....
38 Area irrigated in other farms.....acres..	429	.....	.....	40	188	.....	.....
Enterprises by origin of water supply: ⁵							
39 No water from other enterprises.....enterprises reporting..	181	3	3	17	69	12	3
40 .....acres irrigated..	15,814	95	302	1,860	8,625	765	47
41 Part of water from other enterprises.....enterprises reporting..	3	1	.....	1	.....	.....	.....
42 .....acres irrigated..	365	20	.....	190	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	6	.....	.....	4	.....	.....	.....
44 .....acres irrigated..	675	.....	.....	465	.....	.....	.....
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	188	4	3	21	69	12	3
46 .....acres irrigated..	16,664	115	302	2,325	8,625	765	47
47 Part primary, part supplemental.....enterprises reporting..	1	.....	.....	1	.....	.....	.....
48 Primary irrigation.....acres irrigated..	153	.....	.....	153	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	37	.....	.....	37	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
51 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵							
52 None.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
53 1-9 acres.....enterprises reporting..	23	.....	1	.....	3	.....	1
54 10-29 acres.....enterprises reporting..	41	2	.....	5	12	6	1
55 30-59 acres.....enterprises reporting..	41	2	1	5	16	1	1
56 60-99 acres.....enterprises reporting..	32	.....	.....	4	11	3	.....
57 100-199 acres.....enterprises reporting..	26	.....	.....	3	13	.....	.....
58 200-499 acres.....enterprises reporting..	19	.....	1	4	10	1	.....
59 500-999 acres.....enterprises reporting..	4	.....	.....	1	3	.....	.....
60 1,000 acres or more.....enterprises reporting..	1	.....	.....	.....	1	.....	.....

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)	Lawrence	Meade	Pennington	Perkins	Shannon	Union	All other counties
ALL ENTERPRISES							
Cost of water to farms, 1949: ¹							
Total cost of water to farms:							
1 Enterprises reporting.....enterprises..	19	13	34	3	4	7	14
2 Cost.....dollars..	934	5,470	7,319	200	1,570	481	1,930
3 Area irrigated direct.....acres..	2,863	2,980	8,869	70	669	455	1,022
4 Cost per acre irrigated direct.....dollars..	0.33	1.84	0.83	2.86	2.35	1.06	1.89
5 Total cost per irrigated acre.....dollars..	0.33	1.84	0.83	2.86	2.35	1.06	1.89
6 Total cost per acre-foot of water ².....dollars..	0.12	(³)	0.44	(³)	(³)	(³)	(³)
Enterprises by cost per acre:							
7 Less than \$1.00.....enterprises reporting..	17	11	18	1	.....	3	3
8 Cost.....acres irrigated..	2,573	843	5,616	5	.....	300	230
9 \$1.00-\$1.99.....enterprises reporting..	.....	.....	5	1	1	3	3
10 Cost.....acres irrigated..	.....	.....	3,109	50	179	115	460
11 \$2.00-\$4.99.....enterprises reporting..	2	1	6	.....	2	.....	3
12 Cost.....acres irrigated..	290	2,107	129	1	475	.....	210
13 \$5.00-\$9.99.....enterprises reporting..	.....	.....	3	1	.....	1	2
14 Cost.....acres irrigated..	.....	.....	9	15	.....	40	105
15 \$10.00 and over.....enterprises reporting..	.....	1	2	.....	1	.....	3
16 Cost.....acres irrigated..	.....	30	6	.....	15	.....	17
Cost of water for primary irrigation:							
17 Enterprises reporting.....enterprises..	19	13	34	3	4	7	14
18 Cost.....dollars..	934	5,470	7,319	200	1,570	481	1,930
19 Area supplied primary irrigation.....acres..	2,863	2,980	8,869	70	669	455	1,022
20 Cost per acre supplied.....dollars..	0.33	1.84	0.83	2.86	2.35	1.06	1.89
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..	.....	1,500	.....	.....	.....	.....	.....
27 Area irrigated direct.....acres..	.....	2,107	.....	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	.....	0.72	.....	.....	.....	.....	.....
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..	11	12	27	3	3	7	14
33 Area irrigated.....acres..	721	873	1,130	70	214	455	1,022
34 Complete-system enterprises ⁵.....enterprises..	10	12	24	3	3	7	14
35 Area irrigated.....acres..	566	873	920	70	214	455	1,022
Other farms irrigated:							
36 Enterprises reporting.....number..	1	1	.....	.....	.....	.....	.....
37 Number of other farms.....farms..	2	1	.....	.....	.....	.....	.....
38 Area irrigated in other farms.....acres..	41	160	.....	.....	.....	.....	.....
Enterprises by origin of water supply: ⁵							
39 No water from other enterprises.....enterprises reporting..	10	12	25	3	3	7	14
40 Cost.....acres irrigated..	566	873	920	70	214	455	1,022
41 Part of water from other enterprises.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....
42 Cost.....acres irrigated..	155	.....	.....	.....	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	.....	.....	2	.....	.....	.....	.....
44 Cost.....acres irrigated..	.....	.....	210	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:							
45 All primary.....enterprises reporting..	11	12	26	3	3	7	14
46 Cost.....acres irrigated..	721	873	1,130	70	214	455	1,022
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
51 Cost.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵							
52 None.....enterprises reporting..	.....	.....	1	.....	.....	.....	.....
53 1-9 acres.....enterprises reporting..	1	2	9	1	.....	1	3
54 10-29 acres.....enterprises reporting..	3	2	5	1	2	.....	2
55 30-59 acres.....enterprises reporting..	2	2	6	1	.....	2	2
56 60-99 acres.....enterprises reporting..	3	4	3	.....	.....	3	1
57 100-199 acres.....enterprises reporting..	2	1	2	.....	1	1	5
58 200-499 acres.....enterprises reporting..	.....	1	1	.....	.....	.....	1
59 500-999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
60 1,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....

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

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

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

Item (For definitions and explanations, see text)	The State ¹	Butte	Lawrence	Meade ²	Pennington	Shannon ²
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ³.....enterprises..	24	4	8	1	9	1
2 Area irrigated direct.....acres..	67,539	54,903	2,142	2,107	7,739	455
3 Multiple-purpose enterprises ³.....enterprises..	1	.....	.....	.....	1	.....
4 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....
5 Complete-system enterprises ³.....enterprises..	19	4	7	1	5	1
6 Area irrigated direct.....acres..	63,739	54,903	1,942	2,107	4,139	455
Enterprises by origin of water supply:³						
7 No water from other enterprises.....enterprises reporting..	23	4	8	1	8	1
8 Area irrigated.....acres irrigated..	66,839	54,903	2,142	2,107	7,039	455
9 Part of water from other enterprises.....enterprises reporting..	1	.....	.....	.....	1	.....
10 Area irrigated.....acres irrigated..	700	.....	.....	.....	700	.....
11 All water from other enterprises.....enterprises reporting..	.....	.....	.....	.....	.....	.....
12 Area irrigated.....acres irrigated..	.....	.....	.....	.....	.....	.....
Enterprises by delivery of irrigation water:³						
13 No water delivered.....enterprises reporting..	1	.....	.....	.....	1	.....
14 Water delivered direct to farms only.....enterprises reporting..	20	4	7	1	6	1
15 Area irrigated.....acres irrigated..	64,439	54,903	1,942	2,107	4,839	455
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3	.....	1	.....	2	.....
17 Area irrigated.....acres irrigated..	3,100	.....	200	.....	2,900	.....
18 Water delivered to other enterprises only.....enterprises reporting..	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:⁴						
19 All primary.....enterprises reporting..	23	4	8	1	8	1
20 Area irrigated.....acres irrigated..	67,539	54,903	2,142	2,107	7,739	455
21 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
22 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....
23 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
25 Area irrigated.....acres irrigated..	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:³						
26 None.....enterprises reporting..	1	.....	.....	.....	1	.....
27 1-3.....enterprises reporting..	5	.....	3	.....	.....	.....
28 4-9.....enterprises reporting..	10	2	4	.....	4	.....
29 10-29.....enterprises reporting..	6	.....	1	.....	4	1
30 30-99.....enterprises reporting..	1	1	.....	.....	.....	.....
31 100-299.....enterprises reporting..	.....	.....	.....	.....	.....	.....
32 300-999.....enterprises reporting..	1	1	.....	1	.....	.....
33 1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:³						
34 None.....enterprises reporting..	1	.....	.....	.....	1	.....
35 1-99 acres.....enterprises reporting..	1	.....	.....	.....	.....	.....
36 100-999 acres.....enterprises reporting..	15	.....	8	.....	4	1
37 1,000-2,999 acres.....enterprises reporting..	5	1	.....	.....	4	.....
38 3,000-9,999 acres.....enterprises reporting..	1	1	.....	.....	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	1	1	.....	1	.....	.....
Quantities of water reported, 1949:						
41 Total obtained from all sources ⁵.....enterprises reporting..	20	4	8	1	6	1
42 percent of all enterprises reporting..	10	50	42	8	17	25
43 Surface sources.....acres-foot..	183,231	156,842	7,054	139,717	15,735	3,400
44 Pumped wells.....acres-foot..	20	4	8	1	6	1
45 Other enterprises.....acres-foot..	182,611	156,842	7,054	139,717	15,115	3,400
46 Conveyance loss ⁵.....acres-foot..	1	.....	.....	.....	.....	.....
47 Direct to farms.....acres-foot..	620	.....	.....	.....	620	.....
48 To other enterprises.....acres-foot..	13	4	2	1	6	1
49 For use other than irrigation.....acres-foot..	75,559	72,264	1,007	69,501	1,948	340
50 Delivered direct to farms for primary irrigation: ⁴	.....	.....	.....	.....	.....	.....
51 Enterprises reporting.....enterprises..	20	4	8	1	6	1
52 Quantity delivered.....acres-foot..	105,230	80,890	5,697	2,716	12,667	3,060
53 Area supplied primary irrigation.....acres..	66,273	54,903	2,142	2,107	6,541	455
54 Quantity supplied per acre.....acre-feet..	1.6	1.5	2.7	1.3	1.9	6.7
55 Delivered direct to farms for supplemental irrigation: ⁴	.....	.....	.....	.....	.....	.....
56 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....
57 Quantity delivered.....acres-foot..	.....	.....	.....	.....	.....	.....
58 Area supplied supplemental irrigation.....acres..	.....	.....	.....	.....	.....	.....
59 Quantity supplied per acre.....acre-feet..	.....	.....	.....	.....	.....	.....
60 Total quantity per irrigated acre ⁶.....acre-feet..	1.6	1.5	2.7	1.3	1.9	6.7
Cost of water to farms for enterprises reporting quantity delivered, 1949:⁴						
61 Cost for primary irrigation.....dollars..	128,234	116,139	824	4,500	5,705	910
62 Average cost per acre-foot.....dollars..	1.22	1.44	0.14	1.66	0.45	0.30
63 Cost for supplemental irrigation.....dollars..	.....	.....	.....	.....	.....	.....
64 Average cost per acre-foot.....dollars..	.....	.....	.....	.....	.....	.....
Measurement of water to farms, 1949:⁴						
65 No water measured.....enterprises reporting..	15	1	6	.....	6	1
66 Part of water measured.....acres irrigated..	8,046	770	1,355	.....	5,341	455
67 All water measured.....enterprises reporting..	6	3	2	1	1	.....
68 Area irrigated.....acres irrigated..	58,227	54,133	787	2,107	1,200	.....
69 All water measured.....acres irrigated..	.....	.....	.....	.....	.....	.....

¹ Includes data for 2 enterprises in Fall River County. ² Data for less than 3 enterprises shown with permission of the enterprise. ³ For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State. ⁴ For intercounty and interstate enterprises, data represent characteristics within the county or State. ⁵ For intercounty and interstate enterprises, data represent characteristics of the entire enterprise. ⁶ Calculated 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, "South Dakota: 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	Butte	Charles Mix	Custer	Fall River	Harding	Jackson
Irrigated land, 1949..... acres..	84,356	55,018	302	2,478	8,818	765	47
Area irrigated direct, by drainage basin origin of water, 1949: ¹							
All basins Missouri River (VI-C)..... acres..	84,393	55,018	302	2,478	8,818	765	47
Missouri River direct (1a)..... acres..	2,336		302			765	47
White River (4)..... acres..	1,249						
Cheyenne River..... acres..	80,808	55,018		2,515	8,818		
Cheyenne River direct (5a)..... acres..	12,284	50		2,515	8,818		
Belle Fourche River (5b)..... acres..	60,056	54,968					
Rapid Creek (5c)..... acres..	8,468						
Item (For definitions and explanations, see text)	Lawrence	Meade	Pennington	Perkins	Shannon	Union	All other counties
Irrigated land, 1949..... acres..	2,863	2,980	8,869	70	669	455	1,022
Area irrigated direct, by drainage basin origin of water, 1949: ¹							
All basins Missouri River (VI-C)..... acres..	2,863	2,980	8,869	70	669	455	1,022
Missouri River direct (1a)..... acres..			35	70		455	662
White River (4)..... acres..			220		669		360
Cheyenne River..... acres..	2,863	2,980	8,614				
Cheyenne River direct (5a)..... acres..		755	146				
Belle Fourche River (5b)..... acres..	2,863	2,225					
Rapid Creek (5c)..... acres..			8,468				

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.

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

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

Item (For definitions and explanations, see text)	The State (Missouri River)	Missouri River (VI-C)					
		Direct ¹	White River	Cheyenne River			
				Total	Direct	Belle Fourche River	Rapid Creek
(1a)	(4)	(5a)	(5b)	(5c)			
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	214	40	10	164	107	30	27
2 1940..	274	(*)	19	194	(*)	49	(*)
3 Interbasin.....enterprises 1950..							
4 Farms irrigated direct per enterprise ².....farms 1950..	3.9	1.0	1.8	4.7	1.1	18.8	3.2
5 Irrigated land ³.....acres 1949..	84,356	2,336	1,249	90,771	12,247	60,056	8,468
6 1939..	60,198	2,614	1,397	56,187	3,962	43,055	9,170
7 Average per enterprise.....acres 1949..	394	58	125	493	114	2,002	314
8 Average acreage irrigated direct per enterprise ⁴.....acres 1949..	394	58	125	493	115	2,002	314
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	190	40	9	141	105	18	18
10 acres irrigated..	16,854	2,336	794	13,724	12,091	904	729
Mutual:							
11 Unincorporated.....enterprises..	13			13	2	9	2
12 acres irrigated..	9,628			9,628	(*)	7,535	(*)
13 Incorporated.....enterprises..	8			8		2	6
14 acres irrigated..	6,689			6,689		(*)	5,839
Commercial:							
15 District ⁵.....enterprises..	1			1		1	
16 acres irrigated..	50,767			50,767		50,767	
17 U. S. Bureau of Reclamation ⁶.....enterprises..	1			1			1
18 acres irrigated..							
19 U. S. Bureau of Indian Affairs ⁷.....enterprises..	1		1				
20 acres irrigated..	455		455				
21 State.....enterprises..							
22 acres irrigated..							
23 City.....enterprises..							
24 acres irrigated..							
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
27 Gravity only.....enterprises reporting..	145	15	2	128	86	23	19
28 acres irrigated..	28,693	1,104	329	27,260	9,653	9,176	8,431
29 Pumped only.....enterprises reporting..	37	15	5	17	10	5	2
30 acres irrigated..	2,048	572	645	831	726	98	7
31 Gravity and pumped.....enterprises reporting..	9	1	1	7	6	1	
32 acres irrigated..	51,622	10	200	51,412	645	50,767	
33 Ground water only (pumped from wells).....enterprises reporting..	16	8	1	7	1	1	5
34 acres irrigated..	713	550	60	103	60	15	28
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	7	1	1	5	4		1
36 acres irrigated..	1,317	100	15	1,202	1,200		2
Stored water:							
37 None stored.....enterprises reporting..	154	23	6	125	77	26	22
38 acres irrigated..	27,345	1,318	395	25,632	8,037	9,196	8,399
39 Part stored.....enterprises reporting..	28	3	1	24	20	2	2
40 acres irrigated..	54,544	59	70	54,415	3,576	50,787	52
41 All stored.....enterprises reporting..	32	14	3	15	10	2	3
42 acres irrigated..	2,504	959	784	761	671	73	17
Sources of surface water, 1949:⁶							
43 Streams (and lakes).....enterprises reporting..	181	30	9	142	99	22	21
44 acres irrigated..	82,748	1,526	1,189	80,033	11,912	59,683	8,438
45 Springs.....enterprises reporting..	9			9	4	5	
46 acres irrigated..	1,500			500	1,205	295	
47 Flowing wells.....enterprises reporting..	10	2		8	5	2	1
48 acres irrigated..	1,782	297		1,294	1,289	194	2
49 Drainage water.....enterprises reporting..	9	2		7	4	2	1
50 acres irrigated..	296	12		284	154	80	50
51 Sewage.....enterprises reporting..							
52 acres irrigated..							
53 Other sources.....enterprises reporting..							
54 acres irrigated..							
Drainage of irrigated land⁷							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	7	2		5		2	3
56 Area supplied primary irrigation.....acres 1949..	57,645	415		57,230		55,840	1,390
57 Area artificially drained.....acres 1949..	51,632	285		51,347		51,087	260
58 acres 1939..	25,906	(*)	(*)	25,750	(*)	(*)	(*)
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	9	1		8	1	1	6
60 Area supplied primary irrigation.....acres 1949..	10,308	255		10,053	200	5,073	4,780
61 Area in need of drainage.....acres 1949..	1,956	60		1,896	5	400	1,491
62 acres 1939..	5,509	(*)	(*)	5,483	(*)	(*)	(*)

*Not available. ¹ Includes data for 1 enterprise in Niobrara River Basin (VI-C-3). ² Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise. ³ Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries. ⁴ Data for less than 3 enterprises not shown separately. ⁵ Data for less than 3 enterprises shown with permission of the enterprise. ⁶ Enterprises reporting water from more than 1 source are counted for each. ⁷ 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 CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

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

Item (For definitions and explanations, see text)	The State (Missouri River)	Missouri River (VI-C)						
		Direct ¹ (1a)	White River (4)	Total	Cheyenne River			
					Direct (5a)	Belle Fourche River (5b)	Rapid Creek (5c)	
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	128	7	1	120	84	22	14
2	dams 1950..	281	13	1	267	229	23	15
3	1940..	258	(*)	14	215	(*)	33	(*)
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	13			13	4	7	2
5	Timber.....dams 1950..	12			12	3	6	3
6	Earth and rock.....dams 1950..	251	13	1	237	219	9	9
7	Other, mixed, and not reported.....dams 1950..	5			5	3	1	1
8	Reservoirs.....enterprises reporting 1950..	61	17	4	40	31	4	5
9	reservoirs 1950..	100	24	4	72	61	4	7
10	1940..	82	(*)	3	55	(*)	22	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	94	22	4	68	58	4	6
12	total capacity, acre-feet 1950..	204,693	1,174	7,981	195,538	2,735	177,630	15,173
13	1940..	209,785	(*)	1,001	198,957	(*)	197,320	(*)
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..	77	15	1	61	53	3	5
15	100-999 acre-feet.....reservoirs 1950..	13	7	2	4	4		
16	1,000 acre-feet and over.....reservoirs 1950..	4		1	3	1	1	1
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..							
18	Earth and rock.....dams 1950..	96	23	4	69	59	3	7
19	Other, mixed, and not reported.....dams 1950..	4	1		3	2	1	
20	Canals and ditches.....enterprises reporting 1950..	99	22	7	70	34	21	15
21	total length, miles 1950..	964	28	25	911	102	750	59
22	1940..	1,049	(*)	18	965	(*)	761	(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	17	5	1	11	4	6	1
24	total length, miles 1950..	8		(³)	6	2	4	(³)
25	1940..	17	(*)	2	8	(*)	7	(*)
26	Tunnels.....enterprises reporting 1950..	1			1			
27	total length, feet 1950..	1,300			1,300		1,300	
28	Flowing wells.....enterprises reporting 1950..	10	2		8	5	2	1
29	wells 1950..	14	2		12	7	2	3
30	1940..	19	(*)		6	(*)	4	(*)
31	Pumped wells.....enterprises reporting 1950..	24	9	2	13	6	1	6
32	wells 1950..	27	9	2	16	7	1	8
33	1940..	16	(*)	1	3	(*)		(*)
34	Wells for which pumping lift was reported.....wells 1949..	26	9	2	15	7		8
35	Average pumping lift.....feet 1949..	27	26	54	25	36		15
36	1939..	55	(*)	(*)	22	(*)		(*)
37	Irrigation pumps.....enterprises reporting 1950..	67	25	7	35	21	6	8
38	pumps 1950..	87	29	9	49	29	10	10
39	1940..	127	(*)	27	29	(*)	9	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	11	1	1	9	3	1	5
41	electric motors 1950..	14	1	2	11	3	1	7
42	1940..	8	(*)		(*)	(*)	1	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	58	25	7	26	19	5	2
44	other motors and engines 1950..	74	31	7	36	25	9	2
45	1940..	111	(*)	27	28	(*)	7	(*)
Season of irrigation, 1949:								
46	Water delivered only before July 1.....enterprises reporting..	57	7		50	48	1	1
47	acres irrigated..	4,708	643		4,065	3,755	60	250
48	Water delivered before and after July 1.....enterprises reporting..	119	19	6	94	53	19	22
49	acres irrigated..	77,140	1,020	879	75,241	8,376	58,787	8,078
50	Water delivered only after July 1.....enterprises reporting..	32	14	3	15	4	8	3
51	acres irrigated..	2,408	673	370	1,365	51	1,174	140
Capital investment:								
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	5,395,610	(*)	56,499	5,050,244	(*)	4,820,812	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53	Enterprises reporting.....enterprises 1950..	127	27	8	92	72	13	7
54	Amount.....dollars 1950..	1,222,304	111,689	27,520	1,083,095	269,508	99,343	714,244
55	Area irrigated direct.....acres 1949..	62,214	1,161	779	60,274	9,650	50,562	62
56	Total capital investment Jan. 1, 1950.....dollars 1950..	6,617,914	(*)	84,019	6,133,339	(*)	4,920,155	(*)
Indebtedness:^{4 5}								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57	Enterprises reporting.....enterprises 1950..	2			2		1	1
58	Amount.....dollars 1950..	3,350,000			3,350,000		2,750,000	600,000
59	1940..	4,600,023	(*)	22,628	4,577,395	(*)	4,577,395	(*)
60	Area irrigated direct.....acres 1949..	50,767			50,767		50,767	
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.
¹Includes data for 1 enterprise in Niobrara River Basin (VI-C-3).
²Pipelines in farm-distribution systems were included in 1940, not included in 1950.
³Less than 0.5.
⁴Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.
⁵Data for less than 3 enterprises shown with permission of the enterprise.

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

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

Item (For definitions and explanations, see text)	The State (Missouri River)	Missouri River (VI-C)					
		Direct ¹ (1a)	White River (4)	Total	Cheyenne River		
					Direct (5a)	Belle Fourche River (5b)	Rapid Creek (5c)
ALL ENTERPRISES							
Cost of water to farms, 1949:²							
Total cost of water to farms:							
Enterprises reporting.....enterprises..	212	40	9	163	107	30	26
Cost.....dollars..	145,929	2,719	2,275	140,935	11,565	122,448	6,922
Area irrigated direct.....acres..	84,393	2,336	1,249	80,808	12,284	60,056	8,468
Cost per acre irrigated direct.....dollars..	1.73	1.16	1.82	1.74	0.94	2.04	0.82
Total cost per irrigated acre.....dollars..	1.73	1.16	1.82	1.74	0.94	2.04	0.82
Total cost per acre-foot of water ³.....dollars..	1.08	(4)	0.27	1.09	0.59	1.36	0.43
Enterprises by cost per acre:							
Less than \$1.00.....enterprises reporting..	140	20	1	119	83	21	15
.....acres irrigated..	19,569	1,566	150	17,853	9,071	3,431	5,351
\$1.00-\$1.99.....enterprises reporting..	22	5	3	14	9	2	3
.....acres irrigated..	10,706	325	479	9,902	1,349	5,473	3,080
\$2.00-\$4.99.....enterprises reporting..	27	6	4	17	8	5	4
.....acres irrigated..	53,226	233	605	52,388	1,255	51,107	26
\$5.00-\$9.99.....enterprises reporting..	12	5	.....	7	3	1	3
.....acres irrigated..	714	190	.....	524	500	15	9
\$10.00 and over.....enterprises reporting..	11	4	1	6	4	1	1
.....acres irrigated..	178	22	15	141	109	30	2
Cost of water for primary irrigation:							
Enterprises reporting.....enterprises..	212	40	9	163	107	30	26
Cost.....dollars..	145,871	2,719	2,275	140,877	11,507	122,448	6,922
Area supplied primary irrigation.....acres..	84,356	2,336	1,249	80,771	12,247	60,056	8,468
Cost per acre supplied.....dollars..	1.73	1.16	1.82	1.74	0.94	2.04	0.82
Cost of water for supplemental irrigation:							
Enterprises reporting.....enterprises..	1	.....	.....	1	1	.....	.....
Cost.....dollars..	58	.....	.....	58	58	.....	.....
Area supplied supplemental irrigation.....acres..	37	.....	.....	37	37	.....	.....
Cost per acre supplied.....dollars..	1.57	.....	.....	1.57	1.57	.....	.....
Cost to farms for purposes other than operation and maintenance:⁵							
Enterprises reporting.....enterprises..	1	.....	.....	1	.....	1	.....
Cost.....dollars..	36,590	.....	.....	36,590	.....	36,590	.....
Area irrigated direct.....acres..	50,767	.....	.....	50,767	.....	50,767	.....
Cost per acre irrigated.....dollars..	0.72	.....	.....	0.72	.....	0.72	.....
Arrearage in payments by farms, Jan. 1, 1950:⁵							
Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	.....	.....
Amount.....dollars..	.....	.....	.....	.....	.....	.....	.....
Area irrigated direct.....acres..	.....	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950							
Single-farm enterprises.....enterprises..	190	40	9	141	105	18	18
Area irrigated.....acres..	16,854	2,336	794	13,724	12,091	904	729
Complete-system enterprises ⁴.....enterprises..	180	40	8	132	100	16	16
Area irrigated.....acres..	15,814	2,336	794	12,684	11,436	729	519
Other farms irrigated:							
Enterprises reporting.....number..	5	.....	.....	5	4	1	.....
Number of other farms.....farms..	9	.....	.....	9	7	2	.....
Area irrigated in other farms.....acres..	429	.....	.....	429	388	41	.....
Enterprises by origin of water supply:⁶							
No water from other enterprises.....enterprises reporting..	181	40	9	132	100	16	16
.....acres irrigated..	15,814	2,336	794	12,684	11,436	729	519
Part of water from other enterprises.....enterprises reporting..	3	.....	.....	3	1	2	.....
.....acres irrigated..	365	.....	.....	365	190	175	.....
All of water from other enterprises.....enterprises reporting..	6	.....	.....	6	4	.....	2
.....acres irrigated..	675	.....	.....	675	465	.....	210
Enterprises by primary and supplemental irrigation:							
All primary.....enterprises reporting..	188	40	8	140	104	18	18
.....acres irrigated..	16,664	2,336	794	13,534	11,901	904	729
Part primary, part supplemental.....enterprises reporting..	1	.....	.....	1	1	.....	.....
.....acres irrigated..	153	.....	.....	153	153	.....	.....
Primary irrigation.....acres irrigated..	37	.....	.....	37	37	.....	.....
Supplemental irrigation.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
All supplemental.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated:⁶							
None.....enterprises reporting..	1	.....	1	.....	.....	.....	.....
1-9 acres.....enterprises reporting..	23	8	.....	15	6	1	8
10-29 acres.....enterprises reporting..	41	10	2	29	19	7	3
30-59 acres.....enterprises reporting..	41	9	.....	32	24	4	4
60-99 acres.....enterprises reporting..	32	6	2	24	19	4	1
100-199 acres.....enterprises reporting..	28	5	3	20	17	2	1
200-499 acres.....enterprises reporting..	19	2	1	16	15	.....	1
500-999 acres.....enterprises reporting..	4	.....	.....	4	4	.....	.....
1,000 acres or more.....enterprises reporting..	1	.....	.....	1	1	.....	.....

¹Includes data for 1 enterprise in Niobrara River Basin (VI-C-3).

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.

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State (Missouri River)	Missouri River (VI-C)				
		Direct ¹	White River ²	Cheyenne River		
				Total ³	Belle Fourche River	Rapid Creek
		(1a)	(4)	(5b)	(5c)	
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ⁴.....enterprises..	24		1	23	12	9
2 Area irrigated direct.....acres..	67,539		455	67,084	59,152	7,739
3 Multiple-purpose enterprises ⁴.....enterprises..	1			1		1
4 Area irrigated direct.....acres..						
5 Complete-system enterprises ⁴.....enterprises..	19		1	18	11	5
6 Area irrigated direct.....acres..	63,739		455	63,284	58,952	4,139
Enterprises by origin of water supply: ⁴						
7 No water from other enterprises.....enterprises reporting..	23		1	22	12	8
8 acres irrigated.....acres..	66,839		455	66,384	59,152	7,039
9 Part of water from other enterprises.....enterprises reporting..	1			1		1
10 acres irrigated.....acres..	700			700		700
11 All water from other enterprises.....enterprises reporting..						
12 acres irrigated.....acres..						
Enterprises by delivery of irrigation water: ⁴						
13 No water delivered.....enterprises reporting..	1			1		1
14 Water delivered direct to farms only.....enterprises reporting..	20		1	19	11	6
15 acres irrigated.....acres..	64,439		455	63,984	58,952	4,839
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3			3	1	2
17 acres irrigated.....acres..	3,100			3,100	200	2,900
18 Water delivered to other enterprises only.....enterprises reporting..						
Enterprises by primary and supplemental irrigation: ⁵						
19 All primary.....enterprises reporting..	23		1	22	12	8
20 acres irrigated.....acres..	67,539		455	67,084	59,152	7,739
21 Part primary, part supplemental.....enterprises reporting..						
22 Primary irrigation.....acres irrigated..						
23 Supplemental irrigation.....acres irrigated..						
24 All supplemental.....enterprises reporting..						
25 acres irrigated.....acres..						
Enterprises by number of farms irrigated direct: ⁴						
26 None.....enterprises reporting..	1			1		1
27 1-3.....enterprises reporting..	5			5	3	
28 4-9.....enterprises reporting..	10			10	6	4
29 10-29.....enterprises reporting..	6		1	5	1	4
30 30-99.....enterprises reporting..	1			1	1	
31 100-299.....enterprises reporting..						
32 300-999.....enterprises reporting..	1			1	1	
33 1,000 or more.....enterprises reporting..						
Enterprises by acres irrigated direct: ⁴						
34 None.....enterprises reporting..	1			1		1
35 1-99 acres.....enterprises reporting..	1			1		
36 100-999 acres.....enterprises reporting..	15		1	14	9	4
37 1,000-2,999 acres.....enterprises reporting..	5			5	1	4
38 3,000-9,999 acres.....enterprises reporting..	1			1	1	
39 10,000-29,999 acres.....enterprises reporting..						
40 30,000 acres or more.....enterprises reporting..	1			1	1	
Quantities of water reported, 1949: ⁶						
41 Total obtained from all sources.....enterprises reporting..	20		1	19	12	6
42 percent of all enterprises reporting..	10		10	12	40	22
43 Surface sources.....acre-feet..	183,231		3,400	179,831	163,896	15,735
44 Pumped wells.....acre-feet..	20		1	19	12	6
45 Other enterprises.....acre-feet..	182,611		3,400	179,211	163,896	15,115
46 Conveyance loss ⁶.....enterprises reporting..						
47 Direct to farms.....enterprises reporting..	20		1	19	12	6
48 To other enterprises.....enterprises reporting..	106,202		3,060	103,142	90,275	12,667
49 For use other than irrigation.....enterprises reporting..	3			3		2
50 Delivered direct to farms for primary irrigation: ⁵						
51 Enterprises reporting.....enterprises..	20		1	19	12	6
52 Quantity delivered.....acre-feet..	105,230		3,060	102,170	89,303	12,667
53 Area supplied primary irrigation.....acres..	66,273		455	65,818	59,152	6,541
54 Quantity supplied per acre.....acre-feet..	1.6		6.7	1.6	1.5	1.9
55 Delivered direct to farms for supplemental irrigation: ⁵						
56 Enterprises reporting.....enterprises..						
57 Quantity delivered.....acre-feet..						
58 Area supplied supplemental irrigation.....acres..						
59 Quantity supplied per acre.....acre-feet..						
60 Total quantity per irrigated acre ⁷.....acre-feet..	1.6		6.7	1.6	1.5	1.9
61 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵						
62 Cost for primary irrigation.....dollars..	128,234		910	127,324	121,463	5,705
63 Average cost per acre-foot.....dollars..	1.22		0.30	1.25	1.36	0.45
64 Cost for supplemental irrigation.....dollars..						
65 Average cost per acre-foot.....dollars..						
66 Measurement of water to farms, 1949: ⁵						
67 No water measured.....enterprises reporting..	15		1	14	7	6
68 Part of water measured.....enterprises reporting..	8,046		455	7,591	2,125	5,341
69 All water measured.....enterprises reporting..	6			6	5	1
70 acres irrigated.....acres..	58,227			58,227	57,027	1,200
71 acres irrigated.....acres..						

¹Includes data for 1 enterprise in Niobrara River Basin (VI-C-3).

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

³Includes data for 2 enterprises in Cheyenne River direct (VI-C-5a).

⁴For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

⁵For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

⁶For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.

⁷Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

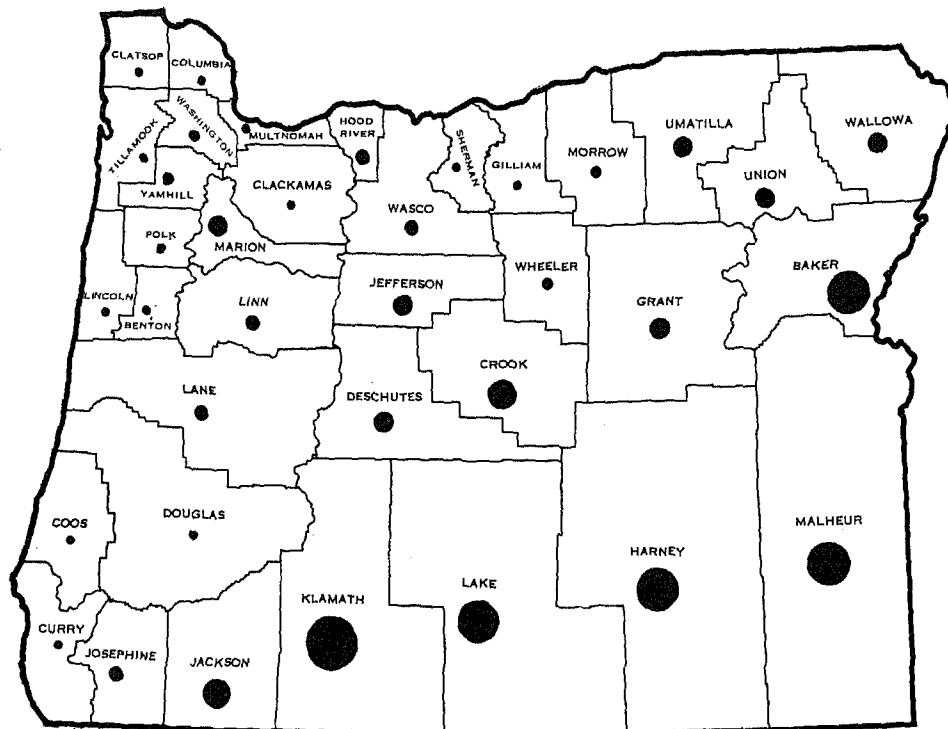
IRRIGATION OF AGRICULTURAL LANDS

OREGON

CONTENTS

[Page numbers listed here omit the State (or States) part number which appears as a prefix to the page number for each page. The part number for this State is 14.]

	<i>Page</i>
Map:	
Acres of irrigated land, by counties, 1949.....	2
State table—	
1.—Irrigation summary: 1890 to 1950.....	3
2.—Characteristics of irrigation enterprises: 1920 to 1950.....	3
3.—Irrigation enterprises, number and characteristics, by type of enterprise: Censuses of 1950 and 1940.....	4
4.—Complete-system irrigation enterprises by surface, ground, gravity and pumped water; and by acreage irrigated: Census of 1950.....	7
County table—	
1.—Irrigated farms: Number, acreage, and other characteristics: Censuses of 1950 and 1945.....	10
2.—Irrigation enterprises: Number and characteristics, by counties: Censuses of 1950 and 1940:	
Part 1.....	14
Part 2.....	18
Part 3.....	22
Part 4.....	26
3.—Acreage irrigated, by drainage basin origin of water, and by counties in which acreage was located:	
Census of 1950.....	29
Drainage basin table--	
1.—Irrigation enterprises: Number and characteristics by drainage basins: Censuses of 1950 and 1940:	
Part 1.....	33
Part 2.....	39
Part 3.....	45
Part 4.....	51



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

OREGON: 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.....	59,827	20,327,683	17,663	1,306,810	1,337,517	8,235	74,360,981
1945.....	63,125	19,754,257	15,597	1,129,059	(*)	(*)	(*)
1940.....	61,829	17,988,307	16,159	³ 1,030,228	1,049,176	5,884	50,961,251
1935.....	64,826	17,357,549	13,243	⁴ 570,038	(*)	(*)	(*)
1930.....	55,153	16,548,678	11,387	⁵ 637,967	898,713	4,066	38,754,548
1920.....	50,206	13,542,318	9,154	(**)	986,162	4,710	28,929,151
1910.....	45,502	11,685,110	6,669	(**)	686,129	3,745	12,760,214
1900.....	35,837	10,071,328	4,636	388,310	(*)	(*)	1,843,771
1890.....	25,530	6,909,888	3,150	177,944	(*)	(*)	825,660

*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 299,546 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..	8,235	5,884	4,066	4,710
Enterprises by type:				
Single-farm.....number..	7,480	5,616	3,861	(*)
Mutual:				
Unincorporated.....number..	580	90	150	(*)
Incorporated.....number..	117	102		(*)
Commercial.....number..		7	4	(*)
District.....number..	47	39	35	(*)
U.S. Bureau of Reclamation ¹.....number..	5	19	6	(*)
U.S. Bureau of Indian Affairs.....number..	3	7	4	(*)
State.....number..			3	(*)
City.....number..	3	2		(*)
Other.....number..		2	3	(*)
Irrigated land, total ².....acres..	1,337,517	1,049,176	898,713	906,162
Acreage irrigated, by type of enterprise: ³				
Single-farm.....acres..	612,526	559,975	450,841	590,626
Mutual:				
Unincorporated.....acres..	218,868	46,122	184,940	106,037
Incorporated.....acres..	117,748	115,617		
Commercial.....acres..		7,123	12,619	27,338
District.....acres..	252,069	204,271	160,974	92,081
U.S. Bureau of Reclamation ¹.....acres..	147,715	215,445	61,829	54,981
U.S. Bureau of Indian Affairs.....acres..	2,163	5,168	4,135	4,000
State.....acres..			325	
City.....acres..	489			330
Other.....acres..		425	23,050	30,769
Acreage irrigated, by source of water: ^{3 4}				
Streams (and lakes).....acres..	1,296,731	1,110,099	768,861	862,621
Springs.....acres..	77,696	36,047	6,973	9,584
Flowing wells.....acres..	54,788	6,740	2,415	612
Pumped wells.....acres..	105,092	14,335	5,410	2,438
Sewage.....acres..	2,074		35	10
Other and not reported.....acres..	110,897	19,742	126,840	111,542
Irrigated land artificially drained.....acres..	240,365	126,678	230,413	93,799
Irrigated land in need of drainage.....acres..	81,485	18,786	94,866	46,115
Irrigation works:				
Diversion dams.....total number..	6,231	5,097	3,806	3,285
Reservoirs.....number..	528	257	120	266
Total capacity (reported).....acre-feet..	2,421,138	2,212,315	1,698,428	1,905,037
Reservoir dams.....total number..	528	247	167	309
Canals and ditches.....total length, miles..	8,405	8,518	8,177	9,071
Pipe lines.....total length, miles..	572	665	225	160
Flowing wells.....number..	138	76	59	65
Pumped wells.....number..	2,770	901	558	208
Average pumping lift (reported).....feet..	35	35	(*)	(*)
Pumps.....number..	6,893	2,265	1,157	614
Average pumping lift from all sources.....feet..	(*)	27	27	28
Capital investment, total.....dollars..	74,360,981	50,961,251	38,754,548	28,929,151
Capital investment by type of enterprise:				
Single-farm.....dollars..	13,373,394	5,592,899	4,871,362	6,584,382
Mutual:				
Unincorporated.....dollars..	866,370	490,755	6,286,247	3,143,698
Incorporated.....dollars..	4,727,917	4,242,235		
Commercial.....dollars..	441,013	441,013	1,606,957	3,201,034
District.....dollars..	14,765,713	12,821,775	13,983,818	6,313,753
U.S. Bureau of Reclamation ¹.....dollars..	39,313,705	27,002,875	11,408,297	5,956,950
U.S. Bureau of Indian Affairs.....dollars..	450,530	347,360	257,317	230,038
State.....dollars..			9,550	16,107
City.....dollars..				171,068
Other.....dollars..	422,339	22,339	331,000	3,232,121

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Type of enterprise								
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation		All or part of water from U.S.B.R. projects ¹ 2	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ³		
ENTERPRISES: FARMS AND LAND IRRIGATED									
Number of enterprises.....enterprises 1950..	8,235	7,480	580	117	47	5	11	11	6
.....enterprises 1940..	5,884	5,616	90	102	39	19	(*)	(*)	18
Farms irrigated direct per enterprise.....farms 1949..	2.5	1.0	4.5	20.7	126.3	368.8	186.4	55.0	21.8
Area irrigated direct.....acres 1949..	1,351,578	612,526	218,868	117,748	252,069	147,715	109,213	65,002	2,652
.....acres 1939..	1,154,146	559,975	46,122	115,617	204,271	215,445	(*)	(*)	12,716
Average per enterprise.....acres 1949..	164	82	377	1,006	5,363	29,543	9,928	5,909	442
CHARACTERISTICS OF ENTERPRISES, 1949									
Multiple-purpose enterprises.....enterprises..	33	.....	11	9	9	1	3	2	3
Area irrigated direct.....acres..	109,428	.....	2,039	3,062	51,722	51,535	13,224	29,313	1,070
Complete-system enterprises.....enterprises..	7,374	6,771	501	77	21	1	3	.....	3
Area irrigated direct.....acres..	954,806	525,053	185,661	69,131	138,470	35,724	21,988	.....	747
Enterprises by origin of water supply:									
No water from other enterprises.....enterprises reporting..	7,520	6,819	568	100	31	5	6	.....	5
.....acres irrigated..	1,122,536	525,053	212,453	83,367	151,477	147,715	62,610	.....	2,471
Part of water from other enterprises.....enterprises reporting..	204	178	6	8	11	.....	4	.....	1
.....acres irrigated..	171,186	63,238	5,105	13,714	88,948	.....	41,385	.....	181
All water from other enterprises.....enterprises reporting..	503	483	6	9	5	.....	1	.....	6
.....acres irrigated..	57,856	24,235	1,310	20,667	11,644	.....	5,218	.....	.....
Enterprises by delivery of irrigation water:									
No water delivered.....enterprises reporting..	48	48	.....	.....	.....	.....	.....	.....	.....
Water delivered direct to farms only.....enterprises reporting..	8,007	7,432	486	74	12	1	4	1	2
.....acres irrigated..	924,397	612,526	172,568	63,707	39,685	35,724	24,383	578	187
Water delivered to farms and to other enterprises.....enterprises reporting..	166	.....	88	40	31	3	5	10	4
.....acres irrigated..	427,181	.....	46,300	54,041	212,384	111,991	84,830	64,424	2,465
Water delivered to other enterprises only.....enterprises reporting..	14	.....	6	3	4	1	2	.....	.....
Enterprises by primary and supplemental irrigation:³									
All primary.....enterprises reporting..	7,933	7,258	536	94	36	3	6	11	6
.....acres irrigated..	1,104,840	601,866	190,049	79,228	172,651	50,394	61,863	65,002	2,652
Part primary, part supplemental.....enterprises reporting..	109	48	34	19	7	1	3	.....	.....
.....acres irrigated..	232,677	3,047	16,326	37,275	79,002	97,027	47,172	.....	.....
Supplemental irrigation.....acres irrigated..	6,842	2,223	2,664	1,245	416	294	178	.....	.....
All supplemental.....enterprises reporting..	130	126	4	.....	.....	.....	.....	.....	.....
.....acres irrigated..	7,219	5,390	1,829	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:									
None.....enterprises reporting..	62	48	6	3	4	1	2	.....	.....
1-3.....enterprises reporting..	7,748	7,424	308	13	1	1	.....	.....	1
4-9.....enterprises reporting..	269	8	220	38	1	.....	.....	1	2
10-29.....enterprises reporting..	99	.....	44	43	11	.....	.....	2	1
30-99.....enterprises reporting..	29	.....	2	14	11	.....	.....	6	2
100-299.....enterprises reporting..	18	.....	.....	6	12	.....	.....	1	.....
300-999.....enterprises reporting..	8	.....	.....	.....	6	2	2	.....	.....
1,000 or more.....enterprises reporting..	2	.....	.....	.....	1	1	1	.....	.....
Enterprises by acres irrigated direct:									
None.....enterprises reporting..	62	48	6	3	4	1	2	.....	.....
1-29.....enterprises reporting..	4,822	4,760	58	3	.....	.....	.....	.....	1
30-99.....enterprises reporting..	1,868	1,702	158	8	.....	.....	.....	.....	.....
100-499.....enterprises reporting..	1,086	781	248	49	5	.....	.....	.....	3
500-999.....enterprises reporting..	193	104	62	19	6	1	.....	2	1
1,000-2,999.....enterprises reporting..	138	65	40	26	6	.....	.....	2	.....
3,000-9,999.....enterprises reporting..	51	16	7	8	20	.....	6	4	.....
10,000-29,999.....enterprises reporting..	9	3	1	1	4	.....	1	5	.....
30,000 or more.....enterprises reporting..	6	1	.....	.....	2	3	2	.....	.....
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949									
Surface water:									
Gravity only.....enterprises reporting..	2,888	2,183	566	99	32	3	7	1	5
.....acres irrigated..	863,684	387,842	213,627	94,634	128,650	36,433	56,428	2,916	2,498
Pumped only.....enterprises reporting..	3,152	3,127	10	7	8	.....	.....	7	.....
.....acres irrigated..	134,797	92,215	3,658	2,691	36,233	.....	.....	35,835	.....
Gravity and pumped.....enterprises reporting..	203	187	1	6	6	2	3	3	1
.....acres irrigated..	247,805	30,792	171	19,730	85,676	111,282	51,275	26,251	154
Ground water only (pumped from wells).....enterprises reporting..	1,617	1,611	1	5	.....	.....	.....	.....	.....
.....acres irrigated..	34,008	33,311	4	693	.....	.....	.....	.....	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	375	372	2	.....	1	.....	1	.....	.....
.....acres irrigated..	71,284	68,366	1,408	.....	1,510	.....	1,510	.....	.....
Stored water:									
None stored.....enterprises reporting..	7,758	7,006	556	94	18	.....	1	2	4
.....acres irrigated..	889,487	556,379	201,601	70,232	58,958	.....	5,941	22,586	2,317
Part stored.....enterprises reporting..	237	182	13	16	22	3	8	5	1
.....acres irrigated..	356,530	41,008	7,418	37,532	174,238	96,180	103,272	25,987	154
All stored.....enterprises reporting..	240	212	11	7	7	2	2	4	1
.....acres irrigated..	105,561	15,139	9,849	9,984	18,873	51,535	.....	16,429	181

*Not available.

¹These enterprises also included under "District" or other types of enterprises as the case may be.

²Single-farm enterprises receiving water from Bureau of Reclamation not included.

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 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.B.R. projects ¹ 2	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ¹		
SOURCES OF SURFACE WATER, 1949³									
Streams (and lakes).....enterprises reporting..	5,948	5,224	554	112	47	5	11	11	6
acres irrigated..	1,296,731	560,880	216,360	117,055	252,069	147,715	109,213	65,002	2,652
Springs.....enterprises reporting..	569	537	28	1	3	.....	.....	1	.....
acres irrigated..	77,696	61,957	5,420	702	9,617	.....	.....	7,586	.....
Flowing wells.....enterprises reporting..	77	77	.....	.....	.....	.....	.....	.....	.....
acres irrigated..	54,788	54,788	.....	.....	.....	.....	.....	.....	.....
Drainage water.....enterprises reporting..	333	315	11	3	3	1	2	3	.....
acres irrigated..	110,051	31,131	3,870	14,454	9,861	51,535	6,945	22,318	.....
Sewage.....enterprises reporting..	11	10	.....	1	.....	.....	.....	.....	.....
acres irrigated..	2,074	1,024	.....	1,050	.....	.....	.....	.....	.....
Other sources.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....
acres irrigated..	46	46	.....	.....	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND, 1949									
Irrigated land drained:									
Enterprises reporting.....enterprises..	1,032	941	38	25	25	2	5	9	1
Area supplied primary irrigation.....acres..	447,570	100,882	21,696	43,974	144,922	135,915	49,964	54,500	181
Area artificially drained.....acres..	240,365	68,334	9,554	17,198	73,874	71,355	19,252	46,269	50
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	1,051	904	84	37	23	2	6	5	1
Area supplied primary irrigation.....acres..	449,430	111,894	66,119	52,110	107,732	110,988	58,792	25,365	587
Area in need of drainage.....acres..	81,485	30,680	13,812	7,722	20,684	8,000	7,600	6,440	587
IRRIGATION WORKS, 1950									
Diversion dams.....enterprises reporting..	3,243	2,599	527	83	28	1	8	2	5
dams..	6,231	5,183	834	121	76	2	16	4	15
Diversion dams by material:									
Concrete or masonry.....dams..	866	581	185	49	46	1	15	1	4
Timber.....dams..	1,061	768	235	35	19	.....	.....	.....	.....
Earth and rock.....dams..	3,764	3,380	340	29	8	.....	.....	.....	.....
Other, mixed, and not reported.....dams..	540	454	74	8	3	.....	.....	.....	.....
Reservoirs.....enterprises reporting..	411	365	20	7	13	4	6	12	2
reservoirs..	528	459	22	11	28	6	6	12	2
Reservoirs for which capacity was reported.....number..	471	406	20	9	28	6	6	12	2
total capacity, acre-feet..	2,421,138	105,472	64,671	132,412	469,496	1,647,900	383,600	146	1,187
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	340	322	4	2	12	.....	.....	12	.....
100-999 acre-feet.....reservoirs..	79	61	10	2	4	.....	.....	.....	2
1,000 acre-feet and over.....reservoirs..	52	23	6	5	12	6	6	.....	.....
Reservoir dams by material:									
Concrete or masonry.....dams..	51	40	1	1	5	3	2	.....	1
Earth and rock.....dams..	402	352	20	4	22	3	2	12	1
Other, mixed, and not reported.....dams..	75	67	1	6	1	0	.....	.....	.....
Canals and ditches.....enterprises reporting..	1,880	1,180	540	107	45	3	9	.....	5
total length, miles..	8,406	2,080	1,462	1,204	2,587	986	1,116	448	87
Pipelines and siphons.....enterprises reporting..	602	526	30	19	23	2	5	3	2
total length, miles..	572	313	52	35	112	55	122	3	5
Tunnels.....enterprises reporting..	23	.....	7	7	7	2	4	.....	.....
total length, feet..	77,496	.....	1,460	3,120	10,288	62,628	9,348	.....	.....
Flowing wells.....enterprises reporting..	75	75	.....	.....	.....	.....	.....	.....	.....
wells..	138	138	.....	.....	.....	.....	.....	.....	.....
Pumped wells.....enterprises reporting..	1,990	1,983	3	4	.....	.....	.....	.....	.....
wells..	2,770	2,761	4	5	.....	.....	.....	.....	.....
Wells for which pumping lift was reported.....wells..	2,508	2,503	4	1	.....	.....	.....	.....	.....
Average pumping lift.....feet..	35	35	51	861	.....	.....	.....	.....	.....
Irrigation pumps.....enterprises reporting..	5,327	5,280	16	17	12	2	2	8	.....
pumps..	6,893	6,761	19	29	66	17	5	8	1
Electric motors used for pumping.....enterprises reporting..	3,435	3,390	15	16	12	2	2	.....	.....
electric motors..	4,348	4,224	18	28	63	15	5	.....	.....
Other motors and engines used for pumping.....enterprises reporting..	2,189	2,183	2	2	2	.....	.....	.....	.....
other motors and engines..	2,476	2,469	2	2	2	.....	.....	.....	1
SEASON OF IRRIGATION, 1949									
Water delivered only before July 1.....enterprises reporting..	458	358	95	5	.....	.....	.....	.....	.....
acres irrigated..	143,785	95,106	44,468	4,211	.....	.....	.....	.....	6
Water delivered before and after July 1.....enterprises reporting..	6,746	6,107	478	106	45	4	10	11	.....
acres irrigated..	1,139,748	465,443	165,793	106,076	252,069	147,715	109,213	65,002	2,652
Water delivered only after July 1.....enterprises reporting..	833	824	4	5	.....	.....	.....	.....	.....
acres irrigated..	21,344	16,471	492	4,381	.....	.....	.....	.....	.....
CAPITAL INVESTMENT, 1950 AND 1940									
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	50,961,251	5,592,899	490,755	4,242,235	12,821,775	27,002,875	(*)	(*)	810,712
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises 1950..	5,095	4,790	205	67	26	4	6	8	3
Amount.....dollars 1950..	23,399,730	7,780,495	375,615	485,682	1,943,938	12,310,830	911,427	571,902	503,170
Area irrigated direct.....acres 1949..	847,215	366,718	94,095	61,557	176,082	147,006	94,616	39,689	1,757
Total capital investment Jan. 1, 1950.....dollars 1950..	74,360,981	13,373,394	866,370	4,727,917	14,765,713	39,313,705	(*)	(*)	1,313,882
INDEBTEDNESS, 1950⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	75	.....	7	24	37	3	9	11	4
Amount.....dollars..	38,262,112	.....	60,091	600,475	10,970,512	26,039,355	7,861,859	1,351,352	591,679
Area irrigated direct.....acres..	443,369	.....	5,169	59,685	229,165	147,006	99,166	65,002	2,344
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	6	.....	.....	3	3	.....	2	.....	.....
Amount.....dollars..	534,412	.....	.....	88,198	446,214	.....	416,214	.....	.....
Area irrigated direct.....acres..	25,957	.....	.....	10,125	15,832	.....	14,199	.....	.....

*Not available. ¹These enterprises are also included under "District" or other types of enterprises as the case may be. ²Not including single-farm enterprises receiving water from Bureau of Reclamation projects. ³Enterprises reporting water from more than 1 source are counted for each. For interstate enterprises, number of enterprises represents characteristics of the entire enterprise, acreage represents acreage within the State. ⁴Not 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.B.R. projects ^{1 2}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ¹		
COST OF WATER TO FARMS, 1949³									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	8,172	7,432	574	113	43	1	9	11	6
Cost.....dollars..	3,308,245	1,093,253	100,875	271,545	1,193,896	644,616	456,983	274,648	4,060
Area irrigated direct.....acres..	1,351,578	612,526	218,868	117,748	252,069	147,715	109,213	65,002	2,652
Cost per acre irrigated direct.....dollars..	2.45	1.78	0.46	2.31	4.74	4.36	4.18	4.22	1.53
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	2,663	2,192	420	48					3
acres irrigated..	665,319	440,462	186,115	37,160					1,582
acres irrigated.....enterprises reporting..	490	402	56	24	5	1		1	2
\$1.00-\$1.99.....acres irrigated..	105,423	40,536	14,668	29,945	18,676	709		2,916	889
\$2.00-\$4.99.....acres irrigated..	1,378	1,261	72	24	19	2	5	5	
\$5.00-\$9.99.....acres irrigated..	367,432	60,171	16,455	40,863	162,684	87,259	89,867	45,561	
\$10.00 or more.....acres irrigated..	1,685	1,637	20	12	15	1	4	4	
acres irrigated.....enterprises reporting..	175,107	44,259	1,506	7,592	62,003	59,747	19,346	13,434	
acres irrigated.....	1,956	1,940	6	5	4			1	1
acres irrigated.....	38,297	27,098	124	2,188	8,706			3,091	181
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	8,042	7,306	570	113	43	4	9	11	6
Cost.....dollars..	3,275,401	1,067,405	99,500	270,470	1,190,951	643,015	456,041	274,648	4,060
Area supplied primary irrigation.....acres..	1,337,517	604,913	214,375	116,503	251,653	147,421	109,035	65,002	2,652
Cost per acre supplied.....dollars..	2.45	1.76	0.46	2.32	4.73	4.36	4.18	4.22	1.53
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	239	174	38	19	7	1	3		
Cost.....dollars..	32,844	25,048	1,375	1,075	2,945	1,601	942		
Area supplied supplemental irrigation.....acres..	14,061	7,613	4,493	1,245	416	294	178		
Cost per acre supplied.....dollars..	2.34	3.40	0.31	0.86	7.08	5.45	5.29		
Cost to farms for purposes other than operation and maintenance: ⁴									
Enterprises reporting.....enterprises..	101		39	30	31		6	10	1
Cost.....dollars..	364,241		29,299	54,138	279,924		105,804	70,399	880
Area irrigated direct.....acres..	263,960		18,396	53,049	192,334		90,185	62,086	181
Cost per acre irrigated.....dollars..	1.38		1.59	1.02	1.46		1.17	1.13	4.86
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
Enterprises reporting.....enterprises..	82		11	48	21		5	4	2
Amount.....dollars..	119,916		2,958	23,668	92,670		38,154	7,565	620
Area irrigated direct.....acres..	179,200		7,380	68,963	102,089		45,816	20,464	768
QUANTITIES OF WATER REPORTED, 1949⁴									
Total obtained from all sources ⁵.....enterprises reporting..	616		454	107	45	5	11	11	5
acre-feet..	5,227,894		511,464	639,978	2,534,356	1,519,917	1,796,958	336,160	22,179
Surface sources.....enterprises reporting..	890		447	94	39	5	9	6	5
acre-feet..	3,768,532		490,485	458,804	1,277,847	1,519,917	665,615	127,473	21,479
Pumped wells.....enterprises reporting..	9		3	5	1		1		
acre-feet..	2,858		392	1,705	761		761		
Other enterprises.....enterprises reporting..	46		12	17	16		5	11	1
acre-feet..	1,456,504		20,587	179,469	1,255,748		1,130,582	208,687	700
Conveyance loss ⁵.....enterprises reporting..	413		277	85	44	3	11	11	4
acre-feet..	1,243,956		43,792	133,476	588,354	469,097	411,759	69,689	9,237
Delivered: ⁵									
Direct to farms.....enterprises reporting..	608		451	105	43	4	9	11	5
acre-feet..	3,113,333		387,718	457,574	1,653,260	603,914	1,165,224	232,601	10,067
To other enterprises.....enterprises reporting..	138		65	33	33	4	7	6	3
acre-feet..	817,108		69,166	38,478	275,626	433,263	219,975	33,870	575
For use other than irrigation.....enterprises reporting..	84		64	13	5	1			1
acre-feet..	53,497		10,788	10,450	17,116	13,643			1,500
Delivered direct to farms for primary irrigation:									
Enterprises reporting.....enterprises..	604		447	105	43	4	9	11	5
Quantity delivered.....acre-feet..	2,234,891		380,273	430,166	953,297	452,288	513,148	212,433	10,067
Area supplied primary irrigation.....acres..	652,319		138,463	112,284	251,653	47,421	109,035	65,002	2,498
Quantity per acre supplied.....acre-feet..	3.4		2.7	3.9	3.8	3.1	4.7	3.2	4.4
Delivered direct to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	54		31	15	7	1	3		
Quantity delivered.....acre-feet..	13,570		4,728	4,875	2,809	1,158	877		
Area supplied supplemental irrigation.....acres..	3,844		2,013	1,127	410	294	178		
Quantity per acre supplied.....acre-feet..	3.5		2.3	4.3	6.9	3.9	4.9		
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	2,162,587		87,529	267,978	1,160,105	643,015	456,041	274,648	3,960
Average cost per acre-foot.....dollars..	0.97		0.23	0.61	1.22	1.42	0.88	1.29	0.36
Cost for supplemental irrigation.....dollars..	5,995		379	1,070	2,945	1,601	942		
Average cost per acre-foot.....dollars..	0.44		0.08	0.22	1.05	1.38	1.07		
Measurement of water to farms:									
No water measured.....enterprises reporting..	598		494	81	18		3	2	5
acres..	290,527		199,976	44,778	43,423		18,522	3,669	2,350
Part of water measured.....enterprises reporting..	28		15	4	7	2	2	4	
acres..	155,843		6,168	24,183	65,036	60,456	46,653	18,286	
All water measured.....enterprises reporting..	114		59	32	20	2	4	5	1
acres..	284,343		10,726	48,787	137,269	87,259	44,128	43,047	302

¹These enterprises also included under "District" or other types of enterprises as the case may be.

²Not including single-farm enterprises receiving water from Bureau of Reclamation projects.

³Enterprises with reported cost of \$0 in 1949 are included.

⁴Not reported by single-farm enterprises.

⁵For 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									
Number of enterprises.....enterprises..	7,374	2,627	2,687	1,588	472	6,115	1,108	144	7
Farms irrigated direct per enterprise.....farms..	2.1	3.2	1.1	1.1	4.9	1.1	2.8	29.2	193.0
Area irrigated.....acres..	954,806	717,660	84,135	33,266	119,745	130,892	308,142	357,323	158,449
Average per enterprise.....acres..	129	273	31	21	254	21	278	2,481	22,636
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	16	15	1			6	8	2	
Area irrigated.....acres..	19,523	19,287	236			375	2,287	16,861	
Type of enterprise:									
Single-farm.....enterprises..	6,771	2,053	2,670	1,583	465	5,918	776	74	3
acres..	525,053	361,894	77,429	32,663	53,067	121,366	197,176	153,218	53,293
Mutual:									
Unincorporated.....enterprises..	501	490	9	1	1	190	274	36	1
acres irrigated..	185,681	181,889	3,617	4	171	9,208	86,676	77,797	12,000
Incorporated.....enterprises..	77	64	7	4	2	6	50	21	
acres irrigated..	69,131	63,930	2,691	599	1,911	312	19,508	49,311	
Commercial.....enterprises..									
acres irrigated..									
District.....enterprises..	21	17	1		3		6	13	2
acres irrigated..	138,470	73,630	398		64,442		4,041	76,997	57,432
U.S. Bureau of Reclamation ⁴.....enterprises..	1	1							1
acres irrigated..	35,724	35,724							35,724
U.S. Bureau of Indian Affairs ⁴.....enterprises..	2	1			1		2		
acres irrigated..	741	587			154		741		
State.....enterprises..									
acres irrigated..									
City.....enterprises..	1	1				1			
acres irrigated..	(5)	(5)				(5)			
Enterprises by primary and supplemental irrigation: ⁶									
All primary.....enterprises reporting..	7,182	2,558	2,661	1,502	461	5,976	1,072	129	5
acres irrigated..	846,629	674,811	80,723	31,374	59,721	127,632	297,033	320,289	101,675
Part primary, part supplemental.....enterprises reporting..	76	41	10	18	7	35	26	13	2
Primary irrigation.....acres irrigated..	96,560	34,788	2,062	704	59,005	983	6,995	31,989	56,593
Supplemental irrigation.....acres irrigated..	4,997	3,327	570	172	928	398	2,153	2,265	181
All supplemental.....enterprises reporting..	115	27	16	68	4	104	9	2	
acres irrigated..	6,620	4,734	780	1,016	90	1,879	1,961	2,780	
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	7,045	2,325	2,673	1,584	463	6,058	901	83	3
4-9.....enterprises reporting..	221	206	9	2	4	51	150	19	1
10-29.....enterprises reporting..	75	68	3	2	2	6	50	19	
30-99.....enterprises reporting..	17	16	1				6	11	
100-299.....enterprises reporting..	11	9	1		1		1	9	1
300-999.....enterprises reporting..	5	3			2			3	2
1,000 and over.....enterprises reporting..									
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	4,479	985	1,969	1,269	256	4,479			
30-99.....enterprises reporting..	1,636	658	586	272	120	1,636			
100-499.....enterprises reporting..	950	710	118	46	76		950		
500-999.....enterprises reporting..	158	143	8	1	6		158		
1,000-2,999.....enterprises reporting..	107	94	6		7			107	
3,000-9,999.....enterprises reporting..	37	32			5			37	
10,000-29,999.....enterprises reporting..	5	4			1				5
30,000 and over.....enterprises reporting..	2	1			1				2
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	2,627	2,627				1,643	853	126	5
acres irrigated..	717,660	717,660				47,087	254,454	315,102	101,017
Pumped only.....enterprises reporting..	2,687		2,687			2,555	126	6	
acres irrigated..	84,135		84,135			49,594	26,056	8,485	
Gravity and pumped.....enterprises reporting..	152				152	118	23	9	2
acres irrigated..	92,593				92,593	2,683	5,572	26,906	57,432
Ground water only (pumped from wells).....enterprises reporting..	1,588			1,588		1,541	47		
acres irrigated..	33,266			33,266		25,156	8,110		
Surface (gravity or pumped) and ground.....enterprises reporting..	320				320	258	59	3	
acres irrigated..	27,152				27,152	6,372	13,950	6,830	
Stored water:									
None stored.....enterprises reporting..	6,999	2,450	2,559	1,571	419	5,870	1,012	113	4
acres irrigated..	725,603	563,252	80,883	32,354	49,114	125,893	278,272	256,145	65,293
Part stored.....enterprises reporting..	171	96	27	8	40	83	62	23	3
acres irrigated..	193,356	121,582	1,134	329	70,311	2,334	10,905	78,961	93,156
All stored.....enterprises reporting..	204	81	101	9	13	162	34	8	
acres irrigated..	35,847	32,826	2,118	583	320	2,665	10,965	22,217	

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.
⁴Data for less than 3 enterprises shown with permission of the enterprise.
⁵Data for less than 3 enterprises not shown separately.
⁶For 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..	5,145	2,373	2,386	.....	386	3,977	1,018	143	7
acres irrigated..	902,285	708,372	77,006	.....	116,907	95,633	291,880	356,323	158,449
Springs.....enterprises reporting..	536	303	156	.....	77	465	59	11	1
acres irrigated..	67,089	57,564	3,274	.....	6,251	7,787	17,111	27,191	15,000
Flowing wells.....enterprises reporting..	74	36	14	.....	24	47	23	4	.....
acres irrigated..	19,708	12,718	1,011	.....	5,979	1,042	8,671	9,995	.....
Drainage water.....enterprises reporting..	284	65	184	.....	35	251	31	2	.....
acres irrigated..	13,937	6,569	5,663	.....	1,705	5,126	6,506	2,305	.....
Sewage.....enterprises reporting..	8	2	5	.....	1	6	1	1	.....
acres irrigated..	1,316	1,089	103	.....	124	142	124	1,050	.....
Other sources.....enterprises reporting..	2	1	.....	.....	1	2	.....	.....	.....
acres irrigated..	46	10	.....	.....	36	46	.....	.....	.....
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	911	153	554	130	74	752	131	27	1
acres irrigated..	176,116	110,140	24,161	2,713	39,102	17,728	39,113	77,609	41,666
Acresage supplied primary irrigation.....acres..	71,164	25,051	16,579	1,543	27,991	11,704	17,219	24,502	17,739
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	906	325	399	121	61	661	210	34	1
acres irrigated..	220,408	179,024	18,562	3,366	19,456	17,464	62,006	116,138	24,900
Acresage in need of drainage.....acres..	46,791	33,872	6,314	1,632	4,973	6,528	14,612	23,901	1,750
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	2,967	2,397	380	3	187	1,993	848	120	6
dams..	5,708	4,933	419	3	353	2,914	2,232	509	53
Diversion dams by material:									
Concrete or masonry.....dams..	721	619	34	1	67	305	311	99	6
Timber.....dams..	930	826	61	1	42	445	379	103	3
Earth or rock.....dams..	3,564	3,096	263	.....	205	1,927	1,339	254	44
Other, mixed, and not reported.....dams..	493	392	61	1	39	237	203	53	.....
Reservoirs.....enterprises reporting..	362	174	123	16	49	237	98	25	2
reservoirs..	464	238	140	19	67	274	144	44	2
Reservoirs for which capacity was reported.....reservoirs..	416	210	130	16	60	245	128	41	2
total capacity, acre-feet..	661,935	568,691	2,385	1,408	89,451	5,112	71,485	350,038	235,300
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	303	114	126	12	51	235	61	7	.....
100-999 acre-feet.....reservoirs..	73	61	4	4	4	10	49	14	.....
1,000 acre-feet and over.....reservoirs..	40	35	.....	.....	5	.....	18	20	2
Reservoir dams by material:									
Concrete or masonry.....dams..	39	22	13	.....	4	21	15	3	.....
Earth or rock.....dams..	359	190	101	15	53	211	112	34	2
Other, mixed, and not reported.....dams..	66	26	26	4	10	42	17	7	.....
Canals and ditches.....enterprises reporting..	1,605	1,400	108	12	85	890	613	98	4
total length, miles..	5,550	4,737	199	13	601	1,067	1,873	2,073	537
Pipelines and siphons.....enterprises reporting..	538	111	309	57	61	473	47	15	3
total length, miles..	379	80	225	41	33	267	72	38	2
Tunnels.....enterprises reporting..	14	11	.....	.....	2	4	3	5	2
total length, feet..	11,780	10,720	160	.....	900	315	685	3,080	7,700
Flowing wells.....enterprises reporting..	73	35	14	.....	24	47	23	3	.....
wells..	135	77	24	.....	34	81	50	4	.....
Pumped wells.....enterprises reporting..	1,911	.....	4	1,588	319	1,802	106	3	.....
wells..	2,671	.....	4	2,199	468	2,404	255	12	.....
Wells for which pumping lift was reported.....wells..	2,416	.....	.....	1,992	424	2,168	236	12	.....
Average pumping lift.....feet..	35	.....	35	35	35	33	47	19	.....
Irrigation pumps.....enterprises reporting..	4,733	13	2,672	1,583	465	4,461	252	18	2
pumps..	6,037	14	3,155	2,050	818	5,443	521	68	5
Electric motors used for pumping.....enterprises reporting..	3,012	9	1,429	1,282	292	2,808	188	10	2
electric motors..	3,750	10	1,640	1,614	486	3,350	357	39	4
Other motors and engines used for pumping.....enterprises reporting..	1,984	9	1,342	387	246	1,869	108	6	1
other motors and engines..	2,246	9	1,486	432	319	2,059	169	17	1
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	401	357	30	7	184	190	27	.....	.....
acres irrigated..	117,034	115,650	489	91	804	63,645	47,552	.....	.....
Water delivered before and after July 1.....enterprises reporting..	6,043	2,125	2,172	1,342	404	5,044	882	111	6
acres irrigated..	775,275	555,066	74,088	29,457	116,664	110,827	236,936	283,856	143,656
Water delivered only after July 1.....enterprises reporting..	781	80	430	216	55	758	23	.....	.....
acres irrigated..	15,777	2,209	8,117	3,301	2,150	11,997	3,790	.....	.....
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	4,508	814	2,147	1,190	357	3,915	514	74	5
Amount.....dollars..	19,981,610	13,126,444	3,392,637	2,089,580	1,372,949	5,361,266	1,935,786	1,253,993	11,436,565
Area irrigated.....acres..	526,340	345,898	61,550	26,630	92,262	79,414	140,740	191,552	114,634
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	36	30	1	1	4	2	9	23	2
Amount.....dollars..	15,628,176	14,711,531	54,380	11,000	851,265	23,827	303,228	3,875,121	11,436,880
Area irrigated.....acres..	284,465	137,443	650	25	66,347	93	6,218	104,998	93,156
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	.....	5	.....	.....	.....	.....	.....	5	.....
Amount.....dollars..	534,236	534,236	.....	.....	.....	.....	.....	534,236	.....
Area irrigated.....acres..	23,396	23,396	.....	.....	.....	.....	.....	23,396	.....

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 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.]

Table with columns: Item (For definitions and explanations, see text), Total complete-system enterprises, Type of water (Surface: All gravity, All pumped; Ground (pumped wells); Mixed), and Acres irrigated (1 to 99, 100 to 999, 1,000 to 9,999, 10,000 and over). Rows include: COST OF WATER TO FARMS (Total cost of water to farms, Enterprises by cost per acre, Cost of water for primary/supplemental irrigation, Cost to farms for purposes other than operation, Arrearage in payments by farms, JAN. 1, 1950); QUANTITIES OF WATER REPORTED (Total obtained from all sources, Delivered, Delivered to farms for primary/supplemental irrigation, Cost of water to farms for enterprises reporting, Measurement of water to farms).

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

2 Interstate enterprises are classified according to type of water or acres irrigated for the entire enterprise.
3 Surface water includes water from springs and from flowing wells.
4 Enterprises with reported cost of \$0 in 1949 are included.
5 Not reported by single-farm enterprises.
6 For interstate enterprises, data represent characteristics of the entire enterprise.

IRRIGATION OF AGRICULTURAL LANDS

County Table 1.—IRRIGATED FARMS: NUMBER, ACREAGE, AND 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	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook
1	Irrigated farms.....	17,663	900	181	383	14	116	220	365
2	Land in irrigated farms.....	10,925,924	843,179	45,577	29,628	2,436	17,189	49,673	814,037
3	Proportion of all farms.....	29.5	85.6	14.0	6.3	1.7	5.8	14.6	77.3
4	Average per farm, acres.....	618.6	936.9	251.8	77.4	172.6	148.2	225.8	2,230.2
5	Average per acre, dollars.....	26,569	27,899	32,720	21,892	43,925	41,064	24,752	36,391
6	Proportion of irrigated farms reporting value.....	45.88	29.73	137.04	331.13	113.65	214.17	121.12	14.70
7	Proportion of land in irrigated farms for which value was reported.....	89	88	87	74	143	72	69	76
8	Land in irrigated farms according to use, 1949:								
9	Cropland harvested.....	16,003	856	175	360	13	109	201	348
10	Cropland used only for pasture.....	1,318,457	94,943	15,136	10,443	378	5,423	3,701	43,408
11	Cropland not harvested and not pastured.....	555,693	25,066	3,745	3,310	255	3,844	6,982	12,476
12	Woodland pastured.....	348,671	15,192	1,878	2,235	49	1,530	735	10,332
13	Other pasture (not cropland and not woodland).....	1,920,974	60,725	9,406	5,604	750	2,794	7,296	252,076
14	Land pastured, total.....	6,252,662	623,877	5,571	927	56	1,516	11,932	473,788
15	Land harvested, total.....	14,057	852	150	272	6	87	162	329
16	Irrigated land in farms.....	8,729,329	709,668	18,722	9,841	1,061	8,154	26,210	738,340
17	Land irrigated by sprinklers.....	121,965	4,415	4,415	4,672	174	4,034	4,382	48,211
18	Land irrigated by ditches.....	1,129,059	121,578	785	1,703	56	427	644	44,939
19	Land irrigated by other methods.....	4,140	4	138	281	9	164	7	7
20	Irrigated land in farms according to use, 1949:	98,769	218	3,163	3,707	82	3,154	3,508	213
21	Irrigated cropland harvested.....	14,653	831	113	275	10	87	145	342
22	Irrigated pasture.....	893,304	83,462	2,891	2,724	67	2,883	1,397	32,683
23	Irrigated wild grass pasture.....	10,435	634	115	175	6	52	114	227
24	Irrigated tame grass pasture.....	367,242	36,776	1,373	1,889	107	948	2,896	14,812
25	Irrigated cropland not harvested and not pastured.....	2,774	224	16	26	1	7	14	104
26	Irrigated cropland harvested.....	207,926	20,558	74	111	3	62	333	10,408
27	Irrigated cropland not harvested and not pastured.....	8,232	441	102	154	5	48	104	144
28	Irrigated cropland harvested.....	159,316	16,218	1,299	1,778	104	886	2,563	4,404
29	Irrigated cropland not harvested and not pastured.....	2,055	62	19	24	.....	10	25	38
30	Irrigated cropland harvested.....	46,264	1,727	151	59	.....	203	89	716
31	Irrigated farms by acres irrigated in 1949:								
32	1-9 acres.....	5,259	111	74	226	8	33	105	35
33	10-19 acres.....	2,736	62	42	85	2	22	35	22
34	20-29 acres.....	1,688	61	24	47	3	21	20	20
35	30-49 acres.....	2,371	108	22	14	.....	15	32	55
36	50-99 acres.....	2,870	189	13	9	1	17	25	91
37	100-199 acres.....	1,650	204	3	.....	.....	6	3	83
38	200 acres and over.....	1,089	165	3	2	.....	2	.....	59
39	Irrigated farms by tenure of operator, 1950:								
40	Full owners.....	12,618	588	115	270	11	75	166	260
41	Part owners.....	3,103	184	44	71	1	32	19	63
42	Managers.....	154	3	3	7	1	3	1	3
43	Tenants.....	1,788	125	19	35	1	6	34	39
44	Land in wholly and in partly irrigated farms:								
45	Wholly irrigated farms.....	10,167	628	39	106	4	31	97	226
46	All land.....	5,047,898	547,344	2,531	3,842	31	3,179	9,616	345,744
47	Cropland harvested.....	61,652	787	871	871	16	1,060	771	22,806
48	Irrigated land.....	918,114	91,247	1,016	1,095	16	1,336	1,282	35,279
49	Partly irrigated farms.....	7,496	272	142	277	10	85	123	139
50	All land.....	5,878,026	295,835	43,046	25,786	2,385	14,010	40,057	468,293
51	Cropland harvested, total.....	5,836	228	136	254	9	78	104	122
52	Irrigated land.....	671,547	33,291	14,349	9,572	362	4,363	2,930	20,602
53	Irrigated cropland harvested.....	388,696	30,718	3,399	3,577	158	2,698	3,100	12,932
54	Irrigated cropland not harvested and not pastured.....	4,486	203	74	169	6	56	48	116
55	Irrigated cropland harvested.....	246,394	21,810	2,104	1,853	51	1,823	626	9,877
56	Characteristics of wholly irrigated and nonirrigated farms:								
57	Wholly irrigated farms.....	10,167	628	39	106	4	31	97	226
58	Average acreage per farm:								
59	All land.....	486.5	871.6	64.9	36.2	7.7	102.5	99.1	1,529.8
60	Cropland harvested.....	63.6	98.2	20.2	8.2	4.0	34.2	7.9	100.9
61	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....	2.5	0.3	0.5	0.3	.....	(1)	0.2	(1)
62	Vegetables harvested for sale.....	1.2	(1)	13.4	5.2	.....	0.5	(1)	(1)
63	Small grains (including sorghums).....	15.8	26.5	1.1	0.3	.....	0.1	(1)	28.0
64	All hay.....	36.2	70.4	5.0	1.1	.....	8.2	4.2	52.7
65	Farms by tenure of operator:								
66	Full owners and managers.....	7,575	424	28	81	3	26	84	160
67	Part owners.....	1,448	114	5	11	1	3	4	36
68	Tenants.....	1,144	90	6	14	.....	2	9	30
69	Value of land and buildings per farm.....	23,489	29,244	54,333	23,580	10,000	37,669	10,125	34,058
70	Nonirrigated farms.....	42,164	152	1,112	5,707	823	1,876	1,289	107
71	Average acreage per farm:								
72	All land.....	223.0	530.0	166.3	51.2	65.9	75.7	177.5	1,494.9
73	Cropland harvested.....	45.1	59.6	45.4	15.5	11.2	10.5	9.1	56.6
74	Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....	2.0	(1)	1.3	1.2	0.2	0.4	0.4	.....
75	Vegetables harvested for sale.....	1.3	.....	(1)	0.3	(1)	0.3	(1)	.....
76	Small grains (including sorghums).....	27.2	34.6	22.0	6.3	0.5	1.6	0.2	19.0
77	All hay.....	7.9	23.9	7.5	4.4	7.3	6.8	8.4	34.6
78	Farms by tenure of operator:								
79	Full owners and managers.....	33,370	111	861	4,866	732	1,638	1,128	81
80	Part owners.....	5,179	22	157	520	53	129	60	15
81	Tenants.....	3,415	19	94	321	38	109	101	11
82	Value of land and buildings per farm.....	17,228	7,720	15,682	11,936	9,328	9,319	11,752	22,646
83	Irrigated farms and irrigated land by origin of water, 1949:								
84	Individually operated supply works and—								
85	No other irrigation enterprise.....	6,485	251	178	352	12	114	219	86
86	1 other irrigation enterprise.....	478,694	28,737	4,395	4,428	169	3,925	4,380	20,604
87	2 or more other irrigation enterprises.....	753	65	.....	.....	1	1	.....	10
88	No individually operated supply works but—	159,930	15,885	.....	.....	4	8	.....	1,978
89	1 other irrigation enterprise.....	103	28	.....	.....	.....	.....	.....	1
90	2 or more other irrigation enterprises.....	62,063	8,446	.....	.....	.....	.....	.....	408
91	Farms by tenure of operator:								
92	Full owners and managers.....	9,668	369	3	31	1	1	1	264
93	Part owners.....	499,633	36,627	20	244	1	101	2	23,201
94	Tenants.....	654	187	.....	.....	.....	.....	.....	4
95	Value of land and buildings per acre irrigated.....	106,490	32,270	.....	.....	.....	.....	.....	2,020

See footnotes 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)	Curry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson
Irrigated farms.....number 1950..	57	865	278	42	284	214	939	1,863	460
.....number 1945..	2	910	171	40	351	270	949	1,938	61
Proportion of all farms.....percent 1950..	11.9	92.3	10.5	17.8	66.7	64.3	91.2	67.1	81.1
Land in irrigated farms.....acres 1950..	15,892	234,666	70,807	120,343	757,624	951,601	37,084	272,112	329,311
.....average per farm, acres 1950..	278.8	271.3	254.7	2,865.3	2,667.7	4,446.7	39.5	146.1	715.9
Value of land and buildings.....average per farm, dollars 1950..	26,639	14,215	24,530	28,864	40,365	67,774	16,955	23,634	25,780
.....average per acre, dollars 1950..	135.90	54.04	111.10	10.46	15.68	15.25	467.78	192.29	41.14
Proportion of irrigated farms reporting value.....percent 1950..	107	93	97	74	87	70	98	91	90
Proportion of land in irrigated farms for which value was reported.....percent 1950..	75	90	84	71	84	70	90	76	79
<i>Land in irrigated farms according to use, 1949:</i>									
Cropland harvested.....farms reporting..	54	746	252	41	275	210	870	1,493	442
.....acres..	800	31,446	8,310	4,165	39,311	97,499	16,115	49,712	45,447
Cropland used only for pasture.....acres..	4,693	14,240	5,927	16,185	10,357	17,429	2,416	28,460	19,852
Cropland not harvested and not pastured.....acres..	472	9,600	1,757	5,660	5,125	7,719	1,871	8,476	19,778
Woodland pastured.....acres..	3,694	41,548	23,358	10,000	85,201	20,191	3,791	108,862	52,625
Other pasture (not cropland and not woodland).....acres..	1,707	116,506	17,271	83,606	594,311	796,142	2,751	42,520	181,864
Land pastured, total.....farms reporting..	44	802	248	40	278	203	584	1,470	232
.....acres..	10,094	172,294	46,556	109,791	689,869	833,762	8,958	179,842	254,341
Irrigated land in farms.....acres 1949..	923	48,079	3,798	1,771	37,669	126,725	19,117	49,346	39,635
.....acres 1944..	3	45,300	1,735	1,786	43,925	104,825	20,460	48,590	3,800
Land irrigated by sprinklers.....farms reporting 1949..	37	22	150	9	8	1	314	148	13
.....acres 1949..	450	358	1,749	274	110	10	7,379	4,014	701
<i>Irrigated land in farms according to use, 1949:</i>									
Irrigated cropland harvested.....farms reporting..	42	737	178	40	263	207	850	1,349	435
.....acres..	168	28,823	1,972	1,641	30,104	84,089	15,099	32,179	34,647
Irrigated pasture.....farms reporting..	27	743	148	6	129	100	467	1,184	98
.....acres..	739	16,707	1,686	104	7,123	40,307	3,409	16,022	2,043
Irrigated wild grass pasture.....farms reporting..	7	178	29	1	83	90	262	238	22
.....acres..	225	3,116	241	11	5,317	38,261	1,584	4,430	475
Irrigated tame grass pasture.....farms reporting..	22	651	132	5	58	21	243	982	80
.....acres..	514	13,591	1,445	93	1,806	2,046	1,825	11,592	1,568
Irrigated cropland not harvested and not pastured.....farms reporting..	6	196	21	2	11	19	117	230	101
.....acres..	16	2,549	140	26	442	2,329	609	1,145	2,945
<i>Irrigated farms by acres irrigated in 1949:</i>									
1-9 acres.....farms reporting..	37	151	148	2	36	4	390	907	17
.....acres..	4	108	62	12	33	3	238	323	22
10-19 acres.....farms reporting..	4	93	34	3	26	2	112	219	23
.....acres..	5	165	21	10	49	10	125	185	78
20-29 acres.....farms reporting..	4	231	11	13	47	20	57	140	184
.....acres..	7	91	2	2	48	45	15	64	120
30-49 acres.....farms reporting..	.....	26	.....	.....	45	130	2	25	16
50-99 acres.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
100-199 acres.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
200 acres and over.....farms reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>Irrigated farms by tenure of operator, 1950:</i>									
Full owners.....number..	44	709	223	20	184	89	839	1,517	242
Part owners.....number..	9	92	36	15	79	97	64	235	118
Managers.....number..	1	3	6	.....	3	5	4	25	2
Tenants.....number..	3	61	13	7	18	23	32	86	98
<i>Land in wholly and in partly irrigated farms:</i>									
Wholly irrigated farms.....number 1950..	23	683	54	23	158	157	797	893	361
.....acres 1950..	2,263	106,468	9,597	47,670	355,154	681,542	30,146	96,708	210,417
All land.....acres 1949..	94	25,208	499	1,009	21,486	68,931	14,176	19,234	28,769
Cropland harvested.....acres 1949..	145	39,402	800	1,069	26,789	103,083	17,307	27,654	31,945
Irrigated land.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Partly irrigated farms.....number 1950..	34	182	224	19	126	57	142	970	99
.....acres 1950..	13,629	128,198	61,210	72,673	402,470	270,059	6,938	175,404	118,894
All land.....acres 1949..	31	63	198	18	117	53	73	600	81
Cropland harvested, total.....farms reporting 1949..	706	6,238	7,811	3,156	17,825	28,568	1,939	30,478	16,678
.....acres 1949..	778	8,677	2,998	702	10,880	23,642	1,810	21,692	7,690
Irrigated land.....farms reporting 1949..	19	54	124	17	105	50	53	456	74
.....acres 1949..	74	3,615	1,473	632	8,618	15,158	923	12,945	5,878
<i>Characteristics of wholly irrigated and nonirrigated farms:</i>									
Wholly irrigated farms.....number 1950..	23	683	54	23	158	157	797	893	361
Average acreage per farm.....acres 1949..	98.4	155.9	177.7	2,072.6	2,247.8	4,341.0	37.8	108.3	302.4
.....acres 1945..	4.1	36.9	9.2	43.9	439.1	439.1	17.8	21.5	79.7
Cropland harvested.....acres 1949..	0.1	0.1	0.5	1.0	0.2	(¹)	(¹)	7.2	0.1
Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	(¹)	0.1	0.8	(¹)	(¹)	(¹)	0.3	(¹)
Vegetables harvested for sale.....acres 1949..	.....	10.5	1.2	0.7	7.6	37.5	0.3	1.3	30.0
Small grains (including sorghums).....acres 1949..	1.3	19.0	6.1	41.2	126.9	400.9	3.6	11.6	20.9
All hay.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>Farms by tenure of operator:</i>									
Full owners and managers.....number 1950..	18	557	49	13	116	66	713	766	191
.....number 1950..	2	75	2	6	33	71	56	90	89
Part owners.....number 1950..	3	51	3	4	9	20	28	37	81
Tenants.....number 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Value of land and buildings per farm.....dollars 1950..	14,250	15,595	13,100	22,659	35,565	67,653	17,376	22,726	22,356
<i>Nonirrigated farms:</i>									
.....number 1950..	421	72	2,373	194	142	119	91	915	107
Average acreage per farm.....acres 1949..	262.3	881.1	217.9	3,230.0	2,230.4	2,746.5	61.6	124.6	1,083.3
.....acres 1945..	5.5	35.4	16.3	644.1	71.1	144.4	4.8	13.7	101.2
Cropland harvested.....acres 1949..	0.2	0.1	2.1	0.1	0.1	(¹)	(¹)	0.4	0.2
Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..	(¹)	(¹)	0.1	.....	.....	(¹)	(¹)	.....	.....
Vegetables harvested for sale.....acres 1949..	(¹)	7.4	7.0	608.0	5.8	35.9	0.2	4.5	89.3
Small grains (including sorghums).....acres 1949..	4.6	25.6	6.8	24.7	65.6	107.1	3.2	8.0	11.2
All hay.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>Farms by tenure of operator:</i>									
Full owners and managers.....number 1950..	345	62	2,063	76	87	62	80	792	56
.....number 1950..	40	5	168	66	42	39	4	64	27
Part owners.....number 1950..	36	5	142	52	13	18	7	59	24
Tenants.....number 1950..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Value of land and buildings per farm.....dollars 1950..	18,733	11,294	14,130	72,437	24,089	29,900	8,907	10,671	26,464
<i>Irrigated farms and irrigated land by origin of water, 1949:</i>									
Individually operated supply works and—									
No other irrigation enterprise.....farms reporting..	56	21	258	42	164	145	144	259	37
.....acres irrigated..	922	1,394	3,370	1,771	26,299	89,131	2,725	7,920	4,411
.....farms reporting..	.....	10	1	.....	23	14	79	53	1
.....acres irrigated..	.....	1,363	66	.....	3,099	17,244	3,640	2,630	520
1 other irrigation enterprise.....farms reporting..	.....	.....	.....	.....	5	1	3	8	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	167	861	.....
2 or more other irrigation enterprises.....farms reporting..	.....	.....	.....	.....	1,369	1,570	.....	.....	.....
.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
No individually operated supply works but—									
1 other irrigation enterprise.....farms reporting..	1	807	19	.....	73	48	702	1,455	421
.....acres irrigated..	1	40,179	362	.....	3,867	16,879	12,101	29,289	34,566
.....farms reporting..	.....	27	.....	.....	19	6	11	88	1
.....acres irrigated..	.....	5,143	.....	.....	3,035	1,901	484	8,646	138

See footnotes 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)	Year	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah
1	Irrigated farms.....number	1,159	993	286	774	42	404	2,318	836	212	75
2	1945.....	1,548	1,031	293	617	16	182	2,425	300	218	16
3	Proportion of all farms.....percent	69.2	76.7	70.1	17.4	4.9	12.0	95.4	16.7	46.4	3.5
4	Land in irrigated farms.....acres	63,699	1,199,509	1,082,841	91,343	7,932	62,205	1,089,119	92,292	489,328	6,352
5	1950.....	55.0	1,208.0	3,781.2	118.0	188.8	154.0	469.8	110.4	2,308.2	84.7
6	Value of land and buildings.....average per farm, dollars	15,400	42,167	49,241	22,410	15,833	28,625	21,521	27,346	37,041	51,439
7	1950.....	313.18	54.68	14.79	212.24	66.48	189.12	46.07	254.15	19.96	583.03
8	Proportion of irrigated farms reporting value.....percent	91	97	109	75	71	86	84	92	74	88
9	Proportion of land in irrigated farms for which value was reported.....percent	81	82	96	67	90	85	84	89	59	92
Land in irrigated farms according to use, 1949:											
10	Cropland harvested.....farms reporting..	860	918	282	733	31	386	2,171	818	199	71
11	.....acres..	14,901	155,996	127,232	29,000	855	30,560	161,706	47,399	30,246	3,087
12	Cropland used only for pasture.....acres..	10,623	110,397	92,379	7,294	913	5,265	73,209	8,059	12,563	674
13	Cropland not harvested and not pastured.....acres..	3,833	33,965	47,237	3,377	161	3,932	16,493	4,748	34,298	329
14	Woodland pastured.....acres..	9,312	562,716	186,462	18,451	2,934	9,666	22,015	13,901	63,175	311
15	Other pasture (not cropland and not woodland).....acres..	2,377	289,185	596,890	12,553	539	3,803	753,040	5,591	344,657	467
16	Land pastured, total.....farms reporting..	952	732	257	540	37	334	1,925	579	194	37
17	.....acres..	22,312	962,298	875,731	38,298	4,386	18,734	84,264	27,551	420,395	1,452
18	Irrigated land in farms.....acres 1949..	19,718	197,227	154,361	13,441	575	10,699	196,246	21,208	9,993	1,429
19	1944.....	21,049	203,660	104,562	8,934	241	4,201	190,880	7,170	9,781	375
20	Land irrigated by sprinklers.....farms reporting 1949..	41	77	6	598	28	309	23	664	8	60
21	.....acres 1949..	417	3,133	205	10,184	404	8,314	1,073	16,955	79	1,089
Irrigated land in farms according to use, 1949:											
22	Irrigated cropland harvested.....farms reporting..	805	902	270	595	14	279	2,164	711	190	61
23	.....acres..	11,438	121,581	97,475	9,710	128	8,230	155,052	17,077	5,911	1,031
24	Irrigated pasture.....farms reporting..	849	586	145	351	29	199	1,648	274	136	20
25	.....acres..	7,237	56,770	55,407	3,498	424	2,309	36,876	3,414	3,547	367
26	Irrigated wild grass pasture.....farms reporting..	113	155	105	55	8	36	172	54	51	5
27	.....acres..	1,061	32,589	53,242	517	125	301	9,453	515	1,057	29
28	Irrigated tame grass pasture.....farms reporting..	749	458	53	310	22	170	1,540	238	105	16
29	.....acres..	6,176	24,181	2,165	2,981	299	2,008	27,423	2,899	2,490	338
30	Irrigated cropland not harvested and not pastured.....farms reporting..	96	111	21	57	4	23	378	53	47	13
31	.....acres..	1,043	18,876	1,479	233	23	160	4,318	387	535	31
Irrigated farms by acres irrigated in 1949:											
32	1-9 acres.....farms reporting..	704	143	23	397	18	127	191	308	27	40
33	10-19 acres.....farms reporting..	218	59	12	157	14	107	162	206	29	9
34	20-29 acres.....farms reporting..	81	48	10	87	5	64	163	96	28	11
35	30-49 acres.....farms reporting..	77	125	37	83	3	55	458	103	71	6
36	50-99 acres.....farms reporting..	55	214	65	38	2	32	850	86	37	6
37	100-199 acres.....farms reporting..	18	202	45	8	.....	16	347	32	12	3
38	200 acres and over.....farms reporting..	6	202	94	4	.....	3	147	5	8	.....
Irrigated farms by tenure of operator, 1950:											
39	Full owners.....number..	978	656	171	548	30	249	1,589	519	151	43
40	Part owners.....number..	107	229	86	169	6	121	293	209	41	20
41	Managers.....number..	1	8	6	2	.....	3	15	13	1	3
42	Tenants.....number..	73	100	23	55	6	31	421	95	19	9
Land in wholly and in partly irrigated farms:											
43	Wholly irrigated farms.....number 1950..	677	631	81	246	6	89	2,061	282	137	27
44	All land.....acres 1950..	32,379	370,661	600,045	12,172	550	6,770	835,038	15,257	105,223	624
45	Cropland harvested.....acres 1949..	9,483	84,204	61,632	4,063	80	2,866	142,667	7,134	3,109	337
46	Irrigated land.....acres 1949..	13,929	132,699	96,568	4,735	80	3,267	178,190	7,707	6,042	417
47	Partly irrigated farms.....number 1950..	482	362	205	528	36	315	257	554	75	48
48	All land.....acres 1950..	31,520	828,848	482,796	79,171	7,382	55,435	254,081	77,035	384,105	5,728
49	Cropland harvested, total.....farms reporting 1949..	183	287	201	487	25	297	110	936	63	44
50	.....acres 1949..	5,018	71,792	65,600	24,937	775	27,694	19,039	40,265	27,137	2,750
51	Irrigated land.....acres 1949..	5,789	64,528	57,793	8,706	495	7,432	18,056	13,501	3,951	1,012
52	Irrigated cropland harvested.....farms reporting 1949..	128	271	189	349	8	190	103	429	53	34
53	.....acres 1949..	1,955	37,377	35,843	5,647	48	5,364	12,385	10,273	2,802	694
Characteristics of wholly irrigated and nonirrigated farms:											
54	Wholly irrigated farms.....number 1950..	677	631	81	246	6	89	2,061	282	137	27
Average acreage per farm:											
55	All land.....acres 1949..	47.5	587.4	7,408.0	49.5	91.7	76.1	405.2	54.1	768.1	23.1
56	Cropland harvested.....acres 1949..	14.0	133.4	760.9	16.5	13.3	32.2	69.2	25.3	22.7	12.5
Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..											
57	.....acres 1949..	0.2	0.1	0.1	2.5	.....	1.3	0.3	0.7	0.3	0.1
58	Vegetables harvested for sale.....acres 1949..	0.1	(1)	(1)	5.9	0.7	7.7	1.8	8.5	0.4	9.5
59	Small grains (including sorghums).....acres 1949..	1.8	82.7	44.3	0.9	.....	0.5	17.6	0.7	1.2	.....
60	All hay.....acres 1949..	8.0	29.3	716.2	2.2	9.7	2.2	34.9	1.8	17.0	0.6
Farms by tenure of operator:											
61	Full owners and managers.....number 1950..	567	430	54	182	4	68	1,407	188	111	21
62	Part owners.....number 1950..	68	133	21	39	1	12	264	52	18	2
63	Tenants.....number 1950..	42	68	6	25	1	9	390	42	8	4
64	Value of land and buildings per farm.....dollars 1950..	16,540	42,556	75,164	13,312	20,000	18,265	22,099	19,249	13,546	16,900
65	Nonirrigated farms.....number 1950..	516	302	122	3,687	814	2,965	112	4,177	245	2,046
Average acreage per farm:											
66	All land.....acres 1949..	76.5	469.5	891.0	104.3	134.7	138.8	1,183.0	71.2	2,098.3	32.4
67	Cropland harvested.....acres 1949..	4.5	63.2	96.1	19.8	8.0	55.1	42.8	31.7	475.0	10.8
Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..											
68	.....acres 1949..	(1)	(1)	(1)	1.9	0.3	0.8	(1)	3.1	(1)	0.7
69	Vegetables harvested for sale.....acres 1949..	(1)	(1)	.....	0.1	(1)	0.1	(1)	0.3	(1)	2.5
70	Small grains (including sorghums).....acres 1949..	1.3	32.0	65.2	7.9	0.3	22.0	15.3	14.2	460.0	2.3
71	All hay.....acres 1949..	2.3	32.1	31.9	6.1	6.9	6.3	27.3	4.9	14.5	2.8
Farms by tenure of operator:											
72	Full owners and managers.....number 1950..	463	230	85	3,127	678	2,226	80	3,301	123	1,669
73	Part owners.....number 1950..	14	44	28	313	68	471	22	568	76	227
74	Tenants.....number 1950..	39	28	9	247	68	268	10	308	46	150
75	Value of land and buildings per farm.....dollars 1950..	8,012	13,694	12,093	13,783	9,097	17,251	8,235	16,072	65,009	16,338
Irrigated farms and irrigated land by origin of water, 1949:											
Individually operated supply works and—											
76	No other irrigation enterprise.....farms reporting..	182	126	95	711	42	391	260	722	70	67
77	.....acres irrigated..	5,794	30,294	79,677	11,709	575	10,395	48,182	18,569	3,950	1,366
78	1 other irrigation enterprise.....farms reporting..	22	105	31	9	.....	.....	98	22	1	2
79	.....acres irrigated..	1,868	36,620	44,303	366	.....	.....	15,569	1,119	20	55
80	2 or more other irrigation enterprises.....farms reporting..	.....	13	2	.....	.....	.....	6	.....	.....	.....
81	.....acres irrigated..	.....	40,558	2,405	.....	.....	.....	1,866	.....	.....	.....
No individually operated supply works but—											
82	1 other irrigation enterprise.....farms reporting..	944	701	152	53	.....	13	1,861	92	139	6
83	.....acres irrigated..	11,597	70,655	25,687	1,186	.....	304	121,052	1,520	5,488	8
84	2 or more other irrigation enterprises.....farms reporting..	11	48	6	.....	.....	.....	93	.....	2	.....
85	.....acres irrigated..	459	19,100	2,289	180	.....	.....	9,577	.....	535	.....

See footnotes 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]

Table with columns for County (Polk, Sherman, Tillamook, Umatilla, Union, Wallowa, Wasco, Washington, Wheeler, Yamhill) and rows for various farm characteristics (Irrigated farms, land use, acreage, value, etc.).

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	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	8,235	512	184	363	11	116	226	112
2	.....enterprises 1940..	5,884	585	86	154	(*)	12	105	137
3	Intercounty enterprises.....enterprises 1950..	44	2						4
4	Irrigated farms ¹.....farms 1950..	17,663	900	181	383	14	116	220	365
5	Average per enterprise.....farms 1950..	2.1	1.8	1.0	1.1	1.3	1.0	1.0	3.3
6	Farms irrigated direct per enterprise ².....farms 1950..	2.5	2.7	1.0	1.1	1.2	1.0	1.0	3.5
7	Irrigated land ¹.....acres 1949..	1,337,517	135,524	4,449	4,681	174	4,131	4,333	51,060
8	.....acres 1939..	1,049,176	121,591	1,251	2,278	(*)	648	1,373	42,015
9	Average per irrigated farm.....acres 1949..	75.7	150.6	24.6	12.2	12.4	35.6	19.7	139.9
10	Average per enterprise.....acres 1949..	162	265	24	13	16	36	19	456
11	Average acreage irrigated direct per enterprise ².....acres 1949..	164	270	24	13	16	36	19	456
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	7,480	344	184	360	11	116	226	99
13	.....acres irrigated..	612,526	43,191	4,449	4,476	174	4,131	4,333	24,615
Mutual:									
14	Unincorporated.....enterprises..	580	150		1				7
15	.....acres irrigated..	218,868	73,847		(³)				901
16	Incorporated.....enterprises..	117	15		2				3
17	.....acres irrigated..	117,748	16,930		(³)				2,773
18	Commercial.....enterprises..								
19	.....acres irrigated..								
20	District.....enterprises..	47	3						3
21	.....acres irrigated..	252,069	4,212						22,780
22	U. S. Bureau of Reclamation ⁴.....enterprises..	5							
23	.....acres irrigated..	147,715							
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	3							
25	.....acres irrigated..	2,163							
26	State.....enterprises..								
27	.....acres irrigated..								
28	City.....enterprises..	3							
29	.....acres irrigated..	489							
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	2,888	462	19	21	2	3	8	90
31	.....acres irrigated..	863,684	126,066	478	309	62	114	37	28,749
32	Pumped only.....enterprises reporting..	3,152	7	78	217	8	100	186	8
33	.....acres irrigated..	134,797	1,689	1,537	3,258	92	3,828	4,077	1,265
34	Gravity and pumped.....enterprises reporting..	203	11				1	11	5
35	.....acres irrigated..	247,805	4,283	15			85	79	19,932
36	Ground water only (pumped from wells).....enterprises reporting..	1,617	20	72	112		12	16	5
37	.....acres irrigated..	34,008	555	1,461	924		104	26	94
38	Surface (gravity or pumped) and ground water...enterprises reporting..	375	12	14	13	1		5	4
39	.....acres irrigated..	71,284	5,587	958	190	20		114	1,029
Stored water:									
40	None stored.....enterprises reporting..	7,758	464	184	342	11	116	201	99
41	.....acres irrigated..	889,487	113,526	4,449	4,352	174	4,131	4,049	22,411
42	Part stored.....enterprises reporting..	237	31		3			7	11
43	.....acres irrigated..	356,530	19,497		75			85	27,978
44	All stored.....enterprises reporting..	240	17		18			18	2
45	.....acres irrigated..	105,561	5,157		254			199	680
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	5,948	475	107	200	11	50	172	106
47	.....acres irrigated..	1,296,731	136,747	2,957	3,341	174	1,166	4,158	50,966
48	Springs.....enterprises reporting..	569	34	6	47		2	27	4
49	.....acres irrigated..	77,696	5,075	13	391		15	84	1,059
50	Flowing wells.....enterprises reporting..	77	5	3	4		1		2
51	.....acres irrigated..	54,788	3,342	12	54		3		86
52	Drainage water.....enterprises reporting..	333	12	1	17		53	21	
53	.....acres irrigated..	110,851	3,113	23	145		2,931	111	
54	Sewage.....enterprises reporting..	11			1				
55	.....acres irrigated..	2,074			15				
56	Other sources.....enterprises reporting..	2							
57	.....acres irrigated..	46							
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	1,032	30	11	91	5	64	69	1
59	Area supplied primary irrigation.....acres 1949..	447,570	14,188	251	1,648	91	3,100	1,109	9
60	Area artificially drained.....acres 1949..	240,365	1,967	108	1,288	82	2,945	698	9
61	.....acres 1939..	126,671	51	27	156	(*)		112	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	1,051	73	18	65	1	22	18	8
63	Area supplied primary irrigation.....acres 1949..	449,430	28,300	347	968	20	876	480	9,282
64	Area in need of drainage.....acres 1949..	81,485	6,714	121	619	10	553	89	664
65	.....acres 1939..	18,786	25	12	56	(*)	(*)	1	(*)

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)		Curry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson
ALL ENTERPRISES										
Farms and land irrigated:										
1	All irrigation enterprises.....enterprises 1950..	54	47	274	47	245	193	247	409	49
2	.....enterprises 1940..	(*)	23	160	61	413	255	84	324	42
3	Intercounty enterprises.....enterprises 1950..	.....	5	.....	.....	.....	5	1	7	4
4	Irrigated farms ¹.....farms 1950..	57	865	278	42	284	214	939	1,863	460
5	Average per enterprise.....farms 1950..	1.1	18.4	1.0	0.9	1.2	1.1	3.8	4.6	9.4
6	Farms irrigated direct per enterprise ².....farms 1950..	1.0	20.3	1.1	1.0	1.6	1.5	4.5	5.4	9.7
7	Irrigated land ¹.....acres 1949..	922	49,279	4,054	1,787	38,346	141,091	19,799	51,107	41,830
8	.....acres 1939..	(*)	51,122	2,947	1,891	42,016	100,065	25,074	45,284	3,462
9	Average per irrigated farm.....acres 1949..	16.2	57.0	14.6	42.1	135.0	659.3	21.1	27.4	90.9
10	Average per enterprise.....acres 1949..	17	1,048	15	38	157	731	80	125	854
11	Average acreage irrigated direct per enterprise ².....acres 1949..	17	1,053	15	38	157	737	81	126	854
Type of enterprise, 1950:										
12	Single-farm.....enterprises..	54	32	268	44	197	168	233	335	45
13	.....acres irrigated..	922	2,523	3,425	1,716	29,749	114,713	4,524	12,563	5,081
Mutual:										
14	Unincorporated.....enterprises..	.....	8	4	2	45	24	5	58	1
15	.....acres irrigated..	.....	2,051	322	(³)	7,234	25,497	307	9,460	(³)
16	Incorporated.....enterprises..	.....	3	2	1	3	1	3	7	.....
17	.....acres irrigated..	.....	9,724	(³)	(³)	1,510	(³)	2,400	1,788	.....
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
19	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	.....	3	.....	.....	.....	.....	6	7	1
21	.....acres irrigated..	.....	35,203	.....	.....	.....	.....	12,668	27,699	(³)
22	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	1	.....	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	35,724
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	(³)	2
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
30	Gravity only.....enterprises reporting..	10	25	65	24	224	183	80	226	41
31	.....acres irrigated..	95	21,650	1,377	849	37,520	136,565	16,056	47,853	39,701
32	Pumped only.....enterprises reporting..	31	11	190	19	11	1	160	110	3
33	.....acres irrigated..	740	239	2,438	700	994	3	3,614	2,764	65
34	Gravity and pumped.....enterprises reporting..	3	9	2	3	10	4	5	15	4
35	.....acres irrigated..	15	26,892	57	160	379	4,270	201	701	1,704
36	Ground water only (pumped from wells).....enterprises reporting..	7	.....	8	.....	.....	2	2	45	.....
37	.....acres irrigated..	42	.....	53	.....	.....	136	28	229	.....
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	3	2	9	1	.....	.....	.....	13	1
39	.....acres irrigated..	30	720	129	58	.....	1,261	.....	150	360
Stored water:										
40	None stored.....enterprises reporting..	47	35	269	45	242	176	215	368	46
41	.....acres irrigated..	849	13,392	3,725	1,649	38,405	133,106	18,075	29,367	5,545
42	Part stored.....enterprises reporting..	5	6	1	2	3	14	2	17	2
43	.....acres irrigated..	60	33,454	2	118	88	7,354	1,824	21,563	35,724
44	All stored.....enterprises reporting..	2	6	4	.....	.....	3	.....	24	1
45	.....acres irrigated..	13	2,655	327	.....	.....	1,775	.....	767	561
Sources of surface water, 1949:⁵										
46	Streams (and lakes).....enterprises reporting..	45	43	258	46	240	185	208	326	47
47	.....acres irrigated..	819	49,353	3,934	1,762	38,385	141,354	19,451	50,959	41,790
48	Springs.....enterprises reporting..	4	5	13	3	8	15	33	25	4
49	.....acres irrigated..	86	549	133	20	232	25,102	440	428	103
50	Flowing wells.....enterprises reporting..	1	.....	1	.....	5	8	.....	.....	.....
51	.....acres irrigated..	4	.....	5	.....	140	3,956	.....	.....	.....
52	Drainage water.....enterprises reporting..	.....	3	.....	.....	4	.....	13	24	.....
53	.....acres irrigated..	.....	547	.....	.....	555	.....	210	286	.....
54	Sewage.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....	.....	.....
55	.....acres irrigated..	.....	.....	.....	.....	39	.....	.....	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶										
Irrigated land drained:										
58	Enterprises reporting.....enterprises 1949..	6	.....	9	.....	9	10	28	23	2
59	Area supplied primary irrigation.....acres 1949..	111	.....	432	.....	3,715	6,315	7,827	19,538	25,102
60	Area artificially drained.....acres 1949..	26	.....	166	.....	731	1,134	595	2,699	1,060
61	.....acres 1939..	(*)	.....	7	.....	172	.....	58	404	.....
Irrigated land in need of drainage:										
62	Enterprises reporting.....enterprises 1949..	1	3	11	1	43	30	39	39	.....
63	Area supplied primary irrigation.....acres 1949..	60	546	563	45	10,015	22,173	7,931	18,769	.....
64	Area in need of drainage.....acres 1949..	5	115	99	6	1,255	7,983	587	3,986	.....
65	.....acres 1939..	(*)	.....	70	.....	.....	(*)	13	182	.....

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]

Table with columns for counties (Josephine, Klamath, Lake, Lane, Lincoln, Linn, Malheur, Marion, Morrow, Multnomah) and rows for various irrigation categories (ALL ENTERPRISES, Farms and land irrigated, Type of enterprise, 1950, Use of surface water, 1949, Sources of surface water, 1949, Drainage of irrigated land). Each cell contains numerical data for enterprises and acres irrigated.

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)		Polk	Sherman	Tillamook	Umatilla	Union	Wallowa	Wasco	Washington	Wheeler	Yamhill
ALL ENTERPRISES											
Farms and land irrigated:											
1	All irrigation enterprises.....enterprises 1950..	134	16	151	460	213	221	191	250	103	223
2	.....acres irrigated..	69	16	78	482	278	309	167	113	136	104
3	Intercounty enterprises.....enterprises 1950..				3			3	1	1	2
4	Irrigated farms ¹.....farms 1950..	134	16	151	1,299	345	494	351	262	100	231
5	Average per enterprise.....farms 1950..	1.0	1.0	1.0	2.8	1.6	2.2	1.8	1.0	1.0	1.0
6	Farms irrigated direct per enterprise.....farms 1950..	1.0	1.0	1.0	3.5	2.4	3.0	2.0	1.1	1.0	1.1
7	Irrigated land ¹.....acres 1949..	4,336	322	4,046	48,740	27,893	46,032	11,636	6,967	8,379	8,054
8	.....acres 1939..	3,018	202	1,763	46,907	29,691	49,123	8,945	3,114	7,517	3,255
9	Average per irrigated farm.....acres 1949..	32.4	20.1	26.8	37.5	80.8	93.2	33.2	26.6	83.8	34.9
10	Average per enterprise.....acres 1949..	32	20	27	106	131	208	61	28	81	36
11	Average acreage irrigated direct per enterprise ².....acres 1949..	32	20	27	109	132	211	61	28	82	36
Type of enterprise, 1950:											
12	Single-farm.....enterprises..	134	16	151	389	147	153	169	249	100	221
13	.....acres irrigated..	4,336	322	4,046	14,959	6,038	7,288	5,797	6,517	8,097	7,738
Mutual:											
14	Unincorporated.....enterprises..				53	54	45	11	1	3	1
15	.....acres irrigated..				5,555	13,821	11,167	1,622	(³)	300	(³)
16	Incorporated.....enterprises..				12	12	22	7			1
17	.....acres irrigated..				9,173	8,230	23,294	2,150			(³)
Commercial.....enterprises.....acres irrigated.....											
District.....enterprises.....acres irrigated.....											
20	U. S. Bureau of Reclamation ⁴.....enterprises.....acres irrigated.....				1						
22	U. S. Bureau of Indian Affairs ⁴.....enterprises.....acres irrigated.....				709						
24	State.....enterprises.....acres irrigated.....							(³)			
26	City.....enterprises.....acres irrigated.....							(³)			
Use of surface, ground, pumped and stored water, 1949:											
Surface water:											
30	Gravity only.....enterprises reporting..	13	3	21	144	178	208	65	7	78	6
31	.....acres irrigated..	218	59	417	35,224	27,265	45,742	5,817	95	6,905	37
32	Pumped only.....enterprises reporting..	71	5	122	45	8	8	56	217	15	164
33	.....acres irrigated..	1,507	117	3,348	2,865	198	480	1,965	6,690	571	4,177
34	Gravity and pumped.....enterprises reporting..	2		2	15	5	5	21	2	7	1
35	.....acres irrigated..	26		40	5,888	515	299	1,233	20	691	14
36	Ground water only (pumped from wells).....enterprises reporting..	40	5	4	222	22		37	21		33
37	.....acres irrigated..	1,701	76	132	4,056	111		1,909	135		1,141
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	8	3	2	34			12	3	3	19
39	.....acres irrigated..	884	70	109	2,215			717	27	230	2,685
Stored water:											
40	None stored.....enterprises reporting..	127	14	145	439	209	206	182	243	101	203
41	.....acres irrigated..	4,233	274	3,867	29,064	27,763	28,936	9,784	6,395	8,036	7,104
42	Part stored.....enterprises reporting..	4	1	3	14	2	11	9		2	4
43	.....acres irrigated..	84	45	75	21,076	222	17,380	1,857		361	371
44	All stored.....enterprises reporting..	3	1	3	7	2	4			7	16
45	.....acres irrigated..	19	3	104	108	104	205		572		579
Sources of surface water, 1949: ⁵											
46	Streams (and lakes).....enterprises reporting..	85	6	144	192	168	200	138	218	102	180
47	.....acres irrigated..	2,551	172	3,816	43,486	27,390	45,783	9,391	6,723	8,357	6,790
48	Springs.....enterprises reporting..	7	5	3	40	37	24	17	8	2	10
49	.....acres irrigated..	35	74	53	3,037	1,646	1,018	340	66	65	146
50	Flowing wells.....enterprises reporting..	1		1	4	2	1	4			
51	.....acres irrigated..	8		30	553	227	190	220			
52	Drainage water.....enterprises reporting..	1		3	9	2	7	2	6		1
53	.....acres irrigated..	3		112	5,629	1,797	703	8	341		1
54	Sewage.....enterprises reporting..				3	1			1		
55	.....acres irrigated..				482	1,050			35		
56	Other sources.....enterprises reporting..	2									
57	.....acres irrigated..	46									
Drainage of irrigated land: ⁶											
Irrigated land drained:											
58	Enterprises reporting.....enterprises 1949..	20		22	17	9	13	3	98	2	49
59	Area supplied primary irrigation.....acres 1949..	970		690	15,302	4,946	6,467	53	3,558	170	3,754
60	Area artificially drained.....acres 1949..	450		284	8,837	973	994	10	2,560	40	1,241
61	.....acres 1939..	109	(*)	27	3,219	47	10	11	1,277		125
Irrigated land in need of drainage:											
62	Enterprises reporting.....enterprises 1949..	21		20	18	8	40	13	64	8	63
63	Area supplied primary irrigation.....acres 1949..	861		720	13,133	2,292	23,486	1,164	2,386	1,561	3,854
64	Area in need of drainage.....acres 1949..	274		205	1,256	592	2,233	169	774	104	837
65	.....acres 1939..	20	(*)	19	855	80	153	2	731		8

* Not available.

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

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

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 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

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

Item (For definitions and explanations, see text)	The State	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	3,243	450	26	74	1	7	22	92
2 Diversion dams.....dams 1950..	6,231	897	29	86	1	13	25	259
3 Diversion dams.....dams 1940..	5,097	957	23	26	(*)	2	19	274
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	866	146	7	7	.....	.....	1	30
5 Timber.....dams 1950..	1,061	189	6	16	.....	6	6	14
6 Earth and rock.....dams 1950..	3,764	507	15	51	1	6	12	189
7 Other, mixed, and not reported.....dams 1950..	540	55	1	12	.....	1	6	26
8 Reservoirs.....enterprises reporting 1950..	411	41	.....	20	1	2	23	11
9 Reservoirs.....reservoirs 1950..	528	54	.....	28	1	2	26	17
10 Reservoirs.....reservoirs 1940..	257	39	.....	10	(*)	1	7	9
11 Reservoirs for which capacity was reported.....reservoirs 1950..	471	51	.....	26	1	1	26	14
12 Reservoirs.....total capacity, acre-feet 1950..	2,421,138	54,260	.....	82	1	601	97	48,401
13 Reservoirs.....total capacity, acre-feet 1940..	2,212,315	42,264	.....	46	(*)	(*)	74	48,067
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	340	30	.....	26	1	.....	26	6
15 100-999 acre-feet.....reservoirs 1950..	79	17	.....	.....	.....	1	.....	6
16 1,000 acre-feet and over.....reservoirs 1950..	52	4	.....	.....	.....	.....	.....	2
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..	51	2	.....	5	.....	.....	.....	.....
18 Earth and rock.....dams 1950..	402	44	.....	23	1	2	21	13
19 Other, mixed, and not reported.....dams 1950..	75	8	.....	.....	.....	.....	5	4
20 Canals and ditches.....enterprises reporting 1950..	1,880	296	1	10	3	3	12	72
21 Canals and ditches.....total length, miles 1950..	8,406	949	(1)	19	2	2	9	347
22 Canals and ditches.....total length, miles 1940..	8,518	815	.....	15	(*)	1	8	352
23 Pipelines and siphons ².....enterprises reporting 1950..	602	11	8	25	1	17	29	5
24 Pipelines and siphons ².....total length, miles 1950..	572	2	2	10	(1)	4	12	1
25 Pipelines and siphons ².....total length, miles 1940..	665	10	15	30	(*)	2	24	2
26 Tunnels.....enterprises reporting 1950..	23	4	.....	.....	.....	.....	.....	1
27 Tunnels.....total length, feet 1950..	77,496	1,510	.....	.....	.....	.....	.....	1,100
28 Flowing wells.....enterprises reporting 1950..	75	5	3	4	.....	1	.....	2
29 Flowing wells.....wells 1950..	138	6	3	5	.....	1	.....	2
30 Flowing wells.....wells 1940..	76	3	.....	1	(*)	.....	2	.....
31 Pumped wells.....enterprises reporting 1950..	1,990	31	85	124	.....	12	20	9
32 Pumped wells.....wells 1950..	2,770	41	156	131	.....	12	28	13
33 Pumped wells.....wells 1940..	901	25	21	46	(*)	.....	7	2
34 Wells for which pumping lift was reported.....wells 1949..	2,508	39	143	120	.....	6	26	11
35 Average pumping lift.....feet 1949..	35	71	20	.67	.....	103	30	49
36 Average pumping lift.....feet 1939..	35	25	19	59	(*)	.....	36	(*)
37 Irrigation pumps.....enterprises reporting 1950..	5,327	50	163	340	9	112	217	20
38 Irrigation pumps.....pumps 1950..	6,893	70	234	381	13	138	277	24
39 Irrigation pumps.....pumps 1940..	2,275	40	53	136	(*)	11	83	10
40 Electric motors used for pumping.....enterprises reporting 1950..	3,435	41	87	233	4	49	131	7
41 Electric motors used for pumping.....electric motors 1950..	4,348	59	102	254	4	56	159	8
42 Other motors and engines used for pumping.....enterprises reporting 1950..	2,189	9	92	123	6	69	85	13
43 Other motors and engines used for pumping.....other motors and engines 1950..	2,476	9	110	130	9	83	104	19
Season of irrigation, 1948:								
44 Water delivered only before July 1.....enterprises reporting..	458	93	.....	6	1	1	.....	17
45 Water delivered only before July 1.....acres irrigated..	143,785	25,978	.....	37	3	46	.....	5,081
46 Water delivered before and after July 1.....enterprises reporting..	6,746	408	151	298	6	83	.....	91
47 Water delivered before and after July 1.....acres irrigated..	1,139,748	110,633	3,795	3,874	75	3,399	3,762	45,905
48 Water delivered only after July 1.....enterprises reporting..	833	8	27	53	4	31	43	1
49 Water delivered only after July 1.....acres irrigated..	21,344	1,498	559	762	96	564	521	13
Capital investment:								
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	50,961,251	1,909,344	52,091	119,540	(*)	10,925	65,213	846,604
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
51 Enterprises reporting.....enterprises 1950..	5,095	101	139	267	8	85	169	58
52 Amount.....dollars 1950..	23,399,730	207,533	192,763	541,906	21,000	164,967	188,114	737,343
53 Area irrigated direct.....acres 1949..	847,215	46,481	3,514	3,649	108	3,166	3,275	23,897
54 Total capital investment Jan. 1, 1950.....dollars 1950..	74,360,981	2,117,077	244,854	661,446	(*)	175,892	253,327	1,583,947
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55 Enterprises reporting.....enterprises 1950..	75	8	.....	.....	.....	.....	.....	4
56 Amount.....dollars 1950..	38,262,112	603,240	.....	.....	(*)	.....	.....	453,078
57 Amount.....dollars 1940..	14,329,768	640,955	.....	.....	.....	.....	.....	329,416
58 Area irrigated direct.....acres 1949..	443,369	8,616	.....	.....	.....	.....	.....	24,580
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
59 Enterprises reporting.....enterprises 1950..	6	.....	.....	.....	.....	.....	.....	.....
60 Amount.....dollars 1950..	534,412	.....	.....	.....	.....	.....	.....	.....
61 Area irrigated direct.....acres 1949..	25,957	.....	.....	.....	.....	.....	.....	.....

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)		Curry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson
ALL ENTERPRISES										
Irrigation works:										
1	Diversion dams.....enterprises reporting 1950..	15	24	90	37	221	177	85	249	40
2	.....dams 1950..	16	28	97	44	810	616	107	297	89
3	.....dams 1940..	(*)	39	69	42	503	491	38	183	43
Diversion dams by material:										
4	Concrete or masonry.....dams 1950..	3	7	6	25	17	72	16	64	1
5	.....dams 1950..	2	7	15	3	142	105	39	49	5
6	.....dams 1950..	6	12	53	12	585	363	46	166	78
7	.....dams 1950..	5	2	23	4	66	76	6	18	5
8	Reservoirs.....enterprises reporting 1950..	7	10	5	2	2	19	2	31	1
9	.....reservoirs 1950..	9	13	6	2	2	23	3	35	2
10	.....reservoirs 1940..	(*)	3	4	1	2	13	5	7	.....
11	Reservoirs for which capacity was reported.....reservoirs 1950..	5	12	3	2	2	22	3	33	2
12	.....total capacity, acre-feet 1950..	63	235,559	22	15	8	24,857	1,710	34,710	775
13	.....total capacity, acre-feet 1940..	(*)	2,505	16	(*)	(*)	6,157	803	33,780	.....
Reservoirs by capacity:										
14	1-99 acre-feet.....reservoirs 1950..	5	9	3	2	2	9	.....	28	.....
15	100-999 acre-feet.....reservoirs 1950..	.....	1	.....	.....	.....	8	3	1	2
16	1,000 acre-feet and over.....reservoirs 1950..	.....	2	.....	.....	.....	5	.....	4	.....
Reservoir dams by material:										
17	Concrete or masonry.....dams 1950..	1	2	1	.....	.....	4	.....	9	.....
18	.....dams 1950..	5	11	3	2	2	18	3	21	.....
19	.....dams 1950..	3	.....	2	.....	.....	1	.....	5	2
20	Canals and ditches.....enterprises reporting 1950..	5	26	44	33	203	81	33	162	34
21	.....total length, miles 1950..	2	402	48	46	467	291	189	934	398
22	.....total length, miles 1940..	(*)	846	56	25	672	447	170	644	64
23	Pipelines and siphons ².....enterprises reporting 1950..	11	5	50	1	14	2	27	31	3
24	.....total length, miles 1950..	4	2	15	1	10	2	101	19	1
25	.....total length, miles 1940..	(*)	1	29	1	8	2	24	22	1
26	Tunnels.....enterprises reporting 1950..	.....	1	.....	.....	.....	1	3	.....	1
27	.....total length, feet 1950..	.....	6,900	.....	.....	.....	680	627	.....	400
28	Flowing wells.....enterprises reporting 1950..	1	.....	1	.....	5	7	.....	.....	.....
29	.....wells 1950..	1	.....	8	.....	11	23	.....	.....	.....
30	.....wells 1940..	(*)	.....	.....	3	.....	53	.....	1	.....
31	Pumped wells.....enterprises reporting 1950..	10	1	17	2	.....	5	2	61	1
32	.....wells 1950..	11	3	19	2	.....	7	2	69	1
33	.....wells 1940..	(*)	.....	6	.....	11	4	.....	16	3
34	Wells for which pumping lift was reported.....wells 1949..	10	3	18	2	.....	6	2	60	1
35	.....wells 1949..	37	120	23	33	.....	41	47	73	200
36	.....wells 1939..	(*)	.....	20	.....	136	61	.....	21	37
37	Irrigation pumps.....enterprises reporting 1950..	44	22	206	26	21	8	166	179	6
38	.....pumps 1950..	50	29	242	36	29	12	184	214	6
39	.....pumps 1940..	(*)	1	85	15	19	5	6	68	8
40	Electric motors used for pumping.....enterprises reporting 1950..	22	9	86	6	7	5	161	110	2
41	.....electric motors 1950..	23	11	100	6	8	9	177	122	3
42	Other motors and engines used for pumping.....enterprises reporting 1950..	27	13	129	22	14	3	6	70	4
43	.....other motors and engines 1950..	27	17	141	28	18	3	6	77	4
Season of irrigation, 1949:										
44	Water delivered only before July 1.....enterprises reporting..	.....	.....	1	9	18	85	.....	7	5
45	.....acres irrigated..	.....	.....	4	250	1,924	50,661	.....	425	2,043
46	Water delivered before and after July 1.....enterprises reporting..	45	40	223	35	223	100	236	382	40
47	.....acres irrigated..	880	45,935	3,552	1,430	36,200	66,138	19,756	50,725	39,687
48	Water delivered only after July 1.....enterprises reporting..	7	2	39	1	1	.....	5	9	.....
49	.....acres irrigated..	35	52	393	12	7	.....	37	85	.....
Capital investment:										
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	(*)	2,576,293	115,126	38,071	339,071	516,925	873,419	3,428,249	69,581
New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
51	Enterprises reporting.....enterprises 1950..	42	25	192	27	73	110	175	251	12
52	Amount.....dollars 1950..	72,353	9,462,996	238,469	42,676	79,256	252,749	186,308	723,724	2,064,470
53	Area irrigated direct.....acres 1949..	851	31,075	2,823	1,199	13,383	76,778	11,131	30,238	38,928
54	Total capital investment Jan. 1, 1950.....dollars 1950..	(*)	12,039,289	353,595	80,747	418,327	769,674	1,059,727	4,162,973	2,134,051
Indebtedness: ³										
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
55	Enterprises reporting.....enterprises 1950..	.....	4	.....	.....	.....	.....	6	7	3
56	Amount.....dollars 1950..	.....	341,880	.....	.....	.....	.....	96,327	996,400	11,051,420
57	Amount.....dollars 1940..	(*)	1,523,135	.....	.....	.....	4,500	191,146	923,414	2,080
58	Area irrigated direct.....acres 1949..	.....	41,458	.....	.....	.....	.....	7,313	27,501	35,962
Arrears 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..	.....	88,000	.....	.....	.....	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	.....	6,255	.....	.....	.....	.....	.....	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

	Item (For definitions and explanations, see text)	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah
ALL ENTERPRISES											
	Irrigation works:										
1	Diversion dams.....enterprises reporting 1950..	160	80	126	95	9	33	190	87	74	10
2	dams 1950..	181	174	428	103	9	40	388	102	134	10
3	1940..	115	82	306	34	10	6	344	28	158	7
4	Diversion dams by material:										
5	Concrete or masonry.....dams 1950..	33	25	30	8	1	7	45	1	89	1
6	Timber.....dams 1950..	32	42	77	15	2	4	9	10	20	1
7	Earth and rock.....dams 1950..	101	75	287	52	5	21	306	86	21	9
8	Other, mixed, and not reported.....dams 1950..	15	32	34	28	1	8	28	5	4	.....
9	Reservoirs.....enterprises reporting 1950..	36	32	22	8	2	5	36	26	1	8
10	reservoirs 1950..	39	55	31	8	2	5	53	29	1	8
11	1940..	26	24	29	2	.....	1	28	5	.....	1
12	Reservoirs for which capacity was reported.....reservoirs 1950..	36	53	24	8	2	3	48	26	.....	5
13	total capacity, acre-feet 1950..	440	696,122	84,406	43	15	13	1,063,580	177	.....	13
14	1940..	344	721,169	105,237	(*)	.....	(*)	1,059,804	22	.....	(*)
15	Reservoirs by capacity:										
16	1-99 acre-feet.....reservoirs 1950..	35	32	12	8	2	3	22	26	.....	5
17	100-999 acre-feet.....reservoirs 1950..	1	13	6	.....	.....	.....	9	.....	.....	.....
18	1,000 acre-feet and over.....reservoirs 1950..	.....	8	6	.....	.....	.....	17	.....	.....	.....
19	Reservoir dams by material:										
20	Concrete or masonry.....dams 1950..	.....	10	.....	.....	.....	.....	4	3	.....	.....
21	Earth and rock.....dams 1950..	29	44	27	7	2	4	44	20	1	6
22	Other, mixed, and not reported.....dams 1950..	10	1	4	1	.....	1	5	6	.....	2
23	Canals and ditches.....enterprises reporting 1950..	145	90	44	15	1	7	110	10	27	1
24	total length, miles 1950..	355	884	204	73	(1)	88	1,332	80	86	2
25	1940..	335	805	254	20	10	28	1,288	86	137	1
26	Pipelines and siphons ².....enterprises reporting 1950..	24	21	3	60	11	30	17	14	4	24
27	total length, miles 1950..	16	13	1	85	4	20	63	10	14	12
28	1940..	17	10	2	120	1	20	40	34	15	32
29	Tunnels.....enterprises reporting 1950..	3	2	1	.....	.....	1	3	.....	.....	.....
30	total length, feet 1950..	442	4,126	200	.....	.....	500	59,912	.....	.....	.....
31	Flowing wells.....enterprises reporting 1950..	3	7	11	4	.....	1	4	2	1	.....
32	wells 1950..	3	14	26	8	.....	1	4	2	1	.....
33	1940..	1	.....	10	.....	.....	.....	.....	.....	.....	.....
34	Pumped wells.....enterprises reporting 1950..	47	43	18	404	5	206	77	311	5	27
35	wells 1950..	59	47	24	623	5	328	91	422	6	30
36	1940..	7	6	9	205	.....	54	22	55	.....	18
37	Wells for which pumping lift was reported.....wells 1949..	52	43	21	545	.....	312	86	390	5	27
38	Average pumping lift.....feet 1949..	28	59	45	16	.....	20	35	36	69	72
39	1939..	40	38	32	16	.....	18	21	28	.....	102
40	Irrigation pumps.....enterprises reporting 1950..	121	199	22	708	34	379	225	739	20	63
41	pumps 1950..	155	333	33	947	36	503	284	983	22	75
42	pumping plants 1940..	52	129	13	297	12	97	157	185	2	52
43	Electric motors used for pumping.....enterprises reporting 1950..	74	155	2	417	13	216	205	429	7	48
44	electric motors 1950..	94	253	2	530	13	289	256	584	8	53
45	Other motors and engines used for pumping.....enterprises reporting 1950..	60	67	20	365	22	189	26	364	13	19
46	other motors and engines 1950..	66	77	30	411	23	204	29	404	13	22
47	Season of irrigation, 1949:										
48	Water delivered only before July 1.....enterprises reporting..	.....	7	8	1	.....	1	75	7	42	.....
49	acres irrigated.....	.....	2,289	3,432	10	.....	6	29,826	144	3,030	.....
50	Water delivered before and after July 1.....enterprises reporting..	258	245	142	570	31	332	314	606	37	48
51	acres irrigated.....	19,718	189,226	128,801	10,867	400	9,876	168,117	18,881	6,872	959
52	Water delivered only after July 1.....enterprises reporting..	8	20	2	152	12	57	5	127	.....	16
53	acres irrigated.....	95	1,733	120	2,468	176	965	85	2,337	.....	281
54	Capital investment:										
55	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,604,573	5,067,488	2,621,301	369,768	6,029	112,588	21,941,236	259,217	1,164,589	60,074
56	New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
57	Enterprises reporting.....enterprises 1950..	146	157	100	557	29	343	238	664	15	43
58	Amount.....dollars 1950..	308,145	1,263,568	196,910	644,284	22,102	752,264	1,644,109	1,076,791	10,800	79,039
59	Area irrigated direct.....acres 1949..	15,153	145,800	113,113	10,929	319	9,612	146,445	17,834	6,174	632
60	Total capital investment Jan. 1, 1950.....dollars 1950..	1,912,718	6,331,056	2,818,211	1,014,052	28,131	864,852	23,485,405	1,336,008	1,175,389	139,113
61	Indebtedness: ³										
62	Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
63	Enterprises reporting.....enterprises 1950..	2	12	2	2	.....	1	8	1	1	.....
64	Amount.....dollars 1950..	305,836	1,764,661	772,725	5,405	.....	595	19,736,060	70,000	570,381	.....
65	1940..	312,792	1,904,668	371,360	85,000	.....	.....	5,809,038	50,724	552,743	.....
66	Area irrigated direct.....acres 1949..	7,143	103,814	10,723	1,167	.....	60	130,647	105	5,282	.....
67	Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
68	Enterprises reporting.....enterprises 1950..	.....	.....	1	.....	.....	.....	.....	.....	1	.....
69	Amount.....dollars 1950..	.....	.....	30,000	.....	.....	.....	.....	.....	144,733	.....
70	1949..	.....	.....	1,633	.....	.....	.....	.....	.....	5,282	.....
71	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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)		Polk	Sherman	Tilla- mook	Umatilla	Union	Wallowa	Wasco	Washing- ton	Wheeler	Yamhill
ALL ENTERPRISES											
Irrigation works:											
1	Diversion dams.....enterprises reporting 1950..	18	7	26	165	162	186	103	18	72	28
2	.....dams 1950..	22	8	27	225	252	301	137	27	220	29
3	.....dams 1940..	24	3	24	342	154	364	111	34	231	10
Diversion dams by material:											
4	Concrete or masonry.....dams 1950..	.....	5	.....	100	63	16	27	3	6	5
5	.....dams 1950..	2	.....	9	35	39	102	10	5	39	4
6	.....dams 1950..	18	3	18	69	144	151	96	10	171	19
7	.....dams 1950..	2	.....	.....	21	6	32	4	9	4	1
8	Reservoirs.....enterprises reporting 1950..	6	2	5	7	6	4	5	7	4	17
9	.....reservoirs 1950..	6	2	5	10	9	5	5	7	4	21
10	.....reservoirs 1940..	4	1	.....	4	16	5	4	5	1	.....
11	Reservoirs for which capacity was reported.....reservoirs 1950..	5	.....	4	7	9	5	4	7	4	18
12	.....total capacity, acre-feet 1950..	873	.....	104	123,883	134	46,003	1,751	90	1,780	550
13	.....1940..	58	(*)	.....	123,012	17,481	49,354	404	18	(*)	.....
Reservoirs by capacity:											
14	1-99 acre-feet.....reservoirs 1950..	1	.....	3	5	9	3	2	7	.....	18
15	100-999 acre-feet.....reservoirs 1950..	4	.....	1	.....	.....	1	1	.....	4	.....
16	1,000 acre-feet and over.....reservoirs 1950..	.....	.....	.....	2	.....	1	1	.....	.....	.....
Reservoir dams by material:											
17	Concrete or masonry.....dams 1950..	.....	.....	1	4	2	1	.....	.....	.....	2
18	Earth and rock.....dams 1950..	2	1	2	6	7	4	4	7	4	12
19	Other, mixed, and not reported.....dams 1950..	4	1	2	.....	.....	.....	1	.....	.....	7
20	Canals and ditches.....enterprises reporting 1950..	.....	2	5	121	92	121	42	6	39	3
21	.....total length, miles 1950..	.....	4	3	443	190	331	151	12	54	9
22	.....1940..	8	4	7	437	267	311	283	20	98	9
23	Pipelines and siphons ².....enterprises reporting 1950..	21	3	16	20	8	2	16	61	2	12
24	.....total length, miles 1950..	12	1	4	32	4	1	17	59	(1)	18
25	.....1940..	15	3	19	70	4	4	38	24	2	18
26	Tunnels.....enterprises reporting 1950..	.....	.....	.....	2	1	.....	.....	.....	.....	.....
27	.....total length, feet 1950..	.....	.....	.....	1,078	21	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	1	.....	1	4	2	1	4	.....	.....	.....
29	.....wells 1950..	1	.....	1	4	2	6	5	.....	.....	.....
30	.....1940..	.....	1	.....	.....	.....	.....	.....	1	.....	.....
31	Pumped wells.....enterprises reporting 1950..	48	8	6	237	22	.....	49	24	3	52
32	.....wells 1950..	95	9	6	337	25	.....	57	31	3	77
33	.....1940..	24	7	1	208	67	3	26	5	.....	32
34	Wells for which pumping lift was reported.....wells 1949..	75	9	6	321	25	.....	43	25	2	74
35	Average pumping lift.....feet 1949..	24	64	30	42	16	.....	179	53	32	30
36	.....1939..	27	37	(*)	32	16	34	146	101	.....	23
37	Irrigation pumps.....enterprises reporting 1950..	121	13	130	316	35	13	125	243	24	216
38	.....pumps 1950..	150	23	133	436	39	14	170	293	35	290
39	.....pumping plants 1940..	61	11	47	241	80	12	65	97	26	91
40	Electric motors used for pumping.....enterprises reporting 1950..	72	13	124	281	22	5	99	154	3	140
41	.....electric motors 1950..	91	23	127	395	23	5	133	186	3	179
42	Other motors and engines used for pumping.....enterprises reporting 1950..	59	.....	6	40	14	8	27	101	14	93
43	.....other motors and engines 1950..	67	.....	6	43	15	9	31	107	22	112
Season of irrigation, 1949:											
44	Water delivered only before July 1.....enterprises reporting..	2	.....	3	26	31	2	.....	.....	10	2
45	.....acres irrigated..	53	.....	40	3,805	4,761	22	.....	.....	875	40
46	Water delivered before and after July 1.....enterprises reporting..	103	16	118	389	160	215	182	197	92	183
47	.....acres irrigated..	3,509	322	3,252	42,771	22,441	46,111	11,553	5,970	7,512	6,844
48	Water delivered only after July 1.....enterprises reporting..	26	.....	28	39	20	4	3	49	1	33
49	.....acres irrigated..	730	.....	726	3,638	886	388	10	959	10	1,103
Capital investment:											
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	74,172	22,218	64,538	4,942,227	566,153	501,122	370,794	160,448	81,084	102,191
New capital investment Jan. 1, 1940, to Jan. 1, 1950:											
51	Enterprises reporting.....enterprises 1950..	110	3	137	198	69	56	115	213	18	169
52	.....dollars 1950..	226,698	7,425	234,192	294,354	112,583	74,060	575,982	429,329	18,743	240,725
53	.....dollars 1940..	3,825	92	3,641	20,084	17,664	22,492	8,665	6,213	1,666	6,366
54	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
54	Total capital investment Jan. 1, 1950.....dollars 1950..	300,870	29,643	298,730	5,236,581	678,736	575,182	946,776	589,777	99,827	342,916
Indebtedness: ³											
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
55	Enterprises reporting.....enterprises 1950..	.....	.....	.....	7	1	6	5	1	.....	1
56	.....dollars 1950..	.....	.....	.....	1,212,814	5,250	45,998	175,662	38,066	.....	16,314
57	.....dollars 1940..	.....	.....	.....	1,354,259	177,166	55,922	41,450	.....	.....	.....
58	Area irrigated direct.....acres 1949..	.....	.....	.....	18,107	873	17,217	2,151	450	.....	200
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:											
59	Enterprises reporting.....enterprises 1950..	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
60	.....dollars 1950..	.....	.....	.....	271,481	.....	198	.....	.....	.....	.....
61	.....dollars 1940..	.....	.....	.....	8,917	.....	3,870	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Not available.

¹Less than 0.5.

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

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

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	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	8,172	509	181	361	11	116	223	110
Cost.....dollars..	3,308,245	84,194	32,533	40,468	1,503	22,231	40,480	141,042
Area irrigated direct.....acres..	1,351,578	138,180	4,449	4,681	174	4,131	4,333	51,069
Cost per acre irrigated direct.....dollars..	2.45	0.61	7.31	8.65	8.64	5.38	9.34	2.76
Total cost per irrigated acre.....dollars..	2.47	0.62	7.31	8.65	8.64	5.38	9.34	2.76
Total cost per acre-foot of water ².....dollars..	0.73	0.22	(³)	(³)	(³)	(³)	(³)	0.61
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	2,663	422	17	31	2	8	17	67
acres irrigated..	665,319	105,448	511	362	62	287	208	16,606
\$1.00-\$1.99.....enterprises reporting..	490	26	9	17	3	14	6	15
acres irrigated..	105,423	18,551	200	298	58	653	178	7,561
\$2.00-\$4.99.....enterprises reporting..	1,378	35	25	71	1	29	27	13
acres irrigated..	367,432	13,445	1,113	1,471	2	1,747	950	16,615
\$5.00-\$9.99.....enterprises reporting..	1,685	10	53	97	2	31	66	11
acres irrigated..	175,107	133	1,514	1,403	24	730	2,010	9,930
\$10.00 and over.....enterprises reporting..	1,956	16	77	145	3	34	107	4
acres irrigated..	38,297	603	1,111	1,147	28	714	987	357
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	8,042	499	181	361	11	116	223	110
Cost.....dollars..	3,275,401	80,602	32,533	40,468	1,503	22,231	40,480	141,024
Area supplied primary irrigation.....acres..	1,337,517	135,524	4,449	4,681	174	4,131	4,333	51,060
Cost per acre supplied.....dollars..	2.45	0.59	7.31	8.65	8.64	5.38	9.34	2.76
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	239	29	.....	.....	.....	.....	.....	3
Cost.....dollars..	32,844	3,592	.....	.....	.....	.....	.....	18
Area supplied supplemental irrigation.....acres..	14,061	2,656	.....	.....	.....	.....	.....	9
Cost per acre supplied.....dollars..	2.34	1.35	.....	.....	.....	.....	.....	2.00
Cost to farms for purposes other than operation and maintenance: ⁴								
Enterprises reporting.....enterprises..	101	27	.....	.....	.....	.....	.....	3
Cost.....dollars..	364,241	22,896	.....	.....	.....	.....	.....	23,847
Area irrigated direct.....acres..	263,960	23,362	.....	.....	.....	.....	.....	23,611
Cost per acre irrigated.....dollars..	1.38	0.98	.....	.....	.....	.....	.....	1.01
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
Enterprises reporting.....enterprises..	82	13	.....	2	.....	.....	.....	.....
Amount.....dollars..	119,916	5,202	.....	960	.....	.....	.....	.....
Area irrigated direct.....acres..	179,200	19,116	.....	205	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
Single-farm enterprises.....enterprises..	7,480	344	184	360	11	116	226	99
Area irrigated.....acres..	612,526	43,191	4,449	4,476	174	4,131	4,333	24,615
Complete-system enterprises ⁵.....enterprises..	6,771	304	180	349	11	116	223	91
Area irrigated.....acres..	525,053	36,115	4,374	4,082	174	4,131	4,333	22,150
Other farms irrigated:								
Enterprises reporting.....number..	161	11	6	6	1	2	1	.....
Number of other farms.....farms..	202	12	6	6	2	2	1	.....
Area irrigated in other farms.....acres..	10,847	2,338	21	43	9	20	2	.....
Enterprises by origin of water supply: ⁵								
No water from other enterprises.....enterprises reporting..	6,819	304	183	350	11	116	226	92
acres irrigated..	525,053	36,115	4,374	4,082	174	4,131	4,333	22,150
Part of water from other enterprises.....enterprises reporting..	178	29	.....	.....	.....	.....	.....	6
acres irrigated..	63,238	4,683	.....	.....	.....	.....	.....	1,965
All of water from other enterprises.....enterprises reporting..	483	11	1	10	.....	.....	.....	1
acres irrigated..	24,235	2,393	75	394	.....	.....	.....	500
Enterprises by primary and supplemental irrigation:								
All primary.....enterprises reporting..	7,258	334	181	359	11	116	223	96
acres irrigated..	601,866	42,051	4,449	4,476	174	4,131	4,333	24,580
Part primary, part supplemental.....enterprises reporting..	48	2	.....	.....	.....	.....	.....	2
Primary irrigation.....acres irrigated..	3,047	252	.....	.....	.....	.....	.....	32
Supplemental irrigation.....acres irrigated..	2,223	288	.....	.....	.....	.....	.....	3
All supplemental.....enterprises reporting..	126	8	.....	.....	.....	.....	.....	.....
acres irrigated..	5,390	600	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵								
None.....enterprises reporting..	48	.....	3	1	.....	.....	3	1
1-9 acres.....enterprises reporting..	2,481	48	72	208	5	32	109	6
10-29 acres.....enterprises reporting..	2,279	63	68	127	5	42	55	10
30-59 acres.....enterprises reporting..	1,153	61	26	14	1	20	41	23
60-99 acres.....enterprises reporting..	549	61	9	7	.....	14	15	13
100-199 acres.....enterprises reporting..	449	56	3	1	.....	6	3	18
200-499 acres.....enterprises reporting..	332	39	3	2	.....	2	.....	15
500-999 acres.....enterprises reporting..	104	10	.....	.....	.....	.....	.....	7
1,000 acres or more.....enterprises reporting..	85	6	.....	.....	.....	.....	.....	6

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)	Carry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson
ALL ENTERPRISES										
Cost of water to farms, 1949: ¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	54	46	272	44	245	191	246	404	49
2	Cost.....dollars..	6,764	136,494	29,208	5,782	15,411	14,824	120,797	277,700	179,771
3	Area irrigated direct.....acres..	922	49,501	4,054	1,767	38,493	142,235	19,899	51,697	41,830
4	Cost per acre irrigated direct.....dollars..	7.34	2.76	7.20	3.27	0.40	0.10	6.07	5.37	4.30
5	Total cost per irrigated acre.....dollars..	7.34	2.77	7.20	3.27	0.40	0.11	6.10	5.43	4.30
6	Total cost per acre-foot of water ².....dollars..	(³)	0.64	1.24	(³)	0.10	0.06	1.22	2.72	1.43
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	10	18	74	23	202	177	69	183	31
8	acres irrigated..	93	6,422	1,277	900	34,469	139,836	914	14,853	2,632
9	\$1.00-\$1.99.....enterprises reporting..	2	5	16	3	12	5	4	34	6
10	acres irrigated..	51	7,174	487	78	2,295	915	84	4,039	1,138
11	\$2.00-\$4.99.....enterprises reporting..	5	11	26	7	11	4	24	59	7
12	acres irrigated..	270	35,591	460	241	1,061	855	8,350	8,578	37,628
13	\$5.00-\$9.99.....enterprises reporting..	14	3	49	7	7	5	89	46	3
14	acres irrigated..	373	49	785	487	391	629	9,400	18,136	419
15	\$10.00 and over.....enterprises reporting..	23	9	107	4	13	.....	60	82	2
16	acres irrigated..	135	265	1,045	61	277	.....	1,151	6,091	13
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	54	46	272	44	245	189	245	393	49
18	Cost.....dollars..	6,764	134,932	29,208	5,782	15,341	14,705	120,344	275,705	179,771
19	Area supplied primary irrigation.....acres..	922	49,279	4,054	1,767	38,346	141,091	19,799	51,107	41,830
20	Cost per acre supplied.....dollars..	7.34	2.74	7.20	3.27	0.40	0.10	6.08	5.39	4.30
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	.....	5	.....	.....	3	6	3	16	.....
22	Cost.....dollars..	.....	1,562	.....	.....	70	119	453	1,994	.....
23	Area supplied supplemental irrigation.....acres..	.....	222	.....	.....	147	1,144	100	590	.....
24	Cost per acre supplied.....dollars..	.....	7.04	.....	.....	0.48	0.10	4.53	3.38	.....
Cost to farms for purposes other than operation and maintenance: ⁴										
25	Enterprises reporting.....enterprises..	.....	3	.....	.....	2	1	5	7	1
26	Cost.....dollars..	.....	8,406	.....	.....	1,289	304	22,708	37,013	192
27	Area irrigated direct.....acres..	.....	11,739	.....	.....	1,643	2,025	5,280	27,501	238
28	Cost per acre irrigated.....dollars..	.....	0.72	.....	.....	0.78	0.15	4.30	1.35	0.81
Arrearage in payments by farms, Jan. 1, 1950: ⁴										
29	Enterprises reporting.....enterprises..	.....	1	.....	.....	1	.....	8	6	.....
30	Amount.....dollars..	.....	125	.....	.....	85	.....	38,801	6,033	.....
31	Area irrigated direct.....acres..	.....	6,255	.....	.....	923	.....	15,068	11,409	.....
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	54	32	268	44	197	168	233	335	45
33	Area irrigated.....acres..	922	2,523	3,425	1,716	29,749	114,713	4,524	12,563	5,081
34	Complete-system enterprises ⁵.....enterprises..	54	17	266	38	189	145	86	318	42
35	Area irrigated.....acres..	922	1,544	3,425	1,486	28,820	101,721	1,012	12,263	3,248
Other farms irrigated:										
36	Enterprises reporting.....number..	1	1	2	.....	3	7	2	16	1
37	Number of other farms.....farms..	1	2	2	.....	3	14	2	21	2
38	Area irrigated in other farms.....acres..	1	203	2	.....	126	2,349	30	2,831	14
Enterprises by origin of water supply: ⁵										
39	No water from other enterprises.....enterprises reporting..	54	17	268	39	189	147	86	322	42
40	acres irrigated..	922	1,544	3,425	1,486	28,820	101,721	1,012	12,263	3,248
41	Part of water from other enterprises.....enterprises reporting..	.....	2	.....	4	6	8	7	4	2
42	acres irrigated..	.....	612	.....	184	900	7,236	209	147	1,800
43	All of water from other enterprises.....enterprises reporting..	.....	13	.....	1	2	13	140	9	1
44	acres irrigated..	.....	367	.....	46	29	5,756	3,303	153	33
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	54	32	266	43	195	162	231	320	45
46	acres irrigated..	922	2,523	3,425	1,716	29,496	113,468	4,449	12,165	5,081
47	Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	2	2	1	1	.....
48	Primary irrigation.....acres irrigated..	.....	.....	.....	.....	116	556	15	50	.....
49	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	137	345	45	30	.....
50	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	2	1	10	.....
51	acres irrigated..	.....	.....	.....	.....	.....	344	15	318	.....
Enterprises by number of acres irrigated: ⁵										
52	None.....enterprises reporting..	.....	.....	2	1	.....	2	.....	4	.....
53	1-9 acres.....enterprises reporting..	34	6	143	3	23	3	94	144	10
54	10-29 acres.....enterprises reporting..	8	10	94	15	42	3	89	89	10
55	30-59 acres.....enterprises reporting..	7	4	25	13	42	8	39	46	7
56	60-99 acres.....enterprises reporting..	5	6	3	10	22	12	8	22	7
57	100-199 acres.....enterprises reporting..	.....	4	1	2	27	37	3	20	4
58	200-499 acres.....enterprises reporting..	.....	.....	.....	.....	24	51	.....	9	4
59	500-999 acres.....enterprises reporting..	.....	1	.....	.....	14	22	.....	.....	1
60	1,000 acres or more.....enterprises reporting..	.....	1	.....	.....	3	30	.....	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)	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multno- mah
ALL ENTERPRISES										
Cost of water to farms, 1949:¹										
Total cost of water to farms:										
Enterprises reporting.....enterprises..	268	273	154	745	43	397	400	753	80	68
Cost.....dollars..	101,929	474,591	48,871	108,666	2,304	89,629	735,288	1,51,229	22,536	10,038
Area irrigated direct.....acres..	19,907	209,456	138,684	13,620	576	11,027	199,377	21,569	9,965	1,361
Cost per acre irrigated direct.....dollars..	5.12	2.27	0.35	7.98	4.00	8.13	3.69	7.01	2.26	7.38
Total cost per irrigated acre.....dollars..	5.13	2.31	0.35	7.98	4.00	8.13	3.74	7.03	2.26	7.38
Total cost per acre-foot of water.....dollars..	1.32	1.05	(³)	4.69	(²)	(³)	0.87	2.93	0.36	(³)
Enterprises by cost per acre:										
Less than \$1.00.....enterprises reporting..	107	96	122	54	9	22	182	37	49	6
Cost.....acres irrigated..	5,250	83,668	122,863	1,255	195	425	52,538	1,148	2,942	137
\$1.00-\$1.99.....enterprises reporting..	31	36	8	28	2	13	18	33	3	7
Cost.....acres irrigated..	2,340	9,266	3,558	551	10	703	5,576	1,387	74	230
\$2.00-\$4.99.....enterprises reporting..	35	63	9	137	12	84	87	163	16	17
Cost.....acres irrigated..	3,188	95,122	11,793	3,816	189	2,814	69,886	7,893	6,502	470
\$5.00-\$9.99.....enterprises reporting..	37	45	7	226	12	136	68	239	7	12
Cost.....acres irrigated..	8,201	17,042	260	4,592	106	4,489	68,745	6,914	342	302
\$10.00 and over.....enterprises reporting..	58	33	8	300	8	142	45	281	5	26
Cost.....acres irrigated..	928	4,358	210	3,306	76	2,596	2,632	4,227	105	222
Cost of water for primary irrigation:										
Enterprises reporting.....enterprises..	267	257	154	744	43	397	383	752	80	68
Cost.....dollars..	101,889	462,499	48,871	108,641	2,304	89,629	730,923	1,50,930	22,536	10,038
Area supplied primary irrigation.....acres..	19,887	205,573	138,684	13,614	576	11,027	196,358	21,520	9,965	1,361
Cost per acre supplied.....dollars..	5.12	2.25	0.35	7.98	4.00	8.13	3.72	7.01	2.26	7.38
Cost of water for supplemental irrigation:										
Enterprises reporting.....enterprises..	2	30	.....	1	.....	.....	29	4	.....	.....
Cost.....dollars..	40	12,092	.....	25	.....	.....	4,365	299	.....	.....
Area supplied supplemental irrigation.....acres..	20	3,883	.....	6	.....	.....	3,019	49	.....	.....
Cost per acre supplied.....dollars..	2.00	3.11	.....	4.17	.....	.....	1.45	6.10	.....	.....
Cost to farms for purposes other than operation and maintenance:⁴										
Enterprises reporting.....enterprises..	3	9	.....	1	.....	1	7	.....	2	.....
Cost.....dollars..	21,606	60,399	.....	1,448	.....	297	113,138	.....	1,300	.....
Area irrigated direct.....acres..	7,759	50,270	.....	289	.....	60	73,202	.....	206	.....
Cost per acre irrigated.....dollars..	2.78	1.20	.....	5.01	.....	4.95	1.55	.....	6.31	.....
Arrearage in payments by farms, Jan. 1, 1950:⁴										
Enterprises reporting.....enterprises..	6	4	2	2	.....	1	5	2	1	.....
Amount.....dollars..	1,441	8,050	2,820	1,213	.....	187	24,678	2,100	7,101	.....
Area irrigated direct.....acres..	1,574	6,915	10,723	1,167	.....	60	62,060	111	5,282	.....
SINGLE-FARM ENTERPRISES, 1950										
Single-farm enterprises.....enterprises..	221	244	134	744	43	396	376	753	72	69
Area irrigated.....acres..	6,040	85,989	92,861	11,983	576	10,854	53,151	20,160	3,828	1,361
Complete-system enterprises ⁵.....enterprises..	209	138	132	696	43	361	335	667	63	62
Area irrigated.....acres..	5,816	62,855	73,101	10,742	576	10,057	49,725	17,865	3,185	998
Other farms irrigated:										
Enterprises reporting.....number..	6	8	.....	14	.....	5	8	33	.....	.....
Number of other farms.....farms..	8	8	.....	14	.....	7	8	40	.....	.....
Area irrigated in other farms.....acres..	233	446	.....	109	.....	196	513	671	.....	.....
Enterprises by origin of water supply:⁵										
No water from other enterprises.....enterprises reporting..	216	140	132	699	43	362	338	671	67	63
Cost.....acres irrigated..	5,816	62,855	73,101	10,742	576	10,057	49,725	17,865	3,185	998
Part of water from other enterprises.....enterprises reporting..	4	13	1	18	.....	14	12	11	2	2
Cost.....acres irrigated..	194	17,448	19,660	779	.....	416	2,508	985	406	55
All of water from other enterprises.....enterprises reporting..	1	91	1	27	.....	20	26	71	3	4
Cost.....acres irrigated..	30	5,686	100	462	.....	381	918	1,310	237	308
Enterprises by primary and supplemental irrigation:										
All primary.....enterprises reporting..	213	213	134	740	43	395	352	746	68	68
Cost.....acres irrigated..	6,024	81,456	92,861	11,977	576	10,854	52,047	20,054	3,828	1,361
Part primary, part supplemental.....enterprises reporting..	.....	13	.....	.....	.....	.....	5	2	.....	.....
Cost.....acres irrigated..	.....	1,130	.....	.....	.....	.....	406	60	.....	.....
Supplemental irrigation.....acres irrigated..	.....	871	.....	.....	.....	.....	175	44	.....	.....
All supplemental.....enterprises reporting..	1	16	.....	1	.....	.....	16	1	.....	.....
Cost.....acres irrigated..	16	2,532	.....	6	.....	.....	523	2	.....	.....
Enterprises by number of acres irrigated:⁵										
None.....enterprises reporting..	7	2	.....	3	.....	1	3	4	4	1
1-9 acres.....enterprises reporting..	99	12	7	389	19	122	54	261	9	34
Cost.....enterprises reporting..	68	30	11	237	19	167	85	274	22	20
10-29 acres.....enterprises reporting..	19	60	21	87	5	65	62	128	16	8
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30-59 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60-99 acres.....enterprises reporting..	16	35	12	20	.....	20	44	50	9	3
Cost.....enterprises reporting..	9	34	22	5	.....	17	47	30	7	3
100-199 acres.....enterprises reporting..	1	40	29	3	.....	4	52	5	5	.....
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
200-499 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
500-999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cost.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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)	Polk	Sherman	Tilla- mook	Umatilla	Union	Wallowa	Wasco	Washing- ton	Wheeler	Yamhill
ALL ENTERPRISES										
Cost of water to farms, 1949: ¹										
Total cost of water to farms:										
1 Enterprises reporting.....enterprises..	132	16	151	459	212	220	189	250	103	223
2 Cost.....dollars..	25,702	1,636	19,930	165,818	18,503	44,338	57,750	33,922	9,927	36,436
3 Area irrigated direct.....acres..	4,336	322	4,046	50,248	28,089	46,521	11,641	6,967	8,397	8,054
4 Cost per acre irrigated direct.....dollars..	5.93	5.08	4.93	3.30	0.66	0.95	4.96	4.87	1.18	4.52
5 Total cost per irrigated acre.....dollars..	5.93	5.08	4.93	3.40	0.66	0.96	4.96	4.87	1.18	4.52
6 Total cost per acre-foot of water ².....dollars..	(³)	(³)	(³)	0.55	0.33	0.22	1.77	(³)	0.59	(³)
Enterprises by cost per acre:										
7 Less than \$1.00.....enterprises reporting..	16	3	19	109	162	166	53	21	72	20
8 Cost.....acres irrigated..	455	59	462	14,222	22,301	22,438	1,539	987	6,843	712
9 \$1.00-\$1.99.....enterprises reporting..	9	2	9	28	11	28	13	19	1	20
10 Cost.....acres irrigated..	510	52	274	7,563	2,635	22,261	2,292	1,073	200	808
11 \$2.00-\$4.99.....enterprises reporting..	31	4	52	89	21	16	42	70	13	66
12 Cost.....acres irrigated..	1,650	95	1,660	19,165	2,910	1,228	2,822	2,702	879	4,171
13 \$5.00-\$9.99.....enterprises reporting..	34	2	49	112	9	7	43	81	6	63
14 Cost.....acres irrigated..	1,220	75	1,169	7,489	196	286	3,969	1,539	89	1,669
15 \$10.00 and over.....enterprises reporting..	42	5	22	121	9	3	38	59	11	54
16 Cost.....acres irrigated..	501	41	481	1,809	47	8	1,019	666	386	694
Cost of water for primary irrigation:										
17 Enterprises reporting.....enterprises..	132	16	151	394	211	218	188	250	102	223
18 Cost.....dollars..	25,702	1,636	19,930	158,172	18,436	43,876	57,710	33,922	9,927	36,436
19 Area supplied primary irrigation.....acres..	4,336	322	4,046	48,740	27,893	46,032	11,636	6,967	8,379	8,054
20 Cost per acre supplied.....dollars..	5.93	5.08	4.93	3.25	0.66	0.95	4.96	4.87	1.18	4.52
Cost of water for supplemental irrigation:										
21 Enterprises reporting.....enterprises..	.....	.....	.....	89	4	14	1	.....	1	.....
22 Cost.....dollars..	.....	.....	.....	7,646	67	462	40	.....	0	.....
23 Area supplied supplemental irrigation.....acres..	.....	.....	.....	1,908	196	489	5	.....	18	.....
24 Cost per acre supplied.....dollars..	.....	.....	.....	5.07	0.34	0.94	8.00	.....	0.00	.....
Cost to farms for purposes other than operation and maintenance: ⁴										
25 Enterprises reporting.....enterprises..	.....	.....	.....	6	11	9	7	.....	.....	.....
26 Cost.....dollars..	.....	.....	.....	9,650	11,339	10,774	17,635	.....	.....	.....
27 Area irrigated direct.....acres..	.....	.....	.....	8,908	5,912	18,610	3,745	.....	.....	.....
28 Cost per acre irrigated.....dollars..	.....	.....	.....	1.13	1.92	0.58	4.71	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950:										
29 Enterprises reporting.....enterprises..	.....	.....	.....	14	2	9	5	.....	.....	.....
30 Amount.....dollars..	.....	.....	.....	15,133	208	3,873	1,906	.....	.....	.....
31 Area irrigated direct.....acres..	.....	.....	.....	20,121	523	15,157	2,531	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950⁴										
32 Single-farm enterprises.....enterprises..	134	16	151	389	147	153	169	249	100	221
33 Area irrigated.....acres..	4,336	322	4,046	14,959	6,038	7,288	5,797	6,517	8,097	7,738
34 Complete-system enterprises ⁵.....enterprises..	132	16	151	341	140	141	159	249	100	220
35 Area irrigated.....acres..	4,336	322	4,046	12,357	5,406	6,195	5,359	6,517	8,097	7,698
Other farms irrigated:										
36 Enterprises reporting.....number..	.....	.....	1	12	1	.....	5	1	1	6
37 Number of other farms.....farms..	.....	.....	1	21	2	.....	8	1	1	7
38 Area irrigated in other farms.....acres..	.....	.....	20	168	99	.....	229	38	80	56
Enterprises by origin of water supply: ⁵										
39 No water from other enterprises.....enterprises reporting..	134	16	151	342	141	141	161	249	100	220
40 Cost.....acres irrigated..	4,336	322	4,046	12,357	5,406	6,195	5,359	6,517	8,097	7,698
41 Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	26	4	4	3	.....	.....	.....
42 Cost.....acres irrigated..	.....	.....	.....	1,834	594	333	290	.....	.....	.....
43 All of water from other enterprises.....enterprises reporting..	.....	.....	.....	21	2	8	5	.....	.....	1
44 Cost.....acres irrigated..	.....	.....	.....	768	38	760	148	.....	.....	40
Enterprises by primary and supplemental irrigation:										
45 All primary.....enterprises reporting..	132	16	151	307	145	149	166	249	99	221
46 Cost.....acres irrigated..	4,336	322	4,046	13,448	6,019	7,092	5,792	6,517	8,079	7,738
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	16	.....	2	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	322	.....	108	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	281	.....	4	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	65	1	2	1	.....	1	.....
51 Cost.....acres irrigated..	.....	.....	.....	908	19	84	5	.....	18	.....
Enterprises by number of acres irrigated: ⁵										
52 None.....enterprises reporting..	2	.....	.....	1	1	.....	2	.....	.....	.....
53 1-9 acres.....enterprises reporting..	52	3	20	150	59	31	67	78	15	60
54 10-29 acres.....enterprises reporting..	42	7	67	132	35	48	55	94	40	95
55 30-59 acres.....enterprises reporting..	21	5	55	47	22	34	21	50	12	38
56 60-99 acres.....enterprises reporting..	8	1	8	27	12	20	7	15	10	18
57 100-199 acres.....enterprises reporting..	5	.....	1	17	11	15	11	12	10	8
58 200-499 acres.....enterprises reporting..	4	.....	.....	12	7	5	5	.....	11	1
59 500-999 acres.....enterprises reporting..	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
60 1,000 acres or more.....enterprises reporting..	.....	.....	.....	1	.....	.....	1	.....	2	1

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		The State	Baker	Clackamas	Crook	Deschutes	Douglas	Gilliam	Grant
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ¹.....enterprises..	755	168	3	13	15	6	3	48
2	Area irrigated direct.....acres..	739,052	94,989	205	26,434	46,978	629	51	8,744
3	Multiple-purpose enterprises ¹.....enterprises..	33	1	1	1	1	1	1	1
4	Area irrigated direct.....acres..	109,428	148	1	7,789	12	6	6	95
5	Complete-system enterprises ¹.....enterprises..	603	148	1	9	12	6	6	43
6	Area irrigated direct.....acres..	429,753	75,061	162	24,434	45,863	629	51	7,848
Enterprises by origin of water supply:¹									
7	No water from other enterprises.....enterprises reporting..	709	161	3	12	15	6	3	48
8	acres irrigated.....	597,483	85,188	205	24,654	46,978	629	51	8,744
9	Part of water from other enterprises.....enterprises reporting..	26	7	1	1	1	1	1	1
10	acres irrigated.....	107,948	9,801	1	1	1	1	1	1
11	All water from other enterprises.....enterprises reporting..	20	1	1	1	1	1	1	1
12	acres irrigated.....	33,621	1,800	1	1,800	1	1	1	1
Enterprises by delivery of irrigation water:¹									
13	No water delivered.....enterprises reporting..	575	142	1	6	8	6	1	40
14	Water delivered direct to farms only.....enterprises reporting..	311,871	75,007	162	10,373	7,580	629	51	6,634
15	acres irrigated.....	166	23	1	6	7	1	1	8
16	Water delivered to farms and to other enterprises.....enterprises reporting..	427,181	19,982	43	16,081	39,398	51	51	2,060
17	acres irrigated.....	14	3	1	1	1	1	2	1
18	Water delivered to other enterprises only.....enterprises reporting..	14	3	1	1	1	1	2	1
Enterprises by primary and supplemental irrigation:²									
19	All primary.....enterprises reporting..	675	146	2	11	9	6	1	47
20	acres irrigated.....	502,974	81,800	205	12,432	14,706	629	51	8,573
21	Part primary, part supplemental.....enterprises reporting..	61	17	1	1	5	1	1	1
22	acres irrigated.....	229,630	11,421	1	14,016	32,050	1	1	161
23	Primary irrigation.....acres irrigated..	4,619	1,666	1	6	222	1	1	10
24	Supplemental irrigation.....acres irrigated..	4	2	1	1	1	1	1	1
25	All supplemental.....enterprises reporting..	1,829	102	1	1	1	1	1	1
26	acres irrigated.....	14	3	1	1	1	1	2	1
Enterprises by number of farms irrigated direct:¹									
26	None.....enterprises reporting..	14	3	1	1	1	1	2	1
27	1-3.....enterprises reporting..	324	69	1	6	6	2	1	29
28	4-9.....enterprises reporting..	261	69	1	2	3	4	1	15
29	10-29.....enterprises reporting..	99	23	1	2	1	1	1	4
30	30-99.....enterprises reporting..	29	4	1	1	2	1	1	1
31	100-299.....enterprises reporting..	18	1	1	1	2	1	1	1
32	300-999.....enterprises reporting..	8	1	1	1	2	1	1	1
33	1,000 or more.....enterprises reporting..	2	1	1	1	1	1	1	1
Enterprises by acres irrigated direct:¹									
34	None.....enterprises reporting..	14	3	1	1	1	1	2	1
35	1-99 acres.....enterprises reporting..	228	28	1	2	2	2	1	18
36	100-999 acres.....enterprises reporting..	394	111	1	7	7	4	1	30
37	1,000-2,999 acres.....enterprises reporting..	73	22	1	1	1	1	1	1
38	3,000-9,999 acres.....enterprises reporting..	35	4	1	1	3	1	1	1
39	10,000-29,999 acres.....enterprises reporting..	6	1	1	1	1	1	1	1
40	30,000 acres or more.....enterprises reporting..	5	1	1	1	2	1	1	1
Quantities of water reported, 1949:³									
41	Total obtained from all sources.....enterprises reporting..	616	168	5	5	6	5	3	4
42	percent of all enterprises reporting..	7	33	4	13	2	2	6	2
43	Surface sources.....acres-foot..	5,227,894	375,392	327,654	414,203	3,615	721	10,425	4
44	acres-foot..	590	168	4	6	5	3	3	4
45	Pumped wells.....acres-foot..	3,768,532	345,617	315,154	414,203	3,615	721	10,425	4
46	acres-foot..	9	1	1	1	1	1	1	1
47	Other enterprises.....acres-foot..	2,858	250	1	1	1	1	1	1
48	acres-foot..	46	7	1	1	1	1	1	1
49	Conveyance loss ³.....acres-foot..	1,456,504	29,525	12,500	1	1	1	1	1
50	acres-foot..	413	27	4	6	5	1	1	4
51	Delivered: ³	1,243,956	25,264	92,065	142,121	772	28	950	1
52	Direct to farms.....enterprises reporting..	608	165	5	6	5	1	4	4
53	acres-foot..	3,113,333	265,777	222,459	258,023	2,843	29	9,050	1
54	To other enterprises.....enterprises reporting..	138	26	2	3	3	3	1	1
55	acres-foot..	817,108	72,547	13,130	14,059	664	664	425	1
56	For use other than irrigation.....enterprises reporting..	84	5	1	1	1	1	1	1
57	acres-foot..	53,497	11,804	1	1	1	1	1	1
Delivered direct to farms for primary irrigation:²									
58	Enterprises reporting.....enterprises..	604	163	5	5	5	1	4	4
59	Quantity delivered.....acre-foot..	2,234,891	261,551	111,309	179,242	2,843	29	9,050	1
60	Area supplied primary irrigation.....acres..	652,319	93,218	24,816	41,743	488	51	2,165	1
61	Quantity supplied per acre.....acre-foot..	3.4	2.8	4.5	4.3	5.8	0.6	4.2	1
Delivered direct to farms for supplemental irrigation:²									
62	Enterprises reporting.....enterprises..	54	19	2	2	2	1	1	1
63	Quantity delivered.....acre-foot..	13,570	4,226	1,411	1,411	160	1	1	1
64	Area supplied supplemental irrigation.....acres..	3,844	1,768	8.8	8.8	8.8	0.6	4.2	1
65	Quantity supplied per acre.....acre-foot..	3.5	2.4	4.3	4.3	5.8	0.6	4.2	1
66	Total quantity per irrigated acre ³.....acre-foot..	3.4	2.8	4.5	4.3	5.8	0.6	4.2	1
Cost of water to farms for enterprises reporting quantity delivered, 1949:²									
67	Cost for primary irrigation.....dollars..	2,162,587	58,402	106,914	127,431	466	0	3,059	1
68	Average cost per acre-foot.....dollars..	0.97	0.22	0.96	0.71	0.16	0.00	0.34	1
69	Cost for supplemental irrigation.....dollars..	5,995	182	1,149	0.81	0.81	0.81	0.81	1
70	Average cost per acre-foot.....dollars..	0.44	0.04	0.81	0.81	0.81	0.81	0.81	1
Measurement of water to farms, 1949:²									
71	No water measured.....enterprises reporting..	598	153	2	9	4	6	3	48
72	acres irrigated.....	290,527	86,657	43	1,874	1,334	629	51	8,744
73	Part of water measured.....enterprises reporting..	28	7	1	1	1	1	1	1
74	acres irrigated.....	155,843	2,903	1	14,022	26,600	1	1	1
75	All water measured.....enterprises reporting..	114	8	1	3	9	1	1	1
76	acres irrigated.....	284,343	5,429	162	10,558	12,951	1	1	1

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)	Harney	Hood River	Jackson	Jefferson	Josephine	Klamath	Lake	Lane
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ¹.....enterprises..	25	14	74	4	55	35	20	4
2 Area irrigated direct.....acres..	27,522	15,375	39,134	36,749	13,867	123,467	45,823	1,637
3 Multiple-purpose enterprises ¹.....enterprises..			5			6		3
4 Area irrigated direct.....acres..			9,930			81,656		1,557
5 Complete-system enterprises ¹.....enterprises..	16	7	72	4	54	20	19	
6 Area irrigated direct.....acres..	18,146	375	38,881	36,749	13,646	18,596	44,793	
Enterprises by origin of water supply:¹								
7 No water from other enterprises.....enterprises reporting..	25	13	73	4	55	25	20	3
8 acres irrigated..	27,522	14,930	38,953	36,749	13,867	73,156	45,823	1,557
9 Part of water from other enterprises.....enterprises reporting..		1	1			4		
10 acres irrigated..		445	181			39,990		
11 All water from other enterprises.....enterprises reporting..						6		1
12 acres irrigated..						10,321		80
Enterprises by delivery of irrigation water:¹								
13 No water delivered.....enterprises reporting..								
14 Water delivered direct to farms only.....enterprises reporting..	12	7	65	3	52	17	18	1
15 acres irrigated..	6,634	375	11,421	36,511	6,739	17,628	43,583	80
16 Water delivered to farms and to other enterprises.....enterprises reporting..	13	7	9	1	3	17	2	3
17 acres irrigated..	20,888	15,000	27,713	238	7,128	105,839	2,240	1,557
18 Water delivered to other enterprises only.....enterprises reporting..						1		
Enterprises by primary and supplemental irrigation:²								
19 All primary.....enterprises reporting..	23	12	68	4	53	30	20	4
20 acres irrigated..	25,672	13,342	30,142	36,749	13,646	83,798	45,823	1,637
21 Part primary, part supplemental.....enterprises reporting..	2	1	4		1	1		
22 Primary irrigation.....acres irrigated..	1,395	1,993	8,750		217	39,189		
23 Supplemental irrigation.....acres irrigated..	455	40	195		4	480		
24 All supplemental.....enterprises reporting..			1					
25 acres irrigated..			47					
Enterprises by number of farms irrigated direct:¹								
26 None.....enterprises reporting..						1		
27 1-3.....enterprises reporting..	14	3	30		28	11	9	
28 4-9.....enterprises reporting..	8	2	24	2	18	8	9	3
29 10-29.....enterprises reporting..	3	5	13		7	3	1	1
30 30-99.....enterprises reporting..			2	1	1	8		
31 100-299.....enterprises reporting..			3	2		2	1	
32 300-999.....enterprises reporting..		1	3	1	1	2		
33 1,000 or more.....enterprises reporting..								
Enterprises by acres irrigated direct:¹								
34 None.....enterprises reporting..						1		
35 1-99 acres.....enterprises reporting..	2	5	31		26	2	5	1
36 100-999 acres.....enterprises reporting..	15	5	37	2	28	12	6	3
37 1,000-2,999 acres.....enterprises reporting..	6	3	1			10	5	
38 3,000-9,999 acres.....enterprises reporting..	2	1	5	1	1	7	3	
39 10,000-29,999 acres.....enterprises reporting..						2	1	
40 30,000 acres or more.....enterprises reporting..				1		1		
Quantities of water reported, 1949:²								
41 Total obtained from all sources ³.....enterprises reporting..	3	14	73	4	40	34	2	4
42 percent of all enterprises reporting..	2	6	18	8	14	12	1	1
43 acre-feet..	7,276	111,702	158,323	443,324	88,203	913,550	51,645	9,250
44 Surface sources.....enterprises reporting..	3	14	73	4	40	28	2	3
45 acre-feet..	7,276	110,126	157,623	443,324	88,203	804,318	51,645	8,890
46 Pumped wells.....enterprises reporting..								
47 acre-feet..								
48 Other enterprises.....enterprises reporting..		1	1			10		1
49 acre-feet..		1,576	700			109,232		360
50 Conveyance loss ³.....enterprises reporting..	2	13	72	4	40	32	2	3
51 acre-feet..	1,384	14,154	46,469	178,360	26,007	339,276	19,987	2,694
Delivered:³								
52 Direct to farms.....enterprises reporting..	3	14	73	4	40	34	2	4
53 acre-feet..	4,902	79,405	97,293	237,419	52,960	423,996	31,658	2,881
54 To other enterprises.....enterprises reporting..	3	7	8	1	1	17		3
55 acre-feet..	990	18,143	144	459	189	148,493		3,442
56 For use other than irrigation.....enterprises reporting..			45	2	4	3		2
57 acre-feet..			14,417	27,286	9,047	1,825		233
Delivered direct to farms for primary irrigation:²								
58 Enterprises reporting.....enterprises..	3	13	72	4	39	31	2	4
59 Quantity delivered.....acre-feet..	4,902	75,845	76,345	111,226	48,847	262,445	31,658	2,731
60 Area supplied primary irrigation.....acres..	2,885	15,335	38,892	36,749	12,469	122,987	10,723	1,637
61 Quantity supplied per acre.....acre-feet..	1.7	4.9	2.0	3.0	3.9	2.1	3.0	1.7
Delivered direct to farms for supplemental irrigation:²								
62 Enterprises reporting.....enterprises..		1	5		1	1		
63 Quantity delivered.....acre-feet..		320	505		31	1,541		
64 Area supplied supplemental irrigation.....acres..		40	242		4	480		
65 Quantity supplied per acre.....acre-feet..		8.0	2.1		7.8	3.2		
66 Total quantity per irrigated acre ⁵.....acre-feet..	1.7	5.0	2.0	3.0	3.9	2.2	3.0	1.7
Cost of water to farms for enterprises reporting quantity delivered, 1949:²								
67 Cost for primary irrigation.....dollars..	770	89,454	251,443	170,876	77,774	382,567	27,624	5,859
68 Average cost per acre-foot.....dollars..	0.16	1.18	3.29	1.54	1.59	1.46	0.87	2.15
69 Cost for supplemental irrigation.....dollars..		279	862		10	1,024		
70 Average cost per acre-foot.....dollars..		0.87	1.71		0.32	0.66		
Measurement of water to farms, 1949:²								
71 No water measured.....enterprises reporting..	24	7	63	2	50	23	19	4
72 acres irrigated..	25,497	375	16,424	787	13,273	25,290	36,733	1,637
73 Part of water measured.....enterprises reporting..			2			2		
74 acres irrigated..			12,003		102	3,554	9,090	
75 All water measured.....enterprises reporting..	1	7	9	1	3	8		
76 acres irrigated..	2,025	15,000	10,707	35,724	492	94,623		

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)	Malheur	Marion	Morrow	Umatilla	Union	Wallowa	Wasco	Wheeler	All other counties
MULTIPLE-FARM ENTERPRISES, 1950									
1 Multiple-farm enterprises, total number ¹.....enterprises..	29	5	13	71	66	68	22	3	6
2 Area irrigated direct.....acres..	146,226	1,409	6,137	35,289	22,051	39,233	5,844	300	939
3 Multiple-purpose enterprises ¹.....enterprises..	1	5	1	1	1	4	1	.....	4
4 Area irrigated direct.....acres..	91	1,409	38	5,435	40	713	302	.....	373
5 Complete-system enterprises ¹.....enterprises..	19	.....	9	49	57	47	19	.....	3
6 Area irrigated direct.....acres..	34,198	.....	5,862	17,020	18,033	23,001	5,390	300	766
Enterprises by origin of water supply: ¹									
7 No water from other enterprises.....enterprises reporting..	24	3	13	64	65	58	22	3	6
8 acres irrigated..	95,155	111	6,137	22,950	22,024	25,017	5,844	300	939
9 Part of water from other enterprises.....enterprises reporting..	3	.....	.....	3	.....	7	.....	.....	.....
10 acres irrigated..	34,037	.....	.....	10,373	.....	13,121	.....	.....	.....
11 All water from other enterprises.....enterprises reporting..	2	2	.....	4	1	3	.....	.....	.....
12 acres irrigated..	17,034	1,298	.....	1,966	27	1,095	.....	.....	.....
Enterprises by delivery of irrigation water: ¹									
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	18	.....	8	49	56	52	17	3	2
15 acres irrigated..	22,515	.....	5,734	12,983	17,628	23,584	5,071	300	650
16 Water delivered to farms and to other enterprises.....enterprises reporting..	9	4	4	22	10	15	5	.....	3
17 acres irrigated..	123,711	1,409	403	22,306	4,423	15,649	773	.....	289
18 Water delivered to other enterprises only.....enterprises reporting..	2	1	1	.....	.....	1	.....	.....	1
Enterprises by primary and supplemental irrigation: ²									
19 All primary.....enterprises reporting..	19	3	12	63	63	57	22	3	5
20 acres irrigated..	46,442	1,403	6,137	29,305	19,834	23,565	5,844	300	939
21 Part primary, part supplemental.....enterprises reporting..	7	.....	.....	8	3	10	.....	.....	.....
22 Primary irrigation.....acres irrigated..	97,463	3	.....	5,665	2,040	15,267	.....	.....	.....
23 Supplemental irrigation.....acres irrigated..	641	3	.....	319	177	401	.....	.....	.....
24 All supplemental.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....	.....
25 acres irrigated..	1,680	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct: ¹									
26 None.....enterprises reporting..	2	1	1	.....	.....	1	.....	.....	1
27 1-3.....enterprises reporting..	11	1	10	27	32	24	7	3	.....
28 4-9.....enterprises reporting..	5	2	1	22	27	30	8	.....	2
29 10-29.....enterprises reporting..	2	.....	.....	13	6	10	6	.....	3
30 30-99.....enterprises reporting..	3	1	.....	4	1	3	1	.....	.....
31 100-299.....enterprises reporting..	3	.....	1	5	.....	.....	.....	.....	.....
32 300-999.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....	.....
33 1,000 or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ¹									
34 None.....enterprises reporting..	2	1	1	.....	.....	1	.....	.....	1
35 1-99 acres.....enterprises reporting..	3	1	7	35	29	19	6	2	.....
36 100-999 acres.....enterprises reporting..	11	2	4	29	30	36	15	1	5
37 1,000-2,999 acres.....enterprises reporting..	5	1	.....	1	7	9	1	.....	.....
38 3,000-9,999 acres.....enterprises reporting..	3	.....	1	6	.....	3	.....	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....
Quantities of water reported, 1949:									
41 Total obtained from all sources ¹.....enterprises reporting..	20	3	13	70	66	66	21	3	2
42 percent of all enterprises reporting..	5	(4)	15	15	31	30	11	3	(4)
43 acre-feet..	2,140,899	11,293	57,533	434,267	53,179	254,000	25,315	667	10,020
44 Surface sources.....enterprises reporting..	18	1	13	65	65	63	16	3	2
45 acre-feet..	961,584	6,150	57,533	371,788	53,044	197,558	23,610	667	10,020
46 Pumped wells.....enterprises reporting..	1	.....	.....	2	.....	5	.....	.....	.....
47 acre-feet..	761	.....	.....	142	.....	1,705	.....	.....	.....
48 Other enterprises.....enterprises reporting..	5	2	.....	7	1	10	.....	.....	.....
49 acre-feet..	1,178,554	5,143	.....	62,337	135	56,442	.....	.....	.....
50 Conveyance loss ³.....enterprises reporting..	19	1	13	56	60	42	15	3	2
51 acre-feet..	434,435	600	12,329	87,294	4,425	19,743	9,271	67	2,586
Delivered: ³									
52 Direct to farms.....enterprises reporting..	19	3	12	70	66	65	21	3	2
53 acre-feet..	1,297,886	3,433	42,343	271,904	43,172	167,091	15,688	600	2,181
54 To other enterprises.....enterprises reporting..	9	3	5	21	10	15	4	.....	2
55 acre-feet..	405,512	7,260	1,625	73,907	2,447	63,896	356	.....	5,180
56 For use other than irrigation.....enterprises reporting..	3	.....	1	5	17	1	.....	.....	1
57 acre-feet..	3,066	.....	1,236	1,162	3,135	3,270	.....	.....	73
Delivered direct to farms for primary irrigation: ²									
58 Enterprises reporting.....enterprises..	19	3	12	70	66	65	21	3	2
59 Quantity delivered.....acre-feet..	581,206	3,433	37,977	208,485	42,845	165,183	15,688	600	1,450
60 Area supplied primary irrigation.....acres..	139,039	1,403	6,137	34,900	21,874	38,645	5,690	300	173
61 Quantity supplied per acre.....acre-feet..	4.2	2.4	6.2	6.0	2.0	4.3	2.8	2.0	8.4
Delivered direct to farms for supplemental irrigation: ²									
62 Enterprises reporting.....enterprises..	4	.....	.....	8	3	10	.....	.....	.....
63 Quantity delivered.....acre-feet..	1,424	.....	.....	1,877	327	1,908	.....	.....	.....
64 Area supplied supplemental irrigation.....acres..	253	.....	.....	319	177	401	.....	.....	.....
65 Quantity supplied per acre.....acre-feet..	5.6	.....	.....	5.9	1.8	4.8	.....	.....	.....
66 Total quantity per irrigated acre ⁵.....acre-feet..	4.3	2.4	6.2	6.2	2.0	4.3	2.8	2.0	8.4
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²									
67 Cost for primary irrigation.....dollars..	650,638	3,507	14,909	103,277	15,576	38,306	32,096	0	1,639
68 Average cost per acre-foot.....dollars..	1.12	1.02	0.39	0.50	0.36	0.23	2.05	0.00	1.13
69 Cost for supplemental irrigation.....dollars..	1,598	.....	.....	363	67	461	.....	.....	.....
70 Average cost per acre-foot.....dollars..	1.12	.....	.....	0.19	0.20	0.24	.....	.....	.....
Measurement of water to farms, 1949: ²									
71 No water measured.....enterprises reporting..	12	4	11	31	51	54	16	3	6
72 acres irrigated..	7,902	1,409	684	24,966	16,281	15,016	3,682	300	939
73 Part of water measured.....enterprises reporting..	3	.....	2	3	5	1	.....	.....	.....
74 acres irrigated..	74,479	.....	5,453	1,468	3,835	2,334	.....	.....	.....
75 All water measured.....enterprises reporting..	13	.....	.....	36	2	10	6	.....	.....
76 acres irrigated..	63,815	.....	.....	8,823	431	21,441	2,162	.....	.....

¹ For intercounty and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the county or State.
² For intercounty and interstate enterprises, data represent characteristics within the county or State.
³ For intercounty and interstate enterprises, data represent characteristics of the entire enterprise.
⁴ Less than 0.5.
⁵ Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

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

[Symbols in parentheses refer to drainage basin symbols on map, "Oregon: 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	Baker	Benton	Clackamas	Clatsop	Columbia	Coos	Crook
1 Irrigated land, 1949..... acres..	1,337,517	135,524	4,449	4,681	174	4,131	4,333	51,060
Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2 All basins..... acres..	1,374,708	138,180	4,449	4,681	174	4,131	4,333	51,069
3 North Pacific Coast..... acres..	866,457	138,180	4,449	4,681	174	4,131	4,333	51,069
4 Excluding Columbia River (I-A)..... acres..	86,729		248		95	154	4,333	
5 Pacific Coast direct (1)..... acres..	15,172		248		95	154	4,333	
6 Rogue River..... acres..	71,557							
7 Rogue River direct (4a)..... acres..	39,021							
8 Illinois River (4b)..... acres..	4,075							
9 Applegate River (4c)..... acres..	12,636							
10 Bear Creek (4d)..... acres..	15,825							
11 Columbia River..... acres..	779,728	138,180	4,201	4,681	79	3,977		51,069
12 Columbia River below Snake River (I-B)..... acres..	357,228		4,201	4,681	79	3,977		51,069
13 Columbia River direct (1a, 1b)..... acres..	22,063			144	79	3,977		
14 Willamette River (2a, 2b, 2c)..... acres..	73,640		4,201	4,537				
15 Hood River (3)..... acres..	19,796							
16 Deschutes River..... acres..	147,598							51,069
17 Deschutes River direct (5a, 5b)..... acres..	102,489							15,822
18 Crooked River (5c)..... acres..	35,611							35,247
19 Squaw Creek (5d)..... acres..	9,498							
20 John Day River (6a, 6b)..... acres..	44,361							
21 Umatilla River (7)..... acres..	31,527							
22 Walla Walla River (8)..... acres..	18,243							
23 Snake River below Weiser, Idaho (I-E)..... acres..	213,443	138,180						
24 Snake River direct (1)..... acres..	8,545	1,595						
25 Grande Ronde River..... acres..	56,098							
26 Grande Ronde River direct (2a)..... acres..	16,035							
27 Wallowa River (2b)..... acres..	40,063							
28 Pine Creek (4)..... acres..	15,121	15,121						
29 Powder River (5a, 5b)..... acres..	105,337	93,122						
30 Burnt River (6)..... acres..	28,342	28,342						
31 Snake River above Weiser, Idaho (I-F)..... acres..	209,057							
32 Snake River direct (1)..... acres..	89,605							
33 Malheur River..... acres..	85,794							
34 Malheur River direct (4a, 4b)..... acres..	77,545							
35 Willow Creek (4c)..... acres..	8,249							
36 Owyhee River..... acres..	29,232							
37 Owyhee River direct (5a)..... acres..	4,152							
38 Jordan Creek (5b)..... acres..	25,080							
39 Boise River (6)..... acres..	4,426							
40 South Pacific Coast..... acres..	271,658							
41 Klamath River (II-A)..... acres..	246,273							
42 Klamath River direct (1)..... acres..	311							
43 Lower Klamath Lake (5)..... acres..	39,583							
44 Lost River (6)..... acres..	68,835							
45 Upper Klamath Lake (7)..... acres..	77,398							
46 Williamson River (8)..... acres..	60,146							
47 Sacramento River (II-D), Goose Lake (9c)..... acres..	25,385							
48 Great Basin (Northwest Great Basin) (III-A)..... acres..	236,593							
49 Silver and Summer Lakes area (1)..... acres..	18,176							
50 Lake Abert area (2)..... acres..	30,695							
51 Cowhead and Warner Lakes area (3)..... acres..	50,229							
52 Central Desert area (5)..... acres..	2,543							
53 Malheur Lake area..... acres..	111,080							
54 Silvies River (6a)..... acres..	69,567							
55 Harney Lake (6b)..... acres..	9,783							
56 Donner and Blitzen River (6c)..... acres..	31,730							
57 Trout and Whitehorse Creeks (7)..... acres..	16,890							
58 Quinn River (8)..... acres..	6,980							

See footnote at end of County Table 3.
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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, "Oregon: 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)	Curry	Deschutes	Douglas	Gilliam	Grant	Harney	Hood River	Jackson	Jefferson
1	Irrigated land, 1949.....acres..	922	49,279	4,054	1,767	38,346	141,091	19,799	51,107	41,830
	Area irrigated direct, by drainage basin origin of water, 1949: ¹									
2	All basins.....acres..	922	49,501	4,054	1,767	38,816	142,235	19,899	51,697	41,830
3	North Pacific Coast.....acres..	922	49,501	4,054	1,767	33,311	17,313	19,899	51,567	41,830
4	Excluding Columbia River (I-A).....acres..	922		4,054					51,567*	
5	Pacific Coast direct (1).....acres..	839		4,054						
6	Rogue River.....acres..	83							51,567	
7	Rogue River direct (4a).....acres..	83							29,534	
8	Illinois River (4b).....acres..									
9	Applegate River (4c).....acres..								6,208	
10	Bear Creek (4d).....acres..								15,825	
11	Columbia River.....acres..		49,501		1,767	33,311	17,313	19,899		41,830
12	Columbia River below Snake River (I-B).....acres..		49,501		1,767	33,311		19,899		41,830
13	Columbia River direct (1a, 1b).....acres..				537			103		
14	Willamette River (2a, 2b, 2c).....acres..							19,796		
15	Hood River (3).....acres..							19,796		
16	Deschutes River.....acres..		49,501			244				41,630
17	Deschutes River direct (5a, 5b).....acres..		40,121							41,392
18	Crooked River (5c).....acres..		120			244				
19	Squaw Creek (5d).....acres..		9,260							238
20	John Day River (6a, 6b).....acres..				1,230	33,067				200
21	Umatilla River (7).....acres..									
22	Walla Walla River (8).....acres..									
23	Snake River below Weiser, Idaho (I-E).....acres..									
24	Snake River direct (1).....acres..									
25	Grande Ronde River.....acres..									
26	Grande Ronde River direct (2a).....acres..									
27	Wallowa River (2b).....acres..									
28	Pine Creek (4).....acres..									
29	Powder River (5a, 5b).....acres..									
30	Burnt River (6).....acres..									
31	Snake River above Weiser, Idaho (I-F).....acres..						17,313			
32	Snake River direct (1).....acres..									
33	Malheur River.....acres..						17,313			
34	Malheur River direct (4a, 4b).....acres..						17,313			
35	Willow Creek (4c).....acres..									
36	Owyhee River.....acres..									
37	Owyhee River direct (5a).....acres..									
38	Jordan Creek (5b).....acres..									
39	Boise River (6).....acres..									
40	South Pacific Coast.....acres..								130	
41	Klamath River (II-A).....acres..								130	
42	Klamath River direct (1).....acres..								130	
43	Lower Klamath Lake (5).....acres..									
44	Lost River (6).....acres..									
45	Upper Klamath Lake (7).....acres..									
46	Williamson River (8).....acres..									
47	Sacramento River (II-D), Goose Lake (9c).....acres..									
48	Great Basin (Northwest Great Basin) (III-A).....acres..					5,505	124,922			
49	Silver and Summer Lakes area (1).....acres..									
50	Lake Abert area (2).....acres..									
51	Cowhead and Warner Lakes area (3).....acres..									
52	Central Desert area (5).....acres..						2,457			
53	Malheur Lake area.....acres..					5,505	105,575			
54	Silvies River (6a).....acres..					5,505	64,062			
55	Harney Lake (6b).....acres..						9,783			
56	Donner and Blitzen River (6c).....acres..						31,730			
57	Trout and Whitehorse Creeks (7).....acres..						16,890			
58	Quinn River (8).....acres..									

See footnote 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, "Oregon: 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)	Josephine	Klamath	Lake	Lane	Lincoln	Linn	Malheur	Marion	Morrow	Multnomah
1 Irrigated land, 1949.....acres..	19,887	205,573	138,684	13,614	576	11,027	196,358	21,520	9,965	1,361
Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2 All basins.....acres..	19,907	232,263	138,684	13,620	576	11,027	199,377	21,569	9,965	1,361
3 North Pacific Coast.....acres..	19,907	233		13,620	576	11,027	192,397	21,569	9,965	1,361
4 Excluding Columbia River (I-A).....acres..	19,907			827	576					
5 Pacific Coast direct (1).....acres..				827	576					
6 Rogue River.....acres..	19,907									
7 Rogue River direct (4a).....acres..	9,404									
8 Illinois River (4b).....acres..	4,075									
9 Applegate River (4c).....acres..	6,428									
10 Bear Creek (4d).....acres..										
11 Columbia River.....acres..		233		12,793		11,027	192,397	21,569	9,965	1,361
12 Columbia River below Snake River (I-B).....acres..		233		12,793		11,027		21,569	9,965	1,361
13 Columbia River direct (1a, 1b).....acres..									8,788	1,205
14 Willamette River (2a, 2b, 2c).....acres..				12,793		11,027		21,569		156
15 Hood River (3).....acres..										
16 Deschutes River.....acres..		233								
17 Deschutes River direct (5a, 5b).....acres..		233								
18 Crooked River (5c).....acres..										
19 Squaw Creek (5d).....acres..										
20 John Day River (6a, 6b).....acres..									20	
21 Umatilla River (7).....acres..									1,157	
22 Walla Walla River (8).....acres..										
23 Snake River below Weiser, Idaho (I-E).....acres..							653			
24 Snake River direct (1).....acres..							653			
25 Grande Ronde River.....acres..										
26 Grande Ronde River direct (2a).....acres..										
27 Wallowa River (2b).....acres..										
28 Pine Creek (4).....acres..										
29 Powder River (5a, 5b).....acres..										
30 Burnt River (6).....acres..										
31 Snake River above Weiser, Idaho (I-F).....acres..							191,744			
32 Snake River direct (1).....acres..							89,605			
33 Malheur River.....acres..							68,481			
34 Malheur River direct (4a, 4b).....acres..							60,232			
35 Willow Creek (4c).....acres..							8,249			
36 Owyhee River.....acres..							29,232			
37 Owyhee River direct (5a).....acres..							4,152			
38 Jordan Creek (5b).....acres..							25,080			
39 Boise River (6).....acres..							4,426			
40 South Pacific Coast.....acres..		232,030	39,498							
41 Klamath River (II-A).....acres..		232,030	14,113							
42 Klamath River direct (1).....acres..		181								
43 Lower Klamath Lake (5).....acres..		39,583								
44 Lost River (6).....acres..		68,835								
45 Upper Klamath Lake (7).....acres..		77,398								
46 Williamson River (8).....acres..		46,033	14,113							
47 Sacramento River (II-D), Goose Lake (9c).....acres..			25,385							
48 Great Basin (Northwest Great Basin) (III-A).....acres..			99,186				6,980			
49 Silver and Summer Lakes area (1).....acres..			18,176							
50 Lake Abert area (2).....acres..			30,695							
51 Cowhead and Warner Lakes area (3).....acres..			50,229							
52 Central Desert area (5).....acres..			86							
53 Malheur Lake area.....acres..										
54 Silvies River (6a).....acres..										
55 Harney Lake (6b).....acres..										
56 Donner and Blitzen River (6c).....acres..										
57 Trout and Whitehorse Creeks (7).....acres..										
58 Quinn River (8).....acres..							6,980			

See footnote at end of County Table 3.

IRRIGATION OF AGRICULTURAL LANDS

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

[Symbols in parentheses refer to drainage basin symbols on map, "Oregon: 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)	Polk	Sherman	Tilla- mook	Uma- tilla	Union	Wallowa	Wasco	Wash- ington	Wheeler	Yamhill
1 Irrigated land, 1949.....acres..	4,336	322	4,046	48,740	27,893	46,032	11,636	6,967	8,379	8,054
Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2 All basins.....acres..	4,336	322	4,046	50,248	28,089	46,521	11,641	6,967	8,397	8,054
3 North Pacific Coast.....acres..	4,336	322	4,046	50,248	28,089	46,521	11,641	6,967	8,397	8,054
4 Excluding Columbia River (I-A).....acres..			4,046							
5 Pacific Coast direct (1).....acres..			4,046							
6 Rogue River.....acres..										
7 Rogue River direct (4a).....acres..										
8 Illinois River (4b).....acres..										
9 Applegate River (4c).....acres..										
10 Bear Creek (4d).....acres..										
11 Columbia River.....acres..	4,336	322		50,248	28,089	46,521	11,641	6,967	8,397	8,054
12 Columbia River below Snake River (I-B).....acres..	4,336	322		50,248			11,641	6,967	8,397	8,054
13 Columbia River direct (1a, 1b).....acres..		190		1,517			5,523			
14 Willamette River (2a, 2b, 2c).....acres..	4,336							6,967		8,054
15 Hood River (3).....acres..										
16 Deschutes River.....acres..							4,921			
17 Deschutes River direct (5a, 5b).....acres..							4,921			
18 Crooked River (5c).....acres..										
19 Squaw Creek (5d).....acres..										
20 John Day River (6a, 6b).....acres..		132		118			1,197		8,397	
21 Umatilla River (7).....acres..				30,370						
22 Walla Walla River (8).....acres..				18,243						
23 Snake River below Weiser, Idaho (I-E).....acres..					28,089	46,521				
24 Snake River direct (1).....acres..						6,297				
25 Grande Ronde River.....acres..					15,874	40,224				
26 Grande Ronde River direct (2a).....acres..					15,874	161				
27 Wallowa River (2b).....acres..						40,063				
28 Pine Creek (4).....acres..										
29 Powder River (5a, 5b).....acres..					12,215					
30 Burnt River (6).....acres..										
31 Snake River above Weiser, Idaho (I-F).....acres..										
32 Snake River direct (1).....acres..										
33 Malheur River.....acres..										
34 Malheur River direct (4a, 4b).....acres..										
35 Willow Creek (4c).....acres..										
36 Owyhee River.....acres..										
37 Owyhee River direct (5a).....acres..										
38 Jordan Creek (5b).....acres..										
39 Boise River (6).....acres..										
40 South Pacific Coast.....acres..										
41 Klamath River (II-A).....acres..										
42 Klamath River direct (1).....acres..										
43 Lower Klamath Lake (5).....acres..										
44 Lost River (6).....acres..										
45 Upper Klamath Lake (7).....acres..										
46 Williamson River (8).....acres..										
47 Sacramento River (II-D), Goose Lake (9c).....acres..										
48 Great Basin (Northwest Great Basin) (III-A).....acres..										
49 Silver and Summer Lakes area (1).....acres..										
50 Lake Abert area (2).....acres..										
51 Cowhead and Warner Lakes area (3).....acres..										
52 Central desert area (5).....acres..										
53 Malheur Lake area.....acres..										
54 Silvies River (6a).....acres..										
55 Harney Lake (6b).....acres..										
56 Donner and Blitzen River (6c).....acres..										
57 Trout and Whitehorse Creeks (7).....acres..										
58 Quinn River (8).....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.

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

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

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Excluding Columbia River (I-A)							
			Total	Pacific Coast direct (1)	Rogue River				Bear Creek (4d)	
					Total	Rogue River direct (4a)	Illinois River (4b)	Applegate River (4c)		
ALL ENTERPRISES										
Farms and land irrigated:										
1 All irrigation enterprises.....enterprises 1950..	8,235	7,640	1,504	806	698	346	68	143	144	
2	5,884	5,301	986	408	578	(*)	112	(*)	(*)	
3 Interbasin.....enterprises 1950..	46	32	4	.....	4	3	.....	1	3
4 Farms irrigated direct per enterprise ¹.....farms 1950..	2.5	2.4	2.9	1.0	5.1	5.3	1.7	2.7	8.2	
5 Irrigated land ².....acres 1949..	1,337,517	856,788	86,107	15,172	70,935	34,905	4,075	12,466	19,489	
6	1,049,176	694,568	71,884	6,940	64,944	28,252	5,056	9,569	22,067	
7 Average per enterprise.....acres 1949..	162	112	57	19	102	101	60	87	135	
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	164	113	58	19	102	101	60	88	137	
Type of enterprise, 1950:										
9 Single-farm.....enterprises..	7,480	6,959	1,373	800	573	303	48	98	124	
10	612,526	321,311	33,087	14,543	18,544	10,412	2,062	3,563	2,507	
Mutual:										
11 Unincorporated.....enterprises..	580	524	106	4	102	30	20	38	14	
12	218,868	142,914	14,578	322	14,256	4,132	2,013	6,592	1,519	
13 Incorporated.....enterprises..	117	112	16	2	14	6	.....	7	1
14	117,748	101,452	4,530	(³)	4,223	1,586	.....	2,481	(³)
Commercial:										
15 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17 District.....enterprises..	47	37	7	.....	7	7	.....	.....	3
18	252,069	203,622	34,335	.....	34,335	18,909	.....	.....	15,426
19 U. S. Bureau of Reclamation ⁴.....enterprises..	5	4	.....	.....	.....	.....	.....	.....	.....
20	147,715	96,180	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..	3	1	.....	.....	.....	.....	.....	.....	.....
22	2,163	154	.....	.....	.....	.....	.....	.....	.....
23 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25 City.....enterprises..	3	3	2	.....	2	.....	.....	.....	2
26	489	489	(³)	.....	(³)	.....	.....	.....	(³)
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
27 Gravity only.....enterprises reporting..	2,888	2,520	500	116	384	177	49	104	57	
28	863,408	557,408	59,154	2,218	56,936	24,359	3,413	10,534	18,630	
29 Pumped only.....enterprises reporting..	3,552	3,009	795	615	180	103	10	26	41	
30	134,797	78,855	17,781	11,975	5,806	2,791	180	2,003	832	
31 Gravity and pumped.....enterprises reporting..	203	184	42	18	24	17	3	.....	4
32	247,805	170,178	8,285	261	8,024	7,559	404	.....	61
33 Ground water only (pumped from wells).....enterprises reporting..	1,617	1,574	107	37	70	26	3	8	33	
34	34,008	30,701	665	330	335	77	23	34	201	
35 Surface (gravity or pumped) and ground water...enterprises reporting..	375	353	60	20	40	23	3	5	9	
36	71,284	28,980	832	388	444	253	55	65	71	
Stored water:										
37 None stored.....enterprises reporting..	7,758	7,232	1,380	762	618	297	65	130	126	
38	889,487	522,352	62,264	14,310	47,954	28,279	3,793	11,948	3,934	
39 Part stored.....enterprises reporting..	237	200	47	15	32	24	1	3	7	
40	356,530	327,936	22,704	202	22,502	6,396	257	266	15,583	
41 All stored.....enterprises reporting..	240	208	77	29	48	25	2	10	11	
42	105,561	15,834	1,749	660	1,089	364	25	422	278	
Sources of surface water, 1949:⁵										
43 Streams (and lakes).....enterprises reporting..	5,948	5,435	1,266	716	550	283	54	126	90	
44	1,296,731	819,838	84,725	14,459	70,266	34,697	3,761	12,510	19,298	
45 Springs.....enterprises reporting..	569	512	112	48	64	40	11	7	6	
46	77,696	20,844	1,193	361	832	340	271	52	169	
47 Flowing wells.....enterprises reporting..	77	52	6	3	3	.....	.....	.....	.....
48	54,788	7,340	46	39	7	.....	.....	.....	.....
49 Drainage water.....enterprises reporting..	333	307	62	24	38	15	1	4	18	
50	110,851	37,702	704	223	481	230	25	76	150	
51 Sewage.....enterprises reporting..	11	10	.....	.....	.....	.....	.....	.....	.....
52	2,074	2,026	.....	.....	.....	.....	.....	.....	.....
53 Other sources.....enterprises reporting..	2	2	.....	.....	.....	.....	.....	.....	.....
54	46	46	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶										
Irrigated land drained:										
55 Enterprises reporting.....enterprises 1949..	1,029	951	161	119	42	23	6	5	8	
56 Area supplied primary irrigation.....acres 1949..	434,953	263,081	31,430	2,527	28,803	13,025	1,540	959	13,279	
57 Area artificially drained.....acres 1949..	226,008	80,904	6,201	1,340	4,861	2,248	462	66	2,085	
58	126,671	49,866	631	187	444	(*)	(*)	(*)	(*)	
Irrigated land in need of drainage:										
59 Enterprises reporting.....enterprises 1949..	1,051	942	145	55	90	46	12	22	10	
60 Area supplied primary irrigation.....acres 1949..	449,430	270,671	32,043	1,875	30,168	12,579	1,292	3,096	13,201	
61 Area in need of drainage.....acres 1949..	81,485	42,452	7,365	425	6,940	2,543	408	343	3,646	
62	18,786	10,724	333	115	218	(*)	(*)	(*)	(*)	

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)	Columbia River								
	Total	Columbia River below Snake River (I-B)							
		Total	Columbia River direct			Willamette River			
			Total	Below The Dalles (1a)	Above The Dalles (1b)	Total	Below Salem (2a)	Salem to Albany (2b)	Above Albany (2c)
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	6,136	4,760	443	346	97	2,995	1,318	700	977
2 1940..	4,315	2,769	(*)	(*)	(*)	1,064	(*)	(*)	(*)
3 Interbasin.....enterprises 1950..	28	11	2	2	2				
4 Farms irrigated direct per enterprise ¹.....farms 1950..	2.3	1.9	1.7	1.3	3.1	1.1	1.1	1.1	1.1
5 Irrigated land ².....acres 1949..	770,681	354,841	23,805	11,026	12,779	73,585	31,006	23,041	19,538
6 1939..	622,684	260,183	13,845	4,001	9,844	26,080	11,396	6,981	7,703
7 Average per enterprise.....acres 1949..	126	75	54	32	132	25	24	33	20
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	127	75	54	32	132	25	24	33	20
Type of enterprise, 1950:									
9 Single-farm.....enterprises..	5,586	4,544	415	333	82	2,980	1,312	695	973
10 acres irrigated..	288,224	170,794	13,164	9,428	3,736	69,450	30,079	21,524	17,847
Mutual:									
11 Unincorporated.....enterprises..	418	150	18	6	12	3	2		
12 acres irrigated..	128,336	20,555	1,362	608	754	892	(3)		(3)
13 Incorporated.....enterprises..	96	42	5	5		10	3	4	3
14 acres irrigated..	96,922	30,915	693	693		3,185	159	1,409	1,617
Commercial.....enterprises.....									
15 acres irrigated..									
16 District.....enterprises..	30	20	4	1	3	2	1	1	
17 acres irrigated..	169,287	97,752	8,289	(3)	8,289	(3)	(3)	(3)	
18 U. S. Bureau of Reclamation ⁴.....enterprises..	4	2							
19 acres irrigated..	96,180	36,433							
20 U. S. Bureau of Indian Affairs ⁴.....enterprises..	1	1							
21 acres irrigated..	154	154							
22 State.....enterprises..									
23 acres irrigated..									
24 City.....enterprises..	(3)	(3)	(3)	(3)					
25 acres irrigated..									
26 Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
27 Gravity only.....enterprises reporting..	2,020	972	131	63	68	130	50	31	49
28 acres irrigated..	498,254	201,472	13,332	1,464	11,868	4,656	646	1,955	2,055
29 Pumped only.....enterprises reporting..	2,214	2,055	188	177	11	1,588	881	325	382
30 acres irrigated..	61,074	51,063	6,433	5,960	473	34,379	20,926	7,178	6,275
31 Gravity and pumped.....enterprises reporting..	142	104	26	21	5	19	6	6	7
32 acres irrigated..	161,893	58,218	654	438	216	647	107	113	427
33 Ground water only (pumped from wells).....enterprises reporting..	1,467	1,369	77	70	7	1,064	322	293	449
34 acres irrigated..	30,036	27,858	2,438	2,335	103	21,266	4,958	9,672	6,636
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	293	260	21	15	6	194	59	45	90
36 acres irrigated..	28,148	18,294	953	834	119	12,692	4,413	4,128	4,151
Stored water:									
37 None stored.....enterprises reporting..	5,852	4,590	426	333	93	2,899	1,255	679	965
38 acres irrigated..	460,088	227,194	21,900	10,813	11,087	70,597	28,943	22,639	19,015
39 Part stored.....enterprises reporting..	153	78	8	6	2	28	14	10	4
40 acres irrigated..	305,232	123,335	1,781	99	1,682	793	611	148	34
41 All stored.....enterprises reporting..	131	92	9	7	2	68	49	11	8
42 acres irrigated..	14,085	6,376	129	119	10	2,250	1,496	259	495
Sources of surface water, 1949:⁵									
43 Streams (and lakes).....enterprises reporting..	4,169	2,995	261	179	82	1,731	881	370	480
44 acres irrigated..	735,113	318,879	17,419	4,840	12,579	49,658	24,896	12,832	11,930
45 Springs.....enterprises reporting..	400	293	44	35	9	152	75	32	45
46 acres irrigated..	19,651	8,342	509	397	112	2,259	732	483	1,044
47 Flowing wells.....enterprises reporting..	46	32	5	5		15	6	1	8
48 acres irrigated..	7,294	1,258	223	223		256	117	8	131
49 Drainage water.....enterprises reporting..	245	176	71	70	1	79	57	12	10
50 acres irrigated..	36,998	12,627	3,611	3,606	5	2,087	934	155	998
51 Sewage.....enterprises reporting..	10	8				4	3		1
52 acres irrigated..	2,026	576				55	53		2
53 Other sources.....enterprises reporting..	2	2				2	1	1	
54 acres irrigated..	46	46				46	10	36	
Drainage of irrigated land:⁶									
Irrigated land drained:									
55 Enterprises reporting.....enterprises 1949..	792	691	89	87	2	548	415	87	46
56 Area supplied primary irrigation.....acres 1949..	242,825	75,795	5,598	3,761	1,837	19,753	13,462	4,273	2,018
57 Area artificially drained.....acres 1949..	87,617	26,042	4,430	3,424	1,006	11,341	8,148	1,853	1,340
58 acres 1939..	49,235	5,773	(*)	(*)	(*)	2,200	(*)	(*)	(*)
Irrigated land in need of drainage:									
59 Enterprises reporting.....enterprises 1949..	797	636	44	40	4	474	292	112	70
60 Area supplied primary irrigation.....acres 1949..	238,628	67,958	6,886	1,384	5,502	18,362	10,056	5,212	3,094
61 Area in need of drainage.....acres 1949..	35,087	15,991	3,673	664	3,009	8,283	3,326	2,862	2,095
62 acres 1939..	10,391	4,285	(*)	(*)	(*)	857	(*)	(*)	(*)

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

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]

Columbia River--Continued																	
Columbia River below Snake River (I-B)--Continued											Snake River below Weiser, Idaho (I-E)						
Hood River	Deschutes River					John Day River			Uma-tilla River	Walla Walla River	Total	Snake River Direct	Grande Ronde River				
	Total	Deschutes River direct below Madras	Deschutes River direct above Madras	Crooked River	Squaw Creek	Total	Below Dayville	Above Dayville					Total	Grande Ronde River direct	Wallowa River	Pine Creek	
(3)	(5a)	(5b)	(5c)	(5d)	(6a)	(6b)	(7)	(8)	(1)	(2a)	(2b)	(4)					
232	241	57	51	115	21	385	212	174	130	337	951	60	353	173	180	103	1
83	(*)	(*)	(*)	(*)	13	(*)	(*)	(*)	(*)	349	(*)	(*)	444	246	198	(*)	2
1	6	2	3	4	.....	4	2	3	1	.....	5	1	1	1	1	1	3
4.7	8.2	5.2	23.4	3.5	4.3	1.4	1.1	1.8	5.3	2.6	2.7	1.2	2.8	2.2	3.4	3.4	4
19,696	147,367	20,255	66,325	51,304	9,483	43,873	17,116	26,757	29,738	16,777	210,102	3,629	60,506	16,016	44,490	14,687	5
25,066	104,128	10,268	44,490	41,690	7,680	43,525	24,989	18,536	31,774	15,765	202,402	6,774	64,701	18,505	46,196	14,291	6
85	611	355	1,300	446	452	114	81	154	229	50	221	60	171	93	247	143	7
85	612	355	1,305	446	452	114	81	155	229	54	224	61	173	93	250	147	8
218	203	45	44	102	13	331	201	131	112	286	647	52	247	130	117	53	9
4,421	33,176	4,430	2,699	24,859	1,188	34,943	16,296	18,647	8,879	6,761	56,711	2,828	9,849	3,761	6,088	2,365	10
5	21	6	2	7	6	50	10	40	9	44	251	6	74	33	41	45	11
307	4,753	1,801	(3)	901	1,524	7,585	838	6,747	626	5,030	99,294	650	17,723	6,747	10,976	8,658	12
3	8	2	2	3	1	4	1	3	5	7	49	1	31	10	21	5	13
2,400	13,954	(3)	(3)	2,773	(3)	1,510	(3)	1,510	2,721	6,452	48,454	(3)	28,640	5,527	23,113	4,098	14
.....
6	7	2	2	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12,668	59,837	(3)	(3)	22,780	(3)	.....	.....	.....	16,845	.....	8,984	(3)	(3)	.....	(3)	.....	15
.....
.....	1	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
.....	35,724	10,797	24,927	.....	.....	.....	.....	.....	709	.....	.....	.....	.....	.....	.....	.....	19
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	154	154	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
.....
.....
.....
.....
68	185	46	30	93	17	310	152	159	81	69	850	46	308	137	171	102	27
16,005	95,188	18,412	38,363	28,993	9,420	39,323	13,112	26,211	21,360	11,608	199,223	2,493	59,442	15,171	44,271	15,113	28
158	26	5	9	8	4	51	45	6	22	22	26	7	15	9	6	.....	29
3,586	1,678	138	197	1,265	78	2,302	1,987	315	2,095	590	2,861	742	652	238	414	.....	30
5	18	5	9	5	.....	20	11	9	14	3	21	6	8	5	3	.....	31
201	48,492	1,668	26,892	19,932	.....	2,125	1,747	378	6,053	46	5,097	415	779	515	264	.....	32
1	5	.....	.....	5	.....	.....	.....	.....	6	216	42	1	22	22	.....	.....	33
4	94	.....	.....	94	.....	.....	.....	.....	93	3,963	675	9	111	111	.....	.....	34
.....	7	1	3	4	.....	4	4	.....	7	27	12	.....	.....	.....	.....	.....	35
.....	2,146	37	1,080	1,029	.....	288	288	.....	179	2,036	5,587	.....	.....	.....	.....	.....	36
230	212	51	43	102	17	376	204	173	117	331	883	58	336	171	165	94	37
17,972	44,776	7,127	6,012	22,655	8,982	43,369	16,484	26,885	10,535	18,045	170,728	3,509	43,295	15,931	27,364	10,950	38
2	20	5	4	11	2	9	8	.....	12	1	45	2	11	.....	11	.....	39
1,824	98,926	12,567	57,902	27,978	479	669	650	19	19,218	124	37,249	150	17,380	.....	17,380	3,741	40
.....	9	1	4	2	.....	.....	.....	.....	1	5	23	.....	6	2	4	.....	41
.....	3,896	561	2,618	680	37	.....	.....	.....	27	74	5,466	.....	309	104	205	430	42
203	226	54	49	109	17	377	207	171	116	84	847	56	292	130	162	92	43
19,433	147,223	20,171	66,492	51,210	9,350	43,825	17,018	26,807	29,587	11,734	210,564	3,631	59,676	15,446	44,230	14,539	44
27	17	4	4	4	5	14	10	4	6	33	95	4	55	34	21	8	45
388	1,832	121	103	1,059	549	377	225	152	718	2,259	7,739	229	2,495	1,496	999	190	46
.....	2	.....	.....	2	.....	5	4	1	3	2	8	.....	3	2	1	.....	47
.....	86	.....	.....	86	.....	140	80	60	199	354	3,759	.....	417	227	190	.....	48
9	4	1	2	.....	1	4	.....	4	8	1	21	.....	8	1	7	6	49
198	547	.....	517	.....	30	555	.....	555	5,593	36	5,613	.....	740	37	703	619	50
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	1	1	.....	.....	51
.....	.....	.....	.....	.....	.....	39	39	.....	.....	482	1,050	.....	1,050	1,050	.....	.....	52
.....
.....
27	3	.....	1	2	.....	10	2	8	3	14	52	.....	22	9	13	7	55
7,823	25,211	.....	25,102	109	.....	3,785	170	3,615	12,893	732	25,601	.....	11,413	4,946	6,467	721	56
594	1,079	.....	1,060	19	.....	761	40	721	7,433	404	3,934	.....	1,967	973	994	65	57
58	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	57	47	10	(*)	58
38	15	3	.....	9	3	50	15	35	7	10	121	1	46	7	39	18	59
7,921	10,780	852	.....	9,382	546	10,936	2,526	8,410	12,358	715	54,078	180	29,550	2,244	23,306	1,674	60
585	890	106	.....	669	115	1,319	208	1,111	1,043	198	9,539	30	2,791	588	2,203	115	61
13	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	233	80	153	(*)	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)	Columbia River—Continued								
	Snake River below Weiser, Idaho (I-E)—Continued				Snake River above Weiser, Idaho (I-F)				
	Powder River			Burnt River (6)	Total	Snake River direct (1)	Malheur River		
	Total	Below Thief Valley Reservoir (5a)	Above Thief Valley Reservoir (5b)				Total	Malheur River direct below Warm Springs (4a)	
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	334	57	279	102	426	185	185	104
2	1940..	392	(*)	(*)	97	(*)	(*)	(*)	(*)
3	Interbasin.....enterprises 1950..	3	2	3	.....	13	5	6	5
4	Farms irrigated direct per enterprise ¹.....farms 1950..	2.9	5.4	2.3	1.9	6.1	8.2	5.2	6.0
5	Irrigated land ².....acres 1949..	103,832	24,190	79,642	27,448	205,738	93,567	84,959	50,734
6	acres 1939..	93,161	25,806	67,355	23,475	160,099	74,436	69,991	53,378
7	Average per enterprise.....acres 1949..	311	424	285	269	483	506	459	488
8	Average acreage irrigated direct per enterprise ¹.....acres 1949..	315	426	290	278	491	508	464	491
Type of enterprise, 1950:									
9	Single-farm.....enterprises..	220	36	186	75	396	175	171	94
10	acres irrigated..	31,737	4,196	27,541	9,932	60,719	11,189	30,621	14,941
Mutual:									
11	Unincorporated.....enterprises..	102	16	86	24	17	4	8	6
12	acres irrigated..	54,507	8,165	46,342	17,756	8,487	662	3,988	3,442
13	Incorporated.....enterprises..	10	4	6	2	5	2	3	1
14	acres irrigated..	14,881	7,717	7,164	(³)	17,553	(³)	4,830	(³)
15	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
16	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
17	District.....enterprises..	2	1	1	1	6	3	2	2
18	acres irrigated..	(³)	(³)	(³)	(³)	62,551	9,644	(³)	(³)
19	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	2	1	1	1
20	acres irrigated..	.....	.....	.....	.....	59,747	59,747	.....	.....
21	U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
22	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
23	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
24	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
25	City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
26	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
27	Gravity only.....enterprises reporting..	299	52	248	96	199	30	121	57
28	acres irrigated..	97,102	22,884	74,218	25,073	97,559	6,990	63,101	33,387
29	Pumped only.....enterprises reporting..	2	1	1	2	133	108	19	18
30	acres irrigated..	1,453	15	1,438	14	7,150	5,323	608	596
31	Gravity and pumped.....enterprises reporting..	6	2	5	1	17	11	6	4
32	acres irrigated..	3,835	1,054	2,781	68	98,578	78,632	19,946	16,517
33	Ground water only (pumped from wells).....enterprises reporting..	19	.....	19	.....	56	24	31	20
34	acres irrigated..	555	.....	555	.....	1,503	641	857	229
35	Surface (gravity or pumped) and ground water...enterprises reporting..	8	2	6	3	21	12	8	5
36	acres irrigated..	2,392	337	2,055	3,187	4,267	2,379	1,348	379
Stored water:									
37	None stored.....enterprises reporting..	310	44	267	85	379	176	160	87
38	acres irrigated..	97,858	18,720	79,138	15,116	62,166	11,135	32,431	16,301
39	Part stored.....enterprises reporting..	17	8	10	10	31	7	18	11
40	acres irrigated..	5,238	3,344	1,894	10,740	144,648	82,807	52,295	33,685
41	All stored.....enterprises reporting..	7	5	2	7	16	2	7	6
42	acres irrigated..	2,241	2,226	15	2,486	2,243	23	1,134	1,122
Sources of surface water, 1949:⁵									
43	Streams (and lakes).....enterprises reporting..	307	54	255	101	228	127	146	76
44	acres irrigated..	104,419	24,120	80,299	28,299	205,670	92,121	84,322	50,198
45	Springs.....enterprises reporting..	26	4	22	2	12	3	7	4
46	acres irrigated..	4,574	205	4,369	251	3,570	1,532	1,063	845
47	Flowing wells.....enterprises reporting..	3	1	2	2	6	2	3	1
48	acres irrigated..	227	70	157	3,115	2,277	31	1,261	30
49	Drainage water.....enterprises reporting..	7	.....	7	.....	48	41	6	6
50	acres irrigated..	4,254	.....	4,254	.....	18,758	17,815	636	636
51	Sewage.....enterprises reporting..	.....	.....	.....	.....	1	.....	.....	.....
52	acres irrigated..	.....	.....	.....	.....	400	.....	.....	.....
53	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
54	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶									
Irrigated land drained:									
55	Enterprises reporting.....enterprises 1949..	20	4	16	3	47	35	11	8
56	Area supplied primary irrigation.....acres 1949..	11,651	6,182	5,469	1,816	141,429	83,727	51,216	33,371
57	Area artificially drained.....acres 1949..	1,794	712	1,082	108	57,641	33,589	23,552	20,344
58	acres 1939..	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)
Irrigated land in need of drainage:									
59	Enterprises reporting.....enterprises 1949..	53	9	45	3	38	20	18	8
60	Area supplied primary irrigation.....acres 1949..	24,846	9,890	14,956	1,828	116,592	79,697	36,895	16,724
61	Area in need of drainage.....acres 1949..	6,463	1,771	4,692	140	9,557	5,436	4,121	2,176
62	acres 1939..	.....	(*)	(*)	.....	(*)	(*)	(*)	(*)

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

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]

Columbia River—Continued					South Pacific Coast, total	Klamath River (II-A)						Sacramento River (II-D), Goose Lake	Great Basin (Northwest Great Basin) (III-A)			
Snake River above Weiser, Idaho (I-F)—Continued						Total	Klamath River direct	Lower Klamath Lake	Lost River	Upper Klamath Lake	Williamson River		Total	Silver and Summer Lakes area	Lake Abert area	
Malheur River		Owyhee River														
Malheur River direct above Warm Springs (4b)	Willow Creek (4c)	Total	Owyhee River direct (5a)	Jordan Creek (5b)		(1)	(5)	(6)	(7)	(8)	(9c)	(1)	(2)			
(*) 32	(*) 52	(*) 56	(*) 23	34	347	285	7	57	124	43	59	62	261	27	25	1
1	3	2	2	14	277	187	(*)	(*) 2	(*) 2	(*) 5	(*) 7	90	313	(*) 4	20	2
				1	12	11						1	15		2	3
1.7	5.6	2.0	1.0	2.6	4.5	4.7	1.0	6.6	6.2	2.3	1.5	3.2	1.4	1.4	1.6	4
11,453	22,772	27,212	4,122	23,090	244,980	219,595	243	43,608	77,241	40,983	57,520	25,385	235,749	18,176	30,695	5
10,890	5,723	15,672	5,416	10,256	184,788	162,866	1,378	38,871	52,767	36,838	33,012	21,922	169,820	9,722	27,389	6
358	438	486	179	679	706	771	35	765	623	953	975	409	903	673	1,228	7
367	442	522	181	738	717	784	46	770	631	960	1,014	409	906	673	1,228	8
29	49	50	22	29	304	252	7	48	117	27	55	52	229	25	21	9
9,182	6,498	18,909	3,996	14,913	111,929	100,011	323	6,439	12,628	27,921	53,570	11,918	179,286	15,333	16,931	10
(3) 2		5	(3) 1	4	25	16		3		12	(3) 1	9	31	(3) 1	4	11
(3) 1	(3) 1	3,837		3,681	20,280	15,903		226		13,862	(3) 1	4,377	55,674		13,764	12
(3) 1	(3) 1				5	4		1	(3) 1	(3) 1	(3) 1	(3) 1				13
					16,296	7,206		(3) 1	(3) 1	(3) 1	(3) 1	(3) 1				14
																15
																16
	(3) 2	(3) 1		(3) 1	10	10		4	5							17
					46,814	46,814		22,684	24,130	(3) 1			(3) 1	(3) 1		18
																19
					1	1		1	1							20
					51,535	51,535		13,961	37,574							21
					2	2				1	2					22
					2,009	2,009				314	1,695					23
																24
																25
																26
																27
30	36	48	18	31	134	78	3	3	14	22	38	56	244	25	25	27
10,082	19,632	27,468	3,783	23,685	95,382	70,178	174	819	2,621	27,797	38,767	25,204	210,894	16,516	30,695	28
					141	138		38	79	14	4	3				29
					54,939	54,807	149	27,698	19,201	6,626	1,133	132	1,003			30
					18	18		4	9	6	1					31
1,020	2,409				74,377	74,377		14,946	52,491	6,460	480		3,250			32
																33
	11	1		1	37	35		7	19		9	2	6			34
	628	5		5	3,085	3,076		151	2,598		327	9	222			35
	1	2		1	17	16		5	3		1	7	6	2		36
651	318	540		540	21,080	21,040		272	1,275	400	19,093	40	21,224	1,660		37
29	44	43	13	30	305	249	7	53	102	38	52	56	232	22	23	38
10,172	5,958	18,600	2,121	16,479	148,201	133,156	323	26,289	12,663	39,007	54,874	15,045	218,934	17,215	29,605	39
3	7	6	3	3	19	17		1	7	4	5	2	20	4	2	40
1,581	17,029	9,546	1,075	8,471	18,485	18,155		82	12,690	2,276	3,107	330	10,109	926	1,090	41
					23	19		3	15	1	2	4		1		42
	1.2	1,086	956	130	82,177	72,167		17,515	52,833		1,819	10,010	7,550	35		43
																44
32	41	55	23	33	284	228	4	46	96	42	45	56	242	23	25	45
11,753	22,371	29,227	4,152	25,075	243,009	217,887	181	43,382	73,936	41,235	59,153	25,122	233,884	17,514	30,695	46
					30	24		5	8	4	6	6	28	8	3	47
					20,988	18,584	32	1,286	9,201	6,430	1,635	2,404	35,864	8,034	1,438	48
																49
2		1		1	14	8	1	1	1			6	12	7		50
1,231		985		985	19,391	17,343	32	264	887		16,160	2,048	28,057	7,572		51
					1	16	2	5	6		2	3	4	1		52
		307		307	70,369	69,365	110	15,002	37,905	48	16,300	1,004	2,780	1,400		53
																54
																55
																56
2	3	1		1	69	66	1	15	21	18	10	5	11	2		57
3,045	14,800	6,486		6,486	148,285	137,687	130	39,733	61,012	14,139	22,673	10,698	24,930	1,900		58
100	3,108	500		500	126,546	126,036	60	38,336	56,742	11,583	19,315	510	20,001	467		59
(*)	(*)	(*)	(*)		71,955	71,955	(*)	(*)	(*)	(*)	(*)		4,850	(*)		60
																61
9	2				65	48	2	9	20	13	6	17	45	3	13	62
4,351	15,820				112,783	97,909	160	17,137	53,520	11,816	15,276	14,874	65,976	835	26,800	63
405	1,540				21,408	19,500	80	3,561	9,614	3,732	2,513	1,908	17,625	340	4,387	64
(*)	(*)	(*)	(*)		8,062	8,004	(*)	(*)	(*)	(*)	(*)	58		(*)		65

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Great Basin (Northwest Great Basin) (III-A)—Continued							
	Cowhead and Warner Lakes area	Central Desert area	Malheur Lake area				Trout and Whitehorse Creeks	Quinn River
			Total	Silvies River	Harney Lake	Donner and Blitzen River		
	(3)	(5)	(6a)	(6b)	(6c)	(7)	(8)	
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	30	8	137	99	18	21	27	10
2 1940..	(*)	(*)	(*)	107	10	(*)	(*)	18
3 Interbasin.....enterprises 1950..	2	2	7	7	1	.....	1	.....
4 Farms irrigated direct per enterprise ¹.....farms 1950..	1.5	0.8	1.5	1.6	0.9	1.6	1.0	0.8
5 Irrigated land ².....acres 1949..	50,229	2,543	110,236	68,723	9,783	31,730	16,890	6,980
6 1939..	33,278	889	79,463	53,156	9,182	17,125	11,960	7,119
7 Average per enterprise.....acres 1949..	1,674	318	805	694	544	1,511	626	698
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	1,674	318	811	703	544	1,511	626	698
Type of enterprise, 1950:								
9 Single-farm.....enterprises..	26	8	115	78	18	20	27	10
10 acres irrigated..	34,480	2,543	86,129	52,267	9,783	24,079	16,890	6,980
11 Mutual:								
12 Unincorporated.....enterprises..	4	.....	22	21	.....	1	.....	.....
13 acres irrigated..	15,749	.....	24,951	17,300	.....	(³)	.....	.....
14 Incorporated.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
15 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
16 Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
17 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
18 District.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
19 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
20 U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
21 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
22 U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
23 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
24 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
25 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
26 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
27 Surface water:								
28 Gravity only.....enterprises reporting..	26	4	130	92	18	21	26	10
29 acres irrigated..	30,275	2,457	107,231	65,718	9,783	31,730	16,740	6,980
30 Pumped only.....enterprises reporting..	1	.....	1	1	.....	.....	.....	.....
31 acres irrigated..	1,000	.....	3	3	.....	.....	.....	.....
32 Gravity and pumped.....enterprises reporting..	.....	.....	2	2	.....	.....	1	.....
33 acres irrigated..	.....	.....	3,100	3,100	.....	.....	150	.....
34 Ground water only (pumped from wells).....enterprises reporting..	.....	4	2	2	.....	.....	.....	.....
35 acres irrigated..	.....	86	136	136	.....	.....	.....	.....
36 Surface (gravity or pumped) and ground water.....enterprises reporting..	3	.....	2	2	.....	.....	.....	.....
37 acres irrigated..	18,954	.....	610	610	.....	.....	.....	.....
38 Stored water:								
39 None stored.....enterprises reporting..	22	6	130	93	17	21	23	9
40 acres irrigated..	42,539	726	106,304	64,931	9,643	31,730	16,365	6,180
41 Part stored.....enterprises reporting..	3	1	6	5	1	.....	3	1
42 acres irrigated..	1,950	157	4,701	4,561	140	.....	485	800
43 All stored.....enterprises reporting..	5	1	1	1	.....	.....	1	.....
44 acres irrigated..	5,740	1,660	75	75	.....	.....	40	.....
45 Sources of surface water, 1949: ⁵								
46 Streams (and lakes).....enterprises reporting..	27	4	131	93	18	21	25	10
47 acres irrigated..	49,149	2,457	110,449	68,936	9,783	31,730	16,640	6,980
48 Springs.....enterprises reporting..	3	2	9	7	1	.....	4	.....
49 acres irrigated..	1,290	637	19,585	3,385	1,000	15,000	4,860	.....
50 Flowing wells.....enterprises reporting..	1	.....	2	.....	.....	.....	2	.....
51 acres irrigated..	18,260	.....	1,580	1,580	.....	.....	645	.....
52 Drainage water.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....	.....
53 acres irrigated..	1,380	.....	.....	.....	.....	.....	.....	.....
54 Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
55 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
56 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
58 Drainage of irrigated land: ⁶								
59 Irrigated land drained:								
60 Enterprises reporting.....enterprises 1949..	2	.....	8	3	.....	5	.....	.....
61 Area supplied primary irrigation.....acres 1949..	19,760	.....	3,270	2,120	.....	1,150	.....	.....
62 Area artificially drained.....acres 1949..	18,500	.....	1,034	250	.....	784	.....	.....
63 acres 1939..	(*)	(*)	(*)	.....	.....	(*)	(*)	.....
64 Irrigated land in need of drainage:								
65 Enterprises reporting.....enterprises 1949..	7	.....	17	16	1	1	5	.....
66 Area supplied primary irrigation.....acres 1949..	19,919	.....	13,612	12,112	800	700	4,810	.....
67 Area in need of drainage.....acres 1949..	5,270	.....	6,588	6,258	300	30	1,040	.....
68 acres 1939..	(*)	(*)	(*)	.....	.....	(*)	(*)	.....

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

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

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

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Excluding Columbia River (I-A)							
			Total	Pacific Coast direct (1)	Rogue River				Bear Creek (4d)	
					Total	Rogue River direct (4a)	Illinois River (4b)	Applegate River (4c)		
ALL ENTERPRISES										
Irrigation works:										
1	Diversion dams.....enterprises reporting 1950..	3,243	2,879	584	170	414	215	50	96	56
2	dams 1950..	6,231	5,027	667	184	483	240	58	111	74
3	1940..	5,097	4,258	431	137	294	(*)	35	(*)	(*)
Diversion dams by material:										
4	Concrete or masonry.....dams 1950..	866	740	111	11	100	50	8	22	20
5	Timber.....dams 1950..	1,061	813	120	37	83	34	11	25	13
6	Earth and rock.....dams 1950..	3,764	3,062	368	101	267	138	35	55	39
7	Other, mixed, and not reported.....dams 1950..	540	412	68	35	33	18	4	9	2
8	Reservoirs.....enterprises reporting 1950..	411	347	110	42	68	39	3	12	15
9	reservoirs 1950..	528	427	123	47	76	44	3	13	16
10	1940..	257	196	43	11	32	(*)	8	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	471	380	110	41	69	40	2	13	14
12	total capacity, acre-feet 1950..	2,421,138	1,654,280	35,452	302	35,150	8,309	60	1,690	25,091
13	1940..	2,212,315	1,448,475	21,714	90	21,624	(*)	13	(*)	(*)
Reservoirs by capacity:										
14	1-99 acre-feet.....reservoirs 1950..	340	290	103	40	63	39	2	11	11
15	100-999 acre-feet.....reservoirs 1950..	79	56	3	1	2	.....	.....	1	1
16	1,000 acre-feet and over.....reservoirs 1950..	52	34	4	.....	4	1	.....	1	2
Reservoir dams by material:										
17	Concrete or masonry.....dams 1950..	51	38	12	3	9	5	.....	.....	4
18	Earth and rock.....dams 1950..	402	319	84	34	50	28	2	11	9
19	Other, mixed, and not reported.....dams 1950..	75	70	27	10	17	11	1	2	3
20	Canals and ditches.....enterprises reporting 1950..	1,880	1,689	372	68	304	129	47	93	38
21	total length, miles 1950..	8,406	7,137	1,353	62	1,291	599	84	246	362
22	1940..	8,518	7,017	1,068	91	977	(*)	103	(*)	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..	602	578	190	132	58	30	4	10	15
24	total length, miles 1950..	572	556	80	43	37	13	2	10	12
25	1940..	665	650	119	80	39	(*)	1	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	23	21	3	.....	3	1	2	.....	.....
27	total length, feet 1950..	77,496	74,020	442	.....	442	100	342	.....	.....
28	Flowing wells.....enterprises reporting 1950..	75	52	6	3	3	.....	.....	3	.....
29	wells 1950..	138	78	13	10	3	.....	.....	3	.....
30	1940..	76	16	4	2	2	(*)	.....	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	1,990	1,925	170	56	114	51	6	13	44
32	wells 1950..	2,770	2,694	201	67	134	63	7	13	51
33	1940..	901	880	37	16	21	(*)	3	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	2,508	2,440	175	58	117	56	6	11	44
35	Average pumping lift.....feet 1949..	35	35	44	27	52	83	11	37	22
36	1939..	35	(*)	24	(*)	25	(*)	10	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	5,327	5,100	998	685	313	168	19	38	88
38	pumps 1950..	6,893	6,518	1,183	799	384	217	20	42	105
39	1940..	2,265	2,117	364	248	116	(*)	5	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	3,435	3,275	585	394	191	96	10	27	58
41	electric motors 1950..	4,348	4,088	664	441	223	113	11	31	68
42	1940..	1,221	1,108	172	118	54	(*)	2	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	2,189	2,100	441	304	137	84	9	13	31
44	other motors and engines 1950..	2,476	2,366	491	341	150	95	9	13	33
45	1940..	1,054	1,018	190	126	64	(*)	3	(*)	(*)
Season of Irrigation, 1949:										
46	Water delivered only before July 1.....enterprises reporting..	458	352	13	6	7	3	.....	.....	4
47	acres irrigated..	143,785	72,333	482	57	425	123	.....	.....	302
48	Water delivered before and after July 1.....enterprises reporting..	6,746	6,295	1,277	627	650	321	64	139	129
49	acres irrigated..	1,139,748	765,875	82,975	12,595	70,380	34,723	4,010	12,513	19,134
50	Water delivered only after July 1.....enterprises reporting..	833	811	172	153	19	8	3	2	6
51	acres irrigated..	21,344	19,491	2,488	2,304	184	73	45	13	53
Capital investment:										
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	50,961,251	42,870,669	5,305,470	274,323	5,031,147	(*)	51,398	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
53	Enterprises reporting.....enterprises 1950..	5,095	4,755	1,014	605	409	222	31	63	95
54	Amount.....dollars 1950..	23,399,730	21,735,915	1,864,316	813,859	1,050,457	393,832	40,747	95,325	520,553
55	Area irrigated direct.....acres 1949..	847,215	520,981	57,144	11,707	45,437	26,313	2,242	7,365	9,517
56	Total capital investment Jan. 1, 1950.....dollars 1950..	74,360,981	64,606,584	7,169,786	1,088,182	6,081,604	(*)	92,145	(*)	(*)
Indebtedness:³										
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
57	Enterprises reporting.....enterprises 1950..	75	61	8	.....	8	6	.....	1	4
58	Amount.....dollars 1950..	38,262,112	35,724,726	1,302,236	.....	1,302,236	532,380	.....	3,736	766,120
59	1940..	14,329,768	12,049,240	1,236,206	.....	1,236,206	(*)	.....	(*)	(*)
60	Area irrigated direct.....acres 1949..	443,369	328,832	34,644	.....	34,644	18,530	.....	507	15,607
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
61	Enterprises reporting.....enterprises 1950..	6	5	.....	.....	.....	.....	.....	.....	.....
62	Amount.....dollars 1950..	534,412	504,412	.....	.....	.....	.....	.....	.....	.....
63	Area irrigated direct.....acres 1949..	25,997	24,324	.....	.....	.....	.....	.....	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Columbia River								
	Total	Columbia River below Snake River (I-B)							
		Total	Columbia River direct			Willamette River			
			Total	Below The Dalles (1a)	Above The Dalles (1b)	Total	Below Salem (2a)	Salem to Albany (2b)	Above Albany (2c)
ALL ENTERPRISES									
Irrigation works:									
1 Diversion dams.....enterprises reporting 1950..	2,395	1,287	186	109	77	356	175	72	109
2 Diversion dams.....dams 1950..	4,360	2,459	256	127	129	414	207	80	127
3 Diversion dams.....dams 1940..	3,827	1,902	(*)	(*)	(*)	172	(*)	(*)	(*)
Diversion dams by material:									
4 Concrete or masonry.....dams 1950..	629	358	115	21	94	35	15	3	17
5 Timber.....dams 1950..	693	352	33	18	15	57	35	4	18
6 Earth and rock.....dams 1950..	2,694	1,540	98	81	17	258	135	63	60
7 Other, mixed, and not reported.....dams 1950..	344	209	10	7	3	64	22	10	32
8 Reservoirs.....enterprises reporting 1950..	237	145	16	13	3	88	60	19	9
9 Reservoirs.....reservoirs 1950..	304	176	17	14	3	102	72	21	9
10 Reservoirs.....reservoirs 1940..	153	59	(*)	(*)	(*)	28	(*)	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	270	150	9	9	.....	91	66	17	8
12 Reservoirs.....total capacity, acre-feet 1950..	1,618,828	453,324	628	628	.....	1,820	1,718	59	43
13 Reservoirs.....total capacity, acre-feet 1940..	1,426,761	256,575	(*)	(*)	(*)	165	(*)	(*)	(*)
Reservoirs by capacity:									
14 1-99 acre-feet.....reservoirs 1950..	187	120	8	8	.....	87	.....	17	8
15 100-999 acre-feet.....reservoirs 1950..	53	22	1	1	.....	4	4	.....	.....
16 1,000 acre-feet and over.....reservoirs 1950..	30	8	.....	.....	.....	.....	.....	.....	.....
Reservoir dams by material:									
17 Concrete or masonry.....dams 1950..	26	16	.....	.....	1	10	7	3	.....
18 Earth and rock.....dams 1950..	235	130	12	11	1	71	50	14	7
19 Other, mixed, and not reported.....dams 1950..	43	30	4	3	1	21	15	4	2
20 Canals and ditches.....enterprises reporting 1950..	1,317	675	58	22	36	49	21	10	18
21 Canals and ditches.....total length, miles 1950..	5,784	2,862	150	37	113	279	43	94	142
22 Canals and ditches.....total length, miles 1940..	5,949	3,176	(*)	(*)	(*)	187	(*)	(*)	(*)
23 Pipelines and siphons.....enterprises reporting 1950..	388	349	62	56	6	219	110	38	71
24 Pipelines and siphons.....total length, miles 1950..	476	407	59	36	23	209	94	17	98
25 Pipelines and siphons.....total length, miles 1940..	531	474	(*)	(*)	(*)	278	(*)	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	18	9	.....	.....	.....	1	.....	.....	1
27 Tunnels.....total length, feet 1950..	73,578	11,455	.....	.....	.....	500	.....	.....	500
28 Flowing wells.....enterprises reporting 1950..	46	32	5	5	.....	15	6	1	8
29 Flowing wells.....wells 1950..	65	44	6	6	.....	20	7	1	12
30 Flowing wells.....wells 1940..	12	6	(*)	(*)	(*)	2	(*)	(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	1,755	1,624	97	84	13	1,253	377	337	539
32 Pumped wells.....wells 1950..	2,493	2,334	109	94	15	1,865	450	364	851
33 Pumped wells.....wells 1940..	843	726	(*)	(*)	(*)	443	(*)	(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	2,265	2,113	86	71	15	1,686	413	510	763
35 Wells for which pumping lift was reported.....feet 1949..	34	34	128	142	61	27	53	19	18
36 Wells for which pumping lift was reported.....feet 1939..	35	16	(*)	(*)	(*)	26	(*)	(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	4,102	3,777	310	280	30	2,857	1,265	668	924
38 Irrigation pumps.....pumps 1950..	5,335	4,924	393	352	41	3,727	1,527	963	1,237
39 Irrigation pumps.....pumps 1940..	1,753	1,477	(*)	(*)	(*)	1,012	(*)	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	2,690	2,415	201	185	16	1,737	796	392	549
41 Electric motors used for pumping.....electric motors 1950..	3,424	3,079	254	229	25	2,207	940	579	688
42 Electric motors used for pumping.....electric motors 1940..	936	759	(*)	(*)	(*)	446	(*)	(*)	(*)
43 Other motors and engines used for pumping.....enterprises reporting 1950..	1,659	1,602	118	104	14	1,349	549	329	471
44 Other motors and engines used for pumping.....other motors and engines 1950..	1,875	1,813	140	125	15	1,504	601	365	538
45 Other motors and engines used for pumping.....other motors and engines 1940..	828	716	(*)	(*)	(*)	564	(*)	(*)	(*)
Season of irrigation, 1949:									
46 Water delivered only before July 1.....enterprises reporting..	339	145	34	1	33	18	14	3	1
47 Water delivered only before July 1.....acres irrigated..	71,851	17,284	2,397	46	2,311	280	208	66	6
48 Water delivered before and after July 1.....enterprises reporting..	5,018	3,890	340	282	58	2,401	1,056	573	772
49 Water delivered before and after July 1.....acres irrigated..	682,900	319,945	20,070	9,752	10,318	63,043	26,285	20,481	16,277
50 Water delivered only after July 1.....enterprises reporting..	639	602	51	50	1	501	220	105	176
51 Water delivered only after July 1.....acres irrigated..	17,003	14,146	943	931	12	9,442	4,288	2,270	2,884
Capital investment:									
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	37,565,199	12,582,638	(*)	(*)	(*)	1,242,349	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53 Enterprises reporting.....enterprises 1950..	3,741	3,256	245	223	22	2,421	1,067	599	755
54 Enterprises reporting.....dollars 1950..	19,871,599	17,777,877	705,771	664,710	41,061	4,067,656	2,022,225	1,052,658	992,773
55 Area irrigated direct.....acres 1949..	463,837	218,473	15,003	8,001	7,002	61,252	26,150	19,124	15,978
56 Total capital investment Jan. 1, 1950.....dollars 1950..	57,436,798	30,360,515	(*)	(*)	(*)	5,310,005	(*)	(*)	(*)
Indebtedness:³									
57 Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
58 Enterprises reporting.....enterprises 1950..	53	30	4	1	3	4	1	1	2
59 Enterprises reporting.....dollars 1950..	34,422,490	14,031,942	864,017	11,000	853,017	130,380	54,380	70,000	6,000
60 Amount.....dollars 1940..	10,813,034	4,129,953	(*)	(*)	(*)	135,724	(*)	(*)	(*)
61 Area irrigated direct.....acres 1949..	294,188	136,835	8,314	25	8,289	1,982	650	105	1,227
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
62 Enterprises reporting.....enterprises 1950..	5	3	2	.....	2	.....	.....	.....	.....
63 Amount.....dollars 1950..	504,412	504,214	213,340	.....	213,340	.....	.....	.....	.....
Area irrigated direct.....acres 1949..	24,324	20,454	7,618	.....	7,618	.....	.....	.....	.....

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]

Columbia River—Continued																	
Columbia River below Snake River (I-B)—Continued										Snake River below Weiser, Idaho (I-E)							
Hood River (3)	Deschutes River					John Day River			Umatilla River (7)	Walla Walla River (8)	Total (1)	Snake River direct (1)	Grande Ronde River			Pine Creek (4)	
	Total	Deschutes River direct below Madras (5a)	Deschutes River direct above Madras (5b)	Crooked River (5c)	Squaw Creek (5d)	Total	Below Dayville (6a)	Above Dayville (6b)					Total	Grande Ronde River direct (2a)	Wallowa River (2b)		(4)
73	184	47	28	95	15	314	156	159	92	83	801	51	279	131	148	95	1
95	435	114	35	269	17	1,016	404	612	149	94	1,454	118	437	217	220	124	2
38	(*)	(*)	(*)	(*)	28	(*)	(*)	(*)	(*)	204	(*)	(*)	347	151	196	(*)	3
15	45	8	5	30	2	39	28	11	76	33	225	5	44	28	16	44	4
31	34	7	6	14	7	157	53	104	18	22	330	11	121	33	88	14	5
43	323	95	22	199	7	746	305	441	33	39	805	96	241	151	90	55	6
6	33	4	2	26	1	74	18	56	22	.....	94	6	31	5	26	11	7
2	25	4	6	11	4	10	10	.....	2	3	52	1	7	3	4	6	8
3	36	5	10	17	4	11	11	.....	2	5	70	2	9	4	5	7	9
5	(*)	(*)	(*)	(*)	3	(*)	(*)	(*)	(*)	.....	(*)	(*)	14	9	5	(*)	10
3	32	5	9	14	4	8	8	.....	2	5	67	2	9	4	5	6	11
1,710	323,480	2,520	272,408	48,401	151	1,803	1,803	.....	123,800	83	106,453	6,056	46,052	49	46,003	1,872	12
803	(*)	(*)	(*)	(*)	2,505	(*)	(*)	.....	(*)	.....	(*)	(*)	49,404	50	49,394	(*)	13
.....	16	1	6	6	3	4	4	.....	.....	5	43	1	7	4	3	2	14
3	10	3	.....	6	1	4	4	.....	.....	.....	18	.....	1	.....	1	4	15
.....	6	1	3	2	.....	.....	.....	.....	2	.....	6	1	1	.....	1	.....	16
.....	2	.....	1	.....	1	.....	.....	.....	1	2	5	.....	2	1	1	.....	17
3	29	5	8	13	3	11	11	.....	1	3	57	2	7	3	4	4	18
.....	5	.....	1	4	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	3	19
32	157	40	28	74	17	259	109	151	57	65	511	28	158	63	95	63	20
189	1,277	286	566	347	78	538	144	394	295	134	1,473	44	386	95	291	117	21
170	(*)	(*)	(*)	(*)	84	(*)	(*)	(*)	(*)	92	(*)	(*)	398	184	214	(*)	22
21	10	.....	6	5	1	18	9	9	10	9	22	2	9	8	1	.....	23
97	5	(*)	3	1	1	12	4	8	17	8	6	(2)	5	4	1	.....	24
24	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	18	(*)	(*)	6	5	1	(*)	25
3	3	1	1	1	.....	.....	.....	.....	2	.....	5	.....	1	1	.....	.....	26
627	9,250	400	7,750	1,100	.....	.....	.....	.....	1,078	.....	1,531	.....	21	21	.....	.....	27
.....	2	.....	2	2	.....	5	4	1	3	2	8	.....	3	2	1	.....	28
.....	(*)	(*)	(*)	(*)	.....	11	10	1	3	2	14	.....	8	2	6	.....	29
.....	.....	.....	.....	.....	.....	(*)	(*)	(*)	(*)	.....	(*)	(*)	.....	.....	.....	(*)	30
1	12	1	2	9	.....	5	5	.....	13	243	54	1	22	22	.....	1	31
1	18	1	4	13	.....	5	5	.....	14	322	67	1	25	25	.....	1	32
.....	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	200	(*)	(*)	70	67	3	(*)	33
1	16	1	4	11	.....	4	4	.....	13	307	65	1	25	25	.....	1	34
44	70	32	140	49	.....	32	32	.....	54	41	49	25	16	16	.....	13	35
.....	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	33	(*)	(*)	17	(*)	34	(*)	36
164	54	10	21	20	4	76	61	15	49	267	102	14	45	36	9	1	37
182	72	16	28	24	4	115	95	20	55	380	128	20	50	41	9	1	38
7	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	221	(*)	(*)	86	78	8	(*)	39
159	18	2	10	7	.....	20	14	6	25	255	72	10	27	22	5	1	40
175	24	3	13	8	.....	23	16	7	30	364	92	15	28	23	5	1	41
4	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	201	(*)	(*)	43	37	6	(*)	42
6	37	8	13	13	3	51	42	9	23	18	32	6	19	15	4	.....	43
6	49	10	17	19	3	71	60	11	25	18	34	6	21	17	4	.....	44
1	(*)	(*)	(*)	(*)	.....	(*)	(*)	(*)	(*)	20	(*)	(*)	44	42	2	(*)	45
.....	22	4	1	17	.....	35	31	4	31	5	126	3	14	14	.....	3	46
.....	7,124	1,998	45	5,081	.....	2,882	2,721	161	3,802	839	30,761	122	1,452	1,452	.....	93	47
223	201	49	42	94	19	343	175	169	92	293	788	56	314	137	177	94	48
19,659	136,686	18,192	63,275	46,139	9,080	40,776	14,165	26,611	25,943	13,768	179,838	3,539	58,259	13,696	44,563	13,575	49
5	4	1	2	1	.....	2	2	.....	4	35	32	1	23	20	3	6	50
37	69	4	52	13	.....	17	17	.....	33	3,605	2,772	2	1,272	886	386	1,453	51
871,919	(*)	(*)	(*)	(*)	193,682	(*)	(*)	(*)	(*)	350,857	(*)	(*)	623,751	157,293	466,458	(*)	52
170	110	27	16	58	10	114	68	46	48	149	228	15	97	50	47	13	53
179,243	12,411,539	909,200	10,749,996	737,343	15,000	134,114	80,852	53,262	81,180	198,374	400,026	17,680	137,364	69,614	67,750	11,714	54
11,074	97,083	16,824	55,306	23,897	1,056	14,437	4,873	9,564	10,421	9,203	86,796	1,088	31,129	9,148	21,981	4,983	55
1,051,162	(*)	(*)	(*)	(*)	208,682	(*)	(*)	(*)	(*)	549,231	(*)	(*)	761,115	226,907	534,208	(*)	56
6	12	5	4	4	1	.....	.....	.....	4	1	15	.....	6	.....	6	1	57
96,327	12,011,040	3,401,162	8,121,300	453,078	35,500	.....	.....	.....	910,978	19,200	654,488	.....	45,998	.....	45,998	250	58
191,146	(*)	(*)	(*)	(*)	65,134	(*)	(*)	(*)	(*)	15,000	(*)	(*)	55,922	.....	55,922	(*)	59
7,313	104,126	12,923	60,226	24,580	6,397	.....	.....	.....	12,075	3,025	26,706	.....	17,217	.....	17,217	1,200	60
.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	2	.....	2	.....	2	.....	61
.....	88,000	.....	88,000	.....	.....	.....	.....	.....	202,874	.....	198	.....	198	.....	198	.....	62
.....	6,255	.....	6,255	.....	.....	.....	.....	.....	6,581	.....	3,870	.....	3,870	.....	3,870	.....	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)	Columbia River—Continued								
	Snake River below Weiser, Idaho (I-E)—Continued				Snake River above Weiser, Idaho (I-F)				
	Powder River			Burnt River (6)	Total	Snake River direct (1)	Malheur River		
	Total	Below Thief Valley Reservoir (5a)	Above Thief Valley Reservoir (5b)				Total	Malheur River direct below Warm Springs (4a)	
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	282	43	241	95	208	46	122	60
2	dams 1950..	518	80	438	257	447	59	320	126
3	1940..	512	(*)	(*)	273	12	(*)	(*)	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	125	12	113	7	46	4	37	11
5	Timber.....dams 1950..	141	13	128	43	11	2	9	7
6	Earth and rock.....dams 1950..	228	46	182	185	349	46	247	100
7	Other, mixed, and not reported.....dams 1950..	24	9	15	22	41	7	27	8
8	Reservoirs.....enterprises reporting 1950..	24	11	14	14	40	3	24	12
9	reservoirs 1950..	31	14	17	21	58	3	38	13
10	1940..	30	(*)	(*)	8	1	(*)	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	30	13	17	20	53	3	33	8
12	total capacity, acre-feet 1950..	23,758	4,080	19,678	28,715	1,059,051	716,001	283,125	252,971
13	1940..	28,745	(*)	(*)	28,910	(*)	(*)	(*)	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	21	8	13	12	24	1	19	3
15	100-999 acre-feet.....reservoirs 1950..	7	4	3	6	13	.....	9	2
16	1,000 acre-feet and over.....reservoirs 1950..	2	1	1	2	16	2	5	3
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	3	1	2	.....	5	1	2	1
18	Earth and rock.....dams 1950..	26	13	13	18	48	1	33	10
19	Other, mixed, and not reported.....dams 1950..	2	.....	2	3	5	1	3	2
20	Canals and ditches.....enterprises reporting 1950..	208	45	164	55	131	23	87	37
21	total length, miles 1950..	753	208	545	173	1,449	566	793	472
22	1940..	515	(*)	(*)	294	75	(*)	(*)	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..	8	2	6	3	17	12	5	4
24	total length, miles 1950..	1	(2)	1	(2)	63	62	1	1
25	1940..	3	(*)	(*)	6	(*)	(*)	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	3	2	1	1	4	1	3	2
27	total length, feet 1950..	810	190	620	700	60,592	52,612	7,980	7,300
28	Flowing wells.....enterprises reporting 1950..	3	1	2	2	6	2	3	1
29	wells 1950..	4	2	2	.....	7	2	4	1
30	1940..	3	(*)	(*)	.....	(*)	(*)	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	27	2	25	3	77	36	39	25
32	wells 1950..	38	2	36	2	92	46	43	25
33	1940..	24	(*)	(*)	1	(*)	(*)	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	37	2	35	1	87	43	41	23
35	Average pumping lift.....feet 1949..	75	52	76	12	35	34	37	21
36	1939..	25	(*)	(*)	.....	(*)	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	36	4	32	6	223	151	64	47
38	pumps 1950..	51	5	46	6	283	199	72	50
39	1940..	36	(*)	(*)	2	(*)	(*)	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	32	3	29	2	203	137	58	43
41	electric motors 1950..	46	3	43	2	255	179	64	44
42	1940..	20	(*)	(*)	.....	(*)	(*)	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	4	.....	4	3	25	18	6	4
44	other motors and engines 1950..	4	.....	4	3	28	20	7	5
45	1940..	16	(*)	(*)	2	(*)	(*)	(*)	(*)
Season of irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..	92	6	86	14	68	15	27	8
47	acres irrigated..	28,608	474	28,134	486	23,806	2,497	6,065	2,299
48	Water delivered before and after July 1.....enterprises reporting..	138	51	189	87	341	163	153	91
49	acres irrigated..	76,613	23,816	52,797	27,856	183,117	91,359	78,665	47,679
50	Water delivered only after July 1.....enterprises reporting..	2	.....	2	.....	5	3	1	1
51	acres irrigated..	45	.....	45	.....	85	60	20	20
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,328,075	(*)	(*)	910,472	(*)	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	83	12	71	20	258	120	118	70
54	Amount.....dollars 1950..	186,893	18,110	168,783	46,395	1,693,696	1,125,994	402,491	227,909
55	Area irrigated direct.....acres 1949..	42,115	10,270	31,845	7,481	158,568	71,179	75,676	47,149
56	Total capital investment Jan. 1, 1950.....dollars 1950..	1,514,968	(*)	(*)	956,867	(*)	(*)	(*)	(*)
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	7	3	4	1	8	4	3	2
58	Amount.....dollars 1950..	165,801	13,100	152,701	442,439	19,736,060	14,755,260	4,905,800	2,572,000
59	1940..	225,621	(*)	(*)	592,500	(*)	(*)	(*)	(*)
60	Area irrigated direct.....acres 1949..	8,289	5,411	2,878	.....	130,647	75,989	48,172	31,671
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.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Great Basin (Northwest Great Basin) (III-A)—Continued								
	Cowhead and Warner Lakes area	Central Desert area	Malheur Lake area				Trout and Whitehorse Creeks	Quinn River	
			Total	Silvies River	Harney Lake	Donner and Blitzen River			
	(3)	(5)	(6a)	(6b)	(6c)	(7)	(8)		
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting	22	3	130	95	17	19	25	9
2	dams 1950..	47	4	479	329	58	92	92	25
3	dams 1940..	(*)	(*)	(*)	186	15	(*)	(*)	43
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	7	.....	55	38	2	15	13	3
5	Timber.....dams 1950..	1	.....	121	105	15	1	9	.....
6	Earth and rock.....dams 1950..	35	2	252	142	36	74	62	21
7	Other, mixed, and not reported.....dams 1950..	4	2	51	44	5	2	8	1
8	Reservoirs.....enterprises reporting	8	2	8	5	1	2	4	.....
9	reservoirs 1950..	13	2	8	5	1	2	6	.....
10	reservoirs 1940..	(*)	(*)	(*)	2	3	(*)	(*)	.....
11	Reservoirs for which capacity was reported.....reservoirs 1950..	8	2	7	4	1	2	6	.....
12	total capacity, acre-feet 1950..	12,592	5,290	17,660	4,410	750	12,500	380	.....
13	total capacity, acre-feet 1940..	(*)	(*)	(*)	(*)	660	(*)	(*)	.....
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	2	1	1	1	.....	.....	4	.....
15	100-999 acre-feet.....reservoirs 1950..	3	.....	2	1	1	.....	2	.....
16	1,000 acre-feet and over.....reservoirs 1950..	3	1	4	2	.....	2	.....	.....
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	.....	.....	1	1	.....	.....	2	.....
18	Earth and rock.....dams 1950..	11	2	6	3	1	2	4	.....
19	Other, mixed, and not reported.....dams 1950..	2	.....	1	1	.....	.....	.....	.....
20	Canals and ditches.....enterprises reporting	16	1	50	43	3	5	11	4
21	total length, miles 1950..	42	6	157	144	5	8	21	7
22	total length, miles 1940..	(*)	(*)	(*)	279	26	(*)	(*)	62
23	Pipelines and siphons ¹.....enterprises reporting	.....	.....	.....	.....	.....	.....	1	.....
24	total length, miles 1950..	.....	.....	.....	.....	.....	.....	2	.....
25	total length, miles 1940..	(*)	(*)	(*)	.....	(²)	(*)	(*)	.....
26	Tunnels.....enterprises reporting	.....	.....	.....	.....	.....	.....	.....	.....
27	total length, feet 1950..	.....	.....	.....	.....	.....	.....	3	.....
28	Flowing wells.....enterprises reporting	.....	.....	2	2	.....	.....	.....	.....
29	wells 1950..	.....	.....	2	2	.....	.....	18	.....
30	wells 1940..	(*)	(*)	(*)	.....	2	(*)	(*)	.....
31	Pumped wells.....enterprises reporting	3	4	4	4	.....	.....	.....	.....
32	wells 1950..	4	4	5	5	.....	.....	.....	.....
33	wells 1940..	(*)	(*)	(*)	4	.....	(*)	(*)	.....
34	Wells for which pumping lift was reported.....wells 1949..	4	4	4	4	.....	.....	.....	.....
35	wells 1949..	47	34	55	55	.....	.....	.....	.....
36	wells 1939..	(*)	(*)	(*)	61	.....	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting	4	4	5	5	.....	.....	1	.....
38	pumps 1950..	8	5	7	7	.....	.....	1	.....
39	pumps 1940..	(*)	(*)	(*)	5	.....	(*)	(*)	.....
40	Electric motors used for pumping.....enterprises reporting	.....	.....	3	3	.....	.....	.....	.....
41	electric motors 1950..	.....	.....	5	5	.....	.....	.....	.....
42	electric motors 1940..	(*)	(*)	(*)	3	.....	(*)	(*)	.....
43	Other motors and engines used for pumping.....enterprises reporting	4	4	2	2	.....	.....	1	.....
44	other motors and engines 1950..	7	5	2	2	.....	.....	1	.....
45	other motors and engines 1940..	(*)	(*)	(*)	(*)	.....	(*)	(*)	.....
Season of irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..	2	2	73	58	7	9	9	10
47	acres irrigated..	380	1,800	51,348	40,377	5,125	5,846	5,603	6,980
48	Water delivered before and after July 1.....enterprises reporting..	27	6	59	38	10	11	16	.....
49	acres irrigated..	43,529	743	48,001	25,130	4,638	18,233	7,287	.....
50	Water delivered only after July 1.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
51	acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	(*)	(*)	(*)	207,402	80,220	(*)	(*)	22,271
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	19	7	79	57	8	14	9	2
54	Amount.....dollars 1950..	66,835	37,807	145,505	108,575	9,225	27,705	24,605	3,075
55	Area irrigated direct.....acres 1949..	46,743	2,043	59,015	48,424	5,658	4,933	4,952	1,400
56	Total capital investment Jan. 1, 1950.....dollars 1950..	(*)	(*)	(*)	315,977	89,445	(*)	(*)	25,346
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....	.....
58	Amount.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....	.....
59	Amount.....dollars 1940..	(*)	(*)	(*)	.....	.....	(*)	(*)	.....
60	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....	.....
62	Amount.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....	.....
63	Amount.....dollars 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.

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

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

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Excluding Columbia River (I-A)							
			Total	Pacific Coast direct	Rogue River					
					Total	Rogue River direct	Illinois River	Applegate River	Bear Creek	
			(1)	(4a)	(4b)	(4c)	(4d)			
ALL ENTERPRISES										
Cost of water to farms, 1949:¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	8,172	7,581	1,487	801	686	337	68	142	142
2	Cost.....dollars..	3,308,245	2,771,757	487,019	106,744	380,275	206,611	6,719	23,312	143,633
3	Area irrigated direct.....acres..	1,331,578	866,122	86,717	15,172	71,545	33,039	4,075	12,636	19,795
4	Cost per acre irrigated direct.....dollars..	2.45	3.20	5.62	7.04	5.32	5.90	1.65	1.84	7.26
5	Total cost per irrigated acre.....dollars..	2.47	3.24	5.66	7.04	5.36	5.92	1.65	1.87	7.37
6	Total cost per acre-foot of water ².....dollars..	0.73	0.88	2.26	1.21	2.23	2.37	0.23	0.97	4.34
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	2,663	2,298	426	133	293	139	30	81	43
8	acres irrigated.....	665,319	324,324	22,320	2,305	20,015	8,612	1,759	7,252	2,392
9	\$1.00-\$1.99.....enterprises reporting..	490	441	105	40	65	26	13	16	10
10	acres irrigated.....	105,423	91,261	7,485	1,105	6,380	2,066	1,050	2,713	551
11	\$2.00-\$4.99.....enterprises reporting..	1,378	1,300	231	137	94	40	11	13	31
12	acres irrigated.....	367,432	259,632	15,783	4,017	11,766	5,967	1,038	1,664	3,097
13	\$5.00-\$9.99.....enterprises reporting..	1,685	1,627	297	211	86	50	9	13	16
14	acres irrigated.....	175,107	157,176	31,142	4,804	26,338	12,652	156	275	13,255
15	\$10.00 and over.....enterprises reporting..	1,956	1,915	428	280	148	82	5	19	42
16	acres irrigated.....	38,297	33,729	9,987	2,941	7,046	5,742	72	732	500
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	8,042	7,470	1,475	801	674	331	68	141	137
18	Cost.....dollars..	3,275,401	2,751,049	484,985	106,744	378,241	205,978	6,719	23,213	142,331
19	Area supplied primary irrigation.....acres..	1,337,517	856,788	86,107	15,172	70,935	34,905	4,075	12,466	19,489
20	Cost per acre supplied.....dollars..	2.45	3.21	5.63	7.04	5.33	5.90	1.65	1.86	7.30
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	239	204	18	.....	18	6	.....	3	9
22	Cost.....dollars..	32,844	20,708	2,034	.....	2,034	633	.....	99	1,302
23	Area supplied supplemental irrigation.....acres..	14,061	9,334	610	.....	610	134	.....	170	306
24	Cost per acre supplied.....dollars..	2.34	2.22	3.33	.....	3.33	4.72	.....	0.58	4.25
Cost to farms for purposes other than operation and maintenance:⁴										
25	Enterprises reporting.....enterprises..	101	92	9	.....	9	7	.....	1	4
26	Cost.....dollars..	364,241	303,842	58,610	.....	58,610	33,705	.....	395	24,510
27	Area irrigated direct.....acres..	263,960	213,690	35,260	.....	35,260	19,146	.....	507	15,607
28	Cost per acre irrigated.....dollars..	1.38	1.42	1.66	.....	1.66	1.76	.....	0.78	1.57
Arrearage in payments by farms, Jan. 1, 1950:⁴										
29	Enterprises reporting.....enterprises..	82	76	12	.....	12	6	1	4	2
30	Amount.....dollars..	119,916	109,046	7,474	.....	7,474	4,830	200	1,141	1,303
31	Area irrigated direct.....acres..	179,200	161,562	12,983	.....	12,983	9,016	59	1,355	2,553
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	7,480	6,959	1,373	800	573	303	48	98	124
33	Area irrigated.....acres..	612,526	321,311	33,087	14,543	18,544	10,412	2,062	3,363	2,507
34	Complete-system enterprises ⁵.....enterprises..	6,771	6,377	1,339	795	544	283	47	95	119
35	Area irrigated.....acres..	525,093	289,747	32,963	14,543	18,020	10,050	2,032	3,475	2,463
Other farms irrigated:										
36	Enterprises reporting.....number..	161	149	27	4	23	12	.....	5	6
37	Number of other farms.....farms..	202	187	34	4	30	17	.....	7	6
38	Area irrigated in other farms.....acres..	10,847	8,552	3,089	24	3,065	2,784	.....	203	78
Enterprises by origin of water supply:⁵										
39	No water from other enterprises.....enterprises reporting..	6,819	6,421	1,355	800	555	292	47	95	121
40	acres irrigated.....	525,053	289,747	32,563	14,543	18,020	10,050	2,032	3,475	2,463
41	Part of water from other enterprises.....enterprises reporting..	178	157	8	.....	8	3	.....	3	2
42	acres irrigated.....	63,238	18,611	341	.....	341	228	.....	88	25
43	All of water from other enterprises.....enterprises reporting..	483	381	10	.....	10	8	1	.....	1
44	acres irrigated.....	24,235	12,953	183	.....	183	134	30	.....	19
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	7,258	6,773	1,345	795	550	289	48	97	116
46	acres irrigated.....	601,866	315,778	32,673	14,543	18,130	10,325	2,062	3,547	2,196
47	Part primary, part supplemental.....enterprises reporting..	48	34	1	.....	1	.....	.....	.....	1
48	Primary irrigation.....acres irrigated..	3,047	1,712	50	.....	50	.....	.....	.....	50
49	Supplemental irrigation.....acres irrigated..	2,223	1,307	30	.....	30	.....	.....	.....	30
50	All supplemental.....enterprises reporting..	126	108	11	.....	11	5	.....	1	5
51	acres irrigated.....	5,390	2,514	334	.....	334	87	.....	16	231
Enterprises by number of acres irrigated:⁵										
52	None.....enterprises reporting..	48	44	16	5	11	9	.....	.....	2
53	1-9 acres.....enterprises reporting..	2,481	2,459	600	340	260	140	17	36	67
54	10-29 acres.....enterprises reporting..	2,279	2,235	429	271	158	72	20	32	34
55	30-59 acres.....enterprises reporting..	1,153	1,066	209	144	65	39	5	9	12
56	60-99 acres.....enterprises reporting..	549	492	73	35	38	17	2	15	4
57	100-199 acres.....enterprises reporting..	449	362	33	5	28	19	2	5	2
58	200-499 acres.....enterprises reporting..	332	219	10	.....	10	6	1	.....	3
59	500-999 acres.....enterprises reporting..	104	51	2	.....	2	.....	1	.....	1
60	1,000 acres or more.....enterprises reporting..	85	31	1	.....	1	1	.....	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Columbia River									
	Total	Columbia River below Snake River (I-B)								
		Total	Columbia River direct			Willamette River				
			Total	Below The Dalles (1a)	Above The Dalles (1b)	Total	Below Salem (2a)	Salem to Albany (2b)	Above Albany (2c)	
ALL ENTERPRISES										
Cost of water to farms, 1948: ¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	6,094	4,728	437	343	94	2,979	1,312	693	974
2	Cost.....dollars..	2,284,738	1,399,323	92,248	59,247	33,001	512,251	185,381	168,181	158,689
3	Area irrigated direct.....acres..	779,405	356,905	23,810	11,031	12,779	73,640	31,050	23,046	19,544
4	Cost per acre irrigated direct.....dollars..	2.93	3.92	3.87	5.37	2.58	6.96	5.97	7.30	8.12
5	Total cost per irrigated acre.....dollars..	2.96	3.94	3.88	5.37	2.58	6.96	5.98	7.30	8.12
6	Total cost per acre-foot of water ².....dollars..	0.76	0.88	0.69	2.68	0.41	2.90	(³)	2.35	4.78
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	1,872	912	111	61	50	206	105	42	59
8	.....acres irrigated..	302,004	88,896	3,388	985	2,403	5,723	2,852	1,455	1,416
9	\$1.00-\$1.99.....enterprises reporting..	336	253	35	30	5	146	85	24	37
10	.....acres irrigated..	83,776	34,473	2,473	2,313	160	5,514	3,492	1,088	934
11	\$2.00-\$4.99.....enterprises reporting..	1,069	911	103	81	22	636	327	139	170
12	.....acres irrigated..	243,849	156,380	13,625	4,046	9,579	25,325	12,940	7,281	5,104
13	\$5.00-\$9.99.....enterprises reporting..	1,330	1,238	82	73	9	911	368	240	303
14	.....acres irrigated..	126,034	56,704	2,515	2,004	511	23,064	7,169	8,839	7,056
15	\$10.00 and over.....enterprises reporting..	1,487	1,414	106	98	8	1,080	427	248	405
16	.....acres irrigated..	23,742	20,452	1,809	1,683	126	14,014	4,597	4,383	5,034
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	5,995	4,659	436	342	94	2,977	1,312	692	973
18	Cost.....dollars..	2,266,064	1,389,356	92,208	59,207	33,001	511,927	185,113	168,150	158,664
19	Area supplied primary irrigation.....acres..	770,661	354,841	23,805	11,026	12,779	73,583	31,006	23,041	19,538
20	Cost per acre supplied.....dollars..	2.94	3.92	3.87	5.37	2.58	6.96	5.97	7.30	8.12
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	186	109	1	1	.....	5	2	2	1
22	Cost.....dollars..	18,674	9,767	40	40	.....	324	268	31	25
23	Area supplied supplemental irrigation.....acres..	8,724	2,064	5	5	.....	55	44	5	6
24	Cost per acre supplied.....dollars..	2.14	4.73	8.00	8.00	.....	5.89	6.09	6.20	4.17
Cost to farms for purposes other than operation and maintenance: ⁴										
25	Enterprises reporting.....enterprises..	83	28	4	2	2	1	.....	.....	1
26	Cost.....dollars..	245,232	86,781	1,527	752	775	1,745	.....	.....	1,745
27	Area irrigated direct.....acres..	178,430	55,319	959	253	706	349	.....	.....	349
28	Cost per acre irrigated.....dollars..	1.37	1.57	1.59	2.97	1.10	5.00	.....	.....	5.00
Arrearage in payments by farms, Jan. 1, 1950: ⁴										
29	Enterprises reporting.....enterprises..	68	35	4	2	2	6	2	2	2
30	Amount.....dollars..	101,572	67,611	8,577	254	8,323	4,460	960	2,100	1,400
31	Area irrigated direct.....acres..	148,579	51,723	6,785	173	6,612	1,543	205	111	1,227
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	5,586	4,544	415	333	82	2,980	1,312	695	973
33	Area irrigated.....acres..	288,224	170,794	13,164	9,428	3,736	69,450	30,079	21,524	17,847
34	Complete-system enterprises ⁵.....enterprises..	5,038	4,095	393	319	74	2,791	1,290	601	900
35	Area irrigated.....acres..	257,184	152,048	11,760	8,674	3,086	64,583	29,558	19,030	15,995
Other farms irrigated:										
36	Enterprises reporting.....number..	122	99	7	7	.....	71	41	8	22
37	Number of other farms.....farms..	153	124	10	10	.....	80	49	9	22
38	Area irrigated in other farms.....acres..	5,463	2,013	248	248	.....	1,134	775	204	155
Enterprises by origin of water supply: ⁵										
39	No water from other enterprises.....enterprises reporting..	5,066	4,119	397	321	76	2,805	1,294	608	903
40	.....acres irrigated..	257,184	152,048	11,760	8,674	3,086	64,583	29,558	19,030	15,995
41	Part of water from other enterprises.....enterprises reporting..	149	102	8	6	2	43	.....	11	32
42	.....acres irrigated..	18,270	10,145	754	348	406	2,180	.....	985	1,195
43	All of water from other enterprises.....enterprises reporting..	371	323	10	6	4	132	18	76	38
44	.....acres irrigated..	12,770	8,601	650	406	244	2,687	521	1,509	657
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	5,428	4,427	410	330	80	2,962	1,306	687	969
46	.....acres irrigated..	283,105	168,785	13,159	9,423	3,736	69,338	29,975	21,522	17,841
47	Part primary, part supplemental.....enterprises reporting..	33	23	.....	.....	.....	2	2	.....	.....
48	Primary irrigation.....acres irrigated..	1,662	545	.....	.....	.....	60	.....	.....	.....
49	Supplemental irrigation.....acres irrigated..	1,277	510	.....	.....	.....	44	44	.....	.....
50	All supplemental.....enterprises reporting..	97	70	1	1	.....	2	.....	1	1
51	.....acres irrigated..	2,180	954	5	5	.....	8	.....	2	6
Enterprises by number of acres irrigated: ⁵										
52	None.....enterprises reporting..	28	24	4	2	2	14	4	7	3
53	1-9 acres.....enterprises reporting..	1,859	1,667	149	137	12	1,217	538	204	475
54	10-29 acres.....enterprises reporting..	1,806	1,573	133	105	28	1,085	488	263	334
55	30-59 acres.....enterprises reporting..	857	676	64	45	19	418	173	132	113
56	60-99 acres.....enterprises reporting..	419	280	31	20	11	143	69	45	29
57	100-199 acres.....enterprises reporting..	329	192	24	18	6	81	33	35	13
58	200-499 acres.....enterprises reporting..	209	98	10	6	4	21	6	9	6
59	500-999 acres.....enterprises reporting..	49	21	.....	.....	.....	.....	.....	.....	.....
60	1,000 acres or more.....enterprises reporting..	30	13	.....	.....	.....	1	1	.....	.....

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.]

Columbia River--Continued																	
Columbia River below Snake River (I-B)--Continued											Snake River below Weiser, Idaho (I-E)						
Hood River	Deschutes River					John Day River			Umatilla River	Walla Walla River	Total	Snake River direct	Grande Ronde River			Pine Creek	
	Total	Deschutes River direct below Madras (5a)	Deschutes River direct above Madras (5b)	Crooked River (5c)	Squaw Creek (5d)	Total	Below Dayville (6a)	Above Dayville (6b)					Total	Grande Ronde River direct (2a)	Wallowa River (2b)		(4)
(3)		(5a)	(5b)	(5c)	(5d)		(6a)	(6b)	(7)	(8)	(1)		(2a)	(2b)	(4)		
231	237	56	50	113	21	382	209	174	128	336	946	59	351	172	179	102	1
120,287	482,625	81,776	247,884	141,042	11,923	34,022	21,831	12,191	98,499	59,391	152,104	8,838	57,138	14,569	42,569	4,249	2
19,796	147,998	20,255	66,532	51,313	9,498	44,038	17,134	26,904	29,780	18,243	213,443	3,659	60,984	16,035	44,949	15,121	3
6.08	3.27	4.04	3.73	2.75	1.26	0.77	1.27	0.45	3.31	3.26	0.71	2.42	0.94	0.91	0.95	0.28	4
6.11	3.27	4.04	3.74	2.75	1.26	0.78	1.28	0.46	3.31	3.54	0.72	2.44	0.94	0.91	0.96	0.29	5
1.22	0.84	1.39	0.96	0.61	(²)	0.21	0.71	0.11	0.57	0.54	0.22	0.49	0.25	0.43	0.22	0.10	6
58	139	30	30	70	10	283	143	141	49	66	751	37	262	123	139	96	7
868	27,237	3,181	5,375	16,850	1,831	36,737	13,118	23,619	6,881	8,062	150,237	2,105	31,878	10,376	21,502	13,698	8
4	26	5	2	15	4	16	6	10	15	12	65	5	35	12	23	2	9
84	15,753	605	215	7,561	7,372	3,112	1,269	1,843	3,705	3,832	43,727	401	25,007	2,654	22,353	1,265	10
24	32	9	7	13	5	29	19	10	34	54	75	8	31	20	11	3	11
8,350	90,785	13,607	60,305	16,615	258	2,116	1,105	1,011	13,894	2,285	18,051	823	3,638	2,788	850	156	12
87	23	8	3	11	1	23	18	5	15	97	26	5	13	9	4	1	13
9,351	13,153	2,814	394	9,930	15	1,089	884	205	5,190	2,342	620	86	436	196	240	2	14
58	17	4	8	4	1	31	23	8	15	107	29	4	10	8	2	.....	15
1,143	670	48	243	357	22	984	758	226	110	1,722	808	244	25	21	4	.....	16
230	238	56	51	113	21	381	208	174	126	273	933	58	349	171	178	96	17
119,834	481,391	81,776	246,701	141,024	11,890	33,952	21,831	12,121	98,382	51,862	147,983	8,838	56,676	14,569	42,107	4,197	18
19,696	147,367	20,255	66,325	51,304	9,483	43,873	17,116	26,757	29,738	16,777	210,102	3,629	60,506	16,016	44,490	14,687	19
6.08	3.27	4.04	3.72	2.75	1.25	0.77	1.28	0.45	3.31	3.09	0.70	2.44	0.94	0.91	0.95	0.29	20
3	7	.....	4	3	1	4	1	3	2	87	47	1	14	1	13	13	21
453	1,234	.....	1,183	18	33	70	0	70	117	7,529	4,121	0	462	0	462	52	22
100	231	.....	207	9	15	165	18	147	42	1,466	3,341	30	478	19	459	434	23
4.53	5.34	.....	5.71	2.00	2.20	0.42	0.00	0.48	2.79	5.14	1.23	0.00	0.97	0.00	1.01	0.12	24
5	10	5	2	3	1	2	.....	2	3	3	47	1	16	8	8	.....	25
22,708	49,337	16,883	3,800	23,856	4,798	1,289	.....	1,289	9,375	800	45,009	114	20,384	9,724	10,660	.....	26
5,280	39,080	3,492	5,580	23,611	6,397	1,643	.....	1,643	5,631	2,377	47,884	110	23,213	4,713	18,500	.....	27
4.30	1.26	4.83	0.68	1.01	0.75	0.78	.....	0.78	1.66	0.34	0.94	1.04	0.88	2.06	0.58	.....	28
8	4	3	1	.....	.....	1	.....	1	6	6	24	.....	10	1	9	4	29
38,801	1,777	1,652	125	.....	.....	85	.....	85	12,593	1,318	9,283	.....	3,883	10	3,873	404	30
15,068	8,613	2,358	6,255	.....	.....	923	.....	923	12,768	6,023	34,796	.....	15,292	135	15,157	3,820	31
218	203	45	44	102	13	331	201	131	112	286	647	52	247	130	117	53	32
4,421	33,176	4,430	2,699	24,859	1,188	34,943	16,296	18,647	8,879	6,761	56,711	2,828	9,849	3,761	6,088	2,365	33
72	173	40	28	94	11	318	195	124	96	253	588	51	233	127	106	53	34
912	27,641	2,605	1,579	22,394	1,063	34,107	16,066	18,041	7,719	5,326	47,910	2,803	8,593	3,573	5,020	2,365	35
2	3	2	.....	.....	1	4	1	3	4	8	12	1	1	1	.....	1	36
2	6	4	.....	.....	2	5	2	3	12	9	14	2	1	1	.....	1	37
30	227	24	.....	.....	203	206	80	126	118	50	2,437	45	99	99	.....	45	38
72	175	41	28	95	11	319	196	124	98	254	589	51	234	128	106	53	39
912	27,641	2,605	1,579	22,394	1,063	34,107	16,066	18,041	7,719	5,326	47,910	2,803	8,593	3,573	5,020	2,365	40
6	10	2	3	6	.....	9	4	5	7	19	37	.....	5	1	4	.....	41
206	4,410	1,800	645	1,965	.....	761	184	577	707	1,127	5,610	.....	493	160	333	.....	42
140	18	2	13	1	2	3	1	2	7	13	21	1	8	1	7	.....	43
3,303	1,125	25	475	500	125	75	46	29	453	308	3,191	25	763	28	735	.....	44
216	199	44	44	99	13	327	199	129	108	206	631	51	242	128	114	48	45
4,346	33,141	4,430	2,699	24,824	1,188	34,672	16,278	18,394	8,837	5,292	55,356	2,798	9,664	3,742	5,922	2,140	46
1	2	.....	.....	2	.....	2	.....	2	.....	16	4	.....	2	.....	2	.....	47
15	32	.....	.....	32	.....	116	.....	116	.....	322	360	.....	108	.....	108	120	48
45	3	.....	.....	3	.....	137	.....	137	.....	281	292	.....	4	.....	4	20	49
1	.....	.....	.....	.....	.....	1	1	.....	2	63	11	1	2	1	.....	4	50
15	.....	.....	.....	.....	.....	18	18	.....	42	866	703	30	73	19	54	85	51
.....	2	1	.....	1	.....	1	1	.....	2	1	1	.....	1	1	.....	.....	52
83	27	8	12	6	1	42	30	12	32	117	139	9	84	59	25	14	53
85	40	12	13	11	4	97	70	27	21	112	146	16	67	35	32	13	54
39	40	8	6	23	3	64	38	26	18	33	118	10	42	18	24	10	55
8	29	8	5	13	3	42	25	17	17	10	93	7	26	8	18	9	56
3	29	3	5	20	1	36	14	22	9	10	83	8	20	7	13	5	57
.....	9	3	2	15	.....	34	16	18	10	3	51	2	7	.....	5	2	58
.....	9	1	.....	7	1	10	4	6	2	.....	10	.....	.....	.....	.....	.....	59
.....	7	1	.....	6	.....	5	3	3	1	.....	6	.....	.....	.....	.....	.....	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)	Columbia River--Continued							
	Snake River below Weiser, Idaho (I-E)--Continued				Snake River above Weiser, Idaho (I-F)			
	Powder River			Burnt River (6)	Total	Snake River direct (1)	Malheur River	
	Total	Below Thief Valley Reservoir (5a)	Above Thief Valley Reservoir (5b)				Total	Malheur River direct below Warm Springs (4a)
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	333	57	278	101	421	183	102
2	Cost.....dollars..	56,459	29,446	27,013	25,420	733,311	449,429	249,811
3	Area irrigated direct.....acres..	105,337	24,290	81,047	28,342	209,057	93,965	85,860
4	Cost per acre irrigated direct.....dollars..	0.54	1.21	0.33	0.90	3.51	4.78	2.91
5	Total cost per irrigated acre.....dollars..	0.54	1.22	0.34	0.93	3.56	4.80	2.94
6	Total cost per acre-foot of water ².....dollars..	0.20	0.27	0.17	0.34	0.83	1.07	0.64
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	278	43	237	78	210	41	56
8	acres irrigated..	83,467	8,145	75,322	19,089	62,871	6,190	16,950
9	\$1.00-\$1.99.....enterprises reporting..	20	7	13	3	18	12	4
10	acres irrigated..	15,555	11,231	4,324	1,499	5,776	4,065	1,301
11	\$2.00-\$4.99.....enterprises reporting..	16	7	9	17	83	57	20
12	acres irrigated..	5,762	4,914	848	7,672	69,418	15,382	47,424
13	\$5.00-\$9.99.....enterprises reporting..	6	.....	6	1	66	45	21
14	acres irrigated..	84	.....	84	12	68,710	67,772	938
15	\$10.00 and over.....enterprises reporting..	13	.....	13	2	44	28	15
16	acres irrigated..	469	.....	469	70	2,482	556	1,896
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	330	57	275	100	404	177	174
18	Cost.....dollars..	53,097	29,446	23,651	25,175	728,525	447,483	248,005
19	Area supplied primary irrigation.....acres..	103,832	24,190	79,642	27,448	205,738	93,567	84,959
20	Cost per acre supplied.....dollars..	0.51	1.22	0.30	0.92	3.54	4.78	2.92
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	15	1	14	4	30	13	14
22	Cost.....dollars..	3,362	0	3,362	245	4,786	1,946	1,806
23	Area supplied supplemental irrigation.....acres..	1,505	100	1,405	894	3,319	398	901
24	Cost per acre supplied.....dollars..	2.23	0.00	2.39	0.27	1.44	4.89	2.00
Cost to farms for purposes other than operation and maintenance: ⁴								
25	Enterprises reporting.....enterprises..	7	4	3	23	8	3	4
26	Cost.....dollars..	9,998	8,383	1,615	14,513	113,442	25,717	75,726
27	Area irrigated direct.....acres..	12,822	11,723	1,199	11,639	75,227	18,544	50,197
28	Cost per acre irrigated.....dollars..	0.77	0.72	1.35	1.25	1.51	1.39	1.51
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29	Enterprises reporting.....enterprises..	8	5	3	2	5	3	2
30	Amount.....dollars..	3,447	2,774	673	1,549	24,678	117	24,561
31	Area irrigated direct.....acres..	15,016	12,623	2,393	668	62,060	15,639	46,421
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	220	36	186	75	396	175	171
33	Area irrigated.....acres..	31,737	4,196	27,541	9,932	60,719	11,189	30,621
34	Complete-system enterprises ⁵.....enterprises..	179	28	153	72	355	156	153
35	Area irrigated.....acres..	25,013	3,035	21,978	9,136	57,226	10,549	28,962
Other farms irrigated:								
36	Enterprises reporting.....number..	5	1	4	4	11	4	6
37	Number of other farms.....farms..	5	1	4	5	15	4	10
38	Area irrigated in other farms.....acres..	574	100	474	1,674	1,013	242	616
Enterprises by origin of water supply: ⁵								
39	No water from other enterprises.....enterprises reporting..	179	28	153	72	358	158	154
40	acres irrigated..	25,013	3,035	21,978	9,136	57,226	10,549	28,962
41	Part of water from other enterprises.....enterprises reporting..	31	7	24	1	11	3	5
42	acres irrigated..	5,067	999	4,068	50	2,515	201	1,174
43	All of water from other enterprises.....enterprises reporting..	10	1	9	2	27	14	12
44	acres irrigated..	1,657	162	1,495	746	978	439	485
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	216	36	182	74	371	164	158
46	acres irrigated..	31,022	4,196	26,826	9,732	58,964	11,004	29,081
47	Part primary, part supplemental.....enterprises reporting..	1	.....	1	.....	6	3	3
48	Primary irrigation.....acres irrigated..	132	.....	132	.....	757	24	733
49	Supplemental irrigation.....acres irrigated..	268	.....	268	.....	475	14	461
50	All supplemental.....enterprises reporting..	3	.....	3	1	16	6	9
51	acres irrigated..	315	.....	315	200	523	147	346
Enterprises by number of acres irrigated: ⁵								
52	None.....enterprises reporting..	.....	.....	.....	.....	3	2	1
53	1-9 acres.....enterprises reporting..	25	.....	25	7	53	32	20
54	10-29 acres.....enterprises reporting..	31	9	22	19	87	54	32
55	30-59 acres.....enterprises reporting..	33	4	29	23	63	38	20
56	60-99 acres.....enterprises reporting..	44	10	34	7	46	22	21
57	100-199 acres.....enterprises reporting..	40	7	33	10	54	16	29
58	200-499 acres.....enterprises reporting..	35	5	31	5	60	8	34
59	500-999 acres.....enterprises reporting..	8	.....	8	2	19	2	10
60	1,000 acres or more.....enterprises reporting..	4	1	4	2	11	1	4

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.]

Columbia River—Continued					South Pacific Coast, total (II)	Klamath River (II-A)							Great Basin (Northwest Great Basin) (III-A)			
Snake River above Weiser, Idaho (I-F)—Continued						Total	Klamath River direct (1)	Lower Klamath Lake (5)	Lost River (6)	Upper Klamath Lake (7)	Williamson River (8)	Sacramento River (II-D), Goose Lake (9c)	Total	Silver and Summer Lake area (1)	Lake Abert area (2)	
Malheur River—Con.		Owyhee River														
Malheur River direct above Warm Springs (4b)	Willow Creek (4c)	Total	Owyhee River direct (5a)	Jordan Creek (5b)	Total	Klamath River direct (1)	Lower Klamath Lake (5)	Lost River (6)	Upper Klamath Lake (7)	Williamson River (8)	Sacramento River (II-D), Goose Lake (9c)	Total	Silver and Summer Lake area (1)	Lake Abert area (2)		
32	52	55	23	33	343	281	7	56	122	41	59	62	259	27	25	1
1,921	125,008	34,071	2,933	31,138	506,343	479,213	213	131,227	305,942	24,202	17,629	27,130	30,145	6,454	3,075	2
11,753	22,999	29,232	4,152	25,080	248,863	223,478	323	43,886	78,186	41,283	59,800	25,385	236,593	18,176	30,695	3
0.16	5.44	1.17	0.71	1.24	39	2.14	0.66	2.99	3.91	0.59	0.29	1.07	0.13	0.36	0.10	4
0.17	5.49	1.25	0.71	1.35	207	2.18	0.88	3.01	3.96	0.59	0.31	1.07	0.13	0.36	0.10	5
(3)	1.44	0.34	(3)	(3)	0.90	0.99	(3)	1.31	1.89	0.37	0.11	(3)	0.05	(3)	(3)	6
32	34	48	19	30	143	95	4	16	18	22	37	48	231	23	24	7
11,753	5,598	22,380	3,882	18,498	112,330	97,397	204	4,276	3,401	34,296	55,220	14,933	228,665	15,942	28,999	8
.....	.....	2	2	.....	39	26	1	10	10	7	9	3	12	2	1	9
.....	.....	210	210	.....	9,528	9,266	80	899	2,460	3,898	1,929	262	4,634	560	1,696	10
.....	4	4	1	3	72	65	1	12	38	9	6	7	6	1	.....	11
.....	14,840	6,612	30	6,582	105,262	95,141	9	33,850	56,051	2,884	2,347	10,121	2,538	1,633	.....	12
.....	7	.....	.....	.....	50	48	.....	14	29	3	2	2	8	1	.....	13
.....	753	.....	.....	.....	17,209	17,188	.....	4,772	12,065	205	146	21	722	41	.....	14
.....	7	1	.....	.....	39	37	1	4	27	.....	5	2	2	.....	.....	15
.....	1,808	30	30	.....	4,534	4,486	30	89	4,209	.....	158	48	34	.....	.....	16
32	48	53	22	32	327	265	6	55	110	41	57	62	257	27	25	17
1,846	123,762	33,037	2,828	30,209	494,251	467,121	103	131,062	294,361	24,129	17,466	27,130	30,101	6,454	3,075	18
11,453	22,772	27,212	4,122	23,090	244,980	219,595	243	43,608	77,241	40,983	57,520	25,385	235,749	18,176	30,695	19
0.16	5.43	1.21	0.69	1.31	2.02	2.13	0.42	3.01	3.81	0.59	0.30	1.07	0.13	0.36	0.10	20
1	7	3	1	2	30	30	1	3	23	1	3	.....	5	.....	.....	21
75	1,246	1,034	105	929	12,092	12,092	110	165	11,581	73	163	.....	44	.....	.....	22
300	227	2,020	30	1,990	3,883	3,883	80	278	945	300	2,280	.....	844	.....	.....	23
0.25	5.49	0.51	3.50	0.47	3.11	3.11	1.38	0.59	12.26	0.24	0.07	.....	0.05	.....	.....	24
1	3	1	.....	1	9	9	.....	3	6	.....	.....	.....	.....	.....	.....	25
304	32,242	11,999	.....	11,999	60,399	60,399	.....	22,123	38,276	.....	.....	.....	.....	.....	.....	26
2,025	16,501	6,486	.....	6,486	50,270	50,270	.....	22,286	27,984	.....	.....	.....	.....	.....	.....	27
0.15	1.95	1.85	.....	1.85	1.20	1.20	.....	0.99	1.37	.....	.....	.....	.....	.....	.....	28
.....	2	.....	.....	.....	5	4	.....	2	1	.....	.....	1	1	1	.....	29
.....	8,451	.....	.....	.....	8,350	8,050	.....	5,430	2,500	64	56	300	2,520	2,520	.....	30
.....	14,750	.....	.....	.....	16,005	6,915	.....	3,237	3,091	314	273	9,090	1,633	1,633	.....	31
29	49	50	22	29	304	252	7	48	117	27	55	52	229	25	21	32
9,182	6,498	18,909	3,996	14,913	111,929	100,011	323	6,419	12,628	27,071	53,570	11,918	179,286	15,333	16,931	33
28	48	46	21	26	201	149	7	26	44	21	53	52	203	23	21	34
9,122	6,198	17,715	3,942	13,773	89,035	77,117	323	5,211	7,578	26,350	37,655	11,918	146,271	13,833	16,931	35
3	1	1	.....	1	8	8	.....	3	4	1	.....	.....	4	.....	.....	36
7	1	1	.....	1	8	8	.....	3	4	1	.....	.....	7	.....	.....	37
500	107	155	.....	155	446	446	.....	52	274	120	.....	.....	1,849	.....	.....	38
28	48	46	21	26	203	151	7	26	46	21	53	52	205	23	21	39
9,122	6,198	17,715	3,942	13,773	89,035	77,117	323	5,211	7,578	26,350	37,655	11,918	146,271	13,833	16,931	40
.....	1	3	.....	3	12	12	.....	4	5	1	2	.....	11	1	.....	41
.....	300	1,140	.....	1,140	17,408	17,408	.....	383	710	400	15,915	.....	27,219	1,400	.....	42
.....	1	1	.....	1	89	89	.....	18	66	5	.....	.....	13	1	.....	43
60	.....	54	54	.....	5,486	5,486	.....	825	4,340	321	.....	.....	5,796	100	.....	44
28	43	49	21	29	273	221	6	45	93	27	52	52	224	25	21	45
8,331	5,912	18,879	3,966	14,913	107,396	95,478	243	6,093	11,166	27,071	50,905	11,918	178,692	15,333	16,931	46
1	2	.....	.....	.....	13	13	.....	2	10	.....	1	.....	1	.....	.....	47
351	382	.....	.....	.....	1,130	1,130	.....	48	697	.....	385	.....	205	.....	.....	48
300	161	.....	.....	.....	871	871	.....	14	217	.....	640	.....	45	.....	.....	49
.....	4	1	1	.....	16	16	1	1	12	.....	2	.....	2	.....	.....	50
.....	43	30	30	.....	2,532	2,532	80	264	548	.....	1,640	.....	344	.....	.....	51
.....	.....	.....	.....	.....	2	2	.....	.....	2	.....	.....	.....	2	.....	.....	52
.....	4	1	.....	1	16	12	1	4	4	1	.....	4	6	1	.....	53
1	13	1	1	.....	36	33	1	7	19	1	5	3	8	.....	3	54
1	5	5	3	2	72	63	3	13	35	3	9	15	2	.....	.....	55
3	6	3	2	1	43	36	1	9	18	3	5	7	14	2	2	56
8	8	9	7	2	43	35	1	6	22	2	4	8	44	6	4	57
9	10	18	6	13	52	39	.....	6	12	9	13	13	61	7	4	58
5	3	7	2	5	22	16	.....	2	5	2	7	6	32	1	3	59
2	.....	6	1	5	18	16	.....	1	.....	6	10	2	49	6	5	60

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Great Basin (Northwest Great Basin) (III-A)--Continued							
	Cowhead and Warner Lakes area (3)	Central desert area (5)	Malheur Lake area				Trout and Whitehorse Creeks (7)	Quinn River (8)
			Total	Silvies River (6a)	Harney Lake (6b)	Donner and Ritzzen River (6c)		
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	30	8	136	98	18	21	26	10
Cost.....dollars..	6,793	1,300	10,997	9,447	175	1,375	1,351	175
Area irrigated direct.....acres..	50,229	2,543	111,080	69,567	9,783	31,730	16,890	6,980
Cost per acre irrigated direct.....dollars..	0.14	0.51	0.10	0.14	0.02	0.04	0.08	0.03
Total cost per irrigated acre.....dollars..	0.14	0.51	0.10	0.14	0.02	0.04	0.08	0.03
Total cost per acre-foot of water ².....dollars..	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	28	4	123	87	18	19	22	10
acres irrigated.....	49,189	2,457	108,533	67,435	9,783	31,315	16,565	6,980
\$1.00-\$1.99.....enterprises reporting..	2		5	4		1	2	
acres irrigated.....	1,040		1,233	1,033		200	105	
\$2.00-\$4.99.....enterprises reporting..			4	3		1	1	
acres irrigated.....			755	540		215	150	
\$5.00-\$9.99.....enterprises reporting..			2	4			1	
acres irrigated.....			52	559			70	
\$10.00 and over.....enterprises reporting..			2					
acres irrigated.....			34					
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	30	8	134	96	18	21	26	10
Cost.....dollars..	6,793	1,300	10,953	9,403	175	1,375	1,351	175
Area supplied primary irrigation.....acres..	50,229	2,543	110,236	68,723	9,783	31,730	16,890	6,980
Cost per acre supplied.....dollars..	0.14	0.51	0.10	0.14	0.02	0.04	0.08	0.03
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..			5	5				
Cost.....dollars..			44	44				
Area supplied supplemental irrigation.....acres..			844	844				
Cost per acre supplied.....dollars..			0.05	0.05				
Cost to farms for purposes other than operation and maintenance: ⁴								
Enterprises reporting.....enterprises..								
Cost.....dollars..								
Area irrigated direct.....acres..								
Cost per acre irrigated.....dollars..								
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
Enterprises reporting.....enterprises..								
Amount.....dollars..								
Area irrigated direct.....acres..								
SINGLE-FARM ENTERPRISES, 1950								
Single-farm enterprises.....enterprises..	26	8	115	78	18	20	27	10
Area irrigated.....acres..	34,480	2,543	86,129	52,267	9,783	24,079	16,890	6,980
Complete-system enterprises ⁵.....enterprises..	25	8	92	56	18	19	26	10
Area irrigated.....acres..	16,220	2,543	72,874	39,312	9,783	23,779	16,890	6,980
Other farms irrigated:								
Enterprises reporting.....number.....			4	3		1		
Number of other farms.....farms.....			7	6		1		
Area irrigated in other farms.....acres..			1,849	1,759		90		
Enterprises by origin of water supply: ⁵								
No water from other enterprises.....enterprises reporting..	25	8	93	57	18	19	27	10
acres irrigated.....	16,220	2,543	72,874	39,312	9,783	23,779	16,890	6,980
Part of water from other enterprises.....enterprises reporting..	1		10	10				
acres irrigated.....	18,260		7,559	7,559				
All of water from other enterprises.....enterprises reporting..			12	11		1		
acres irrigated.....			5,696	5,396		300		
Enterprises by primary and supplemental irrigation:								
All primary.....enterprises reporting..	26	8	111	74	18	20	26	10
acres irrigated.....	34,480	2,543	85,535	51,673	9,783	24,079	16,890	6,980
Part primary, part supplemental.....enterprises reporting..			1	1				
Primary irrigation.....acres irrigated.....			205	45				
Supplemental irrigation.....acres irrigated.....			45	45				
All supplemental.....enterprises reporting..			2	2				
acres irrigated.....			344	344				
Enterprises by number of acres irrigated: ⁵								
None.....enterprises reporting..			1	1			1	
1-9 acres.....enterprises reporting..	1	1	2	1		1	1	
10-29 acres.....enterprises reporting..	2		1		1		1	
30-59 acres.....enterprises reporting..	4	2	3	2	1		4	
60-99 acres.....enterprises reporting..			5	5			4	1
100-199 acres.....enterprises reporting..	4	1	21	12	6	3	8	
200-499 acres.....enterprises reporting..	5		40	27	2	11	2	3
500-999 acres.....enterprises reporting..	4		19	15	3	1	2	3
1,000 acres or more.....enterprises reporting..	6	3	23	15	5	4	4	3

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

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

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

Item (For definitions and explanations, see text)	The State ¹	North Pacific Coast, total ¹	Excluding Columbia River (I-A)						
			Total	Pacific Coast direct (1)	Rogue River				
					Total	Rogue River direct (4a)	Illinois River (4b)	Applegate River (4c)	Bear Creek (4d)
MULTIPLE-FARM ENTERPRISES, 1950									
1 Multiple-farm enterprises, total number ².....enterprises..	755	681	131	6	125	43	20	45	20
2 Area irrigated direct.....acres..	739,052	544,811	53,630	629	53,001	24,627	2,013	9,073	17,288
3 Multiple-purpose enterprises ².....enterprises..	33	27	5	.....	5	1	.....	3	2
4 Area irrigated direct.....acres..	109,428	27,772	9,930	.....	9,930	428	.....	677	8,825
5 Complete-system enterprises ².....enterprises..	603	554	128	6	122	42	20	44	19
6 Area irrigated direct.....acres..	429,753	350,789	53,156	629	52,527	24,555	2,013	8,852	17,107
Enterprises by origin of water supply: ²									
7 No water from other enterprises.....enterprises reporting..	709	645	130	6	124	43	20	45	19
8 Part of water from other enterprises.....acres irrigated..	597,483	453,553	53,449	629	52,820	24,627	2,013	9,073	17,107
9 All water from other enterprises.....enterprises reporting..	26	22	1	.....	1	.....	.....	.....	1
10 Part of water from other enterprises.....acres irrigated..	107,948	67,958	181	.....	181	.....	.....	.....	181
11 All water from other enterprises.....enterprises reporting..	20	14	.....	.....	.....	.....	.....	.....	.....
12 All water from other enterprises.....acres irrigated..	33,621	23,300	.....	.....	.....	.....	.....	.....	.....
Enterprises by delivery of irrigation water: ²									
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	575	530	120	6	114	35	20	42	17
15 Part of water delivered direct to farms only.....acres irrigated..	311,871	244,572	18,789	629	18,160	5,704	2,013	8,581	1,862
16 Water delivered to farms and to other enterprises.....enterprises reporting..	166	138	11	.....	11	8	.....	3	3
17 Part of water delivered to farms and to other enterprises.....acres irrigated..	427,181	300,239	34,841	.....	34,841	18,923	.....	492	15,426
18 Water delivered to other enterprises only.....enterprises reporting..	14	13	.....	.....	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation: ³									
19 All primary.....enterprises reporting..	675	605	124	6	118	42	20	42	17
20 Part of water delivered primary.....acres irrigated..	502,974	350,252	44,417	629	43,788	24,580	2,013	8,675	8,520
21 Part primary, part supplemental.....enterprises reporting..	61	58	5	.....	5	.....	.....	2	3
22 Part of water delivered primary and supplemental.....acres irrigated..	229,630	189,046	8,967	.....	8,967	.....	.....	244	8,723
23 Supplemental irrigation.....acres irrigated..	4,619	3,684	199	.....	199	.....	.....	154	45
24 All supplemental.....enterprises reporting..	4	4	1	.....	1	1	.....	.....	.....
25 All supplemental.....acres irrigated..	1,829	1,829	47	.....	47	47	.....	.....	.....
Enterprises by number of farms irrigated direct: ²									
26 None.....enterprises reporting..	14	13	.....	.....	.....	.....	.....	.....	.....
27 1-3.....enterprises reporting..	324	291	60	2	58	17	14	18	9
28 4-9.....enterprises reporting..	261	237	45	4	41	12	6	19	4
29 10-29.....enterprises reporting..	99	93	18	.....	18	8	.....	7	3
30 30-99.....enterprises reporting..	29	22	3	.....	3	1	.....	1	1
31 100-299.....enterprises reporting..	18	17	2	.....	2	2	.....	2	1
32 300-999.....enterprises reporting..	8	6	3	.....	3	3	.....	.....	2
33 1,000 or more.....enterprises reporting..	2	2	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ²									
34 None.....enterprises reporting..	14	13	.....	.....	.....	.....	.....	.....	.....
35 1-99 acres.....enterprises reporting..	228	219	59	2	57	21	11	15	10
36 100-999 acres.....enterprises reporting..	394	363	66	4	62	16	9	30	7
37 1,000-2,999 acres.....enterprises reporting..	73	53	1	.....	1	.....	.....	.....	.....
38 3,000-9,999 acres.....enterprises reporting..	35	26	5	.....	5	.....	.....	.....	3
39 10,000-29,999 acres.....enterprises reporting..	6	3	.....	.....	.....	.....	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	5	4	.....	.....	.....	.....	.....	.....	.....
Quantities of water reported, 1949: ⁴									
41 Total obtained from all sources.....enterprises reporting..	616	581	114	5	109	43	10	39	20
42 percent of all enterprises.....acres irrigated..	7	8	.....	.....	.....	.....	.....	.....	.....
43 Surface sources.....acres irrigated..	5,227,894	4,336,509	204,971	3,615	201,356	144,512	9,544	43,480	54,561
44 Pumped wells.....acres irrigated..	590	561	114	5	109	43	10	39	20
45 Other enterprises.....acres irrigated..	3,768,532	2,986,379	204,271	3,615	200,656	144,512	9,544	43,480	53,881
46 Conveyance loss ⁴.....acres irrigated..	9	9	.....	.....	.....	.....	.....	.....	.....
47 Delivered: ⁴									
48 Direct to farms.....acres irrigated..	2,858	2,858	.....	.....	.....	.....	.....	.....	.....
49 To other enterprises.....acres irrigated..	46	36	1	.....	1	.....	.....	.....	.....
50 For use other than irrigation.....acres irrigated..	1,456,504	1,347,272	700	.....	700	.....	.....	.....	700
51 Delivered direct to farms for primary irrigation: ³									
52 Enterprises reporting.....acres irrigated..	413	381	113	5	108	42	10	39	20
53 Quantity delivered.....acres irrigated..	1,243,956	905,742	61,997	772	60,822	42,760	3,793	13,299	17,410
54 Quantity supplied per acre.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
55 Delivered direct to farms for supplemental irrigation: ³									
56 Enterprises reporting.....acres irrigated..	608	573	114	5	109	43	10	39	20
57 Quantity delivered.....acres irrigated..	3,113,333	2,710,849	128,601	2,843	125,758	87,785	5,751	29,455	36,707
58 Quantity supplied per acre.....acres irrigated..	138	125	11	.....	11	8	.....	1	3
59 For use other than irrigation.....acres irrigated..	817,108	667,926	333	.....	333	.....	.....	189	61
60 Delivered direct to farms for primary irrigation: ³									
61 Enterprises reporting.....acres irrigated..	84	82	47	.....	47	28	.....	13	7
62 Quantity delivered.....acres irrigated..	53,497	51,992	14,443	.....	14,443	13,823	.....	537	403
63 Quantity supplied per acre.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
64 Total quantity per irrigated acre ⁵.....acres irrigated..	604	569	113	5	108	42	10	39	20
65 Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
66 Enterprises reporting.....dollars..	2,234,891	1,940,517	128,035	2,843	125,192	62,645	5,721	29,169	27,697
67 Quantity delivered.....dollars..	652,319	517,749	51,849	488	51,361	24,580	780	8,758	17,243
68 Area supplied primary irrigation.....acres..	3.4	3.7	2.5	5.8	2.4	2.5	7.3	3.3	1.6
69 Quantity supplied per acre.....acres..	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 Delivered direct to farms for supplemental irrigation: ³									
71 Enterprises reporting.....acres irrigated..	54	53	6	.....	6	1	.....	2	3
72 Quantity delivered.....acres irrigated..	13,570	12,029	536	.....	536	90	.....	286	160
73 Area supplied supplemental irrigation.....acres..	3,844	3,364	246	.....	246	47	.....	154	45
74 Quantity supplied per acre.....acres..	3.5	3.6	2.2	.....	2.2	1.9	.....	1.9	3.6
75 Total quantity per irrigated acre ⁵.....acres..	3.4	3.7	2.5	5.8	2.4	2.5	7.3	3.3	1.7
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
76 Cost for primary irrigation.....dollars..	2,162,587	1,752,396	329,683	466	329,217	185,357	1,700	11,365	130,795
77 Average cost per acre-foot.....dollars..	0.97	0.90	2.57	0.16	2.63	2.96	0.30	0.39	4.73
78 Cost for supplemental irrigation.....dollars..	5,995	4,971	872	.....	872	43	.....	69	760
79 Average cost per acre-foot.....dollars..	0.44	0.41	1.63	.....	1.63	0.48	.....	0.24	4.75
Measurement of water to farms, 1949: ¹									
80 No water measured.....enterprises reporting..	598	534	116	6	110	36	20	37	17
81 Part of water measured.....acres irrigated..	290,527	203,553	30,326	629	29,697	18,585	2,013	7,237	1,862
82 All water measured.....enterprises reporting..	28	25	4	.....	4	.....	.....	2	2
83 Part of water measured.....acres irrigated..	155,843	143,199	12,105	.....	12,105	5,221	.....	102	6,782
84 All water measured.....enterprises reporting..	114	107	11	.....	11	5	.....	6	1
85 All water measured.....acres irrigated..	284,343	189,720	11,199	.....	11,199	821	.....	1,734	8,644

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Columbia River								
	Total	Columbia River below Snake River (I-B)							
		Total	Columbia River direct			Willamette River			
			Total	Below The Dalles (1a)	Above The Dalles (1b)	Total	Below Salem (2a)	Salem to Albany (2b)	Above Albany (2c)
MULTIPLE-FARM ENTERPRISES, 1950									
1 Multiple-farm enterprises, total number ².....enterprises..	550	216	28	13	15	15	6	5	4
2 Area irrigated direct.....acres..	491,181	186,111	10,646	1,603	9,043	4,190	971	1,522	1,697
3 Multiple-purpose enterprises ².....enterprises..	22	15	3	2	1	9	1	5	3
4 Area irrigated direct.....acres..	17,642	16,998	340	302	38	3,339	200	1,522	1,617
5 Complete-system enterprises ².....enterprises..	426	152	19	9	10	3	3	3	3
6 Area irrigated direct.....acres..	297,633	144,769	9,246	1,149	8,097	928	928	.....	.....
7 Enterprises by origin of water supply: ²									
8 No water from other enterprises.....enterprises reporting..	515	204	28	13	15	12	6	3	3
9 Part of water from other enterprises.....acres irrigated..	400,104	170,149	10,646	1,603	9,043	2,812	971	224	1,617
10 All water from other enterprises.....acres irrigated..	67,777	10,818	.....	.....	.....	.....	.....	.....	.....
11 Enterprises by delivery of irrigation water: ²									
12 No water delivered.....enterprises reporting..	410	140	16	8	8	3	2	.....	1
13 Water delivered direct to farms only.....acres irrigated..	225,783	86,503	7,276	984	6,292	892	812	.....	80
14 Water delivered to farms and to other enterprises.....acres irrigated..	127	69	10	4	6	10	2	5	3
15 Water delivered to other enterprises only.....acres irrigated..	265,398	99,608	3,370	619	2,751	3,298	159	1,522	1,617
16 Enterprises by primary and supplemental irrigation: ³									
17 All primary.....enterprises reporting..	481	193	26	12	14	12	4	4	4
18 Part primary, part supplemental.....acres irrigated..	305,835	131,623	10,646	1,603	9,043	4,184	971	1,516	1,697
19 Primary irrigation.....acres irrigated..	53	16	.....	.....	.....	1	.....	1	.....
20 Supplemental irrigation.....acres irrigated..	180,079	53,888	.....	.....	.....	3	.....	3	.....
21 All supplemental.....acres irrigated..	3,485	600	.....	.....	.....	3	.....	3	.....
22 Enterprises by number of farms irrigated direct: ²									
23 None.....enterprises reporting..	13	7	2	1	1	2	2	.....	.....
24 1-3.....enterprises reporting..	231	94	15	5	10	2	1	1	.....
25 4-9.....enterprises reporting..	192	60	5	4	1	6	1	2	3
26 10-29.....enterprises reporting..	75	33	3	3	.....	4	2	1	1
27 30-99.....enterprises reporting..	19	8	1	.....	1	1	.....	1	.....
28 100-299.....enterprises reporting..	15	13	2	.....	2	.....	.....	.....	.....
29 300-999.....enterprises reporting..	3	1	.....	.....	.....	.....	.....	.....	.....
30 1,000 or more.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....	.....
31 Enterprises by acres irrigated direct: ²									
32 None.....enterprises reporting..	13	7	2	1	1	2	2	.....	.....
33 1-99 acres.....enterprises reporting..	160	81	12	4	8	3	1	1	1
34 100-999 acres.....enterprises reporting..	297	107	11	8	3	9	3	3	3
35 1,000-2,999 acres.....enterprises reporting..	52	8	.....	.....	.....	1	.....	1	.....
36 3,000-9,999 acres.....enterprises reporting..	21	11	3	.....	3	.....	.....	.....	.....
37 10,000-29,999 acres.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....	.....	.....
38 30,000 or more.....enterprises reporting..	4	2	.....	.....	.....	.....	.....	.....	.....
39 Quantities of water reported, 1949: ⁴									
40 Total obtained from all sources ⁴.....acres-foot..	467	146	26	12	14	8	.....	4	4
41 percent of all enterprises reporting..	8	3	6	3	14	(⁵)	.....	1	(⁵)
42 Surface sources.....acres-foot..	4,131,538	1,302,028	184,078	3,831	180,247	25,563	.....	16,313	9,250
43 Pumped wells.....acres-foot..	447	122	21	7	14	5	.....	2	3
44 Other enterprises.....acres-foot..	2,782,108	1,218,265	182,373	2,126	180,247	20,060	.....	11,170	8,890
45 Conveyance loss ⁴.....acres-foot..	9	7	5	5	.....	.....	.....	.....	.....
46 Delivered: ⁴									
47 Direct to farms.....acres-foot..	2,858	1,847	1,705	1,705	.....	.....	.....	.....	.....
48 To other enterprises.....acres-foot..	35	11	.....	.....	.....	3	.....	2	1
49 For use other than irrigation.....acres-foot..	1,346,572	81,916	.....	.....	.....	5,503	.....	5,143	360
50 Delivered direct to farms for primary irrigation: ³									
51 Enterprises reporting.....acres-foot..	268	119	20	6	14	5	.....	2	3
52 Quantity delivered.....acres-foot..	844,148	359,073	49,551	246	49,305	4,034	.....	1,340	2,694
53 Area supplied primary irrigation.....acres-foot..	459	143	25	12	13	8	.....	4	4
54 Quantity supplied per acre.....acres-foot..	2,582,248	803,690	125,310	3,229	122,081	7,614	.....	4,733	2,881
55 Delivered direct to farms for supplemental irrigation: ³									
56 Enterprises reporting.....acres-foot..	114	53	10	4	6	7	.....	4	3
57 Quantity delivered.....acres-foot..	667,593	122,991	7,981	356	7,625	13,682	.....	10,240	3,442
58 Area supplied supplemental irrigation.....acres-foot..	35	9	1	.....	1	2	.....	.....	2
59 Quantity supplied per acre.....acres-foot..	37,549	16,274	1,236	.....	1,236	233	.....	.....	233
60 Total quantity per irrigated acre ⁶.....acres-foot..	456	142	25	12	13	8	.....	4	4
61 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵									
62 Cost for primary irrigation.....dollars..	1,812,482	757,075	59,516	3,229	56,287	7,614	.....	4,733	2,881
63 Average cost per acre-foot.....dollars..	465,900	171,099	10,576	1,603	8,973	3,213	.....	1,516	1,697
64 Cost for supplemental irrigation.....dollars..	3.9	4.4	5.6	2.0	6.3	2.4	.....	3.1	1.7
65 Average cost per acre-foot.....dollars..	47	11	.....	.....	.....	.....	.....	.....	.....
66 Quantity delivered.....acres-foot..	11,493	3,608	.....	.....	.....	.....	.....	.....	.....
67 Area supplied supplemental irrigation.....acres-foot..	3,118	519	.....	.....	.....	.....	.....	.....	.....
68 Quantity supplied per acre.....acres-foot..	3.7	7.0	.....	.....	.....	.....	.....	.....	.....
69 Total quantity per irrigated acre ⁶.....acres-foot..	3.9	4.5	5.6	2.0	6.3	2.4	.....	3.1	1.7
70 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵									
71 Cost for primary irrigation.....dollars..	1,422,713	659,021	28,674	7,469	21,205	11,005	.....	4,707	6,298
72 Average cost per acre-foot.....dollars..	0.78	0.87	0.48	2.31	0.38	1.45	.....	0.99	2.19
73 Cost for supplemental irrigation.....dollars..	4,099	1,791	.....	.....	.....	.....	.....	.....	.....
74 Average cost per acre-foot.....dollars..	0.36	0.50	.....	.....	.....	.....	.....	.....	.....
75 Measurement of water to farms, 1949: ⁵									
76 No water measured.....enterprises reporting..	418	146	22	9	13	13	4	5	4
77 Part of water measured.....acres irrigated..	173,227	46,825	3,329	898	2,431	4,028	809	1,522	1,697
78 All water measured.....acres irrigated..	21	5	1	.....	1	.....	.....	.....	.....
79 Area irrigated.....acres irrigated..	131,094	47,543	5,941	.....	5,941	.....	.....	.....	.....
80 Enterprises reporting.....acres irrigated..	96	62	.....	4	1	.....	.....	.....	.....
81 Total.....acres irrigated..	178,521	85,380	1,376	705	671	162	162	.....	.....

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]

Columbia River—Continued																
Columbia River below Snake River (I-B)—Continued										Snake River below Weiser, Idaho (I-E)						
Hood River (3)	Deschutes River				John Day River			Umatilla River (7)	Walla Walla River (8)	Total (1)	Snake River direct (1)	Grande Ronde River			Pine Creek (4)	
	Total	Deschutes River direct below Madras (5a)	Deschutes River direct above Madras (5b)	Crooked River (5c)	Squaw Creek (5d)	Total	Below Dayville (6a)					Above Dayville (6b)	Total	Grande Ronde River direct (2a)		Wallowa River (2b)
14	38	12	7	13	8	54	11	43	18	51	304	8	106	43	63	50
15,375	114,422	15,825	63,833	26,454	8,310	9,095	838	8,257	20,901	11,482	156,732	831	51,135	12,274	38,861	12,756
.....	1	.....	.....	1	.....	1	.....	1	1	.....	6	.....	5	1	.....	3
.....	7,789	.....	.....	7,789	.....	95	.....	95	5,435	.....	753	.....	753	40	713	.....
7	31	12	6	9	6	46	8	38	8	40	254	7	81	38	43	47
375	111,287	15,825	63,328	24,434	7,700	8,148	787	7,361	7,864	6,921	116,554	814	34,578	11,932	22,646	12,410
13	37	12	7	12	8	54	11	43	12	50	286	8	95	42	53	47
14,930	112,622	15,825	63,833	24,654	8,310	9,095	838	8,257	8,636	11,408	132,688	831	36,892	12,247	24,645	9,428
1	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	14	.....	7	.....	7	3
445	.....	.....	.....	.....	.....	.....	.....	.....	10,373	.....	22,922	.....	13,121	.....	13,121	3,328
.....	1	.....	.....	1	.....	.....	.....	.....	3	.....	4	.....	4	.....	1	.....
.....	1,800	.....	.....	1,800	.....	.....	.....	.....	1,892	74	1,122	.....	1,122	27	1,095	.....
.....
7	24	11	3	6	5	43	8	35	11	37	252	6	87	39	48	47
375	58,551	15,671	31,204	10,373	1,303	6,984	787	6,197	8,610	3,815	116,678	814	35,188	11,959	23,229	11,910
7	13	1	4	6	3	9	1	8	7	14	48	2	18	4	14	2
15,000	55,871	154	32,629	16,081	7,007	2,111	51	2,060	12,291	7,667	40,054	17	15,947	315	15,632	846
.....	1	.....	.....	1	.....	2	.....	2	.....	.....	4	.....	1	.....	1	.....
12	32	12	3	11	7	51	9	42	18	43	268	7	95	43	52	41
13,342	68,128	15,825	31,631	12,432	8,240	8,924	838	8,086	20,901	5,498	125,658	831	35,467	12,274	23,193	10,963
1	5	.....	4	1	1	1	.....	1	.....	8	30	.....	10	.....	10	6
1,993	46,066	.....	31,995	14,016	55	161	.....	161	.....	5,665	28,728	.....	15,267	.....	15,267	1,464
40	228	.....	207	6	15	10	.....	10	.....	319	2,244	.....	401	.....	401	227
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	102	.....	.....	.....	.....	102
.....
.....	1	.....	.....	1	.....	2	.....	2	.....	.....	4	.....	1	.....	1	.....
3	14	2	1	6	5	33	7	26	9	18	126	5	42	22	20	25
2	10	5	1	2	2	15	2	13	5	17	127	2	44	15	29	18
5	5	3	.....	2	.....	4	.....	4	.....	12	39	1	15	5	10	5
.....	3	1	1	1	1	.....	.....	.....	.....	3	8	.....	4	.....	3	1
3	5	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
.....	1	.....	.....	1	.....	2	.....	2	.....	.....	4	.....	1	.....	1	.....
5	6	2	1	2	1	21	6	15	5	29	76	3	41	25	16	20
5	22	8	1	7	6	31	3	28	10	20	179	4	47	13	34	26
3	3	1	1	1	1	.....	.....	.....	.....	1	38	.....	14	5	9	3
1	4	.....	2	.....	1	.....	.....	.....	.....	3	7	.....	3	.....	3	.....
.....
.....	2	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	21	11	5	5	2	10	6	4	18	51	302	8	104	43	61	50
6	9	19	10	4	10	3	3	2	14	15	32	13	29	25	34	49
111,702	712,632	229,932	588,593	327,654	32,288	11,813	1,388	10,425	252,775	87,214	685,025	24,630	282,939	31,615	251,324	44,327
14	20	11	5	4	2	10	6	4	15	49	298	8	100	42	58	50
110,126	700,132	229,932	588,593	315,154	32,288	11,813	1,388	10,425	190,660	86,850	598,673	24,630	226,362	31,480	194,882	44,202
.....
.....
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1,576	12,500	.....	.....	12,500	.....	.....	.....	.....	62,115	.....	222	.....	56,577	135	56,442	125
13	20	11	5	4	2	8	4	4	14	41	131	6	77	38	39	3
14,154	252,353	93,324	215,137	92,065	11,106	1,045	95	950	60,057	8,379	50,033	4,671	22,664	3,091	19,573	2,154
.....
14	21	11	5	5	2	8	4	4	18	51	298	8	103	43	60	49
79,405	432,447	122,965	346,213	222,459	20,723	9,679	629	9,050	132,087	70,397	477,893	19,369	190,098	25,323	164,775	38,021
7	4	.....	2	1	1	4	3	1	7	14	51	2	18	4	14	3
18,143	14,189	.....	13,600	13,130	459	1,089	664	425	60,203	7,704	138,850	590	64,346	640	63,706	237
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	13,643	13,643	13,643	.....	.....	.....	.....	.....	428	734	18,209	.....	5,831	2,561	3,270	3,915
13	20	11	4	5	2	8	4	4	18	51	296	7	103	43	60	47
75,845	414,246	46,211	236,003	111,309	20,723	9,679	629	9,050	122,085	68,090	471,432	4,169	188,190	25,323	162,867	37,495
15,335	107,395	15,671	60,122	24,816	6,786	2,516	351	2,165	20,901	11,163	154,196	831	50,547	12,274	38,273	12,427
4.9	3.9	2.9	3.9	4.5	3.1	3.8	1.8	4.2	5.8	6.1	3.1	5.0	3.7	2.1	4.3	3.0
.....
1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	8	.....	10	.....	10	8
320	1,411	.....	1,411	.....	.....	.....	.....	.....	.....	1,877	6,461	.....	1,908	.....	1,908	526
4.0	160	.....	160	.....	.....	.....	.....	.....	.....	319	2,346	.....	401	.....	401	329
8.0	8.8	.....	8.8	.....	.....	.....	.....	.....	.....	5.9	2.8	.....	4.8	.....	4.8	1.6
5.0	3.9	2.9	3.9	4.5	3.1	3.8	1.8	4.2	5.8	6.6	3.2	5.0	3.7	2.1	4.3	3.0
89,454	429,848	74,794	238,504	106,914	9,636	3,059	0	3,059	87,953	9,028	114,133	2,843	49,194	11,882	37,312	3,337
1.18	1.04	1.62	1.01	0.96	0.46	0.32	0.00	0.34	0.72	0.13	0.24	0.68	0.26	0.47	0.23	0.09
279	1,149	.....	1,149	.....	.....	.....	.....	.....	.....	363	710	.....	461	.....	461	7
0.87	0.81	.....	0.81	.....	.....	.....	.....	.....	.....	0.19	0.11	.....	0.24	.....	0.24	0.01
7	22	9	1	9	3	54	11	43	14	16	260	7	87	38	49	40
375	6,779	3,571	505	1,884	819	9,095	838	8,257	19,035	4,184	118,413	831	26,255	11,611	14,644	10,624
.....
.....	40,622	.....	26,600	14,022	.....	.....	.....	.....	880	100	9,072	.....	2,361	27	2,334	603
7	14	3	.....	4	.....	.....	.....	.....	.....	.....	33	.....	13	3	10	6
15,000	60,690	12,234	36,728	10,548	1,160	.....	.....	.....	986	7,166	27,271	.....	21,842	431	21,411	1,529

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)		Columbia River--Continued							
		Snake River below Weiser, Idaho (I-E)--Continued				Snake River above Weiser, Idaho (I-F)			
		Powder River			Burnt River	Total ¹	Snake River direct	Malheur River	
		Total	Below Thief Valley Reservoir (5a)	Above Thief Valley Reservoir (5b)				Total ¹	Malheur River direct below Warm Springs (4a)
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ².....enterprises..	114	21	93	27	30	10	14	10
2	Area irrigated direct.....acres..	73,600	20,094	53,506	18,410	148,338	82,776	55,239	36,167
3	Multiple-purpose enterprises ².....enterprises..	1			1	91			
4	Area irrigated direct.....acres..	95	15	80	25	20	5	11	7
5	Complete-system enterprises ².....enterprises..	55,510	12,074	43,436	13,242	36,310	1,569	24,574	19,594
6	Enterprises by origin of water supply: ²								
7	No water from other enterprises.....enterprises reporting..	111	18	93	26	25	6	13	9
8	acres irrigated.....acres..	67,795	14,289	53,506	17,742	97,267	61,316	25,628	20,648
9	Part of water from other enterprises.....enterprises reporting..	3	3		1	3		1	1
10	acres irrigated.....acres..	5,805	5,805		668	34,037	4,426	29,611	15,519
11	All water from other enterprises.....enterprises reporting..					2	2		
12	acres irrigated.....acres..					17,034	17,034		
13	Enterprises by delivery of irrigation water: ²								
14	No water delivered.....enterprises reporting..	86	17	69	26	18	6	9	6
15	Water delivered direct to farms only.....enterprises reporting..	50,356	15,336	35,020	18,410	22,602	6,787	5,739	3,442
16	acres irrigated.....acres..	27	4	23		136	4	2	3
17	Water delivered to farms and to other enterprises.....enterprises reporting..	23,244	4,758	18,486		125,736	75,989	49,500	32,725
18	acres irrigated.....acres..	1		1	1	2		1	1
19	Water delivered to other enterprises only.....enterprises reporting..	102	20	82	23	20	6	11	8
20	All primary.....enterprises reporting..	62,402	19,206	43,196	15,995	48,554	4,485	37,336	20,015
21	acres irrigated.....acres..	11	1	10	3	7	4	2	1
22	Part primary, part supplemental.....enterprises reporting..	10,276	788	9,488	1,721	97,463	78,054	17,809	16,081
23	Primary irrigation.....acres irrigated.....acres..	922	100	822	694	641	237	94	71
24	Supplemental irrigation.....acres irrigated.....acres..					1			
25	All supplemental.....enterprises reporting..					1,680			
26	acres irrigated.....acres..								
27	Enterprises by number of farms irrigated direct: ²								
28	None.....enterprises reporting..	1		1	1	2		1	1
29	1-3.....enterprises reporting..	41	3	38	13	11	3	4	3
30	4-9.....enterprises reporting..	51	7	44	12	5	1	4	3
31	10-29.....enterprises reporting..	17	7	10	1	3		3	1
32	30-99.....enterprises reporting..	4	4			3	2		1
33	100-299.....enterprises reporting..					2	2		1
34	300-999.....enterprises reporting..					2		2	1
35	1,000 or more.....enterprises reporting..					2	2		2
36	Enterprises by acres irrigated direct: ²								
37	None.....enterprises reporting..	1		1	1	2		1	1
38	1-99 acres.....enterprises reporting..	11	1	10	1	3	2		
39	100-999 acres.....enterprises reporting..	79	12	67	23	11	3	7	5
40	1,000-2,999 acres.....enterprises reporting..	19	6	13	2	6		4	2
41	3,000-9,999 acres.....enterprises reporting..	4	2	2		3	2		2
42	10,000-29,999 acres.....enterprises reporting..					3	1	2	2
43	30,000 or more.....enterprises reporting..					2	2		
44	Quantities of water reported, 1949:								
45	Total obtained from all sources ⁴.....enterprises reporting..	114	21	93	27	19	8	8	6
46	percent of all enterprises reporting..	34	37	33	26	4	4	4	6
47	acre-feet.....acre-feet..	268,859	110,617	158,242	83,770	2,144,485	1,759,950	343,585	330,806
48	Surface sources.....enterprises reporting..	114	21	93	27	17	6	8	6
49	acre-feet.....acre-feet..	251,509	93,517	157,992	71,470	965,170	654,635	269,585	256,806
50	Pumped wells.....enterprises reporting..	1		1		1			
51	acre-feet.....acre-feet..	250		250		761			
52	Other enterprises.....enterprises reporting..	3	3		1	5		1	1
53	acre-feet.....acre-feet..	17,100	17,100		12,300	1,178,554	1,104,554	74,000	74,000
54	Conveyance loss ⁴.....enterprises reporting..	44	10	34	2	18	8	7	5
55	acre-feet.....acre-feet..	18,779	11,169	7,610	5,665	435,042	343,650	75,307	72,751
56	Delivered: ⁴								
57	Direct to farms.....enterprises reporting..	113	21	92	26	18	8	7	5
58	acre-feet.....acre-feet..	198,830	90,999	107,831	46,775	1,300,665	1,085,107	190,878	180,855
59	To other enterprises.....enterprises reporting..	28	4	24	1	10	4	5	4
60	acre-feet.....acre-feet..	44,117	1,890	42,227	30,000	405,712	328,152	77,400	77,200
61	For use other than irrigation.....enterprises reporting..	13	3	10	1	3	2		
62	acre-feet.....acre-feet..	7,133	6,559	574	1,330	3,066	3,041		
63	Delivered direct to farms for primary irrigation: ³								
64	Enterprises reporting.....enterprises..	113	21	92	26	18	8	7	5
65	Quantity delivered.....acre-feet..	196,199	90,076	106,123	45,379	583,975	369,003	190,292	122,725
66	Area supplied primary irrigation.....acres..	72,675	19,994	52,681	17,716	140,605	82,082	51,790	33,287
67	Quantity supplied per acre.....acre-feet..	2.7	4.5	2.0	2.6	4.2	4.5	3.7	3.7
68	Delivered direct to farms for supplemental irrigation: ³								
69	Enterprises reporting.....enterprises..	11	1	10	3	4	3	1	1
70	Quantity delivered.....acre-feet..	2,631	923	1,708	1,396	1,424	838	586	586
71	Area supplied supplemental irrigation.....acres..	922	100	822	694	253	182	71	71
72	Quantity supplied per acre.....acre-feet..	2.9	9.2	2.1	2.0	5.6	4.6	8.3	8.3
73	Total quantity per irrigated acre ⁶.....acre-feet..	2.7	4.5	2.0	2.7	4.3	4.5	3.8	3.8
74	Cost of water to farms for enterprises reporting quantity delivered, 1949: ³								
75	Cost for primary irrigation.....dollars..	38,834	27,077	11,757	19,925	649,559	388,431	231,525	111,640
76	Average cost per acre-foot.....dollars..	0.20	0.30	0.11	0.44	1.11	1.05	1.22	0.91
77	Cost for supplemental irrigation.....dollars..	97	0	97	145	1,598	1,165	433	433
78	Average cost per acre-foot.....dollars..	0.04	0.00	0.06	0.10	1.12	1.39	0.74	0.74
79	Measurement of water to farms, 1948: ³								
80	No water measured.....enterprises reporting..	99	19	80	27	12	4	5	3
81	acres irrigated.....acres..	62,293	16,194	46,099	18,410	7,989	1,439	2,960	2,414
82	Part of water measured.....enterprises reporting..	7		7		3			
83	acres irrigated.....acres..	6,108		6,108		74,479	74,479		
84	All water measured.....enterprises reporting..	2	2			14	3	8	6
85	acres irrigated.....acres..	3,900	3,900			65,870	6,858	52,279	33,753

¹Data for less than 3 enterprises in Basins I-F-5a, III-A-1, and III-A-6c included only in totals.
²For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represent acreage within the drainage basin or State.
³For interbasin and interstate enterprises, data represent characteristics with the drainage basin or State.
⁴For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.
⁵Less than 0.5.
⁶Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

