

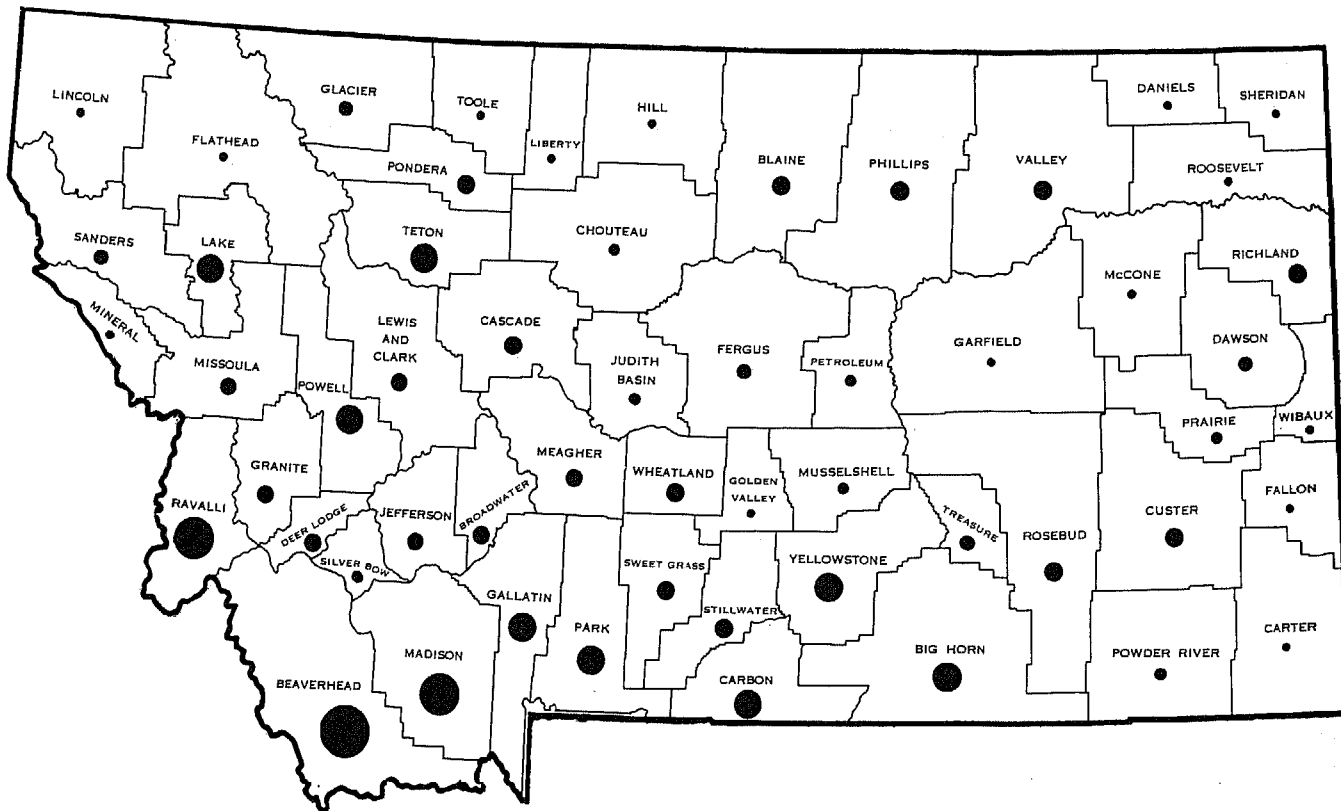
IRRIGATION OF AGRICULTURAL LANDS

MONTANA

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LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 10,000 - 19,999 ACRES
- 20,000 - 49,999 ACRES
- 50,000 - 99,999 ACRES
- 100,000 - 199,999 ACRES
- 200,000 - 299,999 ACRES

MONTANA: 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.....	35,085	59,247,434	13,457	1,716,792	1,808,576	5,393	81,256,990
1945.....	37,747	58,787,318	12,997	1,555,480	(*)	(*)	(*)
1940.....	41,823	46,451,594	15,087	3,578,602	1,711,409	5,555	67,352,505
1935.....	50,564	47,511,868	13,864	4,272,054	(*)	(*)	(*)
1930.....	47,495	44,659,152	11,925	5,343,035	1,594,912	4,461	50,319,204
1920.....	57,677	35,070,656	10,807	(**)	1,681,729	6,035	52,143,363
1910.....	26,214	15,545,603	8,970	(**)	1,679,084	5,534	22,970,958
1900.....	13,370	11,844,454	8,043	951,154	(*)	(*)	4,683,073
1890.....	5,603	1,964,197	3,706	350,882	(*)	(*)	1,623,195

* 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 228,476 acres of irrigated land used only for pasture.
⁴ Irrigated land from which crops were harvested.
⁵ Acreage or 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 State¹

Item (For definitions and explanations, see text)	Census of—			
	1950	1940	1930	1920
Enterprises.....total number..	5,393	5,555	4,461	6,035
Enterprises by type:				
Single-farm.....number..	4,159	5,123	4,237	(*)
Mutual:				
Unincorporated.....number..	994	126	180	(*)
Incorporated.....number..	158	132	(*)	(*)
Commercial.....number..	3	17	8	(*)
District.....number..	39	26	25	(*)
U.S. Bureau of Reclamation ¹.....number..	3	18	4	(*)
U.S. Bureau of Indian Affairs.....number..	7	8	5	(*)
State.....number..	29	² 105	1	(*)
City.....number..	1	(²)	(*)	(*)
Other.....number..	1	(*)	1	(*)
Irrigated land, total ³.....acres..	1,808,576	1,711,409	1,594,912	1,681,729
Acreage irrigated, by type of enterprise: ⁴				
Single-farm.....acres..	725,543	833,068	885,274	976,615
Mutual:				
Unincorporated.....acres..	323,918	158,840	418,862	393,257
Incorporated.....acres..	339,246	417,820	(*)	(*)
Commercial.....acres..	528	141,890	22,375	34,115
District.....acres..	236,790	186,002	83,870	35,153
U.S. Bureau of Reclamation ¹.....acres..	38,568	133,542	98,327	88,291
U.S. Bureau of Indian Affairs.....acres..	159,106	133,542	75,844	98,887
State.....acres..	51,752	² 9,110	350	20
City.....acres..	(⁵)	(²)	(*)	320
Other.....acres..	(*)	(*)	10,000	55,071
Acreage irrigated, by source of water: ^{4,6}				
Streams (and lakes).....acres..	1,858,449	1,854,426	1,505,706	1,577,062
Springs.....acres..	49,143	27,586	10,947	14,945
Flowing wells.....acres..	4,956	698	821	6,280
Pumped wells.....acres..	8,742	2,340	2,937	294
Sewage.....acres..	1,797	(⁶)	5	245
Other and not reported.....acres..	40,861	13,915	77,190	89,126
Irrigated land artificially drained.....acres..	189,497	146,322	85,189	62,872
Irrigated land in need of drainage.....acres..	182,614	52,071	59,995	50,901
Irrigation works:				
Diversion dams.....total number..	8,139	6,136	2,856	3,545
Reservoirs.....number..	629	517	282	468
Total capacity (reported).....acre-feet..	1,598,898	1,301,422	857,067	1,571,720
Reservoir dams.....total number..	629	468	326	523
Canals and ditches.....total length, miles..	15,499	15,702	15,957	22,496
Pipe lines.....total length, miles..	110	148	65	48
Flowing wells.....number..	79	44	40	41
Pumped wells.....number..	142	102	49	22
Average pumping lift (reported).....feet..	128	24	(*)	(*)
Pumps.....number..	1,304	680	233	299
Average pumping lift from all sources.....feet..	(*)	21	22	20
Capital investment, total.....dollars..	81,256,990	67,352,505	50,319,204	52,143,363
Capital investment by type of enterprise:				
Single-farm.....dollars..	9,232,621	6,238,533	7,595,504	15,543,287
Mutual:				
Unincorporated.....dollars..	5,089,725	4,514,497	8,466,936	6,692,877
Incorporated.....dollars..	10,831,665	7,245,601	(*)	(*)
Commercial.....dollars..	3,945,868	3,945,268	632,480	676,535
District.....dollars..	5,104,619	3,736,632	5,404,781	1,708,851
U.S. Bureau of Reclamation ¹.....dollars..	28,866,619	26,607,374	18,325,910	14,381,318
U.S. Bureau of Indian Affairs.....dollars..	16,466,016	14,079,522	9,589,693	8,193,390
State.....dollars..	1,719,857	² 985,078	3,900	100
City.....dollars..	(⁵)	(²)	(*)	105,538
Other.....dollars..	(*)	(*)	300,000	4,841,467

* Not available.
¹ For 1950, not including Bureau of Reclamation projects operated by water users, which are classified under other types of enterprises.
² Data for 1 "City and/or sewage" enterprise included with "State" enterprises in the 1940 Census.
³ 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.)
⁴ 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.
⁵ Data for less than 3 enterprises not shown separately.
⁶ Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City water," "Sewage," and "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "City water," "Sewage," "Streams gravity; wells flowing," "Streams pumped; wells pumped," and supplemental water from "Wells, pumped" and "Wells, flowing" are omitted.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation ¹		Commercial Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ²	
ENTERPRISES: FARMS AND LAND IRRIGATED								
Number of enterprises.....enterprises 1950..	5,393	4,159	994	158	39	3	16	40
..... 1940..	5,555	5,123	126	132	26	18	(*)	1130
Farms irrigated direct per enterprise.....farms 1949..	3.1	1.0	3.6	22.2	66.9	102.3	129.3	65.6
Area irrigated direct.....acres 1949..	1,874,901	725,543	323,918	339,246	236,790	38,568	207,348	1210,836
.....acres 1939..	1,880,272	833,068	158,840	417,820	101,506	186,002	(*)	183,036
Average per enterprise.....acres 1949..	348	174	326	2,147	6,072	12,856	12,959	5,271
CHARACTERISTICS OF ENTERPRISES, 1949								
Multiple-purpose enterprises.....enterprises..	8	.....	4	2	1	.....	.....	1
Area irrigated direct.....acres..	96,344	.....	225	570	6,050	.....	.....	89,499
Complete-system enterprises.....enterprises..	4,497	3,566	790	95	24	1	9	21
Area irrigated direct.....acres..	1,461,455	614,801	254,091	238,071	181,545	200	176,193	172,747
Enterprises by origin of water supply:								
No water from other enterprises.....enterprises reporting..	4,700	3,608	902	123	30	2	9	35
.....acres irrigated..	1,622,422	614,801	284,966	295,526	196,917	37,441	176,094	192,771
Part of water from other enterprises.....enterprises reporting..	327	247	55	20	2	.....	1	3
.....acres irrigated..	150,978	74,650	28,006	26,710	10,752	.....	9,772	10,860
All water from other enterprises.....enterprises reporting..	366	304	37	15	7	1	6	2
.....acres irrigated..	101,501	36,092	10,946	17,010	29,121	1,127	21,482	7,205
Enterprises by delivery of irrigation water:								
No water delivered.....enterprises reporting..	46	42	1	1	.....	.....	.....	2
Water delivered direct to farms only.....enterprises reporting..	5,065	4,110	812	99	23	2	9	19
.....acres irrigated..	1,261,409	723,700	260,758	153,803	70,092	1,327	68,068	51,729
Water delivered to farms and to other enterprises.....enterprises reporting..	240	7	161	46	13	1	7	12
.....acres irrigated..	613,492	1,843	63,160	185,443	166,698	37,241	139,280	159,107
Water delivered to other enterprises only.....enterprises reporting..	42	.....	20	12	3	.....	.....	7
Enterprises by primary and supplemental irrigation: ³								
All primary.....enterprises reporting..	4,900	3,983	757	112	26	2	12	20
.....acres irrigated..	1,499,269	708,527	253,340	234,514	164,951	38,368	126,131	99,569
Part primary, part supplemental.....enterprises reporting..	246	21	175	30	9	1	4	10
.....acres irrigated..	309,307	1,392	41,193	94,873	65,685	173	77,116	105,991
Supplemental irrigation.....acres irrigated..	35,238	1,194	15,665	7,947	5,174	27	4,101	5,231
All supplemental.....enterprises reporting..	159	113	41	3	1	.....	.....	1
.....acres irrigated..	31,087	14,430	13,720	1,912	980	.....	.....	45
Enterprises by number of farms irrigated direct:								
None.....enterprises reporting..	88	42	21	13	3	.....	.....	9
1-3.....enterprises reporting..	4,806	4,111	676	6	6	.....	.....	7
4-9.....enterprises reporting..	318	6	253	46	4	2	1	7
10-29.....enterprises reporting..	114	.....	39	62	6	.....	2	7
30-99.....enterprises reporting..	50	.....	5	26	12	.....	6	7
100-299.....enterprises reporting..	9	.....	.....	3	4	1	3	1
300-999.....enterprises reporting..	7	.....	.....	2	4	.....	4	1
1,000 or more.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	1
Enterprises by acres irrigated direct:								
None.....enterprises reporting..	88	42	21	13	3	.....	.....	9
1-29.....enterprises reporting..	1,155	1,110	45	.....	.....	.....	.....	3
30-99.....enterprises reporting..	1,589	1,393	187	5	1	.....	.....	8
100-499.....enterprises reporting..	1,901	1,314	556	16	6	1	1	3
500-999.....enterprises reporting..	364	183	136	35	7	.....	.....	6
1,000-2,999.....enterprises reporting..	216	99	46	57	7	1	2	6
3,000-9,999.....enterprises reporting..	61	15	3	27	10	.....	7	6
10,000-29,999.....enterprises reporting..	14	3	.....	4	3	.....	4	4
30,000 or more.....enterprises reporting..	5	.....	.....	1	2	1	2	1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949								
Surface water:								
Gravity only.....enterprises reporting..	4,429	3,237	977	150	32	1	8	32
.....acres irrigated..	1,529,943	649,463	317,120	311,916	155,228	200	110,953	96,016
Pumped only.....enterprises reporting..	719	691	12	6	5	1	6	4
.....acres irrigated..	104,582	46,809	4,447	26,333	20,345	1,127	35,178	5,521
Gravity and pumped.....enterprises reporting..	133	122	2	2	2	1	2	4
.....acres irrigated..	231,634	20,965	1,915	997	61,217	37,241	61,217	109,299
Ground water only (pumped from wells).....enterprises reporting..	55	54	1	.....	.....	.....	.....	.....
.....acres irrigated..	1,082	1,004	78	.....	.....	.....	.....	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	57	55	2	.....	.....	.....	.....	.....
.....acres irrigated..	7,660	7,302	358	.....	.....	.....	.....	.....
Stored water:								
None stored.....enterprises reporting..	4,800	3,742	907	115	19	2	7	15
.....acres irrigated..	1,293,513	658,821	288,572	244,549	68,241	1,327	62,296	32,003
Part stored.....enterprises reporting..	362	236	78	26	12	.....	4	10
.....acres irrigated..	372,668	52,604	33,610	51,411	70,942	.....	55,084	164,101
All stored.....enterprises reporting..	231	181	9	17	8	1	5	15
.....acres irrigated..	208,720	14,118	1,736	43,286	97,607	37,241	89,968	14,732

¹Not available.

²Data for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.

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

⁴For 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 ¹		Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Operated by Bureau	Operated by water users ²	
SOURCES OF SURFACE WATER, 1949³								
Streams (and lakes).....enterprises reporting..	5,091	3,870	981	158	39	3	16	40
acres irrigated..	1,858,449	712,856	320,153	339,246	236,790	38,568	207,348	210,836
Springs.....enterprises reporting..	344	332	11	1				
acres irrigated..	49,143	45,430	2,975	738				
Flowing wells.....enterprises reporting..	46	46						
acres irrigated..	4,956	4,956						
Drainage water.....enterprises reporting..	131	111	15	4	1		1	
acres irrigated..	40,861	14,672	3,855	5,669	16,665		16,665	
Sewage.....enterprises reporting..	8	8						
acres irrigated..	1,797	1,797						
Other sources.....enterprises reporting..								
acres irrigated..								
DRAINAGE OF IRRIGATED LAND, 1949								
Irrigated land drained:								
Enterprises reporting.....enterprises..	377	219	92	41	16	2	10	7
Area supplied primary irrigation.....acres..	582,395	73,522	48,269	131,661	182,796	38,368	172,248	107,779
Area artificially drained.....acres..	189,497	11,254	6,367	34,798	51,069	1,600	44,588	84,409
Irrigated land in need of drainage:								
Enterprises reporting.....enterprises..	714	479	160	45	19	2	11	9
Area supplied primary irrigation.....acres..	730,648	142,673	68,454	151,400	187,032	38,368	175,607	142,721
Area in need of drainage.....acres..	182,614	16,778	13,353	23,823	34,629	2,100	25,450	91,931
IRRIGATION WORKS, 1950								
Diversions dams.....enterprises reporting..	4,068	3,064	882	79	21	1	8	21
dams..	8,139	6,774	1,148	114	25	3	8	75
Diversions dams by material:								
Concrete or masonry.....dams..	449	240	121	42	7	2	1	37
Timber.....dams..	1,674	1,230	399	22	5	1	1	17
Earth and rock.....dams..	5,365	4,786	532	33	5		3	9
Other, mixed, and not reported.....dams..	651	518	96	17	8		3	12
Reservoirs.....enterprises reporting..	443	369	22	21	10	1	3	20
reservoirs..	629	501	35	32	14	3	5	44
Reservoirs for which capacity was reported.....number..	577	459	26	31	14	3	5	44
total capacity, acre-feet..	1,598,898	54,833	13,290	429,901	246,409	280,700	220,950	573,765
Reservoirs by capacity:								
1-99 acre-feet.....reservoirs..	369	352	9	1	2			5
100-999 acre-feet.....reservoirs..	124	99	11	6	5		1	3
1,000 acre-feet and over.....reservoirs..	84	8	6	24	7	3	4	36
Reservoir dams by material:								
Concrete or masonry.....dams..	20	14		1	4		1	1
Earth and rock.....dams..	551	460	22	18	8	3	2	40
Other, mixed, and not reported.....dams..	58	27	13	13	2		2	3
Canals and ditches.....enterprises reporting..	3,591	2,393	979	147	36	3	16	33
total length, miles..	15,499	5,781	2,921	2,172	1,644	365	1,580	2,615
Pipelines and siphons.....enterprises reporting..	219	143	36	17	9	2	4	12
total length, miles..	110	63	8	11	6	1	7	22
Tunnels.....enterprises reporting..	20		8	8	3		2	1
total length, feet..	17,586		1,455	6,352	8,379		7,654	1,400
Flowing wells.....enterprises reporting..	46	46						
wells..	79	79						
Pumped wells.....enterprises reporting..	112	109	3					
wells..	142	137	5					
Wells for which pumping lift was reported.....wells..	128	124	4					
Average pumping lift.....feet..	30	29	31					
Irrigation pumps.....enterprises reporting..	963	923	17	6	7	2	8	8
pumps..	1,304	1,200	22	24	17	4	19	37
Electric motors used for pumping.....enterprises reporting..	356	329	12	3	4	2	6	6
electric motors..	473	402	16	19	11	4	16	21
Other motors and engines used for pumping.....enterprises reporting..	657	643	6	3	3		2	2
other motors and engines..	792	764	6	5	6		3	11
SEASON OF IRRIGATION, 1949								
Water delivered only before July 1.....enterprises reporting..	440	410	27	3				
acres irrigated..	64,300	51,950	5,500	6,850				
Water delivered before and after July 1.....enterprises reporting..	4,582	3,412	946	149	37	3	16	35
acres irrigated..	1,780,501	650,700	312,523	331,526	236,790	38,568	207,348	210,394
Water delivered only after July 1.....enterprises reporting..	219	203	9	4				3
acres irrigated..	11,978	9,959	707	870				442
CAPITAL INVESTMENT, 1950 AND 1940								
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	67,352,505	6,238,533	4,514,497	7,245,601	3,736,632	26,607,374	(*)	19,009,868
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
Enterprises reporting.....enterprises 1950..	2,428	1,867	455	73	16	2	11	15
Amount.....dollars 1950..	13,904,485	2,994,088	575,228	3,586,064	1,367,987	2,259,245	3,988,042	3,121,873
Area irrigated direct.....acres 1949..	995,247	386,575	163,133	164,498	140,404	1,327	156,302	139,310
Total capital investment Jan. 1, 1950.....dollars 1950..	81,256,990	9,232,621	5,089,725	10,831,665	5,104,619	28,866,619	(*)	22,131,741
INDEBTEDNESS, 1950⁴								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	97		5	37	22	3	16	30
Amount.....dollars..	41,498,918		5,525	2,373,743	14,681,451	5,656,862	15,689,426	18,781,337
Area irrigated direct.....acres..	579,899		3,069	112,995	219,851	38,568	207,348	205,416
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	15			1	2		2	12
Amount.....dollars..	1,381,563			608	7,342		7,342	1,373,613
Area irrigated direct.....acres..	66,006			1,007	35,147		35,147	29,852

*Not available.

¹Data for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.

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.

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							Commercial, Indian, State, city, and other
	All types	Single- farm	Mutual		District	U.S. Bureau of Reclamation		
			Unincor- porated	Incor- porated		Operated by Bureau	Operated by water users ²	
COST OF WATER TO FARMS, 1949³								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	5,305	4,117	973	145	36	3	16	31
Cost.....dollars..	2,514,679	469,115	179,141	584,133	706,599	88,691	631,064	467,000
Area irrigated direct.....acres..	1,874,901	725,543	323,918	339,246	236,790	38,568	207,348	210,836
Cost per acre irrigated direct.....dollars..	1.34	0.65	0.55	1.72	2.98	2.30	3.04	2.31
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	3,735	2,868	778	71	10			8
acres irrigated..	1,039,806	610,312	271,635	125,811	12,678			19,370
\$1.00-\$1.99.....enterprises reporting..	474	312	115	36	3		1	8
acres irrigated..	303,749	48,805	39,349	94,113	72,686		68,967	48,796
\$2.00-\$4.99.....enterprises reporting..	585	466	57	31	17		2	12
acres irrigated..	470,103	46,321	9,607	106,803	129,207	38,368	121,080	139,797
\$5.00-\$9.99.....enterprises reporting..	298	266	17	6	5		1	3
acres irrigated..	51,771	14,267	2,121	11,506	20,804	200	17,301	2,873
\$10.00 or more.....enterprises reporting..	213	205	6	1	1			
acres irrigated..	9,472	5,838	1,206	1,013	1,415			
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	5,146	4,004	932	142	35	3	16	30
Cost.....dollars..	2,450,143	449,341	169,098	574,528	692,862	88,436	624,277	475,878
Area supplied primary irrigation.....acres..	1,808,576	709,919	294,533	329,387	230,636	38,541	203,247	205,560
Cost per acre supplied.....dollars..	1.35	0.63	0.57	1.74	3.00	2.29	3.07	2.32
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	405	134	216	33	10	1	4	11
Cost.....dollars..	64,536	19,774	10,043	9,605	13,737	255	6,787	11,122
Area supplied supplemental irrigation.....acres..	66,325	15,624	29,385	9,859	6,154	27	4,101	5,276
Cost per acre supplied.....dollars..	0.97	1.27	0.34	0.97	2.23	9.44	1.65	2.11
Cost to farms for purposes other than operation and maintenance: ⁴								
Enterprises reporting.....enterprises..	126		54	32	21	1	12	18
Cost.....dollars..	541,568		36,295	81,835	328,908	37,260	262,728	57,270
Area irrigated direct.....acres..	432,547		22,956	105,471	219,447	37,241	188,193	47,432
Cost per acre irrigated.....dollars..	1.25		1.58	0.78	1.50	1.00	1.40	1.21
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
Enterprises reporting.....enterprises..	49		12	24	10		5	3
Amount.....dollars..	106,880		3,029	15,390	40,676		32,885	47,785
Area irrigated direct.....acres..	341,683		12,172	116,713	154,971		134,101	57,827
QUANTITIES OF WATER REPORTED, 1949⁴								
Total obtained from all sources ⁵.....enterprises reporting..	998		779	141	38	3	16	37
acres-foot..	5,650,173		1,700,572	1,654,876	1,132,253	338,862	945,006	823,610
Surface sources.....enterprises reporting..	938		744	126	31	2	10	35
acres-foot..	5,184,577		1,589,382	1,557,427	928,786	331,812	759,784	777,170
Pumped wells.....enterprises reporting..	2		2					
acres-foot..	1,575		1,575					
Other enterprises.....enterprises reporting..	128		80	34	9		7	4
acres-foot..	464,021		109,615	97,449	203,467	7,050	185,222	46,440
Conveyance loss ⁵.....enterprises reporting..	954		754	132	35	3	16	30
acres-foot..	1,365,610		315,680	310,745	391,280	102,277	357,495	245,620
Delivered: ⁵								
Direct to farms.....enterprises reporting..	965		766	131	35	3	16	30
acres-foot..	3,543,947		1,247,946	1,136,002	670,430	41,948	559,070	447,621
To other enterprises.....enterprises reporting..	196		118	45	15	1	7	17
acres-foot..	627,795		136,612	175,619	24,150	194,637	3,548	96,777
For use other than irrigation.....enterprises reporting..	27		7	8	7		5	5
acres-foot..	112,821		334	32,510	46,393		24,893	33,564
Delivered direct to farms for primary irrigation:								
Enterprises reporting.....enterprises..	927		733	128	34	3	16	29
Quantity delivered.....acres-foot..	3,222,986		1,144,843	1,028,758	573,613	41,423	469,941	434,349
Area supplied primary irrigation.....acres..	1,036,244		244,949	317,272	230,332	38,541	203,247	205,150
Quantity per acre supplied.....acres-foot..	3.1		4.7	3.2	2.5	1.1	2.3	2.1
Delivered direct to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	203		149	32	10	1	4	11
Quantity delivered.....acres-foot..	178,534		102,359	48,151	14,721	31	7,033	13,272
Area supplied supplemental irrigation.....acres..	43,185		21,891	9,837	6,154	27	4,101	5,276
Quantity per acre supplied.....acres-foot..	4.1		4.7	4.9	2.4	1.1	1.7	2.5
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	1,929,164		123,653	549,611	692,711	88,436	624,277	474,753
Average cost per acre-foot.....dollars..	0.60		0.11	0.53	1.21	2.13	1.33	1.09
Cost for supplemental irrigation.....dollars..	41,939		7,220	9,605	13,737	255	6,787	11,122
Average cost per acre-foot.....dollars..	0.23		0.07	0.20	0.93	8.23	0.97	0.84
Measurement of water to farms:								
No water measured.....enterprises reporting..	838		707	87	25		5	19
acres..	511,292		210,054	165,143	93,303		49,571	42,792
Part of water measured.....enterprises reporting..	114		84	15	7	1	4	7
acres..	191,543		33,517	46,010	44,198	37,241	43,218	30,577
All water measured.....enterprises reporting..	192		123	48	7	2	7	12
acres..	409,259		47,887	124,016	99,289	1,327	114,559	136,740

¹Data for less than 3 enterprises receiving water from Bureau of Reclamation projects are included only for other types of enterprises in which they are classified.

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.

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..	4,497	3,770	543	52	132	2,414	1,866	203	14
Farms irrigated direct per enterprise.....farms..	3.0	2.7	1.8	1.0	17.9	1.2	2.1	13.0	305.0
Area irrigated.....acres..	1,461,455	1,204,591	71,588	1,082	184,194	92,423	537,372	435,045	396,615
Average per enterprise.....acres..	325	320	132	21	1,395	38	288	2,143	28,330
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	5	4	.....	.....	1	2	2	.....	1
Area irrigated.....acres..	90,233	734	.....	.....	89,499	43	691	.....	89,499
Type of enterprise:									
Single-farm.....enterprises..	3,566	2,868	524	51	123	2,206	1,262	95	3
.....acres..	614,801	558,628	34,031	1,004	21,138	80,816	326,423	170,562	37,000
Mutual:									
Unincorporated.....enterprises..	790	777	9	1	3	201	552	37	.....
.....acres irrigated..	254,091	248,910	3,560	78	1,543	11,117	181,968	61,006	.....
Incorporated.....enterprises..	95	89	4	.....	2	3	32	57	3
.....acres irrigated..	238,071	212,516	24,558	.....	997	237	18,984	154,523	64,327
Commercial.....enterprises..	3	2	1	.....	.....	2	1	.....	.....
.....acres irrigated..	528	483	45	.....	.....	118	410	.....	.....
District.....enterprises..	24	20	2	.....	2	1	11	8	4
.....acres irrigated..	181,545	116,410	3,918	.....	61,217	85	6,233	28,378	146,849
U.S. Bureau of Reclamation ⁴.....enterprises..	1	1	.....	.....	.....	.....	1	.....	.....
.....acres irrigated..	200	200	.....	.....	.....	.....	200	.....	.....
U.S. Bureau of Indian Affairs ⁴.....enterprises..	5	3	.....	.....	2	.....	1	1	3
.....acres irrigated..	148,106	48,807	.....	.....	99,299	.....	780	9,800	137,526
State.....enterprises..	12	9	3	.....	.....	1	5	5	1
.....acres irrigated..	23,663	18,187	5,476	.....	.....	50	1,924	10,776	10,913
City.....enterprises..	1	1	.....	.....	.....	.....	1	.....	.....
.....acres irrigated..	(⁵)	(⁵)	.....	.....	.....	.....	(⁵)	.....	.....
Enterprises by primary and supplemental irrigation: ⁶									
All primary.....enterprises reporting..	4,169	3,487	511	49	122	2,278	1,700	181	10
.....acres irrigated..	1,162,102	992,291	68,914	884	100,013	85,931	484,648	372,131	219,392
Part primary, part supplemental.....enterprises reporting..	197	189	4	1	3	61	114	18	4
.....acres irrigated..	249,045	169,937	268	20	78,820	1,879	26,992	49,353	170,821
Supplemental irrigation.....acres irrigated..	23,184	21,793	116	160	1,115	1,454	10,364	4,964	6,402
All supplemental.....enterprises reporting..	131	94	28	2	7	75	52	4	.....
.....acres irrigated..	27,124	20,570	2,290	18	4,246	3,159	15,368	8,597	.....
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	4,124	3,418	529	52	125	2,382	1,632	107	3
4-9.....enterprises reporting..	251	244	5	.....	2	30	203	18	.....
10-29.....enterprises reporting..	75	71	4	.....	.....	2	24	49	.....
30-99.....enterprises reporting..	33	27	4	.....	2	.....	7	25	1
100-299.....enterprises reporting..	6	5	1	.....	.....	.....	.....	4	2
300-999.....enterprises reporting..	7	5	.....	.....	.....	.....	.....	.....	7
1,000 and over.....enterprises reporting..	1	.....	.....	.....	1	.....	.....	.....	1
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	1,038	749	222	42	25	1,038	.....	.....	.....
30-99.....enterprises reporting..	1,376	1,114	208	8	46	1,376	.....	.....	.....
100-499.....enterprises reporting..	1,585	1,440	97	2	46	.....	1,585	.....	.....
500-999.....enterprises reporting..	281	270	4	.....	7	.....	281	.....	.....
1,000-2,999.....enterprises reporting..	162	150	9	.....	3	.....	.....	162	.....
3,000-9,999.....enterprises reporting..	41	37	2	.....	2	.....	.....	41	.....
10,000-29,999.....enterprises reporting..	10	8	1	.....	1	.....	.....	.....	10
30,000 and over.....enterprises reporting..	4	2	.....	.....	2	.....	.....	.....	4
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	3,770	3,770	.....	.....	.....	1,863	1,709	188	10
.....acres irrigated..	1,204,591	1,204,591	.....	.....	.....	74,724	503,000	393,830	233,037
Pumped only.....enterprises reporting..	543	.....	543	.....	.....	430	102	10	1
.....acres irrigated..	71,588	.....	71,588	.....	.....	14,030	20,342	24,354	12,862
Gravity and pumped.....enterprises reporting..	83	.....	.....	.....	83	38	37	5	3
.....acres irrigated..	178,374	.....	.....	.....	178,374	1,554	9,243	16,861	150,716
Ground water only (pumped from wells).....enterprises reporting..	52	.....	.....	52	.....	50	2	.....	.....
.....acres irrigated..	1,082	.....	.....	1,082	.....	702	380	.....	.....
Surface (gravity or pumped) and ground.....enterprises reporting..	49	.....	.....	.....	49	33	16	.....	.....
.....acres irrigated..	5,820	.....	.....	.....	5,820	1,413	4,407	.....	.....
Stored water:									
None stored.....enterprises reporting..	4,114	3,452	502	52	108	2,217	1,714	177	6
.....acres irrigated..	1,050,173	927,317	68,194	1,082	53,580	84,710	495,083	376,958	93,422
Part stored.....enterprises reporting..	222	193	11	.....	18	86	106	24	6
.....acres irrigated..	291,109	159,705	1,769	.....	129,635	3,835	32,304	54,744	200,226
All stored.....enterprises reporting..	161	125	30	.....	6	111	46	2	2
.....acres irrigated..	120,173	117,569	1,625	.....	979	3,878	9,985	3,343	102,967

¹"Complete-system" irrigation enterprises are those that (1) delivered 90 percent or more of their irrigation water 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 and from flowing wells.
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..	4,205	3,541	538		126	2,162	1,828	201	14
acres irrigated..	1,445,245	1,190,897	71,049		183,299	86,517	529,696	432,417	396,615
Springs.....enterprises reporting..	326	306	12		8	240	77	9	
acres irrigated..	44,144	42,990	132		1,022	6,962	21,534	15,648	
Flowing wells.....enterprises reporting..	38	29	1		8	24	13	1	
acres irrigated..	4,702	3,877	6		819	707	2,395	1,600	
Drainage water.....enterprises reporting..	113	90	13		10	61	47	4	1
acres irrigated..	38,744	35,677	767		2,300	2,084	12,295	7,700	16,665
Sewage.....enterprises reporting..	6	4			2	1	5		
acres irrigated..	1,661	1,248			413	5	1,656		
Other sources.....enterprises reporting..									
acres irrigated..									
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	290	249	30	1	10	82	158	43	7
acres supplied primary irrigation.....acres..	418,227	247,542	22,102	90	148,493	3,601	53,950	121,950	238,726
acres artificially drained.....acres..	161,597	41,882	6,978	20	112,717	1,990	10,377	21,819	127,411
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	576	516	38	4	18	184	323	60	9
acres supplied primary irrigation.....acres..	466,444	286,204	30,531	92	149,617	8,976	101,498	153,510	202,460
acres in need of drainage.....acres..	132,983	46,642	3,907	29	82,405	2,571	15,091	24,044	91,277
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	3,514	3,363	59	2	90	1,743	1,601	160	10
dams..	6,964	6,639	124	2	199	2,604	3,544	753	63
Diversion dams by material:									
Concrete or masonry.....dams..	349	304	10		35	96	167	57	29
Timber.....dams..	1,328	1,277	19		32	443	752	119	14
Earth or rock.....dams..	4,715	4,516	82	2	115	1,797	2,385	518	15
Other, mixed, and not reported.....dams..	572	542	13		17	268	240	59	5
Reservoirs.....enterprises reporting..	373	305	41		27	203	140	22	8
reservoirs..	527	424	56		47	257	205	37	28
Reservoirs for which capacity was reported.....reservoirs..	488	390	54		44	236	193	31	28
total capacity, acre-feet..	706,749	547,642	4,809		154,298	17,769	40,810	75,120	573,050
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	340	272	44		24	201	129	8	2
100-999 acre-feet.....reservoirs..	97	80	10		7	30	56	7	4
1,000 acre-feet and over.....reservoirs..	51	38			13	5	8	16	22
Reservoir dams by material:									
Concrete or masonry.....dams..	16	14	1		1	8	3	1	4
Earth or rock.....dams..	468	373	53		42	235	186	25	22
Other, mixed, and not reported.....dams..	43	37	2		4	14	16	11	2
Canals and ditches.....enterprises reporting..	2,948	2,713	146	6	83	1,308	1,450	176	14
total length, miles..	11,842	9,560	472	4	1,806	1,711	4,377	2,014	3,740
Pipelines and siphons.....enterprises reporting..	175	94	57	8	16	106	43	18	8
total length, miles..	100	63	23	1	13	50	30	7	12
Tunnels.....enterprises reporting..	13	11			2	1	5	4	3
total length, feet..	14,326	10,272			4,054	95	1,290	2,040	10,901
Flowing wells.....enterprises reporting..	38	29	1		8	24	13	1	
wells..	60	45	2		13	37	22	1	
Pumped wells.....enterprises reporting..	100			52	48	83	17		
wells..	125			64	61	101	24		
Wells for which pumping lift was reported.....wells..	112			57	55	92	20		
Average pumping lift.....feet..	29			33	30	28			
Irrigation pumps.....enterprises reporting..	723	8	533	52	130	551	154	15	3
pumps..	985	9	735	65	176	696	225	52	12
Electric motors used for pumping.....enterprises reporting..	255	5	174	33	43	174	69	11	1
electric motors..	342	5	238	38	61	199	97	38	8
Other motors and engines used for pumping.....enterprises reporting..	500	7	385	19	89	401	93	4	2
other motors and engines..	614	7	472	25	110	477	124	9	4
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	415	357	47		11	265	145	5	
acres irrigated..	56,593	53,170	2,776		647	10,620	37,747	8,226	
Water delivered before and after July 1.....enterprises reporting..	3,798	3,244	394	48	112	1,927	1,660	197	14
acres irrigated..	1,379,679	1,131,182	65,023	1,040	182,434	75,257	484,275	423,532	396,615
Water delivered only after July 1.....enterprises reporting..	187	96	82	2	7	160	27		
acres irrigated..	10,616	7,157	2,593	26	840	4,352	6,264		
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	1,981	1,493	364	35	89	957	904	111	9
Amount.....dollars..	10,121,169	3,634,264	3,827,521	35,215	2,624,169	922,968	2,064,038	3,424,691	3,709,472
Area irrigated.....acres..	807,167	606,920	53,317	996	145,934	38,953	272,999	233,821	261,394
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	54	42	7		5	4	11	29	10
Amount.....dollars..	27,456,028	12,244,930	1,858,928		13,354,170	27,910	237,164	2,937,854	24,255,100
Area irrigated.....acres..	421,097	228,818	31,129		161,150	259	6,830	88,393	325,615
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	5	3			2		1	3	1
Amount.....dollars..	27,470	15,608			11,862		10,000	15,128	2,342
Area irrigated.....acres..	46,681	4,234			42,447		727	13,307	32,647

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

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

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

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

⁵Not reported by single-farm enterprises.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
COST OF WATER TO FARMS⁴									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	4,497	3,770	543	52	132	2,414	1,866	203	14
Cost.....dollars..	1,824,411	986,502	304,026	4,215	529,668	123,374	326,978	454,030	920,029
Area irrigated.....acres..	1,461,455	1,204,591	71,588	1,082	184,194	92,423	537,372	435,045	396,615
Cost per acre irrigated.....dollars..	1.25	0.82	4.25	3.90	2.88	1.33	0.61	1.04	2.32
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	3,312	3,195	60	6	51	1,639	1,526	144	3
acres irrigated.....	840,736	823,441	6,608	409	10,278	66,239	445,618	291,879	37,000
\$1.00-\$1.99.....enterprises reporting..	372	268	65	3	36	169	169	31	3
acres irrigated.....	229,940	201,298	8,836	237	19,569	7,762	49,000	74,977	98,201
\$2.00-\$4.99.....enterprises reporting..	440	213	192	9	26	287	124	21	8
acres irrigated.....	358,511	169,653	35,028	217	153,613	11,039	32,430	53,628	261,414
\$5.00-\$9.99.....enterprises reporting..	214	65	125	13	11	172	37	5	.....
acres irrigated.....	25,432	6,830	17,857	163	582	5,099	8,200	12,133	.....
\$10.00 or more.....enterprises reporting..	159	29	101	21	8	147	10	2	.....
acres irrigated.....	6,836	3,369	3,259	56	152	2,284	2,124	2,428	.....
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	4,366	3,676	515	50	125	2,339	1,814	199	14
Cost.....dollars..	1,777,310	955,900	296,246	4,114	521,050	115,575	310,772	441,995	908,968
Area supplied primary irrigation.....acres..	1,411,147	1,162,228	69,182	904	178,833	87,810	511,640	421,484	390,213
Cost per acre supplied.....dollars..	1.26	0.82	4.34	4.55	2.91	1.32	0.61	1.05	2.33
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	328	283	32	3	10	136	166	22	4
Cost.....dollars..	47,101	30,602	7,780	101	8,618	7,799	16,206	12,035	11,061
Area supplied supplemental irrigation.....acres..	50,308	42,363	2,406	178	5,361	4,613	25,732	13,561	6,402
Cost per acre supplied.....dollars..	0.94	0.72	3.23	0.57	1.61	1.69	0.63	0.89	1.73
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....enterprises..	79	70	5	.....	4	12	35	27	5
Cost.....dollars..	304,202	152,164	35,402	.....	116,636	2,172	22,809	90,744	188,477
Area irrigated.....acres..	257,345	173,271	12,423	.....	71,651	776	14,305	77,950	164,314
Cost per acre irrigated.....dollars..	1.18	0.88	2.85	.....	1.63	2.80	1.59	1.16	1.15
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....enterprises..	38	33	3	.....	2	1	10	18	9
Amount.....dollars..	67,098	54,861	2,123	.....	10,114	175	2,940	18,411	45,572
Area irrigated.....acres..	89,122	36,950	9,725	.....	42,447	90	4,601	66,660	17,771
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶.....enterprises reporting..	749	726	15	1	7	147	492	99	11
acres-foot..	3,732,277	3,220,622	116,205	465	394,985	63,658	1,037,544	1,267,170	1,363,905
Surface sources.....enterprises reporting..	747	725	15	.....	7	146	491	99	11
acres-foot..	3,727,467	3,216,277	116,205	.....	394,985	63,193	1,034,454	1,265,915	1,363,905
Pumped wells.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....	.....
acres-foot..	465	.....	.....	465	.....	.....	.....	.....	.....
Other enterprises.....enterprises reporting..	13	13	.....	.....	.....	.....	10	3	.....
acres-foot..	4,345	4,345	.....	.....	.....	.....	3,090	1,255	.....
Conveyance loss ⁶.....enterprises reporting..	718	697	14	.....	7	137	473	97	11
acres-foot..	956,395	766,426	35,955	.....	154,014	11,307	186,288	272,032	486,768
Delivered: ⁶									
Direct to farms.....enterprises reporting..	747	726	15	1	7	147	492	99	11
acres-foot..	2,689,682	2,368,996	80,250	465	239,971	52,160	847,191	962,482	827,849
To other enterprises.....enterprises reporting..	26	25	.....	.....	1	2	15	8	.....
acres-foot..	23,923	22,923	.....	.....	1,000	5	374	10,159	13,385
For use other than irrigation.....enterprises reporting..	14	14	.....	.....	.....	3	4	5	2
acres-foot..	62,277	62,277	.....	.....	.....	186	3,691	22,497	35,903
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	722	700	14	1	7	140	474	97	11
Quantity delivered.....acres-foot..	2,508,384	2,189,124	80,115	465	238,680	44,805	768,611	921,682	773,286
Acreage supplied primary irrigation.....acres..	764,729	566,760	35,994	78	161,897	7,062	159,727	244,727	353,213
Quantity per acre supplied.....acres-foot..	3.3	3.9	2.2	6.0	1.5	6.3	4.8	3.8	2.2
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	157	155	1	.....	1	34	98	21	4
Quantity delivered.....acres-foot..	138,407	136,981	135	.....	1,291	7,355	76,114	40,800	14,138
Acreage supplied supplemental irrigation.....acres..	32,605	31,484	45	.....	1,076	923	15,219	10,061	6,402
Quantity per acre supplied.....acres-foot..	4.2	4.4	3.0	.....	1.2	8.0	5.0	4.1	2.2
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	1,397,973	726,930	173,846	.....	497,197	5,550	100,887	385,568	905,968
Average cost per acre-foot.....dollars..	0.56	0.33	2.17	.....	2.08	0.12	0.13	0.42	1.17
Cost for supplemental irrigation.....dollars..	29,581	27,047	135	.....	2,399	672	11,013	6,835	11,061
Average cost per acre-foot.....dollars..	0.21	0.20	1.00	.....	1.86	0.09	0.14	0.17	0.78
Measurement of water to farms:									
No water measured.....enterprises reporting..	657	639	11	1	6	173	424	57	3
acres..	363,365	321,348	10,829	78	31,110	9,586	141,033	120,470	92,276
Part of water measured.....enterprises reporting..	81	78	1	.....	2	9	56	15	1
acres..	120,206	75,106	2,653	.....	42,447	505	21,141	65,913	32,647
All water measured.....enterprises reporting..	123	115	7	.....	1	12	73	31	7
acres..	334,118	220,544	24,075	.....	89,499	727	28,855	69,844	234,692

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

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

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

⁴Enterprises with reported cost of \$0 in 1949 are included.

⁵Not reported by single-farm enterprises.

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

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)	Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon	Fergus	Flat-head	Gallatin
1 Irrigated farms.....number 1950..	60	254	5	108	87	7	103	113	691
2	34	203		87	124	1	70	78	617
3 Proportion of all farms.....percent 1950..	5.2	50.2	0.9	14.2	75.0	1.7	8.6	8.0	61.2
4 Land in irrigated farms.....acres 1950..	349,685	836,115	17,891	88,631	210,437	76,160	404,037	27,940	564,180
5	5,828.1	3,291.8	3,578.2	820.7	2,418.8	10,880.0	3,923.7	247.3	816.5
6 Value of land and buildings.....average per farm, dollars 1950..	63,702	35,740	24,266	19,074	28,773	86,200	65,443	20,495	36,089
7	13.88	11.89	11.86	20.53	42.85	7.00	18.63	77.77	41.12
8 Proportion of irrigated farms reporting value.....percent 1950..	58	93	140	85	92	86	104	81	89
9 Proportion of land in irrigated farms for which value was reported.....percent 1950..	46	85	80	96	26	97	93	86	96
Land in irrigated farms according to use, 1949:									
10 Cropland harvested.....farms reporting..	59	249	5	104	84	7	103	108	652
11	22,673	28,012	3,079	15,525	16,665	7,999	42,677	9,558	110,918
12	10,393	8,446		1,774	6,342	490	3,371	762	21,558
13 Cropland not harvested and not pastured.....acres..	15,388	4,498	1,866	4,892	3,546	3,016	19,085	3,433	42,025
14	1,543	15,097		1,490	49,027	55	37,761	8,049	17,956
15 Woodland pastured.....acres..	295,394	761,097	12,688	63,075	72,859	64,207	293,593	3,202	350,888
16	59	332	5	93	70	7	102	97	656
17 Land pastured, total.....farms reporting..	307,330	784,640	12,688	66,339	128,228	64,752	334,725	12,013	390,402
18	4,927	25,541	885	12,808	17,244	599	10,956	3,354	76,933
19	1944.	14,205		10,044	19,333	100	12,163	3,114	72,664
20 Land irrigated by sprinklers.....farms reporting 1949..	3	4	1					2	5
21	180	270	16					41	322
Irrigated land in farms according to use, 1949:									
22 Irrigated cropland harvested.....farms reporting..	53	248	4	104	80	6	102	99	619
23	4,041	21,962	829	10,810	15,171	375	10,190	2,552	59,575
24	9	106	2	41	24	3	13	47	427
25 Irrigated pasture.....farms reporting..	640	2,943	56	742	2,018	188	766	759	16,997
26	4	15	1	15	7	1	7	112	112
27 Irrigated wild grass pasture.....farms reporting..	82	1,457	40	399	1,025	63	465	268	3,709
28	5	72	1	30	14	2	7	28	339
29	558	1,486	16	343	993	125	301	491	13,218
30									
31 Irrigated cropland not harvested and not pastured.....farms reporting..	4	41		40	1	2		4	20
	246	636		1,256	55	36		43	431
Irrigated farms by acres irrigated in 1949:									
32 1-9 acres.....farms reporting..	6	20		10	19		9	48	66
33	4	20	1	4	6		7	20	40
34 20-29 acres.....farms reporting..	7	11		3	5		6	5	55
35	8	24	1	3	10	2	24	16	78
36 50-99 acres.....farms reporting..	19	101		17	14	3	20	19	174
37	11	49	2	62	9	1	21	3	188
38	5	29	1	9	24	1	16	2	90
Irrigated farms by tenure of operator, 1950:									
39 Full owners.....number..	12	149	1	64	52		37	74	349
40	35	69	4	29	23	4	50	30	151
41	2	5			1		6	1	9
42	11	31		15	11	2	10	8	182
Land in wholly and in partly irrigated farms:									
43 Wholly irrigated farms.....number 1950..	9	200		67	63		11	31	210
44	17,313	498,875		21,054	57,232		62,355	1,800	69,640
45	598	16,121		6,860	10,897		2,237	474	20,570
46	598	19,006		8,282	11,956		2,461	758	25,758
47 Partly irrigated farms.....number 1950..	51	54	5	41	24	7	92	82	481
48	332,372	337,240	17,891	67,577	153,205	76,160	341,682	26,140	494,540
49	50	49	5	37	21	7	92	77	442
50	22,075	11,891	3,079	8,665	5,768	7,999	40,440	9,084	90,348
51	4,329	6,535	885	4,526	5,288	599	8,495	2,596	51,175
52	44	48	4	37	17	6	91	68	409
53	3,443	5,841	829	3,950	4,274	375	7,953	2,078	39,005
Characteristics of wholly irrigated and nonirrigated farms:									
54 Wholly irrigated farms.....number 1950..	9	200		67	63		11	31	210
55 Average acreage per farm:									
56 All land.....acres 1949..	1,923.7	2,494.4		314.2	908.4		5,668.6	58.1	331.6
57	66.4	80.6		102.4	173.0		203.4	15.3	98.0
58 Land in bearing and nonbearing fruit orchards, planted nut trees, and vineyards.....acres 1949..		(1)		(1)	0.1			0.3	(1)
59		0.1		(1)	0.1			1.6	0.1
60	21.9	23.5		43.3	13.0		34.1	2.4	50.4
61	37.6	34.3		24.7	151.3		168.5	7.5	42.6
62									
63									
64	19,091	30,416		17,326	34,834		30,318	29,000	21,511
65 Nonirrigated farms.....number 1950..	1,083	252	583	650	29	407	1,100	1,305	438
66 Average acreage per farm:									
67 All land.....acres 1949..	1,725.1	6,256.7	1,345.2	2,025.1	249.9	2,313.3	1,484.8	230.6	855.1
68	420.9	130.0	441.6	316.1	13.4	412.8	273.3	51.7	145.0
69	(1)	(1)	(1)	(1)		(1)	(1)	0.1	(1)
70	(1)		(1)	(1)		(1)	(1)	(1)	(1)
71	407.1	71.9	407.5	242.0	6.1	320.0	218.8	32.9	119.5
	16.5	55.6	29.1	46.0	9.3	69.3	54.0	17.4	26.4
72									
73	294	93	142	221	24	86	452	1,009	243
74	602	138	311	336	1	255	454	199	96
75	187	21	130	93	4	66	194	97	99
	44,472	52,615	24,466	20,604	5,750	24,682	30,162	14,775	23,728
Irrigated farms and irrigated land by origin of water, 1949:									
76 Individually operated supply works and—									
77	55	57	2	5	59	7	70	64	105
78	4,552	8,814	576	148	16,078	599	7,364	1,690	9,111
79	1	3					2	1	18
80	100	899					260	285	2,009
81									3
82									3,875
No individually operated supply works but—									
83	4	191	3	102	27		30	44	494
84	275	15,163	309	12,560	1,059		3,082	1,171	46,325
85									

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.]

Table with 12 columns: Item (For definitions and explanations, see text), Pondera, Powder River, Powell, Prairie, Ravalli, Rich-land, Roosevelt, Rosebud, Sanders, Sheridan. Rows include irrigated farms, land in irrigated farms, value of land and buildings, and various farm characteristics.

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]

Table with 11 columns: Item (For definitions and explanations, see text), Silver Bow, Still-water, Sweet Grass, Teton, Toole, Treasure, Valley, Wheat-land, Wibaux, Yellow-stone. Rows include irrigated farms, land in irrigated farms, irrigated cropland, and characteristics of irrigated and nonirrigated farms.

1 Less than 0.05.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Beaverhead	Big Horn	Blaine	Broadwater	Carbon	Carter	Cascade
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	5,393	350	78	121	110	241	20	67
2 1940..	5,555	345	36	63	139	253	8	97
3 Intercounty enterprises.....enterprises 1950..	46	6	2	2		5		1
4 Irrigated farms ¹.....farms 1950..	13,457	338	432	367	220	787	20	333
5 Average per enterprise.....farms 1950..	2.5	1.0	5.5	3.0	2.0	3.3	1.0	5.0
6 Farms irrigated direct per enterprise ².....farms 1950..	3.1	1.4	7.7	3.5	2.6	4.0	1.0	5.1
7 Irrigated land ¹.....acres 1949..	1,808,576	252,563	55,739	47,897	40,118	86,166	3,133	33,273
8 acres 1939..	1,711,409	209,548	56,380	48,917	27,617	84,170	127	31,515
9 Average per irrigated farm.....acres 1949..	134.4	747.2	129.0	130.5	182.4	109.5	156.6	99.9
10 Average per enterprise.....acres 1949..	335	722	715	396	365	358	157	497
11 Average acreage irrigated direct per enterprise ².....acres 1949..	349	753	737	397	390	365	157	497
Type of enterprise, 1950:								
12 Single-farm.....enterprises..	4,159	265	68	108	72	149	20	62
13 acres irrigated..	725,543	211,391	7,818	7,385	15,043	16,510	3,133	5,998
Mutual:								
14 Unincorporated.....enterprises..	994	78	1	5	34	52		2
15 acres irrigated..	323,918	39,584	(³)	855	14,028	19,478		(³)
16 Incorporated.....enterprises..	158	7	7	2	3	37		1
17 acres irrigated..	339,246	12,418	20,256	(³)	6,345	51,376		(³)
18 Commercial.....enterprises..	3							
19 acres irrigated..	528							
20 District.....enterprises..	39			5		2		2
21 acres irrigated..	236,790			30,773		(³)		(³)
22 U. S. Bureau of Reclamation ⁴.....enterprises..	3							
23 acres irrigated..	38,568							
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	7		1	1				
25 acres irrigated..	158,106		29,407	8,500				
26 State.....enterprises..	29		1		1	1		
27 acres irrigated..	51,752		(³)		(³)			
28 City.....enterprises..	1							
29 acres irrigated..	(³)							
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30 Gravity only.....enterprises reporting..	4,420	347	59	43	107	215	20	36
31 acres irrigated..	1,529,943	262,223	56,878	18,422	42,746	85,990	3,133	29,467
32 Pumped only.....enterprises reporting..	719	1	13	74	3	20		26
33 acres irrigated..	104,582	300	508	20,851	193	1,416		3,191
34 Gravity and pumped.....enterprises reporting..	133	1	3	4		3		1
35 acres irrigated..	231,634	360	56	8,780		166		215
36 Ground water only (pumped from wells).....enterprises reporting..	55		2					1
37 acres irrigated..	1,082		14					90
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	57	1	1			3		3
39 acres irrigated..	7,660	510	60			313		310
Stored water:								
40 None stored.....enterprises reporting..	4,800	316	72	97	106	196	11	61
41 acres irrigated..	1,293,513	248,711	27,964	7,337	41,039	62,610	1,720	9,792
42 Part stored.....enterprises reporting..	362	30	1	10	4	43	2	4
43 acres irrigated..	372,668	14,535	29,407	19,277	1,900	25,095	191	8,829
44 All stored.....enterprises reporting..	231	4	5	14		2	7	2
45 acres irrigated..	208,720	147	145	21,439		180	1,222	14,652
Sources of surface water, 1949:⁵								
46 Streams (and lakes).....enterprises reporting..	5,091	346	73	117	104	234	19	62
47 acres irrigated..	1,858,449	262,937	57,342	48,007	40,253	87,346	3,093	32,870
48 Springs.....enterprises reporting..	344	28	4		14	16	1	4
49 acres irrigated..	49,143	15,173	330		4,647	3,356	40	223
50 Flowing wells.....enterprises reporting..	46		2	1		2		2
51 acres irrigated..	4,956		412	100		265		250
52 Drainage water.....enterprises reporting..	131	1	3	6	2	2		2
53 acres irrigated..	40,861	510	330	92	915	580		190
54 Sewage.....enterprises reporting..	8							
55 acres irrigated..	1,797							
56 Other sources.....enterprises reporting..								
57 acres irrigated..								
Drainage of irrigated land:⁶								
Irrigated land drained:								
58 Enterprises reporting.....enterprises 1949..	377	31	5	15	4	18		8
59 Area supplied primary irrigation.....acres 1949..	582,395	38,647	25,647	34,477	2,482	13,880		27,286
60 Area artificially drained.....acres 1949..	189,497	2,710	10,810	5,956	486	1,954		3,185
61 acres 1939..	146,322		21,800	965		160		12,431
Irrigated land in need of drainage:								
62 Enterprises reporting.....enterprises 1949..	714	58	6	19	11	30		11
63 Area supplied primary irrigation.....acres 1949..	730,648	62,058	46,439	40,211	2,258	27,221		20,714
64 Area in need of drainage.....acres 1949..	182,614	5,459	16,388	20,046	417	2,416		2,090
65 acres 1939..	52,071		6,600	15,420		990		1,700

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

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

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

Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon	Fergus	Flathead	Gallatin	Garfield	Glacier	Golden Valley	Granite	Hill	Jefferson	Judith Basin	
59	64	3	6	74	6	83	84	225	25	8	23	133	36	124	42	1
77	62	3	27	81	7	116	135	301	19	5	28	110	48	123	39	2
1	1		2	3		1	2	2		2	1		1	2		3
60	254	5	108	87	7	103	113	691	29	53	45	154	49	180	50	4
1.0	4.0	1.7	13.5	1.2	1.2	1.2	1.3	3.1	1.2	6.6	2.0	1.2	1.4	1.5	1.2	5
1.0	4.2	1.7	13.6	1.4	1.0	1.3	1.7	3.8	1.0	6.5	2.4	1.6	1.6	2.1	1.2	6
7,527	26,239	1,026	12,806	20,123	519	11,050	4,119	82,919	1,008	14,794	3,674	31,879	3,722	25,951	5,722	7
5,085	14,851	487	1,705	18,371	90	14,435	7,376	104,705	313	7,822	3,459	24,004	6,592	22,869	7,984	8
125.4	103.3	205.2	118.6	231.3	74.1	107.3	36.5	120.0	34.8	279.1	81.6	207.0	76.0	144.2	114.4	9
123	410	342	1,601	272	86	133	49	369	40	1,849	160	240	103	209	136	10
128	411	342	1,601	284	86	135	53	406	40	1,849	168	249	103	214	136	11
57	61	2	5	63	6	70	70	130	25	6	18	101	32	87	38	12
7,252	9,074	(3)	148	17,145	519	7,098	2,059	14,587	1,008	710	1,548	16,314	1,607	12,249	4,621	13
2		1		10		11	12	78			4	30	1	31	3	14
(3)		(3)		3,151		3,684	1,403	37,123			1,914	9,389	(3)	10,454	374	15
	2		1	1		1		17				1	1	6		16
	(3)		(3)	(3)		(3)		39,718				(3)	(3)	3,787		17
																18
																19
	1		2				1									20
	(3)		(3)				(3)									21
										1			1			22
							1			1						23
										14,084			780			24
							1				1	1			1	25
						(3)					(3)	(3)			(3)	26
																27
																28
																29
27	37	2	4	71	5	73	34	216	18	7	20	128	11	115	40	30
5,038	14,421	1,010	128	19,680	459	9,850	3,371	85,203	763	14,794	3,715	33,000	2,122	24,291	5,598	31
30	19	1	3		1	10	41	3	6		2	1	20	3	1	32
2,249	10,929	16	11,855		60	1,370	1,003	225	189		55	4	1,410	459	44	33
1	6		1	2			2	2	1	1			5	2	1	34
40	908		823	1,288			8	4,685	56		84		190	1,614	80	35
	1						6					3		4		36
	1						10					46		126		37
1	1			1			1	4				1				38
200	22			68			70	1,315				128				39
50	52	3	6	69		73	76	217	11	6	13	122	17	105	34	40
6,365	24,711	1,026	12,701	15,405		10,187	3,049	87,746	415	710	1,333	24,144	905	22,136	4,445	41
5	6		4	1	6		7	6	2	1	3	8	5	16	3	42
895	1,048		4,718	30	765	1,383	3,527	176	14,084	1,796	8,459	1,841	4,202	394	43	43
4	6		2	1	5	4	1	2	12	1	7	3	14	3	5	44
267	522		105	913	489	268	30	155	417		725	575	976	152	883	45
57	63	3	6	65	6	78	70	220	21	7	22	126	34	109	38	46
7,517	26,280	1,026	12,783	20,692	519	10,855	4,359	91,238	975	14,784	3,834	33,084	3,702	25,316	5,646	47
3	1		2	11		4	10	10			1	5	2	18	5	48
2,510	40		23	747		222	347	540			20	1,289	34	2,213	690	49
				1		1	1	1	2	1				1	1	50
				80		40	8	120	176	10					6	51
				1		5		2	5		2	9	6	1		52
				2,150		803		1,608	99		168	1,865	226	152		53
																54
																55
																56
																57
	5		2				6	9	2		2	34	1	10		58
	6,832		12,254				381	19,397	92		1,376	14,075	241	4,664		59
	5,765		560				339	1,576	92		90	1,591	2	644		60
392	500		(*)	995			60	185				75				61
	9		1	6		3	5	14			1	50	5	19	1	62
	12,362		11,431	1,920		702	259	23,776			450	17,154	786	8,950	727	63
	1,540		300	564		85	40	2,895			100	2,270	187	1,931	200	64
20	530					(*)	40	410	(*)			182				65

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Lake	Lewis and Clark	Liberty	Lincoln	McCone	Madison	Meagher	Mineral
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	212	197	10	60	27	396	130	26
2 1940..	158	304	5	153	39	365	122	46
3 Intercounty enterprises.....enterprises 1950..	1	1				5	4	
4 Irrigated farms ¹.....farms 1950..	1,136	247	8	87	28	542	127	25
5 Average per enterprise.....farms 1950..	5.4	1.3	0.8	1.4	1.0	1.4	1.0	1.0
6 Farms irrigated direct per enterprise ².....farms 1950..	7.4	1.3	0.8	1.9	1.0	2.0	1.0	1.0
7 Irrigated land ¹.....acres 1949..	86,453	33,154	1,665	3,857	2,170	100,752	36,054	985
8 1939..	71,193	37,268	355	6,408	1,440	80,007	40,056	1,241
9 Average per irrigated farm.....acres 1949..	76.1	134.2	208.1	44.3	77.5	185.9	283.9	39.4
10 Average per enterprise.....acres 1949..	408	168	166	64	80	254	277	38
11 Average acreage irrigated direct per enterprise ².....acres 1949..	422	172	166	75	80	269	277	38
Type of enterprise, 1950:								
12 Single-farm.....enterprises..	170	164	10	49	27	264	126	26
13 acres irrigated..	6,303	22,963	1,665	1,817	2,170	42,971	35,194	985
Mutual:								
14 Unincorporated.....enterprises..	38	29		8		124		
15 acres irrigated..	4,539	7,324		612		47,912		
16 Incorporated.....enterprises..	3	1		1		4		
17 acres irrigated..	656	(3)		(3)		8,256		
18 Commercial.....enterprises..				1				1
19 acres irrigated..				(3)			(3)	
20 District.....enterprises..		1		1				
21 acres irrigated..		(3)		(3)				
22 U. S. Bureau of Reclamation ⁴.....enterprises..								
23 acres irrigated..								
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	1							
25 acres irrigated..	78,000							
26 State.....enterprises..		2				4	3	
27 acres irrigated..		(3)				7,205	450	
28 City.....enterprises..								
29 acres irrigated..								
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
30 Gravity only.....enterprises reporting..	137	159	9	58	9	388	129	22
31 acres irrigated..	8,422	28,208	1,545	4,397	406	105,166	35,643	860
32 Pumped only.....enterprises reporting..	65	5		2	17	3		3
33 acres irrigated..	2,129	2,986		87	1,737	105		65
34 Gravity and pumped.....enterprises reporting..	3	2	1		1	4		1
35 acres irrigated..	78,152	772	120		27	873		60
36 Ground water only (pumped from wells).....enterprises reporting..	5	9				1		
37 acres irrigated..	9	250				200		
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	2	22						1
39 acres irrigated..	785	1,674					411	
Stored water:								
40 None stored.....enterprises reporting..	197	186	9	53	13	358	111	26
41 acres irrigated..	10,198	32,367	1,545	2,243	429	87,655	31,014	985
42 Part stored.....enterprises reporting..	9	7	1	4	2	30	17	
43 acres irrigated..	78,979	1,178	120	2,072	1,250	11,165	5,040	
44 All stored.....enterprises reporting..	6	4		3	12	8	2	
45 acres irrigated..	320	345		169	491	7,524		
Sources of surface water, 1949: ⁵								
46 Streams (and lakes).....enterprises reporting..	174	185	9	57	27	384	126	25
47 acres irrigated..	88,526	33,588	1,665	4,371	2,170	105,883	34,594	935
48 Springs.....enterprises reporting..	40	9	1	8		25	11	2
49 acres irrigated..	606	1,086	120	361		1,600	1,887	59
50 Flowing wells.....enterprises reporting..	13	1	2					
51 acres irrigated..	449	135	120					
52 Drainage water.....enterprises reporting..	5	1				4		
53 acres irrigated..	307	80				845		
54 Sewage.....enterprises reporting..		1						
55 acres irrigated..		218						
56 Other sources.....enterprises reporting..								
57 acres irrigated..								
Drainage of irrigated land: ⁶								
Irrigated land drained:								
58 Enterprises reporting.....enterprises 1949..	5	7		1		12	2	
59 Area supplied primary irrigation.....acres 1949..	77,170	2,768		83		6,760	450	
60 Area artificially drained.....acres 1949..	77,107	412		20		685	450	
61 acres 1939..	700	188		100	168	160		
Irrigated land in need of drainage:								
62 Enterprises reporting.....enterprises 1949..	14	31	1	6		56	3	2
63 Area supplied primary irrigation.....acres 1949..	77,892	9,351	120	208		17,612	2,875	180
64 Area in need of drainage.....acres 1949..	76,366	1,819	4	26		4,999	315	25
65 acres 1939..	1,250	1,115		4	45	728		

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

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

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

Missoula	Mussel-shell	Park	Petroleum	Phillips	Pondera	Powder River	Powell	Prairie	Navalli	Richland	Roosevelt	Rosebud	Sanders	Silver Bow	Still-water	
205	46	330	58	59	20	49	194	4	508	15	12	85	97	75	111	1
219	41	251	28	39	26	25	229	8	455	29	14	60	162	85	111	2
1	1	4	2	3	2	.....	1	2	.....	1	1	1	1	3	6	3
417	56	431	69	287	311	47	198	40	1,317	375	20	173	241	74	314	4
2.0	1.2	1.3	1.2	4.9	11.1	1.0	1.0	10.0	2.6	25.0	1.7	2.0	2.5	1.0	2.8	5
2.6	1.3	1.6	1.4	4.8	15.6	1.0	1.3	12.0	3.7	27.5	2.5	2.2	3.2	1.1	3.8	6
26,562	6,668	55,132	9,785	32,372	44,843	5,410	61,315	5,720	104,055	35,161	2,899	20,556	14,775	7,592	28,483	7
30,867	4,400	51,047	5,320	36,567	57,245	1,156	60,630	736	109,752	30,024	360	20,712	11,785	7,873	32,382	8
63.7	119.1	127.9	141.8	112.8	144.2	115.1	309.7	143.0	79.0	93.8	145.0	118.8	61.3	102.6	90.7	9
130	145	163	169	549	1,602	110	316	1,430	205	2,344	242	242	152	101	257	10
136	145	177	181	551	1,632	110	319	1,430	223	2,344	248	242	153	101	266	11
172	38	265	47	54	21	49	162	1	289	13	10	80	91	72	52	12
13,573	3,587	34,348	5,557	5,293	3,407	5,410	47,426	(3)	25,196	684	705	7,493	4,665	6,302	3,701	13
24	7	68	7	1	4	.....	29	.....	188	.....	.....	1	4	3	49	14
3,981	1,971	18,359	2,925	(3)	545	.....	11,443	.....	42,595	.....	(3)	107	1,290	13,732	15	15
4	1	4	2	1	2	.....	2	3	11	.....	.....	.....	.....	9	16	16
3,192	(3)	2,084	(3)	(3)	(3)	.....	(3)	4,920	9,643	.....	.....	.....	.....	10,973	17	17
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
3	.....	.....	.....	.....	.....	.....	.....	.....	15	1	.....	3	.....	.....	.....	20
5,366	.....	.....	.....	.....	.....	.....	.....	.....	24,242	(3)	.....	12,280	.....	.....	.....	21
1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
200	.....	.....	.....	22,206	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1	1	1	.....	.....	24
1,499	.....	.....	.....	1,500	4,237	.....	.....	.....	.....	.....	18,000	.....	10,000	.....	.....	25
.....	.....	2	2	.....	.....	.....	.....	1	.....	4	.....	1	.....	1	.....	26
.....	.....	(3)	(3)	.....	.....	.....	.....	(3)	.....	11,282	(3)	(3)	(3)	(3)	(3)	27
.....	.....	.....	.....	.....	.....	.....	.....	.....	(3)	1	.....	.....	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
158	17	323	32	24	23	40	188	1	471	6	6	25	82	73	106	30
21,288	4,721	57,377	9,037	6,811	45,501	3,740	60,037	800	110,781	441	1,054	13,020	4,442	7,082	28,413	31
29	23	8	20	24	3	6	2	3	16	8	5	43	7	.....	3	32
3,283	996	625	890	2,792	39	995	1,105	4,920	674	2,896	121	6,278	254	.....	997	33
10	4	6	6	11	2	2	2	.....	12	1	1	17	2	1	.....	34
2,598	931	1,769	598	22,896	149	615	431	.....	1,853	31,824	1,800	1,258	10,030	260	.....	35
3	1	1	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	6	.....	2	36
48	8	.....	.....	.....	.....	.....	.....	.....	27	.....	.....	.....	96	.....	105	37
5	1	1	.....	.....	.....	.....	1	2	2	.....	.....	.....	.....	1	.....	38
594	12	320	.....	.....	.....	60	395	.....	73	.....	.....	.....	.....	250	.....	39
183	39	334	40	38	21	37	180	4	456	10	9	77	90	71	110	40
24,763	4,361	58,974	6,978	4,651	3,806	3,360	53,746	5,720	82,280	34,771	691	19,706	4,655	7,499	29,495	41
12	6	3	7	7	3	10	12	.....	39	.....	2	5	5	1	1	42
2,769	2,084	915	667	6,414	4,273	1,603	7,162	.....	29,735	.....	2,270	435	10,150	20	20	43
10	1	2	11	14	4	2	2	.....	13	5	1	3	2	3	.....	44
279	223	202	2,880	21,434	37,610	447	1,060	.....	1,393	390	14	415	17	73	.....	45
198	44	332	58	56	27	49	191	4	461	14	12	83	80	69	102	46
27,612	6,648	59,903	10,525	32,407	45,554	5,410	61,861	5,720	110,591	35,157	2,975	20,522	14,307	7,406	29,095	47
3	1	20	1	.....	.....	.....	1	10	21	2	.....	.....	15	8	9	48
16	12	1,837	2	.....	.....	.....	34	3,237	1,198	273	.....	.....	946	396	329	49
2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	8	.....	.....	50
645	.....	.....	.....	.....	.....	.....	6	1,600	.....	.....	.....	.....	393	.....	.....	51
5	.....	2	.....	4	1	1	3	.....	42	.....	.....	1	.....	.....	1	52
428	.....	103	.....	145	135	600	882	.....	24,976	.....	.....	13	.....	.....	30	53
.....	.....	.....	.....	.....	.....	.....	3	.....	3	.....	.....	1	.....	.....	.....	54
.....	.....	.....	.....	.....	.....	.....	1,027	.....	531	.....	.....	21	.....	.....	.....	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
6	1	3	1	13	.....	.....	29	.....	64	3	6	6	4	4	13	58
1,305	521	401	1,173	26,057	.....	.....	13,755	.....	14,119	30,560	2,078	12,348	500	260	9,370	59
322	100	26	50	1,845	.....	.....	1,335	.....	2,050	5,429	2,078	5,268	75	192	1,751	60
(*)	(*)	.....	.....	2,001	.....	.....	25	.....	.....	(*)	(*)	3,484	.....	69	873	61
25	1	19	2	3	5	1	72	1	124	3	1	11	7	4	22	62
7,232	730	4,811	477	25,706	34,491	250	26,264	989	30,594	33,189	1,724	13,453	324	345	8,995	63
2,871	12	1,011	13	1,800	516	30	2,331	60	2,853	760	19	8,323	58	60	1,518	64
.....	(*)	(*)	.....	2,120	.....	.....	251	.....	237	.....	.....	2,245	(*)	.....	448	65

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)		Sweet Grass	Teton	Toole	Treasure	Valley	Heatland	Yellow- stone	All other counties
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	153	58	22	29	90	67	92	2
2	..... 1940..	155	104	55	14	41	54	50	13
3	Intercounty enterprises.....enterprises 1950..	4	2	.....	1	3	3	6	.....
4	Irrigated farms ¹.....farms 1950..	263	519	20	97	282	83	1,134	4
5	Average per enterprise.....farms 1950..	1.7	8.9	0.9	3.3	3.1	1.2	12.3	2.0
6	Farms irrigated direct per enterprise ².....farms 1950..	2.1	9.9	0.9	3.7	3.3	1.6	15.2	1.0
7	Irrigated land ¹.....acres 1949..	38,954	98,286	1,685	11,140	36,029	27,048	96,109	50
8	.....acres 1939..	44,883	105,477	8,130	8,331	19,318	24,759	94,727	529
9	Average per irrigated farm.....acres 1949..	148.1	189.4	84.2	114.8	130.6	325.0	84.8	12.5
10	Average per enterprise.....acres 1949..	255	1,695	77	384	409	404	1,046	25
11	Average acreage irrigated direct per enterprise ².....acres 1949..	268	1,757	77	390	422	404	1,056	25
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	108	48	22	26	85	56	62	2
13	.....acres irrigated..	15,210	29,425	1,685	3,189	8,326	17,973	3,677	(³)
Mutual:									
14	Unincorporated.....enterprises..	38	3	.....	.....	1	9	7	.....
15	.....acres irrigated..	16,117	375	.....	.....	(³)	3,540	1,989	.....
16	Incorporated.....enterprises..	7	5	.....	2	2	.....	17	.....
17	.....acres irrigated..	9,735	10,018	.....	(³)	(³)	.....	60,263	.....
18	Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	1	.....
19	.....acres irrigated..	.....	.....	.....	.....	.....	.....	(³)	.....
20	District.....enterprises..	.....	2	.....	1	.....	.....	4	.....
21	.....acres irrigated..	.....	(³)	.....	(³)	.....	.....	30,836	.....
22	U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	1	.....	.....	.....
23	.....acres irrigated..	.....	.....	.....	.....	16,162	.....	.....	.....
24	U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	1	.....	1	.....
25	.....acres irrigated..	.....	.....	.....	.....	8,000	.....	299	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	2	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	(³)	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	147	55	16	2	15	67	41	.....
31	.....acres irrigated..	40,534	101,589	1,461	7,221	7,147	27,048	63,449	.....
32	Pumped only.....enterprises reporting..	3	3	6	26	62	.....	46	2
33	.....acres irrigated..	135	311	224	3,969	5,634	.....	3,958	50
34	Gravity and pumped.....enterprises reporting..	2	.....	.....	1	10	.....	4	.....
35	.....acres irrigated..	353	.....	.....	120	25,095	.....	29,697	.....
36	Ground water only (pumped from wells).....enterprises reporting..	1	.....	.....	.....	1	.....	1	.....
37	.....acres irrigated..	40	.....	.....	.....	7	.....	5	.....
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	.....	.....	.....	.....	2	.....	.....	.....
39	.....acres irrigated..	.....	.....	.....	.....	90	.....	.....	.....
Stored water:									
40	None stored.....enterprises reporting..	149	50	14	29	80	55	85	.....
41	.....acres irrigated..	38,370	36,018	990	11,310	12,567	18,021	49,894	.....
42	Part stored.....enterprises reporting..	3	2	2	.....	5	7	5	.....
43	.....acres irrigated..	349	2,000	140	.....	8,805	3,361	47,140	.....
44	All stored.....enterprises reporting..	1	6	6	.....	5	5	2	.....
45	.....acres irrigated..	2,343	63,882	555	.....	16,601	5,666	75	50
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	148	51	21	29	89	65	87	1
47	.....acres irrigated..	40,852	101,234	1,635	11,310	37,966	26,963	96,566	40
48	Springs.....enterprises reporting..	6	8	.....	.....	.....	3	1	.....
49	.....acres irrigated..	1,105	1,100	.....	.....	.....	365	130	.....
50	Flowing wells.....enterprises reporting..	.....	.....	1	.....	1	.....	.....	.....
51	.....acres irrigated..	.....	.....	16	.....	125	.....	.....	.....
52	Drainage water.....enterprises reporting..	.....	2	2	.....	1	.....	8	1
53	.....acres irrigated..	.....	166	250	.....	55	.....	2,148	10
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..	3	12	.....	4	9	2	23	.....
59	Area supplied primary irrigation.....acres 1949..	886	69,055	.....	8,176	24,792	1,690	76,387	.....
60	Area artificially drained.....acres 1949..	145	9,176	.....	2,871	4,590	70	37,690	.....
61	.....acres 1939..	80	38,115	.....	1,792	1,577	.....	49,627	(*)
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	13	10	1	5	8	7	13	.....
63	Area supplied primary irrigation.....acres 1949..	5,350	62,282	300	8,114	24,484	3,052	52,836	.....
64	Area in need of drainage.....acres 1949..	638	5,102	72	5,680	4,943	351	3,201	.....
65	.....acres 1939..	2,606	1,239	.....	3,120	143	(*)	9,680	51

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

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

[Intercounty enterprises are counted in each county in which they had irrigation works, but only once in State total. For intra-county 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	Beaverhead	Big Horn	Blaine	Broadwater	Carbon	Carter	Cascade
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	4,068	338	45	43	104	116	18	30
2	.....dams 1950..	8,139	1,150	75	115	213	164	52	53
3	.....dams 1940..	6,136	922	31	75	195	217	3	51
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	449	29	7	8	20	7	.....	2
5	Timber.....dams 1950..	1,674	159	27	4	37	51	.....	5
6	Earth and rock.....dams 1950..	5,365	897	29	65	143	100	52	43
7	Other, mixed, and not reported.....dams 1950..	651	65	12	38	13	6	.....	3
8	Reservoirs.....enterprises reporting 1950..	443	9	5	20	4	8	9	4
9	.....reservoirs 1950..	629	13	7	32	4	10	18	6
10	.....reservoirs 1940..	517	10	3	25	2	4	5	8
11	Reservoirs for which capacity was reported.....reservoirs 1950..	577	10	7	26	3	10	18	6
12	.....total capacity, acre-feet 1950..	1,598,898	136,656	97,110	21,935	120	31,864	936	1,062
13	.....total capacity, acre-feet 1940..	1,301,422	131,441	60,580	17,144	(*)	31,020	850	57
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	369	.....	5	15	2	8	17	3
15	100-999 acre-feet.....reservoirs 1950..	124	2	.....	6	1	.....	1	3
16	1,000 acre-feet and over.....reservoirs 1950..	84	8	2	5	.....	2	.....	.....
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	20	.....	.....	.....	1	.....	.....	.....
18	Earth and rock.....dams 1950..	551	3	7	27	3	9	18	6
19	Other, mixed, and not reported.....dams 1950..	58	10	.....	5	.....	1	.....	.....
20	Canals and ditches.....enterprises reporting 1950..	3,591	276	57	32	94	212	12	30
21	.....total length, miles 1950..	15,499	1,002	473	290	345	714	80	235
22	.....total length, miles 1940..	15,702	763	416	326	397	1,010	3	286
23	Pipelines and siphons ¹.....enterprises reporting 1950..	219	1	1	2	3	20	.....	8
24	.....total length, miles 1950..	110	(²)	(²)	1	1	5	.....	3
25	.....total length, miles 1940..	148	1	(²)	1	(²)	2	.....	12
26	Tunnels.....enterprises reporting 1950..	20	.....	1	.....	.....	.....	.....	.....
27	.....total length, feet 1950..	17,586	.....	800	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	46	.....	2	1	.....	2	.....	2
29	.....wells 1950..	79	.....	7	1	.....	3	.....	3
30	.....wells 1940..	44	.....	.....	1	.....	.....	.....	1
31	Pumped wells.....enterprises reporting 1950..	112	1	3	.....	.....	3	.....	4
32	.....wells 1950..	142	1	3	.....	.....	3	.....	6
33	.....wells 1940..	102	.....	.....	.....	.....	.....	.....	.....
34	Wells for which pumping lift was reported.....wells 1949..	128	1	2	.....	.....	3	.....	5
35	.....wells 1949..	30	50	18	.....	.....	15	.....	62
36	Average pumping lift.....feet 1949..	24	.....	.....	.....	.....	.....	.....	.....
37	Irrigation pumps.....enterprises reporting 1950..	963	3	19	80	3	25	.....	32
38	.....pumps 1950..	1,304	3	23	117	3	31	.....	53
39	.....pumping plants 1940..	651	.....	6	22	2	7	1	63
40	Electric motors used for pumping.....enterprises reporting 1950..	356	1	8	28	2	7	.....	24
41	.....electric motors 1950..	473	1	8	41	2	7	.....	36
42	Other motors and engines used for pumping.....enterprises reporting 1950..	657	2	13	61	1	18	.....	12
43	.....other motors and engines 1950..	792	2	16	72	1	24	.....	20
Season of Irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	440	9	12	27	17	3	14	8
45	.....acres irrigated..	64,300	5,709	1,018	2,334	4,322	60	2,231	515
46	Water delivered before and after July 1.....enterprises reporting..	4,582	334	59	81	90	227	5	52
47	.....acres irrigated..	1,780,501	256,812	56,205	45,240	36,187	87,272	852	32,516
48	Water delivered only after July 1.....enterprises reporting..	219	2	6	3	.....	10	1	2
49	.....acres irrigated..	11,978	272	268	83	.....	552	50	60
Capital Investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	67,352,505	992,068	2,891,329	4,396,820	824,671	2,120,840	6,078	2,597,353
51	New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
52	Enterprises reporting.....enterprises 1950..	2,428	144	42	55	60	91	19	26
53	Amount.....dollars 1950..	13,904,485	271,297	74,870	181,880	41,037	161,744	112,275	51,344
54	Area irrigated direct.....acres 1949..	995,247	133,047	17,859	28,561	16,329	36,383	3,083	14,058
54	Total capital investment Jan. 1, 1950.....dollars 1950..	81,256,990	1,263,365	2,966,199	4,578,700	865,708	2,282,584	118,353	2,648,697
Indebtedness: ³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	97	1	4	7	1	8	.....	2
56	Amount.....dollars 1950..	41,498,918	28,500	1,042,978	1,251,836	726,452	821,412	.....	2,063,484
57	.....dollars 1940..	44,542,281	125,685	2,389,458	2,041,959	4,000	1,184,106	.....	1,896,974
58	Area irrigated direct.....acres 1949..	579,899	.....	34,244	39,273	7,523	8,432	.....	22,518
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
59	Enterprises reporting.....enterprises 1950..	15	.....	1	.....	1	1	.....	.....
60	Amount.....dollars 1950..	1,381,563	.....	181,365	.....	215,224	236,123	.....	.....
61	Area irrigated direct.....acres 1949..	66,006	.....	.....	.....	7,523	.....	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

	Item (For definitions and explanations, see text)	Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon	Fergus	Flathead
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	26	43	2	4	67	4	65	31
2	dams 1950..	62	187	2	4	110	6	101	38
3	1940..	50	57	2	11	109	3	129	118
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	1	.....	.....	.....	1	.....	11	13
5	Timber.....dams 1950..	3	1	.....	.....	24	.....	7	9
6	Earth and rock.....dams 1950..	57	186	2	3	77	1	73	15
7	Other, mixed, and not reported.....dams 1950..	1	.....	.....	1	8	2	10	1
8	Reservoirs.....enterprises reporting 1950..	9	12	.....	2	4	6	11	6
9	reservoirs 1950..	14	17	.....	2	14	9	20	7
10	1940..	25	27	1	19	9	4	17	11
11	Reservoirs for which capacity was reported.....reservoirs 1950..	14	14	.....	2	11	6	20	7
12	total capacity, acre-feet 1950..	1,267	908	.....	210	2,641	590	2,102	56,160
13	1940..	1,031	2,587	(*)	1,655	1,691	717	587	7,622
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	10	12	.....	1	3	5	13	4
15	100-999 acre-feet.....reservoirs 1950..	4	2	.....	1	8	1	7	.....
16	1,000 acre-feet and over.....reservoirs 1950..	.....	.....	.....	.....	.....	.....	.....	3
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	.....	.....	.....	.....	3	.....	1	2
18	Earth and rock.....dams 1950..	14	14	.....	2	6	9	18	4
19	Other, mixed, and not reported.....dams 1950..	.....	3	.....	.....	5	.....	1	1
20	Canals and ditches.....enterprises reporting 1950..	20	33	1	3	59	3	51	31
21	total length, miles 1950..	49	157	8	100	289	7	154	66
22	1940..	133	123	5	101	214	7	194	128
23	Pipelines and siphons ¹.....enterprises reporting 1950..	1	4	.....	.....	.....	.....	.....	24
24	total length, miles 1950..	(2)	1	.....	2	.....	.....	.....	10
25	1940..	(2)	4	.....	2	1	.....	1	11
26	Tunnels.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....	.....
27	total length, feet 1950..	.....	.....	.....	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	.....	.....	.....	.....	1	.....	1	1
29	wells 1950..	.....	.....	.....	.....	1	.....	1	1
30	1940..	.....	1	.....	.....	.....	.....	1	.....
31	Pumped wells.....enterprises reporting 1950..	1	2	.....	.....	1	.....	.....	7
32	wells 1950..	1	3	.....	.....	1	.....	.....	7
33	1940..	3	.....	.....	5	2	.....	1	7
34	Wells for which pumping lift was reported.....wells 1949..	1	3	.....	.....	1	.....	.....	6
35	Average pumping lift.....feet 1949..	23	14	.....	.....	35	.....	.....	43
36	1939..	18	.....	.....	18	(*)	.....	.....	18
37	Irrigation pumps.....enterprises reporting 1950..	32	27	1	2	3	1	11	50
38	pumps 1950..	42	46	1	3	3	1	13	58
39	pumping plants 1940..	47	21	.....	10	2	.....	13	39
40	Electric motors used for pumping.....enterprises reporting 1950..	9	6	.....	1	1	.....	2	23
41	electric motors 1950..	11	17	.....	2	1	.....	2	26
42	Other motors and engines used for pumping.....enterprises reporting 1950..	25	21	1	1	2	1	9	29
43	other motors and engines 1950..	31	25	1	1	2	1	11	32
Season of irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	18	23	.....	.....	.....	4	26	1
45	acres irrigated..	2,285	4,384	.....	.....	.....	270	2,807	40
46	Water delivered before and after July 1.....enterprises reporting..	33	35	1	5	73	2	52	52
47	acres irrigated..	4,802	21,756	450	12,763	21,011	249	7,865	3,462
48	Water delivered only after July 1.....enterprises reporting..	4	4	2	1	1	.....	3	30
49	acres irrigated..	240	137	576	20	25	.....	146	940
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	111,215	1,134,899	3,403	1,141,772	177,967	11,810	359,401	149,240
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	25	43	2	4	14	3	42	46
52	Amount.....dollars 1950..	49,460	916,601	4,300	613,536	28,675	22,600	71,658	102,660
53	Area irrigated direct.....acres 1949..	5,037	13,663	466	11,940	8,182	240	4,889	1,706
54	Total capital investment Jan. 1, 1950.....dollars 1950..	160,675	2,051,500	7,703	1,755,308	206,642	34,410	431,059	251,900
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	.....	2	.....	3	.....	.....	1	2
56	Amount.....dollars 1950..	.....	371,511	.....	925,900	.....	.....	11,979	12,725
57	1940..	.....	380,968	.....	152,389	.....	.....	17,305	25,515
58	Area irrigated direct.....acres 1949..	.....	8,207	.....	12,658	.....	.....	358	1,070
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..	.....	.....	.....	70	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	.....	.....	.....	823	.....	.....	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Missoula	Mussel- shell	Park	Petroleum	Phillips	Pondera	Powder River	Powell
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	153	18	305	27	20	21	43	184
2 .....dams 1950..	244	30	461	37	33	30	116	683
3 .....dams 1940..	240	18	260	37	37	28	44	445
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	24	9	44	1	.....	7	6	20
5 Timber.....dams 1950..	57	.....	159	.....	2	.....	1	207
6 Earth and rock.....dams 1950..	127	16	222	32	28	19	75	435
7 Other, mixed, and not reported.....dams 1950..	36	5	36	4	3	4	34	21
8 Reservoirs.....enterprises reporting 1950..	11	1	5	18	18	7	13	13
9 .....reservoirs 1950..	13	1	5	22	20	13	20	13
10 .....reservoirs 1940..	15	2	3	7	23	8	8	16
11 Reservoirs for which capacity was reported.....reservoirs 1950..	13	1	5	22	17	12	20	13
12 .....total capacity, acre-feet 1950..	9,500	100	1,127	25,417	94,818	142,147	1,026	16,442
13 .....1940..	1,114	(*)	375	28,285	81,829	162,707	325	19,015
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	5	.....	3	16	9	10	18	9
15 100-999 acre-feet.....reservoirs 1950..	7	1	2	4	3	.....	2	2
16 1,000 acre-feet and over.....reservoirs 1950..	1	.....	.....	2	5	2	.....	2
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..	1	.....	.....	.....	.....	.....	.....	.....
18 Earth and rock.....dams 1950..	9	1	4	22	20	11	20	11
19 Other, mixed, and not reported.....dams 1950..	3	.....	1	.....	.....	2	.....	2
20 Canals and ditches.....enterprises reporting 1950..	116	28	261	23	22	22	16	133
21 .....total length, miles 1950..	329	65	712	73	318	614	28	364
22 .....1940..	432	57	448	97	331	639	15	577
23 Pipelines and siphons ¹.....enterprises reporting 1950..	19	2	9	4	3	2	.....	13
24 .....total length, miles 1950..	10	(²)	2	(²)	1	4	.....	10
25 .....1940..	7	(²)	1	.....	14	3	.....	(²)
26 Tunnels.....enterprises reporting 1950..	.....	.....	1	.....	.....	.....	.....	5
27 .....total length, feet 1950..	.....	.....	95	.....	.....	.....	.....	2,270
28 Flowing wells.....enterprises reporting 1950..	2	.....	.....	.....	.....	.....	1	1
29 .....wells 1950..	3	.....	.....	.....	.....	.....	1	1
30 .....1940..	1	.....	.....	.....	.....	.....	.....	.....
31 Pumped wells.....enterprises reporting 1950..	8	2	2	.....	.....	.....	1	2
32 .....wells 1950..	11	2	2	.....	.....	.....	1	3
33 .....1940..	7	10	1	.....	3	.....	.....	2
34 Wells for which pumping lift was reported.....wells 1949..	10	2	1	.....	.....	.....	.....	2
35 Average pumping lift.....feet 1949..	51	16	90	.....	.....	.....	.....	22
36 .....1939..	53	14	(²)	.....	20	.....	.....	(²)
37 Irrigation pumps.....enterprises reporting 1950..	46	29	15	26	33	5	8	6
38 .....pumps 1950..	53	35	18	30	45	8	10	7
39 .....pumping plants 1940..	20	26	2	7	15	2	4	4
40 Electric motors used for pumping.....enterprises reporting 1950..	14	8	10	.....	15	2	1	3
41 .....electric motors 1950..	17	9	12	.....	18	2	1	3
42 Other motors and engines used for pumping.....enterprises reporting 1950..	33	23	6	26	22	5	9	4
43 .....other motors and engines 1950..	36	24	6	31	24	6	10	4
Season of irrigation, 1949:								
44 Water delivered only before July 1.....enterprises reporting..	10	4	23	25	14	2	21	2
45 .....acres irrigated..	512	841	1,983	4,371	1,479	650	1,892	740
46 Water delivered before and after July 1.....enterprises reporting..	181	40	301	31	39	21	20	187
47 .....acres irrigated..	26,474	5,592	56,449	5,280	30,547	44,809	2,652	59,372
48 Water delivered only after July 1.....enterprises reporting..	7	1	8	2	2	3	4	1
49 .....acres irrigated..	298	35	862	874	42	15	766	30
Capital investment:								
50 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	767,176	69,410	549,970	265,896	4,485,191	3,769,440	20,359	926,306
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
51 Enterprises reporting.....enterprises 1950..	97	28	125	35	29	14	44	110
52 Amount.....dollars 1950..	459,256	32,659	172,579	54,337	185,730	21,628	77,429	225,159
53 Area irrigated direct.....acres 1949..	15,860	2,977	24,655	5,979	9,266	5,779	4,835	45,118
54 Total capital investment Jan. 1, 1950.....dollars 1950..	1,226,432	102,069	722,549	321,233	4,670,921	3,791,068	97,788	1,151,465
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
55 Enterprises reporting.....enterprises 1950..	5	.....	3	2	3	1	.....	2
56 Amount.....dollars 1950..	511,125	.....	161,372	87,769	3,278,878	308,182	.....	271,948
57 .....1940..	485,525	.....	108,584	38,000	4,080,449	4,273,621	.....	220,234
58 Area irrigated direct.....acres 1949..	4,503	.....	6,133	.....	23,706	4,237	.....	2,086
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
59 Enterprises reporting.....enterprises 1950..	1	.....	.....	.....	.....	.....	.....	1
60 Amount.....dollars 1950..	5,000	.....	.....	.....	.....	.....	.....	50,366
61 Area irrigated direct.....acres 1949..	2,500	.....	.....	.....	.....	.....	.....	800

*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.

BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

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

Prairie	Navalli	Richland	Roosevelt	Rosebud	Sanders	Silver Bow	Stillwater	Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Yellowstone	All other counties
1	440	6	6	30	70	64	88	120	50	11	3	20	60	32	1
5	698	8	8	68	123	118	103	176	103	30	3	32	152	39	2
4	503	9	4	100	153	74	81	108	97	77	2	16	110	19	3
.....	34	.....	.....	1	3	3	25	14	9	.....	1	1	9	8	4
.....	304	.....	.....	2	23	23	22	32	10	.....	.....	1	32	5	5
6	322	8	7	54	92	85	54	88	77	30	.....	27	97	18	6
.....	38	.....	1	11	4	7	2	42	7	.....	2	3	14	8	7
.....	28	5	2	6	7	4	1	6	6	8	.....	7	11	5	8
.....	35	6	2	13	8	4	1	9	7	12	.....	7	11	6	9
6	19	16	.....	10	8	5	.....	3	16	8	2	5	2	3	12
.....	35	6	2	12	8	3	1	8	7	12	.....	7	11	6	10
.....	90,981	957	90	1,465	6,776	8	4	24,068	148,950	1,911	.....	5,439	53,028	2,716	11
35	45,916	955	.....	690	36,840	154	.....	18,840	188,058	521	(*)	4,515	(*)	2,800	13
.....	17	4	2	10	6	3	1	6	.....	5	.....	3	6	3	14
.....	7	2	.....	2	.....	.....	.....	.....	7	7	.....	3	4	2	15
.....	11	.....	.....	.....	2	.....	.....	2	7	.....	.....	1	1	1	16
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	17
.....	31	4	2	12	8	4	1	8	6	12	.....	7	10	6	18
.....	4	2	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	19
4	402	5	5	19	62	39	105	136	40	13	7	29	62	41	20
51	930	213	55	131	238	70	302	848	726	52	41	241	341	678	21
14	809	196	123	194	240	59	200	520	915	223	56	265	234	543	11
3	10	2	.....	2	2	1	4	4	.....	.....	.....	7	3	5	22
(2)	4	1	(2)	1	1	4	(2)	2	.....	.....	.....	2	(2)	1	24
.....	3	.....	(2)	4	2	2	.....	1	1	1	1	18	(2)	(*)	25
.....	.....	.....	.....	1	.....	.....	2	2	.....	.....	.....	.....	.....	3	26
.....	.....	.....	.....	725	1,100	.....	105	215	4,700	.....	.....	.....	.....	4,876	27
.....	.....	.....	.....	.....	8	.....	.....	.....	.....	1	.....	1	.....	.....	28
.....	.....	.....	.....	.....	13	.....	.....	.....	.....	1	.....	3	.....	.....	29
.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	8	.....	.....	.....	6	2	2	1	.....	.....	.....	3	.....	1	31
.....	8	.....	.....	.....	7	3	2	1	.....	.....	.....	6	.....	1	32
.....	2	.....	.....	.....	7	2	.....	1	3	.....	.....	3	1	.....	33
.....	8	.....	.....	.....	7	3	1	1	.....	.....	.....	6	.....	1	34
.....	13	.....	.....	.....	15	11	14	18	.....	.....	.....	63	.....	21	35
(2)	.....	.....	.....	.....	18	(2)	.....	(*)	7	.....	.....	66	.....	.....	36
2	37	9	4	60	16	3	4	6	3	6	27	75	.....	50	2
6	41	17	5	88	18	4	6	8	4	8	36	124	.....	66	37
3	4	10	9	43	16	2	2	6	8	18	13	35	1	30	2
2	15	4	.....	4	10	.....	2	3	2	.....	18	39	.....	18	40
6	17	6	.....	5	12	.....	2	3	3	.....	21	52	.....	28	41
.....	22	8	4	57	6	1	3	3	1	6	13	41	.....	32	42
.....	24	10	5	77	6	1	5	3	1	8	14	65	.....	36	43
1	6	1	5	9	5	3	.....	4	6	12	.....	14	13	6	44
800	490	25	585	352	208	315	.....	653	2,070	1,195	.....	7,698	2,990	583	40
3	479	9	7	62	85	70	101	138	45	6	29	66	52	82	45
4,920	110,491	35,041	2,390	19,257	14,479	7,271	28,931	38,818	98,439	336	11,310	29,460	23,968	96,394	10
.....	12	4	.....	10	7	2	5	2	1	2	.....	9	2	2	47
.....	260	91	.....	625	135	6	307	45	320	154	.....	225	90	42	49
445,760	2,286,758	2,531,900	455,292	1,934,760	1,447,805	30,252	378,671	652,079	8,281,810	99,010	493,781	3,204,986	161,145	3,371,230	63,340
3	161	12	7	58	41	14	72	89	32	15	23	63	41	57	2
1,659,589	323,723	141,346	124,519	165,937	307,411	14,150	114,064	124,816	869,575	18,317	70,760	348,436	271,671	335,300	531
4,289	49,682	3,283	2,396	12,707	12,273	2,405	17,528	27,570	82,789	1,430	10,149	13,582	13,589	75,837	50
2,105,349	2,610,481	2,673,246	579,811	2,100,697	1,755,216	44,402	492,735	776,895	9,151,385	117,327	564,541	3,553,422	432,816	3,706,530	63,871
3	10	2	1	4	2	.....	5	2	4	.....	1	2	1	13	55
572,300	1,505,095	1,677,183	240,299	263,939	1,044,568	.....	57,815	1,700	7,351,954	.....	53,142	3,457,681	671,342	1,402,527	57
84,323	1,507,567	1,951,428	580,805	772,873	1,456,614	.....	30,200	3,775	7,001,509	.....	72,983	2,740,350	.....	1,732,072	56
4,920	41,250	34,477	1,800	12,280	10,050	.....	6,043	2,818	64,082	.....	3,221	24,162	5,535	84,393	58
.....	1	1	1	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	59
.....	215,224	2,272	1,714	.....	.....	.....	.....	608	.....	.....	.....	7,806	140,286	.....	60
.....	.....	31,824	1,800	.....	.....	.....	.....	1,007	.....	.....	.....	8,000	5,535	.....	61

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		The State	Heaverhead	Big Horn	Blaine	Broad-water	Carlton	Carter	Cascade
ALL ENTERPRISES									
Cost of water to farms, 1949:¹									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	5,305	338	77	116	110	239	20	67
2	Cost.....dollars..	2,514,679	44,254	99,918	171,849	39,544	78,659	1,416	61,444
3	Area irrigated direct.....acres..	1,874,901	263,393	57,516	48,053	42,939	87,885	3,133	33,273
4	Cost per acre irrigated direct.....dollars..	1.34	0.17	1.74	3.58	0.92	0.90	0.45	1.85
5	Total cost per irrigated acre.....dollars..	1.39	0.18	1.79	3.59	0.99	0.91	0.45	1.85
6	Total cost per acre-foot of water ².....dollars..	0.42	0.04	0.46	1.80	0.22	0.25	(³)	0.80
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	3,735	222	36	39	93	164	16	32
8	.....acres irrigated..	1,039,806	254,515	5,862	12,077	33,129	57,653	2,683	4,426
9	\$1.00-\$1.99.....enterprises reporting..	474	7	10	14	4	42	.....	5
10	.....acres irrigated..	303,749	6,084	19,221	1,226	1,437	23,726	.....	18,449
11	\$2.00-\$4.99.....enterprises reporting..	585	7	15	26	11	22	4	14
12	.....acres irrigated..	470,103	2,567	31,625	15,800	8,219	5,784	450	9,226
13	\$5.00-\$9.99.....enterprises reporting..	298	1	13	27	2	9	.....	8
14	.....acres irrigated..	51,771	137	732	18,604	164	698	.....	1,017
15	\$10.00 and over.....enterprises reporting..	213	1	3	10	.....	2	.....	8
16	.....acres irrigated..	9,472	90	56	346	.....	24	.....	153
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	5,146	325	76	115	107	236	20	67
18	Cost.....dollars..	2,450,143	42,344	94,836	171,700	35,596	76,576	1,416	61,444
19	Area supplied primary irrigation.....acres..	1,808,576	252,563	55,739	47,897	40,118	86,166	3,133	33,273
20	Cost per acre supplied.....dollars..	1.35	0.17	1.70	3.58	0.89	0.89	0.45	1.85
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	405	21	2	4	8	14	.....	.....
22	Cost.....dollars..	64,536	1,910	5,082	149	3,948	2,083	.....	.....
23	Area supplied supplemental irrigation.....acres..	66,325	10,830	1,777	156	2,821	1,719	.....	.....
24	Cost per acre supplied.....dollars..	0.97	0.18	2.86	0.96	1.40	1.21	.....	.....
Cost to farms for purposes other than operation and maintenance:⁴									
25	Enterprises reporting.....enterprises..	126	.....	2	5	1	3	.....	2
26	Cost.....dollars..	541,568	.....	5,300	65,792	19,025	4,655	.....	17,403
27	Area irrigated direct.....acres..	432,547	.....	12,685	30,773	7,523	2,558	.....	22,518
28	Cost per acre irrigated.....dollars..	1.25	.....	0.42	2.14	2.53	1.82	.....	0.77
Arrearage in payments by farms, Jan. 1, 1950:⁴									
29	Enterprises reporting.....enterprises..	49	2	2	2	1	2	.....	1
30	Amount.....dollars..	106,880	521	19,253	12,472	1,145	238	.....	2,780
31	Area irrigated direct.....acres..	341,683	7,377	41,775	15,822	3,700	4,230	.....	14,524
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	4,159	265	68	108	72	149	20	62
33	Area irrigated.....acres..	725,543	211,391	7,818	7,385	15,043	16,510	3,133	5,998
34	Complete-system enterprises ⁶.....enterprises..	3,566	216	52	71	66	124	20	61
35	Area irrigated.....acres..	614,801	179,801	6,768	4,913	14,203	11,333	3,133	5,783
Other farms irrigated:									
36	Enterprises reporting.....number..	87	1	2	1	.....	9	.....	4
37	Number of other farms.....farms..	123	1	3	1	.....	10	.....	4
38	Area irrigated in other farms.....acres..	6,484	220	87	50	.....	729	.....	139
Enterprises by origin of water supply:⁵									
39	No water from other enterprises.....enterprises reporting..	3,608	219	52	75	66	125	20	61
40	.....acres irrigated..	614,801	179,801	6,768	4,913	14,203	11,333	3,133	5,783
41	Part of water from other enterprises.....enterprises reporting..	247	42	3	7	5	6	.....	.....
42	.....acres irrigated..	74,650	29,411	38	306	70	1,614	.....	.....
43	All of water from other enterprises.....enterprises reporting..	304	4	13	26	1	18	.....	1
44	.....acres irrigated..	36,092	2,179	1,012	2,166	90	3,563	.....	215
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	3,983	260	68	103	70	144	20	62
46	.....acres irrigated..	708,527	210,391	7,818	7,305	14,473	16,090	3,133	5,998
47	Part primary, part supplemental.....enterprises reporting..	21	.....	.....	.....	1	1	.....	.....
48	.....acres irrigated..	1,392	.....	.....	.....	60	50	.....	.....
49	Supplemental irrigation.....acres irrigated..	1,194	.....	.....	.....	60	80	.....	.....
50	All supplemental.....enterprises reporting..	113	2	.....	1	1	3	.....	.....
51	.....acres irrigated..	14,430	1,000	.....	80	450	290	.....	.....
Enterprises by number of acres irrigated:⁶									
52	None.....enterprises reporting..	42	3	.....	4	.....	1	.....	.....
53	1-9 acres.....enterprises reporting..	409	3	6	6	1	7	1	8
54	10-29 acres.....enterprises reporting..	701	6	17	29	11	27	.....	9
55	30-59 acres.....enterprises reporting..	754	18	16	21	14	33	4	17
56	60-99 acres.....enterprises reporting..	639	14	14	22	8	25	2	11
57	100-199 acres.....enterprises reporting..	745	39	9	19	15	40	7	9
58	200-499 acres.....enterprises reporting..	569	69	4	7	15	9	5	6
59	500-999 acres.....enterprises reporting..	183	51	1	.....	6	6	1	2
60	1,000 acres or more.....enterprises reporting..	117	62	1	.....	2	1	.....	.....

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

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

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

Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon	Fergus	Flathead	Gallatin	Garfield	Glacier	Golden Valley	Granite	Hill	Jefferson	Judith Basin
59	63	3	8	72	6	83	83	222	25	7	23	132	35	120	42
7,961	59,666	45	52,183	8,842	1,550	5,446	18,559	68,119	1,191	17,745	5,018	27,672	13,265	18,190	4,173
7,527	26,281	1,026	12,806	21,036	519	11,220	4,462	91,428	1,008	14,794	3,854	33,178	3,722	26,490	5,722
1.06	2.27	0.04	4.07	0.42	2.99	0.49	4.16	0.75	1.18	1.20	1.30	0.83	3.56	0.69	0.73
1.06	2.27	0.04	4.07	0.44	2.99	0.49	4.51	0.82	1.18	1.20	1.37	0.87	3.56	0.70	0.73
(³)	1.26	(³)	1.94	0.19	(³)	0.26	3.01	0.23	(³)	(³)	0.81	0.18	2.74	0.14	0.49
30	36	2	2	60	4	63	28	194	14	6	9	104	9	97	38
5,703	14,036	1,010	45	17,199	259	9,195	1,663	69,967	757	710	1,796	22,157	1,014	19,388	4,671
4	6	.....	.....	7	1	6	7	16	1	1	6	14	3	12	1
340	1,746	.....	.....	2,979	200	1,253	392	8,990	40	14,084	1,378	4,181	1,365	4,720	80
18	8	1	6	3	.....	10	12	9	5	.....	6	9	10	9	2
1,063	3,227	16	12,761	651	.....	650	462	12,403	148	.....	610	6,505	753	2,374	771
5	8	.....	.....	2	.....	3	13	2	2	.....	1	2	8	1	1
281	7,126	.....	.....	207	.....	116	1,363	48	51	.....	50	130	367	2	200
2	5	.....	.....	1	.....	1	23	1	3	.....	1	3	5	1	15
140	146	.....	.....	60	.....	6	582	20	12	.....	20	205	223	6	.....
59	62	3	8	71	6	82	83	217	25	7	22	131	35	118	42
7,961	59,666	45	52,183	8,842	1,550	5,446	18,119	61,881	1,191	17,745	4,740	25,684	13,265	18,165	4,173
7,527	26,239	1,026	12,806	20,123	519	11,050	4,119	82,919	1,008	14,794	3,674	31,879	3,722	25,951	5,722
1.06	2.27	0.04	4.07	0.44	2.99	0.49	4.40	0.75	1.18	1.20	1.29	0.81	3.56	0.70	0.73
.....	1	.....	.....	1	.....	2	4	18	.....	.....	1	8	.....	2	.....
.....	0	.....	.....	0	.....	0	440	6,238	.....	.....	278	1,988	.....	25	.....
.....	42	.....	.....	913	.....	170	343	8,509	.....	.....	180	1,299	.....	539	.....
.....	0.00	.....	.....	0.00	.....	0.00	1.28	0.73	.....	.....	1.54	1.53	.....	0.05	.....
.....	1	.....	1	.....	.....	1	3	4	.....	.....	3	2	1	3	1
.....	18,780	.....	2,517	.....	.....	380	3,924	5,705	.....	.....	1,379	10,879	1,642	1,123	2,212
.....	5,807	.....	823	.....	.....	358	1,331	7,686	.....	.....	1,768	7,475	1,017	1,360	727
.....	3.23	.....	3.06	.....	.....	1.06	2.95	0.74	.....	.....	0.78	1.46	1.61	0.83	3.04
.....	2	.....	1	.....	.....	.....	1	5	.....	1	1	.....	.....	4	.....
.....	1,212	.....	41	.....	.....	.....	2,263	1,968	.....	16,652	20	.....	.....	2,888	.....
.....	14,807	.....	823	.....	.....	.....	1,000	11,317	.....	14,084	926	.....	.....	3,283	.....
57	61	2	5	63	6	70	70	130	25	6	18	101	32	87	38
7,252	9,074	(⁵)	148	17,145	519	7,098	2,059	14,587	1,008	710	1,548	16,314	1,607	12,249	4,621
57	59	2	5	50	6	69	68	117	25	6	16	79	17	81	38
7,252	9,017	(⁵)	148	13,326	519	7,058	1,944	13,471	1,008	710	1,468	11,204	539	10,812	4,621
1	.....	.....	.....	2	.....	.....	1	3	.....	.....	.....	2	1	2	.....
100	.....	.....	.....	275	.....	.....	4	5	.....	.....	.....	3	1	3	.....
.....	.....	.....	.....	.....	.....	.....	14	134	.....	.....	.....	135	8	33	.....
57	60	2	5	50	6	69	68	118	25	6	16	79	17	83	38
7,252	9,017	(⁵)	148	13,326	519	7,058	1,944	13,471	1,008	710	1,468	11,204	539	10,812	4,621
.....	1	.....	.....	5	.....	.....	1	4	.....	.....	2	19	3	4	.....
.....	57	.....	.....	2,703	.....	.....	100	240	.....	.....	80	4,586	193	1,437	.....
.....	.....	.....	.....	8	.....	.....	1	8	.....	.....	.....	3	12	.....	.....
.....	.....	.....	.....	1,116	.....	.....	15	876	.....	.....	.....	524	875	.....	.....
57	59	2	5	63	6	69	70	125	25	6	17	100	32	84	38
7,252	9,032	(⁵)	148	17,145	519	7,038	2,059	10,682	1,008	710	1,368	16,304	1,607	12,180	4,621
.....
.....	1	.....	.....	.....	.....	.....	1	4	.....	.....	1	1	.....	1	.....
.....	42	.....	.....	.....	.....	60	.....	3,905	.....	.....	180	10	.....	69	.....
.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2	.....
6	3	.....	1	5	.....	6	30	11	5	.....	2	4	1	8	1
11	5	1	3	4	.....	9	16	28	6	1	5	11	14	19	7
12	10	.....	.....	11	2	19	13	28	6	.....	5	16	6	12	9
11	11	.....	1	11	2	13	8	28	7	1	3	14	8	9	5
11	14	.....	.....	7	1	13	.....	20	1	3	2	24	2	15	7
4	14	.....	.....	15	1	7	.....	2	8	1	.....	27	1	17	8
1	3	1	.....	5	.....	3	.....	1	4	.....	1	5	.....	4	1
1	.....	.....	.....	5	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Lake	Lewis and Clark	Liberty	Lincoln	McCone	Madison	Meagher	Mineral
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	209	194	8	59	27	392	128	26
2 Cost.....dollars..	230,009	35,848	125	6,145	3,897	75,867	2,615	657
3 Area irrigated direct.....acres..	89,497	33,890	1,665	4,484	2,170	106,344	36,054	985
4 Cost per acre irrigated direct.....dollars..	2.57	1.06	0.08	1.37	1.80	0.71	0.07	0.67
5 Total cost per irrigated acre.....dollars..	2.66	1.08	0.08	1.59	1.80	0.75	0.07	0.67
6 Total cost per acre-foot of water ².....dollars..	1.77	0.37	(³)	0.41	(³)	0.12	(³)	(³)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	131	153	7	53	12	305	125	22
8 Cost.....acres irrigated..	9,000	26,681	1,615	2,369	453	88,509	35,194	860
9 \$1.00-\$1.99.....enterprises reporting..	8	14	1	3	7	42	.....	.....
10 Cost.....acres irrigated..	418	3,684	50	174	1,398	11,156	.....	.....
11 \$2.00-\$4.99.....enterprises reporting..	25	11	.....	1	5	33	2	1
12 Cost.....acres irrigated..	79,159	523	.....	1,900	175	5,081	860	60
13 \$5.00-\$9.99.....enterprises reporting..	16	5	.....	1	3	8	.....	2
14 Cost.....acres irrigated..	581	2,899	.....	25	144	1,526	.....	64
15 \$10.00 and over.....enterprises reporting..	29	11	.....	1	.....	4	.....	1
16 Cost.....acres irrigated..	339	103	.....	16	.....	72	.....	1
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	184	193	8	58	27	383	128	26
18 Cost.....dollars..	221,417	35,507	125	4,570	3,897	71,351	2,615	657
19 Area supplied primary irrigation.....acres..	86,453	33,154	1,665	3,857	2,170	100,752	36,054	985
20 Cost per acre supplied.....dollars..	2.56	1.07	0.08	1.18	1.80	0.71	0.07	0.67
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	40	5	.....	4	.....	22	.....	.....
22 Cost.....dollars..	8,592	341	.....	1,575	.....	4,516	.....	.....
23 Area supplied supplemental irrigation.....acres..	3,044	736	.....	627	.....	5,592	.....	.....
24 Cost per acre supplied.....dollars..	2.82	0.46	.....	2.51	.....	0.81	.....	.....
Cost to farms for purposes other than operation and maintenance:⁴								
25 Enterprises reporting.....enterprises..	2	.....	.....	2	.....	9	2	.....
26 Cost.....dollars..	575	.....	.....	1,079	.....	13,350	1,785	.....
27 Area irrigated direct.....acres..	150	.....	.....	1,920	.....	17,087	860	.....
28 Cost per acre irrigated.....dollars..	3.83	.....	.....	0.56	.....	0.78	2.08	.....
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29 Enterprises reporting.....enterprises..	.....	.....	.....	.....	.....	2	.....	.....
30 Amount.....dollars..	.....	.....	.....	.....	.....	990	.....	.....
31 Area irrigated direct.....acres..	.....	.....	.....	.....	.....	4,292	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	170	164	10	49	27	264	126	26
33 Area irrigated.....acres..	6,303	22,963	1,665	1,817	2,170	42,971	35,194	985
34 Complete-system enterprises ⁶.....enterprises..	147	143	8	48	27	223	119	26
35 Area irrigated.....acres..	4,866	15,916	1,665	1,817	2,170	33,438	31,526	985
Other farms irrigated:								
36 Enterprises reporting.....number..	6	2	.....	1	.....	7	1	.....
37 Number of other farms.....farms..	13	2	.....	1	.....	14	1	.....
38 Area irrigated in other farms.....acres..	70	6	.....	8	.....	490	425	.....
Enterprises by origin of water supply:⁶								
39 No water from other enterprises.....enterprises reporting..	150	145	10	49	27	224	119	26
40 Cost.....acres irrigated..	4,866	15,916	1,665	1,817	2,170	33,438	31,526	985
41 Part of water from other enterprises.....enterprises reporting..	6	8	.....	.....	.....	34	2	.....
42 Cost.....acres irrigated..	891	3,519	.....	.....	.....	8,817	1,700	.....
43 All of water from other enterprises.....enterprises reporting..	14	11	.....	.....	.....	6	5	.....
44 Cost.....acres irrigated..	546	3,528	.....	.....	.....	716	1,968	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	140	160	8	48	27	255	126	26
46 Cost.....acres irrigated..	4,647	22,467	1,665	1,817	2,170	41,606	35,194	985
47 Part primary, part supplemental.....enterprises reporting..	2	1	.....	.....	.....	3	.....	.....
48 Cost.....acres irrigated..	42	20	.....	.....	.....	240	.....	.....
49 Supplemental irrigation.....acres irrigated..	46	160	.....	.....	.....	230	.....	.....
50 All supplemental.....enterprises reporting..	25	1	.....	.....	.....	5	.....	.....
51 Cost.....acres irrigated..	1,566	316	.....	.....	.....	895	.....	.....
Enterprises by number of acres irrigated:								
52 None.....enterprises reporting..	3	2	2	1	.....	1	.....	.....
53 1-9 acres.....enterprises reporting..	67	14	.....	13	3	12	6	6
54 10-29 acres.....enterprises reporting..	42	31	1	19	11	33	12	5
55 30-59 acres.....enterprises reporting..	21	26	1	5	7	38	15	7
56 60-99 acres.....enterprises reporting..	27	30	1	7	3	44	22	7
57 100-199 acres.....enterprises reporting..	6	28	4	3	2	69	20	1
58 200-499 acres.....enterprises reporting..	3	25	.....	1	.....	47	32	.....
59 500-999 acres.....enterprises reporting..	1	6	.....	.....	.....	16	8	.....
60 1,000 acres or more.....enterprises reporting..	.....	2	1	.....	1	4	11	.....

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

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

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

Missoula	Mussel-shell	Park	Petroleum	Phillips	Pondera	Powder River	Powell	Prairie	Ravalli	Richland	Roosevelt	Rosebud	Sanders	Silver Bow	Still-water
200	46	329	56	58	27	46	192	4	496	15	12	84	97	75	111
56,802	9,387	53,927	12,392	58,861	81,730	4,505	49,350	20,806	137,923	147,212	3,487	78,295	32,229	2,580	44,716
27,811	6,668	60,091	10,525	32,499	45,689	5,410	61,968	5,720	113,408	35,161	2,975	20,556	14,822	7,592	29,515
2.04	1.41	0.90	1.18	1.81	1.79	0.83	0.80	3.64	1.22	4.19	1.17	3.81	2.17	0.34	1.52
2.14	1.41	0.98	1.27	1.82	1.82	0.84	0.80	3.64	1.33	4.19	1.20	3.81	2.18	0.34	1.57
0.52	(3)	0.14	(3)	1.65	1.30	(3)	0.13	1.73	0.25	(3)	(3)	1.06	(3)	0.05	0.36
132	16	232	26	29	17	37	149	1	381	6	6	20	77	71	81
15,160	4,251	41,521	7,289	8,792	3,194	3,930	51,588	800	63,008	447	1,054	2,366	4,091	6,597	17,261
17	6	47	9	4	4	3	16	.....	46	2	2	9	2	3	14
2,982	1,073	11,104	1,248	663	7,992	635	4,244	.....	29,007	55	1,876	1,502	63	575	5,953
19	13	34*	11	13	4	4	16	3	36	5	1	28	8	1	11
8,168	1,042	6,056	1,455	22,746	34,472	838	3,985	4,920	20,527	34,615	12	12,891	10,354	420	4,876
17	6	13	6	8	1	.....	9	.....	14	2	1	17	7	.....	4
903	201	1,104	351	209	30	.....	583	.....	477	44	15	3,483	300	.....	1,030
15	5	3	4	4	1	2	2	.....	19	.....	2	10	3	.....	1
598	101	306	182	89	1	7	1,568	.....	389	.....	18	314	14	.....	395
198	46	308	55	57	24	46	189	4	452	15	12	84	97	75	107
54,170	9,387	50,094	12,232	58,361	80,680	4,505	49,226	20,806	128,487	147,212	3,367	78,295	32,229	2,580	44,000
26,562	6,668	55,132	9,785	32,372	44,843	5,410	61,315	5,720	104,055	35,161	2,899	20,556	14,775	7,592	28,483
2.04	1.41	0.91	1.25	1.80	1.80	0.83	0.80	3.64	1.23	4.19	1.17	3.81	2.18	0.34	1.54
15	.....	43	1	1	4	.....	9	.....	117	.....	1	.....	4	.....	20
2,632	.....	3,833	160	500	1,050	.....	124	.....	9,436	.....	120	.....	0	.....	716
1,249	.....	4,959	740	846	1,27	.....	653	.....	9,353	.....	76	.....	47	.....	1,032
2.11	.....	0.77	0.22	3.94	1.24	.....	0.19	.....	1.01	.....	1.58	.....	0.00	.....	0.69
2	.....	19	2	2	.....	.....	4	.....	14	2	1	3	1	.....	10
4,975	.....	14,459	2,728	21,645	.....	.....	14,307	.....	29,653	85,897	105	32,418	186	.....	7,422
2,754	.....	9,479	2,043	24,579	.....	.....	4,330	.....	29,224	34,477	1,800	12,280	50	.....	6,965
1.81	.....	1.53	1.34	0.88	.....	.....	3.30	.....	1.01	2.49	0.06	2.64	3.72	.....	1.07
3	.....	.....	.....	1	2	.....	.....	.....	7	1	1	2	.....	.....	1
479	.....	.....	.....	485	9,974	.....	.....	.....	6,044	1,341	1,572	2,840	.....	.....	10
2,444	.....	.....	.....	3,500	38,237	.....	.....	.....	22,798	31,824	1,800	6,234	.....	.....	370
172	38	265	47	54	21	49	162	(5) 1	289	13	10	80	91	72	52
13,573	3,587	34,348	5,557	5,293	3,407	5,410	47,426	(5)	25,196	684	705	7,493	4,665	6,302	3,701
137	33	205	43	33	16	46	144	(5) 1	242	9	10	56	90	69	52
10,090	3,099	26,272	4,700	3,876	2,425	5,410	40,055	(5)	22,226	517	705	5,941	4,617	5,952	3,701
.....	.....	5	1	2	1	1	3	.....	6	.....	.....	1	4	2	1
.....	.....	7	1	2	1	1	3	.....	8	.....	.....	1	6	4	1
.....	.....	679	200	106	150	50	193	.....	421	.....	.....	75	85	128	90
140	33	209	43	33	16	49	145	(5) 1	248	9	10	56	90	69	52
10,090	3,099	26,272	4,700	3,876	2,425	5,410	40,055	(5)	22,226	517	705	5,941	4,617	5,952	3,701
11	3	19	4	2	2	.....	12	.....	27	.....	.....	3	1	.....	40
2,019	273	2,780	857	35	597	.....	6,903	.....	2,421	.....	.....	130	48	.....	42
21	2	37	.....	19	3	.....	5	.....	14	4	.....	21	.....	3	43
1,464	215	5,296	.....	1,380	385	.....	468	.....	549	167	.....	1,422	.....	350	44
168	38	239	47	53	19	46	160	(5) 1	247	13	10	80	90	72	49
13,568	3,587	31,242	5,557	5,166	3,292	5,410	47,396	(5)	23,573	684	705	7,493	4,625	6,302	3,416
.....	.....	3	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	1	.....	47
.....	.....	163	.....	.....	.....	.....	.....	.....	440	.....	.....	.....	30	.....	48
.....	.....	168	.....	.....	.....	.....	.....	.....	126	.....	.....	.....	10	.....	49
1	.....	19	.....	1	2	.....	1	.....	30	.....	.....	.....	.....	.....	3
5	.....	2,775	.....	127	115	.....	30	.....	1,057	.....	.....	.....	.....	.....	285
3	.....	4	.....	5	3	3	1	.....	6	.....	.....	.....	.....	.....	52
27	4	14	5	5	3	2	2	.....	51	1	5	3	16	9	2
38	9	30	8	11	1	7	6	.....	53	6	1	16	28	18	11
31	9	39	10	16	1	10	28	.....	57	3	.....	24	22	12	11
29	7	46	12	5	3	7	18	.....	39	1	2	13	11	10	13
27	5	87	3	9	4	10	40	.....	57	1	.....	15	10	11	56
15	3	35	4	6	9	9	43	.....	19	1	2	6	4	11	2
2	.....	9	5	2	.....	1	11	1	6	.....	.....	3	.....	.....	59
.....	1	1	.....	.....	.....	.....	13	.....	1	.....	.....	.....	.....	.....	60

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)	Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Yellow- stone	All other counties
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	149	56	20	29	90	66	92	2
2 Cost.....dollars..	31,249	114,517	716	33,503	73,606	34,830	269,903	281
3 Area irrigated direct.....acres..	41,062	101,900	1,685	11,310	37,973	27,048	97,109	50
4 Cost per acre irrigated direct.....dollars..	0.76	1.12	0.42	2.96	1.94	1.29	2.78	5.62
5 Total cost per irrigated acre.....dollars..	0.80	1.17	0.42	3.01	2.00	1.29	2.81	5.62
6 Total cost per acre-foot of water ².....dollars..	0.14	0.58	(³)	0.86	1.82	0.46	1.00	(³)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	120	47	15	2	24	43	18	.....
8 .....acres irrigated..	32,398	35,077	1,461	237	8,534	15,700	10,432	.....
9 \$1.00-\$1.99.....enterprises reporting..	14	5	.....	3	9	7	17	.....
10 .....acres irrigated..	6,662	56,084	.....	4,150	9,363	6,213	23,544	.....
11 \$2.00-\$4.99.....enterprises reporting..	9	4	3	20	27	10	29	1
12 .....acres irrigated..	1,542	10,739	170	6,634	18,777	3,825	57,206	10
13 \$5.00-\$9.99.....enterprises reporting..	4	.....	1	4	19	4	18	1
14 .....acres irrigated..	98	.....	50	289	1,095	760	4,177	40
15 \$10.00 and over.....enterprises reporting..	2	.....	1	.....	11	2	10	.....
16 .....acres irrigated..	362	.....	4	.....	204	550	1,750	.....
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	142	56	20	29	87	66	91	2
18 Cost.....dollars..	30,256	109,251	716	33,321	72,813	34,830	268,337	281
19 Area supplied primary irrigation.....acres..	38,954	98,286	1,685	11,140	36,829	27,048	96,199	50
20 Cost per acre supplied.....dollars..	0.78	1.11	0.42	2.99	1.98	1.29	2.79	5.62
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	18	2	.....	1	6	.....	8	.....
22 Cost.....dollars..	993	5,266	.....	182	793	.....	1,566	.....
23 Area supplied supplemental irrigation.....acres..	2,108	3,614	.....	170	1,144	.....	910	.....
24 Cost per acre supplied.....dollars..	0.47	1.46	.....	1.07	0.69	.....	1.72	.....
Cost to farms for purposes other than operation and maintenance:⁴								
25 Enterprises reporting.....enterprises..	2	4	.....	1	4	2	15	.....
26 Cost.....dollars..	1,665	59,457	.....	7,367	23,516	6,699	51,564	.....
27 Area irrigated direct.....acres..	2,421	64,182	.....	3,221	24,354	5,885	80,077	.....
28 Cost per acre irrigated.....dollars..	0.69	0.93	.....	2.29	0.97	1.14	0.64	.....
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29 Enterprises reporting.....enterprises..	1	1	.....	2	3	.....	5	.....
30 Amount.....dollars..	235	10,458	.....	1,663	7,295	.....	2,041	.....
31 Area irrigated direct.....acres..	1,007	54,443	.....	7,221	13,393	.....	20,452	.....
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	108	48	22	26	85	56	62	2
33 Area irrigated.....acres..	15,210	29,425	1,685	3,189	8,326	17,973	3,677	(⁵)
34 Complete-system enterprises ⁶.....enterprises..	92	44	20	15	77	53	45	2
35 Area irrigated.....acres..	12,998	28,424	1,685	2,256	6,928	17,125	2,957	(⁵)
Other farms irrigated:								
36 Enterprises reporting.....number..	2	3	.....	2	3	1	3	.....
37 Number of other farms.....farms..	3	4	.....	4	4	1	3	.....
38 Area irrigated in other farms.....acres..	175	346	.....	469	182	20	192	.....
Enterprises by origin of water supply:⁶								
39 No water from other enterprises.....enterprises reporting..	94	44	22	15	77	53	45	2
40 .....acres irrigated..	12,998	28,424	1,685	2,256	6,928	17,125	2,957	(⁵)
41 Part of water from other enterprises.....enterprises reporting..	5	.....	.....	1	6	2	.....	.....
42 .....acres irrigated..	902	.....	.....	225	728	290	.....	.....
43 All of water from other enterprises.....enterprises reporting..	9	4	.....	10	2	1	17	.....
44 .....acres irrigated..	1,310	1,001	.....	708	670	558	720	.....
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	100	48	20	26	80	56	61	2
46 .....acres irrigated..	14,517	29,425	1,685	3,189	7,241	17,973	3,623	(⁵)
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	2	.....	1	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	341	.....	6	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	264	.....	48	.....
50 All supplemental.....enterprises reporting..	6	3	.....	.....	3	.....	.....	.....
51 .....acres irrigated..	693	.....	.....	.....	480	.....	.....	.....
Enterprises by number of acres irrigated:⁶								
52 None.....enterprises reporting..	2	.....	2	.....	.....	.....	.....	.....
53 1-9 acres.....enterprises reporting..	5	.....	2	.....	11	1	9	.....
54 10-29 acres.....enterprises reporting..	13	4	2	3	19	6	13	1
55 30-59 acres.....enterprises reporting..	21	2	8	7	20	9	21	1
56 60-99 acres.....enterprises reporting..	23	3	2	7	7	4	8	.....
57 100-199 acres.....enterprises reporting..	21	6	3	7	15	4	8	.....
58 200-499 acres.....enterprises reporting..	16	23	3	1	11	21	3	.....
59 500-999 acres.....enterprises reporting..	6	7	.....	.....	2	7	.....	.....
60 1,000 acres or more.....enterprises reporting..	1	3	.....	1	.....	4	.....	.....

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.
⁵Data for less than 3 enterprises not shown separately.
⁶For 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

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

Item (For definitions and explanations, see text)		The State	Beaverhead	Big Horn	Blaine	Broad-water	Carbon	Cascade	Custer
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ².....enterprises..	1,234	85	10	13	38	92	5	3
2	Area irrigated direct.....acres..	1,149,358	52,002	49,698	40,668	27,896	71,375	27,275	17,207
3	Multiple-purpose enterprises ².....enterprises..	8	.....	.....	1	.....	.....	.....	.....
4	Area irrigated direct.....acres..	96,344	.....	.....	6,050	.....	.....	.....	.....
5	Complete-system enterprises ².....enterprises..	931	46	5	5	32	54	4	3
6	Area irrigated direct.....acres..	846,654	33,266	35,833	855	16,885	47,707	26,798	17,207
Enterprises by origin of water supply: ²									
7	No water from other enterprises.....enterprises reporting..	1,092	67	7	7	33	52	5	3
8	Water delivered direct to farms only.....acres irrigated..	1,007,621	40,982	48,201	1,395	25,764	44,215	27,275	17,207
9	Part of water from other enterprises.....enterprises reporting..	80	3	.....	2	5	35	.....	.....
10	Area irrigated direct.....acres irrigated..	76,328	5,628	.....	18,272	2,132	23,658	.....	.....
11	All water from other enterprises.....enterprises reporting..	62	15	3	.....	4	5	.....	.....
12	Area irrigated direct.....acres irrigated..	65,409	5,392	1,497	21,001	.....	3,502	.....	.....
Enterprises by delivery of irrigation water: ²									
13	No water delivered.....enterprises reporting..	4	.....	.....	1	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	955	51	6	7	33	75	3	2
15	Area irrigated.....acres irrigated..	537,709	31,685	6,941	19,127	17,668	49,951	12,274	8,207
16	Water delivered to farms and to other enterprises.....enterprises reporting..	233	25	3	5	5	16	2	1
17	Area irrigated.....acres irrigated..	611,649	20,317	42,757	21,541	10,228	21,424	15,001	9,000
18	Water delivered to other enterprises only.....enterprises reporting..	42	9	1	.....	.....	1	.....	.....
Enterprises by primary and supplemental irrigation: ³									
19	All primary.....enterprises reporting..	917	57	7	9	32	81	5	3
20	Area irrigated.....acres irrigated..	790,742	34,517	40,381	30,827	18,320	56,573	27,275	17,207
21	Part primary, part supplemental.....enterprises reporting..	225	8	1	3	4	10	.....	.....
22	Primary irrigation.....acres irrigated..	307,915	7,655	7,540	9,765	7,265	13,453	.....	.....
23	Supplemental irrigation.....acres irrigated..	34,044	4,795	1,460	76	1,538	1,349	.....	.....
24	All supplemental.....enterprises reporting..	46	11	1	.....	2	.....	.....	.....
25	Area irrigated.....acres irrigated..	16,657	5,035	317	.....	773	.....	.....	.....
Enterprises by number of farms irrigated direct: ²									
26	None.....enterprises reporting..	46	9	1	1	.....	1	.....	.....
27	1-3.....enterprises reporting..	695	65	1	5	26	24	1	1
28	4-9.....enterprises reporting..	312	8	2	1	7	39	1	.....
29	10-29.....enterprises reporting..	114	3	3	1	4	21	1	.....
30	30-99.....enterprises reporting..	50	.....	1	5	1	6	.....	2
31	100-299.....enterprises reporting..	9	.....	.....	.....	.....	1	1	1
32	300-999.....enterprises reporting..	7	.....	1	.....	.....	.....	1	.....
33	1,000 or more.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ²									
34	None.....enterprises reporting..	46	9	1	1	.....	1	.....	.....
35	1-99 acres.....enterprises reporting..	241	3	1	2	3	5	.....	.....
36	100-999 acres.....enterprises reporting..	768	57	4	4	30	62	2	.....
37	1,000-2,999 acres.....enterprises reporting..	117	13	1	.....	3	21	.....	.....
38	3,000-9,999 acres.....enterprises reporting..	46	3	1	5	2	2	2	3
39	10,000-29,999 acres.....enterprises reporting..	11	.....	2	1	.....	1	.....	.....
40	30,000 acres or more.....enterprises reporting..	5	.....	.....	.....	.....	.....	1	.....
Quantities of water reported, 1949:									
41	Total obtained from all sources ⁴.....enterprises reporting..	998	75	9	12	35	90	5	3
42	percent of all enterprises reporting..	19	21	12	10	32	37	7	5
43	acre-feet..	5,650,173	364,077	254,140	162,897	151,602	392,580	278,177	59,542
44	Surface sources.....enterprises reporting..	938	60	6	8	35	85	5	3
45	acre-feet..	5,184,577	311,902	250,014	20,992	150,631	303,021	278,177	59,542
46	Pumped wells.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....
47	acre-feet..	1,575	.....	.....	.....	.....	.....	.....	.....
48	Other enterprises.....enterprises reporting..	128	18	3	6	5	38	.....	.....
49	acre-feet..	464,021	52,175	4,126	141,905	971	89,559	.....	.....
50	Conveyance loss ⁴.....enterprises reporting..	954	72	9	12	34	87	5	3
51	acre-feet..	1,365,610	57,220	70,282	48,008	32,442	62,867	120,377	9,057
Delivered: ⁴									
52	Direct to farms.....enterprises reporting..	965	69	8	12	35	89	5	3
53	acre-feet..	3,543,947	219,144	175,169	83,001	115,900	297,698	154,477	32,185
54	To other enterprises.....enterprises reporting..	196	24	4	5	4	17	2	1
55	acre-feet..	627,795	87,640	8,689	1,868	3,260	31,910	323	300
56	For use other than irrigation.....enterprises reporting..	27	1	.....	5	.....	1	1	1
57	acre-feet..	112,821	73	.....	30,020	.....	105	3,000	18,000
Delivered direct to farms for primary irrigation: ³									
58	Enterprises reporting.....enterprises..	927	59	7	12	33	89	5	3
59	Quantity delivered.....acre-feet..	3,222,986	187,644	166,096	81,258	108,198	248,882	63,414	30,202
60	Area supplied primary irrigation.....acres..	1,036,244	39,559	46,367	40,592	24,599	69,345	27,275	17,207
61	Quantity supplied per acre.....acre-feet..	3.1	4.7	3.6	2.0	4.4	3.6	2.3	1.8
Delivered direct to farms for supplemental irrigation: ³									
62	Enterprises reporting.....enterprises..	203	16	2	3	6	9	.....	.....
63	Quantity delivered.....acre-feet..	178,534	31,500	6,930	118	7,702	3,685	.....	.....
64	Area supplied supplemental irrigation.....acres..	43,185	7,767	1,777	76	2,311	1,184	.....	.....
65	Quantity supplied per acre.....acre-feet..	4.1	4.1	3.9	1.6	3.3	3.1	.....	.....
66	Total quantity per irrigated acre ⁵.....acre-feet..	3.3	4.9	3.7	2.0	4.6	3.7	2.3	1.8
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
67	Cost for primary irrigation.....dollars..	1,929,164	14,325	84,791	147,736	30,440	64,243	47,468	44,070
68	Average cost per acre-foot.....dollars..	0.60	0.08	0.51	1.82	0.28	0.26	0.75	1.46
69	Cost for supplemental irrigation.....dollars..	41,939	1,578	5,082	149	3,848	1,328	.....	.....
70	Average cost per acre-foot.....dollars..	0.23	0.05	0.73	1.26	0.50	0.36	.....	.....
Measurement of water to farms, 1949: ³									
71	No water measured.....enterprises reporting..	838	63	9	11	9	63	3	2
72	acres irrigated..	511,292	34,570	49,558	30,896	4,658	31,342	4,757	14,807
73	Part of water measured.....enterprises reporting..	114	6	1	.....	2	3	1	.....
74	acres irrigated..	191,543	2,779	140	.....	481	2,023	7,994	.....
75	All water measured.....enterprises reporting..	192	10	.....	2	23	20	1	1
76	acres irrigated..	409,259	12,951	.....	9,772	20,980	33,830	14,524	2,400

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

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

Item (For definitions and explanations, see text)		Madison	Meagher	Missoula	Musselshell	Park	Petroleum	Phillips	Pondera
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ².....enterprises..	132	4	33	8	74	11	5	7
2	Area irrigated direct.....acres..	63,373	860	14,238	3,081	25,743	4,968	27,206	42,282
3	Multiple-purpose enterprises ².....enterprises..	.....	.....	1	.....	.....	.....	.....	.....
4	Area irrigated direct.....acres..	.....	.....	1,499	.....	.....	.....	.....	.....
5	Complete-system enterprises ².....enterprises..	102	1	28	4	44	5	1	3
6	Area irrigated direct.....acres..	38,425	410	11,763	534	16,261	2,755	3,500	38,612
Enterprises by origin of water supply: ²									
7	No water from other enterprises.....enterprises reporting..	118	2	32	4	73	8	3	6
8	acres irrigated..	46,627	.....	14,188	1,594	25,298	3,395	24,579	38,782
9	Part of water from other enterprises.....enterprises reporting..	4	2	1	4	.....	2	1	1
10	acres irrigated..	6,559	860	50	1,487	.....	400	1,500	3,500
11	All water from other enterprises.....enterprises reporting..	10	.....	.....	.....	1	1	1	.....
12	acres irrigated..	10,187	.....	.....	.....	445	1,173	1,127	.....
Enterprises by delivery of irrigation water: ²									
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	97	1	25	5	43	6	3	3
15	acres irrigated..	37,391	410	7,944	1,264	12,720	2,285	6,127	8,112
16	Water delivered to farms and to other enterprises.....enterprises reporting..	32	2	6	3	26	3	1	3
17	acres irrigated..	25,982	450	6,294	1,817	13,023	2,683	21,079	34,170
18	Water delivered to other enterprises only.....enterprises reporting..	3	1	2	.....	5	2	1	1
Enterprises by primary and supplemental irrigation: ³									
19	All primary.....enterprises reporting..	115	2	17	8	47	8	4	4
20	acres irrigated..	49,977	860	7,446	3,081	19,319	4,228	27,206	7,907
21	Part primary, part supplemental.....enterprises reporting..	10	.....	13	.....	19	.....	.....	1
22	Primary irrigation.....acres irrigated..	8,929	.....	5,548	.....	4,408	.....	.....	33,644
23	Supplemental irrigation.....acres irrigated..	1,483	.....	1,164	.....	1,866	.....	.....	356
24	All supplemental.....enterprises reporting..	4	.....	1	.....	2	1	.....	1
25	acres irrigated..	2,984	.....	80	.....	150	740	.....	375
Enterprises by number of farms irrigated direct: ²									
26	None.....enterprises reporting..	3	1	2	.....	5	2	1	1
27	1-3.....enterprises reporting..	88	2	15	6	52	6	.....	3
28	4-9.....enterprises reporting..	34	.....	6	2	12	2	1	.....
29	10-29.....enterprises reporting..	6	1	6	.....	4	1	1	1
30	30-99.....enterprises reporting..	1	.....	2	.....	1	.....	1	1
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..	3	1	2	.....	5	2	1	1
35	1-99 acres.....enterprises reporting..	17	.....	10	3	19	.....	.....	1
36	100-999 acres.....enterprises reporting..	98	2	15	4	43	8	.....	2
37	1,000-2,999 acres.....enterprises reporting..	11	.....	4	1	6	1	.....	.....
38	3,000-9,999 acres.....enterprises reporting..	3	1	1	.....	1	.....	1	1
39	10,000-29,999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	1	1
40	30,000 acres or more.....enterprises reporting..	.....	.....	1	.....	.....	.....	1	1
Quantities of water reported, 1949: ⁴									
41	Total obtained from all sources ⁴.....enterprises reporting..	117	3	14	.....	52	4	5	6
42	percent of all enterprises reporting..	30	2	7	.....	15	7	8	21
43	acre-feet..	473,297	28,911	288,170	.....	209,232	8,855	370,596	137,169
44	Surface sources.....enterprises reporting..	107	3	14	.....	52	3	4	6
45	acre-feet..	421,416	26,911	288,170	.....	198,326	5,325	336,656	135,669
46	Pumped wells.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....
47	acre-feet..	1,110	.....	.....	.....	.....	.....	.....	.....
48	Other enterprises.....enterprises reporting..	14	1	.....	.....	1	2	2	1
49	acre-feet..	50,771	2,000	.....	.....	10,906	3,530	33,940	1,500
50	Conveyance loss ⁴.....enterprises reporting..	114	2	13	.....	53	2	5	6
51	acre-feet..	90,195	4,010	106,137	.....	44,950	807	110,563	26,860
Delivered: ⁴									
52	Direct to farms.....enterprises reporting..	114	2	12	.....	49	2	4	6
53	acre-feet..	312,887	6,181	173,985	.....	130,073	2,298	56,050	73,386
54	To other enterprises.....enterprises reporting..	20	3	6	.....	20	3	2	3
55	acre-feet..	66,265	11,831	8,048	.....	34,209	5,330	194,829	1,020
56	For use other than irrigation.....enterprises reporting..	1	.....	.....	.....	.....	2	3	2
57	acre-feet..	3,950	6,889	.....	.....	.....	420	9,154	35,903
Delivered direct to farms for primary irrigation: ³									
58	Enterprises reporting.....enterprises..	110	1	12	.....	47	.....	4	5
59	Quantity delivered.....acre-feet..	285,671	1,000	38,138	.....	105,860	2,298	31,119	60,241
60	Area supplied primary irrigation.....acres..	49,827	450	9,894	.....	17,241	1,463	27,206	41,551
61	Quantity supplied per acre.....acre-feet..	5.7	2.2	3.9	.....	6.1	1.6	1.1	1.4
Delivered direct to farms for supplemental irrigation: ³									
62	Enterprises reporting.....enterprises..	14	.....	6	.....	11	.....	.....	2
63	Quantity delivered.....acre-feet..	25,790	.....	3,556	.....	6,713	.....	.....	909
64	Area supplied supplemental irrigation.....acres..	4,467	.....	996	.....	886	.....	.....	731
65	Quantity supplied per acre.....acre-feet..	5.8	.....	3.6	.....	7.6	.....	.....	1.2
66	Total quantity per irrigated acre ⁵.....acre-feet..	6.0	2.2	4.1	.....	6.8	1.6	1.1	1.4
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
67	Cost for primary irrigation.....dollars..	36,734	975	29,050	.....	21,980	4,168	52,536	79,195
68	Average cost per acre-foot.....dollars..	0.13	0.98	0.76	.....	0.21	1.81	1.69	1.31
69	Cost for supplemental irrigation.....dollars..	2,560	.....	2,400	.....	1,804	.....	.....	700
70	Average cost per acre-foot.....dollars..	0.10	.....	0.67	.....	0.27	.....	.....	0.77
Measurement of water to farms, 1949: ³									
71	No water measured.....enterprises reporting..	69	3	21	8	32	10	3	6
72	acres irrigated..	23,436	860	5,931	3,081	5,740	4,968	5,000	38,045
73	Part of water measured.....enterprises reporting..	6	.....	2	.....	26	.....	1	.....
74	acres irrigated..	9,281	.....	2,840	.....	8,542	.....	21,079	.....
75	All water measured.....enterprises reporting..	39	.....	9	.....	13	.....	1	1
76	acres irrigated..	18,870	.....	5,342	.....	8,004	.....	1,127	4,237

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.

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

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

Powell	Prairie	Ravalli	Rosebud	Sanders	Silver Bow	Stillwater	Sweet Grass	Teton	Treasure	Valley	Wheatland	Yellowstone	All other counties
32	3	219	5	6	3	59	45	10	3	5	11	30	7
14,542	4,920	88,212	13,063	10,157	1,290	25,814	25,852	72,475	8,121	29,647	9,075	93,432	37,472
2		182		1		1							
20	3	200	2	6	2	53	38	5	1	2	8	21	7
9,301	4,920	82,902	3,286	10,157	1,010	18,745	24,473	64,336	4,000	8,100	3,390	68,113	37,472
32	3	209	5	6	3	57	44	8	2	5	11	24	7
14,542	4,920	84,831	13,063	10,157	1,290	23,719	25,852	64,436	7,221	29,647	9,075	86,738	37,472
		9						1				1	
		3,320						400				650	
		1				2	1	1				5	
		61				2,095		7,639	900			6,044	
		1	1				1						
19	3	198	2	5	2	54	38	5	1	2	8	22	6
8,286	4,920	47,132	3,286	157	1,010	19,771	24,473	11,314	900	8,100	3,390	45,769	5,648
12		15	2	1	1	5	5	3	2	3	3	8	8
6,254		41,080	9,777	10,000	280	6,043	1,379	61,161	7,221	21,547	5,685	47,663	31,824
1		5					1	2					
23	3	132	4	3	3	42	31	6	2	4	10	23	6
10,830	4,920	67,101	13,063	10,105	1,290	21,621	21,444	16,032	4,121	24,354	9,075	83,576	35,672
6		67		3		16	11	2	1	1		6	1
3,089		12,941		15		3,446	2,993	52,829	3,830	4,893		8,994	1,724
512		5,320		37		652	1,171	3,614	170	400		817	76
2		14				1	1					1	
111		2,850				95	244					45	
1		6	1				2	2					
25		127		4	2	21	24	2				2	4
6		67	1	1	1	30	13	1		2	7	8	
	1	11	1			5	6	2	1	1	1	7	
	1	6	2			2	2	2	1	1		9	2
	1	1				1				1		1	
		1						1				3	1
				1									33
1		6	1				2	2					
5		60		5		11	9			1		3	1
20		143	1		3	39	28	2	1		10	14	3
6	1	7	1			6	5	2				5	1
	1	1	2			2	1	3	2	3	1	4	1
	1	2				1						4	
				1				1		1			1
26	3	195	4	2	3	39	18	10	3	5	4	30	7
13	75	38	5	2	4	35	12	17	10	6	6	33	8
114,874	61,457	531,855	97,100	223,918	11,992	256,156	119,821	307,103	63,983	375,792	36,826	692,890	267,253
26	3	195	4	2	3	37	18	9	2	5	4	24	7
114,874	61,457	524,627	97,100	223,918	11,992	240,883	119,821	286,103	60,650	375,792	36,826	667,656	267,253
													46
		8				2		2	1			6	
		7,228				15,273		19,000	3,333			25,234	
26	3	180	4	2	3	39	16	9	3	4	3	30	7
24,468	22,964	101,563	25,029	89,331	2,222	45,093	26,571	116,383	14,793	118,022	4,425	182,617	115,615
25	3	190	4	2	3	39	18	8	3	5	4	30	7
71,844	38,493	406,036	61,680	134,587	8,170	173,205	91,240	163,550	44,150	61,242	20,415	466,769	149,838
10		12	2	1	1	4	1	5	2	3	3	8	1
9,847		20,756	10,391		1,600	37,791	2,010	26,970	5,040	195,528	11,986	43,380	1,800
1		1				1		1		1		2	
8,715		3,500				67		200		1,000		124	
23	3	180	4	2	3	38	18	8	3	5	3	29	7
70,901	10,265	365,271	47,650	14,893	8,170	86,509	88,348	129,297	27,254	33,326	19,815	261,799	93,008
11,682	4,920	76,787	13,063	10,050	1,290	19,981	16,198	68,861	7,951	29,247	7,125	92,573	37,396
6.1	2.1	4.8	3.6	1.5	6.3	4.3	5.5	1.9	3.4	1.1	2.8	2.8	2.5
6		70				11	3	2	1	1		7	1
943		40,765				873	2,892	6,446	426	320		3,038	121
345		7,123				471	325	3,614	170	400		862	76
2.7		5.7				1.9	8.9	1.8	2.5	0.8		3.5	1.6
6.1	2.1	5.3	3.6	1.5	6.3	4.4	5.9	2.0	3.5	1.1	2.8	2.8	2.5
5,141	20,530	111,834	56,194	29,161	600	30,410	17,885	105,919	21,988	52,014	6,976	256,505	149,332
0.07	2.00	0.31	1.18	1.96	0.07	0.35	0.20	0.82	0.81	1.56	0.35	0.98	1.61
26		7,504				340	253	5,266	182	174		1,085	120
0.03		0.18				0.39	0.09	0.82	0.43	0.54		0.36	0.99
14		179	5	5	3	47	38	6	3	3	8	22	3
5,413		50,318	13,063	157	1,290	16,606	22,708	9,314	8,121	5,485	3,390	44,909	745
2		14				2	1	1		2	1	1	3
1,570		4,003				1,434	700	2,000		24,162	5,535	8,118	36,277
7	3	15		1		5		3			2	7	
4,317	4,920	31,950		10,000		6,664		61,161			150	40,405	

IRRIGATION OF AGRICULTURAL LANDS

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

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

	Item (For definitions and explanations, see text)	The State	Beaver-head	Big Horn	Blaine	Broad-water	Carbon	Carter	Cascade	Chouteau	Custer
1	Irrigated land, 1949.....acres..	1,808,576	252,563	55,739	47,897	40,118	86,166	3,133	33,273	7,527	26,239
	Area irrigated direct, by drainage basin origin of water, 1949:										
2	All basins.....acres..	1,928,984	269,584	66,516	78,826	42,939	87,945	3,133	33,273	7,527	26,281
3	North Pacific Coast: Columbia above Snake River(I-C).....acres..	368,570									
4	Clark Fork.....acres..	364,066									
5	Clark Fork direct (8a and b).....acres..	105,225									
6	Flathead River.....acres..	107,813									
7	Flathead River direct (8c and d).....acres..	96,138									
8	Little Bitterroot River (8e).....acres..	11,675									
9	Bitterroot River (8f).....acres..	119,008									
10	Blackfoot River (8g).....acres..	32,020									
11	Kootenai River (9).....acres..	4,504									
12	Mississippi River, total.....acres..	1,560,414	269,584	66,516	78,826	42,939	87,945	3,133	33,273	7,527	26,281
13	Missouri River below Three Forks excluding Yellowstone River (VI-C).....acres..	548,736			78,826	42,767		3,133	33,273	7,527	
14	Missouri River direct (1a, b, and c).....acres..	99,597			829	42,767		3,133	2,234	5,450	
15	Milk River.....acres..	144,322			77,997					814	
16	Milk River direct (6a and b).....acres..	143,511			79,997					814	
17	Upper Beaver Creek (6c).....acres..	811									
18	Musselshell River.....acres..	62,873									
19	Musselshell River direct (7a).....acres..	48,342									
20	Box Elder and Flatwillow Creeks (7b).....acres..	14,531									
21	Judith River (8).....acres..	9,248									
22	Marias River.....acres..	94,897								1,263	
23	Marias River direct (9a).....acres..	60,094								276	
24	Teton River (9b).....acres..	34,803								987	
25	Sun River (10).....acres..	111,465							29,389		
26	Smith River (11).....acres..	26,334							1,650		
27	Yellowstone River excluding Big Horn River (VI-F).....acres..	435,107		2,473			86,362				26,281
28	Yellowstone River direct (1a, b, c, and d).....acres..	260,555		1,392							10,566
29	Powder River (2a).....acres..	7,031									2,895
30	Tongue River (3a).....acres..	17,782		1,081							12,820
31	Clarks Fork.....acres..	84,317					83,786				
32	Clarks Fork direct (4a).....acres..	33,533					33,002				
33	Red Lodge Creek (4b).....acres..	50,784					50,784				
34	Stillwater River.....acres..	22,384					2,576				
35	Stillwater River direct (5a).....acres..	11,265									
36	Fishtail Creek.....acres..	11,119					2,576				
37	Fishtail Creek direct (5b).....acres..	5,334									
38	East Rosebud Creek (5c).....acres..	5,785					2,576				
39	Boulder River (6).....acres..	14,205									
40	Shields River (7).....acres..	28,833									
41	Big Horn River (VI-G).....acres..	66,816		64,043			1,583				
42	Big Horn River direct (1a).....acres..	51,695		49,140			1,365				
43	Little Horn River (2).....acres..	14,903		14,903							
44	Shoshone River (3).....acres..	218					218				
45	Missouri River Headwaters above Three Forks (VI-H).....acres..	509,755	269,584				172				
46	Jefferson River.....acres..	196,915	116,007				172				
47	Jefferson River direct (1a).....acres..	34,555					172				
48	Boulder River (1b).....acres..	20,454									
49	Big Hole River (1c).....acres..	141,906	116,007								
50	Beaverhead River.....acres..	202,808	153,577								
51	Beaverhead River direct (1d).....acres..	107,146	95,230								
52	Ruby River (1e).....acres..	36,365									
53	Red Rock Creek (1f).....acres..	59,297	58,347								
54	Madison River (2).....acres..	37,190									
55	Gallatin River (3).....acres..	72,842									

See footnote at end of County Table 3

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	McCone	Madison	Meagher	Mineral	Missoula	Mussel-shell	Park	Petroleum	Phillips	Pondera
1 Irrigated land, 1949.....acres..	2,170	100,752	36,054	985	26,562	6,668	55,132	9,785	32,372	44,843
Area irrigated direct, by drainage basin origin of water, 1949: ¹										
2 All basins.....acres..	2,170	112,178	38,054	985	27,811	6,668	60,091	10,525	32,499	45,689
3 North Pacific Coast: Columbia above Snake River (I-C).....acres..				985	27,811					
4 Clark Fork.....acres..				985	27,811					
5 Clark Fork direct (8a and b).....acres..				985	15,593					
6 Flathead River.....acres..					2,016					
7 Flathead River direct (8c and d).....acres..					2,016					
8 Little Bitterroot River (8e).....acres..										
9 Bitterroot River (8f).....acres..					5,600					
10 Blackfoot River (8g).....acres..					4,602					
11 Kootenai River (9).....acres..										
12 Mississippi River, total.....acres..	2,170	112,178	38,054			6,668	60,091	10,525	32,499	45,689
13 Missouri River below Three Forks excluding Yellowstone River (VI-C).....acres..	2,170		38,054			6,668		10,525	32,499	45,689
14 Missouri River direct (1a, b, and c).....acres..	2,170		3,604						2,088	
15 Milk River.....acres..									30,411	
16 Milk River direct (6a and b).....acres..									29,600	
17 Upper Beaver Creek (6c).....acres..									811	
18 Musselshell River.....acres..			9,766			6,668		10,525		
19 Musselshell River direct (7a).....acres..			9,766			6,268		754		
20 Box Elder and Flatwillow Creeks (7b).....acres..						400		9,771		
21 Judith River (8).....acres..										
22 Marias River.....acres..										45,689
23 Marias River direct (9a).....acres..										42,189
24 Teton River (9b).....acres..										3,500
25 Sun River (10).....acres..										
26 Smith River (11).....acres..			24,684							
27 Yellowstone River excluding Big Horn River (VI-F).....acres..							60,091			
28 Yellowstone River direct (1a, b, c, and d).....acres..							33,605			
29 Powder River (2a).....acres..										
30 Tongue River (3a).....acres..										
31 Clarks Fork.....acres..										
32 Clarks Fork direct (4a).....acres..										
33 Red Lodge Creek (4b).....acres..										
34 Stillwater River.....acres..										
35 Stillwater River direct (5a).....acres..										
36 Fishtail Creek.....acres..										
37 Fishtail Creek direct (5b).....acres..										
38 East Rosebud Creek (5c).....acres..										
39 Boulder River (6).....acres..										
40 Shields River (7).....acres..							26,486			
41 Big Horn River (VI-G).....acres..										
42 Big Horn River direct (1a).....acres..										
43 Little Horn River (2).....acres..										
44 Shoshone River (3).....acres..										
45 Missouri River headwaters above Three Forks (VI-H).....acres..		112,178								
46 Jefferson River.....acres..		36,783								
47 Jefferson River direct (1a).....acres..		23,832								
48 Boulder River (1b).....acres..										
49 Big Hole River (1c).....acres..		12,951								
50 Beaverhead River.....acres..		49,006								
51 Beaverhead River direct (1d).....acres..		11,916								
52 Ruby River (1e).....acres..		36,140								
53 Red Rock Creek (1f).....acres..		950								
54 Madison River (2).....acres..		26,389								
55 Gallatin River (3).....acres..										

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	North-Pacific Coast: Columbia above Snake River (I-C)						
		Total	Clark Fork				Flathead River	
			Total	Clark Fork direct below Missoula	Clark Fork direct above Missoula	Total	Flathead River direct below Polson	
								(8a)	(8b)	(8c)
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	5,393	1,626	1,565	178	385	343	136	
2 1940..	5,555	1,801	1,639	(*)	(*)	297	(*)	
3 Interbasin.....enterprises 1950..	25	2	2			2	1	
4 Farms irrigated direct per enterprise ¹.....farms 1950..	3.1	3.2	3.2	2.5	1.4	5.8	10.5	
5 Irrigated land ².....acres 1949..	1,808,576	351,042	347,165	16,796	84,647	104,701	87,862	
6 1939..	1,711,409	341,873	334,710	22,337	83,601	84,888	85,420	
7 Average per enterprise.....acres 1949..	335	216	222	94	220	305	646	
8 Average acreage irrigated direct per enterprise ¹.....acres 1949..	348	227	233	100	227	314	668	
Type of enterprise, 1950:								
9 Single-farm.....enterprises..	4,159	1,229	1,179	159	321	287	105	
10 acres irrigated..	725,543	132,402	130,565	8,833	58,733	10,846	6,489	
Mutual:								
11 Unincorporated.....enterprises..	994	343	335	11	58	51	28	
12 acres irrigated..	323,918	77,219	76,607	974	17,363	5,812	4,329	
13 Incorporated.....enterprises..	158	23	22	4	4	3	2	
14 acres irrigated..	339,246	19,012	18,930	3,192	5,439	656	(³)	
Commercial.....enterprises..								
15 3	3	1						
16 acres irrigated..	528	(³)						
District.....enterprises..								
17 39	39	20	19	2	1	1		
18 acres irrigated..	236,790	32,508	30,608	(³)	(³)	(³)		
U. S. Bureau of Reclamation⁴.....enterprises..								
19 3	3	1	1	1				
20 acres irrigated..	38,568	200	200	200				
U. S. Bureau of Indian Affairs⁴.....enterprises..								
21 7	7	1	1			1	1	
22 acres irrigated..	158,106	89,499	89,499			89,499	79,499	
State.....enterprises..								
23 29	29	7	7	1	1			
24 acres irrigated..	51,752	17,207	17,207	(³)	(³)			
City.....enterprises..								
25 1	1	1	1					
26 acres irrigated..	(³)	(³)	(³)					
Use of surface, ground, pumped and stored water, 1949:								
Surface water:								
Gravity only.....enterprises reporting..								
27 4,429	4,429	1,383	1,324	131	367	216	102	
28 acres irrigated..	1,529,943	262,687	258,270	14,621	83,607	13,983	8,689	
Pumped only.....enterprises reporting..								
29 719	719	166	164	27	6	108	30	
30 acres irrigated..	104,582	8,604	8,517	1,758	1,157	3,272	1,927	
Gravity and pumped.....enterprises reporting..								
31 133	133	32	32	9	4	4	2	
32 acres irrigated..	231,634	94,680	94,680	769	1,759	89,659	79,561	
Ground water only (pumped from wells).....enterprises reporting..								
33 55	55	30	30	6	3	12	1	
34 acres irrigated..	1,082	236	236	73	46	44	1	
Surface (gravity or pumped) and ground water.....enterprises reporting..								
35 57	57	15	15	5	5	3	1	
36 acres irrigated..	7,660	2,363	2,363	594	841	855	720	
Stored water:								
None stored.....enterprises reporting..								
37 4,800	4,800	1,484	1,430	168	356	317	126	
38 acres irrigated..	1,293,513	218,294	216,031	17,352	66,611	15,450	10,196	
Part stored.....enterprises reporting..								
39 362	362	98	94	7	21	18	5	
40 acres irrigated..	372,668	145,447	143,375	443	18,978	92,001	80,387	
All stored.....enterprises reporting..								
41 231	231	44	41	3	8	8	5	
42 acres irrigated..	208,720	4,829	4,660	20	1,821	362	315	
Sources of surface water, 1949:⁵								
Streams (and lakes).....enterprises reporting..								
43 5,091	5,091	1,474	1,416	166	361	281	118	
44 acres irrigated..	1,858,449	363,071	358,680	17,529	86,775	106,311	90,198	
Springs.....enterprises reporting..								
45 344	344	132	124	16	27	53	13	
46 acres irrigated..	49,143	9,097	8,736	1,035	2,680	935	419	
Flowing wells.....enterprises reporting..								
47 46	46	26	26		1	22	2	
48 acres irrigated..	4,956	3,175	3,175		80	850	52	
Drainage water.....enterprises reporting..								
49 131	131	66	66	5	12	5	4	
50 acres irrigated..	40,861	30,688	30,688	428	4,847	307	283	
Sewage.....enterprises reporting..								
51 8	8	6	6		3			
52 acres irrigated..	1,797	1,558	1,558		1,027			
Other sources.....enterprises reporting..								
53								
54								
Drainage of irrigated land:⁶								
Irrigated land drained:								
55 Enterprises reporting.....enterprises 1949..	377	154	153	5	54	11	5	
56 Area supplied primary irrigation.....acres 1949..	582,395	121,728	121,645	657	20,878	77,496	77,125	
57 Area artificially drained.....acres 1949..	189,497	82,986	82,966	155	2,513	77,386	77,062	
58 acres 1939..	146,322	2,134	2,034	(*)	(*)	760	(*)	
Irrigated land in need of drainage:								
59 Enterprises reporting.....enterprises 1949..	714	319	313	17	98	25	9	
60 Area supplied primary irrigation.....acres 1949..	730,648	163,480	163,272	4,719	28,657	78,644	77,658	
61 Area in need of drainage.....acres 1949..	182,614	87,785	87,759	2,552	3,736	76,476	76,187	
62 acres 1939..	52,071	2,764	2,720	(*)	(*)	2,050	(*)	

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)	Missouri River below Three Forks excluding Yellowstone River (VI-C)--Continued						
	Musselshell River			Judith River	Marias River		
	Total	Musselshell River direct	Box Elder and Flat-willow Creeks		Total	Marias River direct	Teton River
	(7a)	(7b)	(8)	(9a)	(9b)		
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	275	200	76	68	127	67	61
2	255	168	87	66	198	97	101
3 Interbasin.....enterprises 1950..	1	1	1	.....	2	2	1
4 Farms irrigated direct per enterprise ¹.....farms 1950..	1.4	1.4	1.4	1.5	5.5	7.7	3.0
5 Irrigated land.....acres 1949..	61,953	48,562	13,391	9,078	94,007	62,748	31,259
6	56,460	43,613	12,847	10,320	124,176	71,833	52,343
7 Average per enterprise.....acres 1949..	225	243	176	134	740	937	512
8 Average acreage irrigated direct per enterprise.....acres 1949..	229	244	186	136	747	949	513
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	238	176	62	54	112	59	53
10	42,162	33,870	8,292	4,896	20,599	7,228	13,371
Mutual:							
11 Unincorporated.....enterprises..	30	20	10	11	6	4	2
12	11,221	7,425	3,796	3,187	820	545	(³)
13 Incorporated.....enterprises..	2	1	2	1	6	2	5
14	(³)	(³)	(³)	(³)	47,518	(³)	10,018
15 Commercial.....enterprises..	1	1	.....	.....	.....	.....	.....
16	(³)	(³)	.....	.....	.....	.....	.....
17 District.....enterprises..	.....	.....	.....	.....	1	.....	1
18 .....	.....	.....	.....	.....	(³)	.....	(³)
19 U. S. Bureau of Reclamation ⁴.....enterprises..	.....	.....	.....	.....	1	1	.....
20 .....	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	.....	.....	.....	1	1	.....
22 .....	.....	.....	.....	.....	18,321	18,321	.....
23 State.....enterprises..	4	2	2	2	.....	.....	.....
24	5,927	(³)	(³)	(³)	.....	.....	.....
25 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....
26 .....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:							
Surface water:							
27 Gravity only.....enterprises reporting..	206	147	60	60	98	51	48
28	58,472	45,248	13,224	8,044	93,232	62,786	30,446
29 Pumped only.....enterprises reporting..	54	42	12	8	25	12	13
30	2,301	1,880	421	1,204	1,396	539	857
31 Gravity and pumped.....enterprises reporting..	12	8	4	.....	4	4	.....
32	1,669	1,183	486	.....	269	269	.....
33 Ground water only (pumped from wells).....enterprises reporting..	1	1	.....	.....	.....	.....	.....
34	8	8	.....	.....	.....	.....	.....
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	2	2	.....	.....	.....	.....	.....
36	423	423	.....	.....	.....	.....	.....
Stored water:							
37 None stored.....enterprises reporting..	209	161	49	65	105	51	54
38	43,164	33,550	9,614	8,381	26,776	6,912	19,864
39 Part stored.....enterprises reporting..	35	22	13	1	8	6	2
40	9,805	8,373	1,432	134	20,617	18,617	2,000
41 All stored.....enterprises reporting..	31	17	14	2	14	10	5
42	9,904	6,819	3,085	733	47,504	38,065	9,439
Sources of surface water, 1949:⁵							
43 Streams (and lakes).....enterprises reporting..	268	194	75	60	117	63	55
44	62,604	48,616	13,988	8,950	94,186	63,399	30,787
45 Springs.....enterprises reporting..	8	7	1	8	9	1	8
46	459	457	2	312	1,220	120	1,100
47 Flowing wells.....enterprises reporting..	2	1	1	1	3	3	.....
48	96	56	40	6	26	26	.....
49 Drainage water.....enterprises reporting..	9	4	5	.....	4	3	1
50	1,038	235	803	.....	401	385	16
51 Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
52 .....	.....	.....	.....	.....	.....	.....	.....
53 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
54 .....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	7	6	1	.....	10	.....	10
56 Area supplied primary irrigation.....acres 1949..	5,170	3,997	1,173	.....	17,782	.....	17,782
57 Area artificially drained.....acres 1949..	720	670	50	.....	976	.....	976
58	25	25	.....	.....	(*)	.....	(*)
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	16	11	5	1	15	8	7
60 Area supplied primary irrigation.....acres 1949..	7,986	6,807	1,179	727	46,200	35,461	10,739
61 Area in need of drainage.....acres 1949..	861	763	98	200	1,690	605	1,085
62	75	75	.....	(*)	(*)	.....	(*)

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]

Missouri River below Three Forks excluding Yellowstone River (VI-C)—Continued		Yellowstone River excluding Big Horn River (VI-F)											
Sun River (10)	Smith River (11)	Total	Yellowstone River direct					Powder River (2a)	Tongue River (3a)	Clarks Fork			
			Total	Below Miles City (1a)	Miles City to Billings (1b)	Billings to Livingston (1c)	Above Livingston (1d)			Total	Clarks Fork direct (4a)	Red Lodge Creek (4b)	
81	84	1,217	579	36	171	228	146	52	76	223	80	144	1
96	90	1,045	(*)	(*)	(*)	(*)	(*)	25	47	207	41	166	2
2	2	12	9	2	3	6	6	1	1	2	2	1	3
9.4	1.0	4.0	5.4	20.0	5.8	5.3	1.4	0.9	1.7	4.0	6.6	2.5	4
106,065	24,334	423,505	265,737	66,866	85,626	90,141	23,104	7,031	12,725	82,538	47,632	34,906	5
87,025	27,139	386,907	228,450	33,447	88,287	84,734	21,982	2,195	13,880	77,252	32,372	44,880	6
1,309	290	348	459	1,857	501	395	158	135	167	370	595	242	7
1,356	290	357	467	1,859	503	404	174	155	167	378	610	247	8
67	82	909	469	28	154	164	123	52	71	137	39	98	9
24,691	23,884	103,121	53,299	2,954	13,295	20,277	16,773	7,031	8,550	14,716	4,859	9,857	10
11		214	63		4	37	22			47	11	37	11
4,599		70,493	16,821		1,307	10,335	5,179		(3)	17,721	4,401	13,320	12
(3)		76	32	4	6	24			(3)	37	29	8	13
		164,029	108,042	24,558	25,187	58,297			(3)	51,376	39,056	12,320	14
		1	1		1								15
		(3)	(3)		(3)								16
		9	9	3	5	1			(3)	1	(3)	1	17
(3)		86,989	82,545	36,743	45,486	(3)			(3)	(3)	(3)		18
													19
		2	1		1					1			20
		706	706		706								21
													22
	(3)	6	4	1		2	1		(3)	1	(3)	(3)	23
		9,062	9,062	(3)					(3)		(3)	(3)	24
													25
													26
55	84	981	407	18	53	197	140	45	46	197	62	136	27
106,703	24,334	318,563	161,900	7,405	42,007	87,588	24,900	5,377	9,367	82,362	47,533	34,829	28
22		183	138	16	100	19	3	5	19	20	14	6	29
2,542		48,791	43,916	28,064	13,980	1,713	159	994	2,110	1,416	1,001	415	30
1		41	28	2	18	7	2	1	9	3	2	1	31
215		66,225	64,234	31,439	30,039	2,683	73	600	1,225	166	136	30	32
1		6	5			5				1			33
90		151	150			150				1			34
2		6	1					1	1	3	2	1	35
285		715	320				320	60	22	313	90	223	36
76	77	1,117	543	23	158	220	143	42	67	181	64	117	37
32,149	22,617	352,708	216,862	65,286	39,975	86,811	24,790	5,276	11,864	59,269	39,093	20,176	38
3	6	74	17	4	7	6	1	7	7	40	15	26	39
8,594	1,717	76,755	49,528	737	45,396	2,935	460	1,233	711	24,808	9,487	15,321	40
2	1	26	19	9	6	2	2	3	2	2	1	1	41
69,092		4,982	4,130	885	655	2,388	202	522	150	180	180		42
75	81	1,177	555	33	165	216	143	52	75	216	78	139	43
109,302	22,894	432,393	269,366	66,881	85,409	91,654	25,422	7,031	12,724	83,718	48,330	35,388	44
3	6	55	28	4	1	8	15	1	1	13	4	9	45
143	1,707	5,932	3,125	296	130	1,300	1,399	40	34	2,161	1,242	919	46
1		4	1		1			1		2	2		47
190		283	12		12			6		265	265		48
2		16	12		6	4	2	1		2		2	49
300		3,564	2,354		766	1,485	103	600		580		580	50
		1	1		1								51
		21	21		21								52
													53
													54
10		73	46	6	22	17	2	1	1	17	8	10	55
79,216		170,835	152,948	49,021	67,231	36,455	241	75	100	13,803	9,781	4,022	56
11,360		61,290	58,467	11,279	42,197	4,982	9	15	100	1,877	1,595	282	57
48,046		66,108	(*)	(*)	(*)	(*)	(*)	(*)		160		160	58
10	1	123	50	7	22	19	3	4	4	29	17	13	59
71,545	750	177,844	138,902	56,416	69,155	12,962	369	900	867	26,136	23,561	2,575	60
5,768	70	25,334	20,202	1,995	15,279	2,898	30	620	57	2,401	2,219	182	61
1,739		19,834	(*)	(*)	(*)	(*)	(*)	(*)		990	(5)	490	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)		Yellowstone River excluding Big Horn River (VI-F)—Continued						
		Stillwater River					Boulder River	Shields River
		Total	Stillwater River direct	Fishtail Creek direct				
				Total	Fishtail Creek direct	East Rosebud Creek		
		(5a)	(5b)	(5c)	(6)	(7)		
ALL ENTERPRISES								
Farms and land irrigated:								
1	All irrigation enterprises.....enterprises 1950..	101	46	55	33	23	30	161
2	..... 1940..	118	42	76	(*)	(*)	(*)	122
3	Interbasin.....enterprises 1950..	1		1	1	1	3	1
4	Farms irrigated direct per enterprise ¹.....farms 1950..	3.1	3.0	3.2	2.3	4.3	3.3	1.6
5	Irrigated land ².....acres 1949..	19,780	9,297	10,483	5,000	5,483	9,086	26,608
6	.....acres 1939..	22,163	7,907	14,256	8,743	5,513	15,889	27,078
7	Average per enterprise.....acres 1949..	196	202	191	152	238	303	165
8	Average acreage irrigated direct per enterprise ¹.....acres 1949..	205	208	202	162	252	346	179
Type of enterprise, 1950:								
9	Single-farm.....enterprises..	50	24	26	18	8	11	119
10	.....acres irrigated..	3,649	1,786	1,863	1,238	625	995	14,881
Mutual:								
11	Unincorporated.....enterprises..	49	20	29	15	15	17	39
12	.....acres irrigated..	15,511	6,255	9,256	4,096	5,160	8,537	11,868
13	Incorporated.....enterprises..	2	2				2	3
14	.....acres irrigated..	(³)	(³)				(³)	2,084
15	Commercial.....enterprises..							
16	.....acres irrigated..							
17	District.....enterprises..							
18	.....acres irrigated..							
19	U. S. Bureau of Reclamation ⁴.....enterprises..							
20	.....acres irrigated..							
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..	101	46	55	33	23	30	160
28	.....acres irrigated..	20,707	9,588	11,119	5,334	5,785	10,372	28,478
29	Pumped only.....enterprises reporting..							1
30	.....acres irrigated..							355
31	Gravity and pumped.....enterprises reporting..							
32	.....acres irrigated..							
33	Ground water only (pumped from wells).....enterprises reporting..							
34	.....acres irrigated..							
35	Surface (gravity or pumped) and ground water.....enterprises reporting..							
36	.....acres irrigated..							
Stored water:								
37	None stored.....enterprises reporting..	100	45	55	33	23	30	159
38	.....acres irrigated..	20,687	9,568	11,119	5,334	5,785	10,372	28,378
39	Part stored.....enterprises reporting..	1	1					2
40	.....acres irrigated..	20	20					455
41	All stored.....enterprises reporting..							
42	.....acres irrigated..							
Sources of surface water, 1949:⁵								
43	Streams (and lakes).....enterprises reporting..	96	42	54	32	23	28	160
44	.....acres irrigated..	20,502	9,413	11,089	5,304	5,785	10,242	28,810
45	Springs.....enterprises reporting..	7	7				3	2
46	.....acres irrigated..	219	219				140	213
47	Flowing wells.....enterprises reporting..							
48	.....acres irrigated..							
49	Drainage water.....enterprises reporting..	1		1	1			
50	.....acres irrigated..	30		30	30			
51	Sewage.....enterprises reporting..							
52	.....acres irrigated..							
53	Other sources.....enterprises reporting..							
54	.....acres irrigated..							
Drainage of irrigated land:⁶								
Irrigated land drained:								
55	Enterprises reporting.....enterprises 1949..	8	3	5	5		1	
56	Area supplied primary irrigation.....acres 1949..	3,688	1,973	1,715	1,715		221	
57	Area artificially drained.....acres 1949..	731	531	200	200		100	
58	.....acres 1939..	273	273		(*)	(*)	(*)	
Irrigated land in need of drainage:								
59	Enterprises reporting.....enterprises 1949..	18	5	13	12	2	5	14
60	Area supplied primary irrigation.....acres 1949..	5,306	2,248	3,058	2,674	384	1,522	4,211
61	Area in need of drainage.....acres 1949..	718	378	340	298		360	976
62	.....acres 1939..	138	7	131	(*)	(*)	(*)	(*)

¹Not available.

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

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

⁴Data for less than 3 enterprises not shown separately.

⁵Data for less than 3 enterprises shown with permission of the enterprise.

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

⁷For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

MONTANA

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]

Big Horn River (VI-G)				Missouri River headwaters above Three Forks (VI-H)												
Total	Big Horn River direct	Little Horn River	Shoshone River	Total	Jefferson River				Beaverhead River				Madison River	Gallatin River		
					Total	Jefferson River direct	Boulder River	Big Hole River	Total	Deaverhead River direct	Ruby River	Red Rock Creek				
																(1a)	(1b)	(1c)	(1d)	(1e)	(1f)
(1a)	(2)	(3)									(2)	(3)				
56	25	28	4	1,094	806	147	92	196	371	174	102	96	136	155	1	
40	13	18	9	1,138	834	152	86	217	379	(*)	148	(*)	74	230	2	
1	1	1		6	5	2		1	2	1		2	3	1	3	
10.3	16.0	6.1	1.0	2.2	1.8	2.6	1.8	1.4	1.7	1.6	2.2	1.2	1.7	4.7	4	
55,333	41,658	13,457	218	472,035	370,805	31,489	19,915	132,046	187,355	107,607	29,997	49,751	34,249	66,981	5	
56,323	44,294	10,965	1,064	431,027	319,144	35,079	15,974	124,932	143,159	83,473	28,570	31,116	24,234	87,649	6	
988	1,666	481	54	431	460	214	216	674	505	618	294	518	252	432	7	
1,020	1,679	533	54	455	481	230	222	697	529	642	319	543	277	468	8	
47	18	26	3	744	567	89	60	154	264	125	67	73	101	78	9	
7,382	2,878	4,363	141	289,989	265,947	11,621	9,854	107,636	136,836	80,941	12,866	43,029	18,099	5,943	10	
				313	221	54	28	42	97	43	32	22	30	63	11	
				136,132	94,373	16,801	8,622	29,020	39,930	18,302	12,501	9,127	13,715	28,044	12	
6	5	1		33	14	3	4		7	6		1	5	13	13	
20,116	18,562	(3)		64,179	19,773	5,377	1,978		12,418	12,418		(3)	5,841	38,565	14	
															15	
															16	
(3)	(3)		(3)												17	
															18	
1	1	1													19	
29,000	20,000	9,000													20	
															21	
															22	
				4	4	(3)	1		3		3				23	
				7,205	7,205				7,205		7,205				24	
															25	
															26	
39	17	19	4	1,065	785	135	88	194	368	172	102	95	130	152	27	
56,395	41,509	14,668	218	486,649	381,458	31,899	18,462	135,671	195,426	110,998	32,572	51,856	33,424	71,767	28	
11	6	5		11	6	4			1			1	3	2	29	
585	394	191		1,179	868	268	300		300			300	126	185	30	
3		3		9	7	2	2	2	1	1			2	1	31	
56		56		7,532	2,847	95	1,614	985	153	153			4,085	600	32	
2	1	1		4	4	3	1								33	
14	12	2		320	320	242	78								34	
1	1			5	4	3									35	
60	60			1,825	1,805	1,295			510	510			20		36	
49	22	25	2	999	720	122	77	195	326	154	91	82	128	153	37	
27,768	21,845	5,882	41	456,268	348,962	25,961	16,617	136,606	169,778	102,021	20,788	46,969	36,104	71,202	38	
4	2	1		78	72	20	13	1	38	17	8	13	6	1	39	
29,287	20,110	9,000	177	33,259	30,632	7,486	3,837	50	19,259	9,493	4,579	5,187	1,277	1,350	40	
3	1	2		17	14	5	2		7	3	3	1	2	1	41	
55	20	35		7,978	7,704	352			7,352	147	7,205		274		42	
															43	
52	23	26	4	1,061	777	135	82	193	367	171	102	95	135	152	44	
57,026	41,943	14,865	218	495,370	385,217	33,253	19,492	136,539	195,933	111,505	32,572	51,856	37,651	72,502	45	
7	2	4	1	80	69	21	16	6	26	13	1	12	4	7	46	
1,525	1,155	330	40	19,471	19,155	1,779	2,101	312	14,963	7,498	30	7,435	36	280	47	
1	1			2	2	1	1								48	
400	400			120	120	120									49	
2	1	1		8	6	1		2	3	2	1			2	50	
240	20	220		3,115	1,507	152		195	1,160	760	400			1,608	51	
															52	
															53	
															54	
8	5	2	1	62	53	5	9	23	16	12	1	3	1	8	55	
25,906	18,229	7,600	77	69,468	50,581	3,090	3,080	31,078	13,333	9,216	1,290	2,827	400	18,487	56	
11,069	10,882	110	77	5,615	4,024	425	444	2,240	915	720	30	165	90	1,501	57	
21,752	21,368	384		345	15	15				(*)		(*)	160	170	58	
8	7	2		148	123	22	15	48	38	19	13	6	16	9	59	
47,596	38,502	9,094		112,765	85,698	7,947	5,534	46,521	25,696	12,573	6,294	6,829	7,199	19,868	60	
16,531	8,491	8,040		15,268	11,824	1,595	1,061	5,823	3,345	2,120	800	425	1,229	2,215	61	
6,415	4,934	1,481		1,138	345	345			(*)	(*)	(*)	(*)	205	245	62	

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	North Pacific Coast: Columbia River above Snake River (I-C)						
		Total	Clark Fork				Flathead River	
			Total	Clark Fork direct below Missoula	Clark Fork direct above Missoula	Total	Flathead River direct below Polson	
							(8a)	(8b)	(8c)
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	4,068	1,288	1,233	132	353	179	91	
2 dams 1950..	8,139	2,514	2,445	206	935	261	141	
3 1940..	6,136	2,123	1,959	(*)	(*)	172	(*)	
4 Diversion dams by material:								
5 Concrete or masonry.....dams 1950..	449	134	128	19	18	39	19	
6 Timber.....dams 1950..	1,674	784	772	35	246	54	34	
7 Earth and rock.....dams 1950..	5,365	1,425	1,383	129	631	136	72	
8 Other, mixed, and not reported.....dams 1950..	651	173	162	23	40	32	16	
9 Reservoirs.....enterprises reporting 1950..	443	91	84	8	21	18	4	
10 reservoirs 1950..	629	129	120	10	31	35	13	
11 Reservoirs for which capacity was reported.....reservoirs 1950..	577	115	105	(*)	(*)	33	(*)	
12 total capacity, acre-feet 1950..	1,598,898	300,409	298,481	10	27	34	13	
13 1940..	1,301,427	239,740	236,633	(*)	(*)	151,932	(*)	
14 Reservoirs by capacity:								
15 1-99 acre-feet.....reservoirs 1950..	369	66	61	6	14	19	4	
16 100-199 acre-feet.....reservoirs 1950..	124	27	27	4	11	2	2	
17 1,000 acre-feet and over.....reservoirs 1950..	84	28	27	.....	2	13	7
18 Reservoir dams by material:								
19 Concrete or masonry.....dams 1950..	20	9	9	1	3	5	.....
20 Earth and rock.....dams 1950..	551	101	95	8	20	28	13	
21 Other, mixed, and not reported.....dams 1950..	58	19	16	1	8	2	.....
22 Canals and ditches.....enterprises reporting 1950..	3,591	1,065	1,033	105	275	146	81	
23 total length, miles 1950..	15,499	3,599	3,517	293	768	1,251	978	
24 1940..	15,702	3,809	3,732	(*)	(*)	1,206	(*)	
25 Pipelines and siphons ¹.....enterprises reporting 1950..	219	115	110	19	18	56	4	
26 total length, miles 1950..	110	77	62	12	16	28	8	
27 1940..	148	56	48	(*)	(*)	27	(*)	
28 Tunnels.....enterprises reporting 1950..	20	6	6	.....	5	1	1
29 total length, feet 1950..	17,586	3,670	3,670	.....	2,270	1,400	300
30 Flowing wells.....enterprises reporting 1950..	46	26	26	.....	1	22	2
31 wells 1950..	79	48	48	.....	1	44	3
32 1940..	44	39	39	(*)	(*)	38	(*)	
33 Pumped wells.....enterprises reporting 1950..	112	44	44	11	8	15	2	
34 wells 1950..	142	49	49	14	9	15	2	
35 1940..	102	37	34	(*)	(*)	11	(*)	
36 Wells for which pumping lift was reported.....wells 1949..	128	44	44	14	8	12	1	
37 Average pumping lift.....feet 1949..	30	29	29	40	19	35	12	
38 1939..	24	29	30	(*)	(*)	23	(*)	
39 Irrigation pumps.....enterprises reporting 1950..	963	243	242	46	18	129	36	
40 pumps 1950..	1,304	276	275	53	19	149	39	
41 1940..	680	124	116	(*)	(*)	67	(*)	
42 Electric motors used for pumping.....enterprises reporting 1950..	356	100	100	20	8	55	3	
43 electric motors 1950..	473	116	116	23	8	65	6	
44 1940..	165	62	62	(*)	(*)	38	(*)	
45 Other motors and engines used for pumping.....enterprises reporting 1950..	657	146	145	28	10	76	33	
46 other motors and engines 1950..	792	158	157	31	10	83	33	
47 1940..	486	63	55	(*)	(*)	28	(*)	
48 Season of irrigation, 1949:								
49 Water delivered only before July 1.....enterprises reporting..	440	36	33	6	4	9	2	
50 acres irrigated..	64,300	3,124	2,807	363	757	263	45	
51 Water delivered before and after July 1.....enterprises reporting..	4,582	1,461	1,406	154	369	267	115	
52 acres irrigated..	1,780,501	357,855	353,705	16,452	85,039	105,695	89,868	
53 Water delivered only after July 1.....enterprises reporting..	219	89	87	14	7	52	8	
54 acres irrigated..	11,978	2,165	2,148	681	98	1,079	240	
55 Capital investment:								
56 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	67,352,505	13,447,045	13,224,496	(*)	(*)	8,086,898	(*)	
57 New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
58 Enterprises reporting.....enterprises 1950..	2,428	625	615	78	163	141	35	
59 Amount.....dollars 1950..	13,904,485	3,348,432	3,341,352	399,511	271,960	2,220,582	1,796,293	
60 Area irrigated direct.....acres 1949..	995,247	226,871	226,300	9,243	47,738	95,330	82,001	
61 Total capital investment Jan. 1, 1950.....dollars 1950..	81,256,990	16,795,477	16,565,848	(*)	(*)	10,307,480	(*)	
62 Indebtedness:								
63 Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
64 Enterprises reporting.....enterprises 1950..	97	22	21	5	2	3	1	
65 Amount.....dollars 1950..	41,498,918	12,014,931	12,007,931	350,613	600,105	9,282,570	8,250,162	
66 1940..	44,542,281	11,495,680	11,482,680	(*)	(*)	8,755,846	(*)	
67 Area irrigated direct.....acres 1949..	579,899	143,934	142,034	3,054	6,361	90,569	79,499	
68 Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
69 Enterprises reporting.....enterprises 1950..	15	4	4	1	1	.....	.....
70 Amount.....dollars 1950..	1,381,563	385,200	385,200	5,000	114,610	.....	.....
71 Area irrigated direct.....acres 1949..	66,006	8,375	8,375	2,500	5,075	.....	.....

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)	Missouri River below Three Forks excluding Yellowstone River (VI-C)—Continued							
	Missouri River			Judith Basin 8	Marias River			
	Total	Musselshell River direct (7a)	Box Elder and Flatwillow Creeks (7b)		Total	Marias River direct (9a)	Teton River (9b)	
ALL ENTERPRISES								
Irrigation works:								
1	Diversion dams.....enterprises reporting 1950..	188	137	51	51	89	46	44
2	Diversion dams.....dams 1950..	456	368	88	60	169	81	88
3	Diversion dams.....dams 1940..	300	180	120	57	197	107	90
Diversion dams by material:								
4	Concrete or masonry.....dams 1950..	31	22	9	3	18	11	7
5	Timber.....dams 1950..	51	50	1	9	9	.....	9
6	Earth and rock.....dams 1950..	329	257	72	38	130	65	65
7	Other, mixed, and not reported.....dams 1950..	45	39	6	10	12	5	7
8	Reservoirs.....enterprises reporting 1950..	57	32	25	5	23	19	5
9	Reservoirs.....reservoirs 1950..	83	45	38	5	36	30	6
10	Reservoirs.....reservoirs 1940..	35	13	22	3	34	20	14
11	Reservoirs for which capacity was reported.....reservoirs 1950..	83	45	38	5	35	29	6
12	Reservoirs.....total capacity, acre-feet 1950..	113,769	86,737	27,032	6,126	346,588	246,088	100,500
13	Reservoirs.....total capacity, acre-feet 1940..	32,665	3,809	28,856	6,016	277,892	179,839	98,053
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..	57	31	26	4	15	15	.....
15	100-999 acre-feet.....reservoirs 1950..	20	10	10	.....	9	9	.....
16	1,000 acre-feet and over.....reservoirs 1950..	6	4	2	1	11	5	6
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..	1	.....	1	.....	.....	.....	.....
18	Earth and rock.....dams 1950..	80	44	36	5	34	28	6
19	Other, mixed, and not reported.....dams 1950..	2	1	1	.....	2	2	.....
20	Canals and ditches.....enterprises reporting 1950..	176	131	46	37	76	43	34
21	Canals and ditches.....total length, miles 1950..	727	558	169	80	1,141	946	195
22	Canals and ditches.....total length, miles 1940..	680	504	176	159	1,406	1,015	391
23	Pipelines and siphons ¹.....enterprises reporting 1950..	11	7	4	1	3	3	.....
24	Pipelines and siphons ¹.....total length, miles 1950..	1	1	(²)	(²)	4	4	.....
25	Pipelines and siphons ¹.....total length, miles 1940..	1	1	1	.....	11	10	1
26	Tunnels.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....
27	Tunnels.....total length, feet 1950..	.....	.....	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	2	1	1	1	3	3	.....
29	Flowing wells.....wells 1950..	2	1	1	1	4	4	.....
30	Flowing wells.....wells 1940..	1	.....	1	.....	.....	.....	.....
31	Pumped wells.....enterprises reporting 1950..	3	3	.....	.....	.....	.....	.....
32	Pumped wells.....wells 1950..	3	3	.....	.....	.....	.....	.....
33	Pumped wells.....wells 1940..	11	11	.....	1	4	1	3
34	Wells for which pumping lift was reported.....wells 1949..	2	2	.....	.....	.....	.....	.....
35	Wells for which pumping lift was reported.....wells 1949..	16	16	.....	.....	.....	.....	.....
36	Average pumping lift.....feet 1939..	14	14	.....	.....	7	.....	7
37	Irrigation pumps.....enterprises reporting 1950..	69	53	16	9	28	15	13
38	Irrigation pumps.....pumps 1950..	83	66	17	10	37	22	15
39	Irrigation pumps.....pumps 1940..	48	39	9	7	56	37	19
40	Electric motors used for pumping.....enterprises reporting 1950..	9	9	.....	.....	8	2	6
41	Electric motors used for pumping.....electric motors 1950..	10	10	.....	2	9	2	7
42	Electric motors used for pumping.....electric motors 1940..	8	8	.....	1	6	2	4
43	Other motors and engines used for pumping.....enterprises reporting 1950..	61	45	16	7	23	15	8
44	Other motors and engines used for pumping.....other motors and engines 1950..	71	53	18	8	28	20	8
45	Other motors and engines used for pumping.....other motors and engines 1940..	38	29	9	6	46	34	12
Season of irrigation, 1949:								
46	Water delivered only before July 1.....enterprises reporting..	70	29	42	6	26	17	9
47	Water delivered only before July 1.....acres irrigated..	11,098	4,479	6,619	527	4,332	2,405	1,927
48	Water delivered before and after July 1.....enterprises reporting..	196	165	31	57	81	37	45
49	Water delivered before and after July 1.....acres irrigated..	49,728	43,490	6,238	8,545	88,781	60,395	28,386
50	Water delivered only after July 1.....enterprises reporting..	6	4	2	4	10	7	3
51	Water delivered only after July 1.....acres irrigated..	1,441	567	874	156	799	579	220
Capital investment:								
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	716,804	342,162	374,642	383,014	5,877,681	4,249,340	1,628,341
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53	Enterprises reporting.....enterprises 1950..	161	116	45	31	70	37	33
54	Amount.....dollars 1950..	510,829	435,687	75,142	35,820	150,420	69,420	81,080
55	Area irrigated direct.....acres 1949..	33,617	26,071	7,546	2,883	35,206	22,498	12,708
56	Total capital investment Jan. 1, 1950.....dollars 1950..	1,227,633	777,849	449,784	418,834	6,028,101	4,318,760	1,709,341
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57	Enterprises reporting.....enterprises 1950..	4	2	2	2	4	1	3
58	Amount.....dollars 1950..	1,015,274	927,505	87,769	103,850	1,575,819	1,339,923	235,896
59	Area irrigated direct.....acres 1949..	38,022	22	38,000	100,279	5,261,272	4,968,825	292,447
60	Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:	5,927	5,927	.....	1,085	27,960	18,321	9,639
61	Enterprises reporting.....enterprises 1950..	2	2	.....	1	.....	.....	.....
62	Amount.....dollars 1950..	142,286	142,286	.....	10,000	.....	.....	.....
63	Area irrigated direct.....acres 1949..	5,927	5,927	.....	727	.....	.....	.....

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)	Yellowstone River excluding Big Horn River (VI-F) — Continued							
	Stillwater River					Boulder River (6)	Shields River (7)	
	Total	Stillwater River direct (5a)	Fishtail Creek direct					
			Total	Fishtail Creek direct (5b)	East Rosebud Creek (5c)			
ALL ENTERPRISES								
Irrigation works:								
1	Diversions dams.....enterprises reporting 1950..	84	.41	43	30	13	24	146
2	.....dams 1950..	99	54	45	32	13	32	202
3	.....dams 1940..	101	32	69	(*)	(*)	(*)	193
Diversions dams by material:								
4	Concrete or masonry.....dams 1950..	22	17	5	2	3	8	11
5	Timber.....dams 1950..	23	9	14	10	4	5	55
6	Earth and rock.....dams 1950..	51	27	24	19	5	18	113
7	Other, mixed, and not reported.....dams 1950..	3	1	2	1	1	1	23
8	Reservoirs.....enterprises reporting 1950..	1	1	.....	.....	.....	.....	2
9	.....reservoirs 1950..	1	1	.....	.....	.....	.....	2
10	.....reservoirs 1940..	.....	.....	.....	(*)	(*)	(*)	2
11	Reservoirs for which capacity was reported.....reservoirs 1950..	1	1	.....	.....	.....	.....	2
12	.....total capacity, acre-feet 1950..	4	4	.....	.....	.....	.....	2
13	.....total capacity, acre-feet 1940..	.....	.....	.....	(*)	(*)	(*)	580
Reservoirs by capacity:								
14	1-99 acre-feet.....reservoirs 1950..	1	1	.....	.....	.....	.....	1
15	100-999 acre-feet.....reservoirs 1950..	.....	.....	.....	.....	.....	.....	1
16	1,000 acre-feet and over.....reservoirs 1950..	.....	.....	.....	.....	.....	.....	.....
Reservoir dams by material:								
17	Concrete or masonry.....dams 1950..	.....	.....	.....	.....	.....	.....	.....
18	Earth and rock.....dams 1950..	1	1	.....	.....	.....	.....	1
19	Other, mixed, and not reported.....dams 1950..	.....	.....	.....	.....	.....	.....	1
20	Canals and ditches.....enterprises reporting 1950..	96	42	54	33	22	26	153
21	.....total length, miles 1950..	237	99	138	70	68	95	404
22	.....total length, miles 1940..	358	74	284	(*)	(*)	(*)	264
23	Pipelines and siphons ¹.....enterprises reporting 1950..	1	.....	1	.....	1	.....	2
24	.....total length, miles 1950..	.....	.....	.....	.....	.....	.....	.....
25	.....total length, miles 1940..	.....	.....	.....	.....	(²)	.....	(²)
26	Tunnels.....enterprises reporting 1950..	1	.....	1	(*)	(*)	(*)	(²)
27	.....total length, feet 1950..	1	1	.....	.....	1	1	1
28	Flowing wells.....enterprises reporting 1950..	75	.....	75	.....	75	140	95
29	.....wells 1950..	.....	.....	.....	.....	.....	.....	.....
30	.....wells 1940..	.....	.....	.....	(*)	(*)	(*)	.....
31	Pumped wells.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	.....
32	.....wells 1950..	.....	.....	.....	.....	.....	.....	.....
33	.....wells 1940..	.....	.....	.....	(*)	(*)	(*)	.....
34	Wells for which pumping lift was reported.....wells 1949..	.....	.....	.....	.....	.....	.....	1
35	Average pumping lift.....feet 1949..	.....	.....	.....	.....	.....	.....	.....
36	.....feet 1939..	.....	.....	.....	(*)	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	1
38	.....pumps 1950..	.....	.....	.....	.....	.....	.....	2
39	.....pumps 1940..	.....	.....	.....	(*)	(*)	(*)	1
40	Electric motors used for pumping.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	1
41	.....electric motors 1950..	.....	.....	.....	.....	.....	.....	1
42	.....electric motors 1940..	.....	.....	.....	(*)	(*)	(*)	.....
43	Other motors and engines used for pumping.....enterprises reporting 1950..	.....	.....	.....	.....	.....	.....	1
44	.....other motors and engines 1950..	.....	.....	.....	.....	.....	.....	1
45	.....other motors and engines 1940..	.....	.....	.....	(*)	(*)	(*)	1
Season of irrigation, 1949:								
46	Water delivered only before July 1.....enterprises reporting..	1	.....	1	.....	1	.....	18
47	.....acres irrigated..	20	.....	20	.....	20	.....	1,398
48	Water delivered before and after July 1.....enterprises reporting..	93	43	50	29	22	26	140
49	.....acres irrigated..	20,228	9,356	10,872	5,107	5,765	8,973	26,949
50	Water delivered only after July 1.....enterprises reporting..	5	1	4	4	.....	.....	2
51	.....acres irrigated..	307	80	227	227	.....	.....	486
Capital investment:								
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	602,510	94,406	508,104	(*)	(*)	(*)	163,882
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53	Enterprises reporting.....enterprises 1950..	69	31	38	22	17	14	85
54	.....dollars 1950..	75,204	59,126	16,078	8,517	7,561	31,040	117,050
55	Area irrigated direct.....acres 1949..	14,521	6,449	8,072	3,879	4,193	7,177	16,463
56	Total capital investment Jan. 1, 1950.....dollars 1950..	677,714	153,532	524,182	(*)	(*)	(*)	280,932
Indebtedness:³								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....
58	.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....
59	.....dollars 1940..	453,000	.....	453,000	(*)	(*)	(*)	60,000
60	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	833
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
61	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....
62	.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....
63	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....

*Not available.

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

²Less than 0.5.

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	North Pacific Coast: Columbia above Snake River (I-C)					
		Total	Clark Fork			Flathead River	
			Total	Clark Fork direct below Missoula	Clark Fork direct above Missoula	Total	Flathead River direct below Polson
ALL ENTERPRISES							
Cost of water to farms, 1949: ¹							
Total cost of water to farms:							
Enterprises reporting.....enterprises..	5,305	1,600	1,540	176	379	340	136
Cost.....dollars..	2,514,679	567,577	561,382	40,990	78,589	284,009	231,566
Area irrigated direct.....acres..	1,874,901	368,570	364,066	17,815	87,410	107,813	90,898
Cost per acre irrigated direct.....dollars..	1.34	1.54	1.54	2.30	0.90	2.63	2.55
Total cost per irrigated acre.....dollars..	1.39	1.62	1.62	2.44	0.93	2.71	2.64
Total cost per acre-foot of water ².....dollars..	0.42	0.46	0.46	0.58	0.19	1.81	1.76
Enterprises by cost per acre:							
less than \$1.00.....enterprises reporting..	3,735	1,171	1,118	112	297	204	101
acres irrigated.....	1,039,806	184,646	182,277	8,393	64,548	12,955	9,325
\$1.00-\$1.99.....enterprises reporting..	474	122	119	12	37	14	6
acres irrigated.....	303,749	43,808	43,634	1,627	9,954	485	373
\$2.00-\$4.99.....enterprises reporting..	585	128	126	23	24	38	12
acres irrigated.....	470,103	131,771	129,851	6,833	10,167	91,320	80,368
\$5.00-\$9.99.....enterprises reporting..	298	83	82	17	14	32	12
acres irrigated.....	51,771	4,633	4,608	858	924	2,132	676
\$10.00 and over.....enterprises reporting..	213	96	95	12	7	52	5
acres irrigated.....	9,472	3,712	3,696	104	1,817	921	156
Cost of water for primary irrigation:							
Enterprises reporting.....enterprises..	5,146	1,523	1,464	175	375	315	113
Cost.....dollars..	2,450,143	542,796	538,176	38,141	76,423	275,417	222,999
Area supplied primary irrigation.....acres..	1,808,576	351,042	347,165	16,796	84,647	104,701	87,862
Cost per acre supplied.....dollars..	1.35	1.55	1.55	2.27	0.90	2.63	2.54
Cost of water for supplemental irrigation:							
Enterprises reporting.....enterprises..	405	202	198	12	14	44	37
Cost.....dollars..	64,536	24,781	23,206	2,849	2,166	8,592	8,567
Area supplied supplemental irrigation.....acres..	66,325	17,528	16,901	1,019	2,763	3,112	3,036
Cost per acre supplied.....dollars..	0.97	1.41	1.37	2.80	0.78	2.76	2.82
Cost to farms for purposes other than operation and maintenance: ⁴							
Enterprises reporting.....enterprises..	126	30	28	3	5	5	.....
Cost.....dollars..	541,568	65,578	64,499	5,161	23,296	4,499	.....
Area irrigated direct.....acres..	432,547	47,234	45,314	2,804	11,005	1,481	.....
Cost per acre irrigated.....dollars..	1.25	1.39	1.42	1.84	2.12	3.04	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴							
Enterprises reporting.....enterprises..	49	11	11	3	.....	1	.....
Amount.....dollars..	106,880	8,786	8,786	479	.....	2,263	.....
Area irrigated direct.....acres..	341,683	26,242	26,242	2,444	.....	1,000	.....
SINGLE-FARM ENTERPRISES, 1950							
Single-farm enterprises.....enterprises..	4,159	1,229	1,179	159	321	287	105
Area irrigated.....acres..	725,543	132,402	130,565	8,833	58,733	10,846	6,489
Complete-system enterprises ⁵.....enterprises..	3,566	1,067	1,018	141	271	261	94
Area irrigated.....acres..	614,801	108,049	106,212	6,849	46,303	9,246	5,368
Other farms irrigated:							
Enterprises reporting.....number..	87	26	25	2	6	9	6
Number of other farms.....farms..	123	43	42	4	9	9	8
Area irrigated in other farms.....acres..	6,484	1,079	1,071	25	381	144	123
Enterprises by origin of water supply: ⁵							
No water from other enterprises.....enterprises reporting..	3,608	1,081	1,031	142	273	264	94
acres irrigated.....	614,801	108,049	106,212	6,849	46,303	9,246	5,368
Part of water from other enterprises.....enterprises reporting..	247	82	82	7	32	8	2
acres irrigated.....	74,650	19,671	19,671	1,084	10,322	1,039	734
All of water from other enterprises.....enterprises reporting..	304	66	66	10	16	15	9
acres irrigated.....	36,092	4,682	4,682	900	2,108	561	387
Enterprises by primary and supplemental irrigation:							
All primary.....enterprises reporting..	3,983	1,148	1,099	156	318	257	80
acres irrigated.....	708,527	129,038	127,201	8,788	58,723	9,190	4,846
Part primary, part supplemental.....enterprises reporting..	21	9	9	1	.....	2	2
Primary irrigation.....acres irrigated.....	1,392	512	512	30	.....	42	42
Supplemental irrigation.....acres irrigated.....	1,194	184	184	10	.....	48	48
All supplemental.....enterprises reporting..	113	58	58	1	1	25	23
acres irrigated.....	14,430	2,668	2,668	5	10	1,566	1,553
Enterprises by number of acres irrigated: ⁵							
None.....enterprises reporting..	42	14	13	1	2	3	.....
1-9 acres.....enterprises reporting..	409	230	217	34	29	101	15
10-29 acres.....enterprises reporting..	701	237	217	39	39	75	29
30-59 acres.....enterprises reporting..	754	219	214	35	53	43	22
60-99 acres.....enterprises reporting..	639	181	174	23	46	43	25
100-199 acres.....enterprises reporting..	745	177	174	17	62	15	9
200-499 acres.....enterprises reporting..	569	124	123	10	66	5	4
500-999 acres.....enterprises reporting..	183	30	30	.....	13	2	1
1,000 acres or more.....enterprises reporting..	117	17	17	.....	11	.....	.....

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)	Missouri River below Three Forks excluding Yellowstone River (VI-C)—Continued							
	Musselshell River			Judith Basin	Marias River			
	Total	Musselshell River direct	Box Elder and Flat-willow Creeks		Total	Marias River direct	Teton River	
		(7a)	(7b)	(8)	(9a)	(9b)		
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	273	200	74	60	119	61	59
2	Cost.....dollars..	66,686	55,187	11,499	5,825	143,492	101,441	42,051
3	Area irrigated direct.....acres..	62,873	48,742	14,131	9,248	94,897	63,594	31,303
4	Cost per acre irrigated direct.....dollars..	1.06	1.13	0.81	0.63	1.51	1.60	1.34
5	Total cost per irrigated acre.....dollars..	1.08	1.14	0.86	0.64	1.53	1.62	1.35
6	Total cost per acre-foot of water ².....dollars..	0.47	0.44	0.57	0.34	0.96	1.25	0.54
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	159	111	49	54	84	42	42
8	acres irrigated..	42,108	31,584	10,524	7,572	25,022	6,465	18,557
9	\$1.00-\$1.99.....enterprises reporting..	32	22	10	2	10	5	6
10	acres irrigated..	10,727	8,864	1,863	478	23,836	22,126	1,710
11	\$2.00-\$4.99.....enterprises reporting..	47	37	10	8	19	9	10
12	acres irrigated..	7,683	6,185	1,498	1,076	45,879	34,863	11,016
13	\$5.00-\$9.99.....enterprises reporting..	20	16	4	3	4	3	1
14	acres irrigated..	1,490	1,324	166	116	155	135	20
15	\$10.00 and over.....enterprises reporting..	15	14	1	1	2	2	2
16	acres irrigated..	865	785	80	6	5	5	5
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	271	199	73	67	116	58	59
18	Cost.....dollars..	66,248	54,909	11,339	5,825	142,346	100,391	41,955
19	Area supplied primary irrigation.....acres..	61,953	48,562	13,391	9,078	94,007	62,748	31,259
20	Cost per acre supplied.....dollars..	1.07	1.13	0.85	0.64	1.51	1.60	1.34
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	2	1	1	2	5	4	1
22	Cost.....dollars..	438	278	160	0	1,146	1,050	96
23	Area supplied supplemental irrigation.....acres..	920	180	740	170	890	846	44
24	Cost per acre supplied.....dollars..	0.48	1.54	0.22	0.00	1.29	1.24	2.18
Cost to farms for purposes other than operation and maintenance:⁴								
25	Enterprises reporting.....enterprises..	8	6	2	2	2	2	2
26	Cost.....dollars..	11,806	9,078	2,728	2,592	17,524	17,524	17,524
27	Area irrigated direct.....acres..	10,106	8,063	2,043	1,085	9,639	9,639	9,639
28	Cost per acre irrigated.....dollars..	1.17	1.13	1.34	2.39	1.82	1.82	1.82
Arrearage in payments by farms, Jan. 1, 1950:⁴								
29	Enterprises reporting.....enterprises..	1	1	.....	.....	2	2	.....
30	Amount.....dollars..	20	20	.....	.....	26,626	26,626	.....
31	Area irrigated direct.....acres..	926	926	.....	.....	52,321	52,321	.....
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	238	176	62	54	112	59	53
33	Area irrigated.....acres..	42,162	33,870	8,292	4,896	20,599	7,228	13,371
34	Complete-system enterprises ⁵.....enterprises..	222	164	58	53	101	50	51
35	Area irrigated.....acres..	37,889	30,454	7,435	4,856	18,917	6,246	12,671
Other farms irrigated:								
36	Enterprises reporting.....number..	2	1	1	.....	4	1	3
37	Number of other farms.....farms..	2	1	1	.....	5	1	4
38	Area irrigated in other farms.....acres..	220	20	200	.....	496	150	346
Enterprises by origin of water supply:⁵								
39	No water from other enterprises.....enterprises reporting..	222	164	58	53	105	54	51
40	acres irrigated..	37,889	30,454	7,435	4,856	18,917	6,246	12,671
41	Part of water from other enterprises.....enterprises reporting..	12	8	4	.....	2	2	.....
42	acres irrigated..	3,100	2,243	857	.....	597	597	.....
43	All of water from other enterprises.....enterprises reporting..	4	4	.....	1	5	3	2
44	acres irrigated..	1,173	1,173	.....	40	1,085	385	700
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	237	175	62	53	106	53	53
46	acres irrigated..	41,982	33,690	8,292	4,836	20,484	7,113	13,371
47	Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
48	Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
49	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
50	All supplemental.....enterprises reporting..	1	1	.....	.....	.....	.....	.....
51	acres irrigated..	180	180	.....	60	115	115	.....
Enterprises by number of acres irrigated:⁵								
52	None.....enterprises reporting..	.....	.....	.....	.....	4	4	.....
53	1-9 acres.....enterprises reporting..	17	13	5	6	5	5	.....
54	10-29 acres.....enterprises reporting..	38	29	8	10	11	4	7
55	30-59 acres.....enterprises reporting..	50	37	13	16	18	10	8
56	60-99 acres.....enterprises reporting..	45	31	14	5	13	8	5
57	100-199 acres.....enterprises reporting..	26	18	8	10	18	12	6
58	200-499 acres.....enterprises reporting..	40	31	9	6	34	16	18
59	500-999 acres.....enterprises reporting..	14	9	5	1	7	.....	7
60	1,000 acres or more.....enterprises reporting..	8	8	.....	.....	2	.....	2

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

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

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

Missouri River below Three Forks excluding Yellowstone River (VI-C)—Con.		Yellowstone River excluding Big Horn River (VI-F)											
Sun River	Smith River	Total	Yellowstone River direct					Powder River	Tongue River	Clarks Fork			
			Total	Below Miles City	Miles City to Billings	Billings to Livingston	Above Livingston			Total	Clarks Fork direct	Red Lodge Creek	
(10)	(11)			(1a)	(1b)	(1c)	(1d)			(4a)	(4b)		
81	83	1,196	569	36	171	222	141	48	74	221	79	143	1
134,943	1,615	873,238	709,383	258,589	305,721	127,907	17,166	3,820	20,649	78,145	59,394	18,751	2
109,835	24,374	434,445	270,520	66,908	86,026	92,134	25,452	7,031	12,725	84,257	48,760	35,497	3
1.23	0.07	2.01	2.62	3.86	3.55	1.39	0.67	0.54	1.62	0.93	1.22	0.53	4
1.27	0.07	2.06	2.67	3.87	3.57	1.42	0.74	0.54	1.62	0.95	1.25	0.54	5
0.64	(3)	0.61	0.83	1.68	1.08	0.42	0.09	(3)	0.90	0.26	0.30	0.19	6
48	82	743	310	15	34	148	113	40	39	147	30	117	7
25,336	23,884	182,659	68,963	7,128	3,056	40,636	18,143	5,777	7,945	53,641	24,576	29,065	8
8	.....	157	70	3	17	34	16	3	8	42	23	20	9
74,303	.....	79,542	46,660	320	6,962	33,603	5,775	635	1,660	24,187	18,238	5,949	10
15	1	178	116	12	69	25	11	4	10	21	17	4	11
9,315	450	150,679	137,738	53,422	69,430	13,382	1,504	613	1,863	5,707	5,414	293	12
6	.....	81	49	5	33	10	1	.....	10	9	7	2	13
747	.....	18,154	14,882	5,978	4,539	4,335	30	.....	1,053	698	508	190	14
4	.....	37	24	1	18	.....	.....	.....	7	2	2	.....	15
134	.....	3,411	2,277	60	2,039	178	.....	6	204	24	24	.....	16
81	83	1,159	546	35	170	214	128	48	74	218	76	143	17
129,523	1,615	863,859	705,521	258,589	304,606	125,962	16,364	3,820	20,649	76,062	57,879	18,183	18
106,065	24,334	423,505	265,737	66,866	85,626	90,141	23,104	7,031	12,725	82,538	47,632	34,906	19
1.22	0.07	2.04	2.65	3.87	3.56	1.40	0.71	0.54	1.62	0.92	1.22	0.52	20
2	.....	104	43	1	4	21	18	.....	.....	14	10	4	21
5,420	.....	9,379	3,862	0	1,115	1,945	802	.....	.....	2,083	1,515	568	22
3,770	.....	10,940	4,783	42	400	1,993	2,348	.....	.....	1,719	1,128	591	23
1.44	.....	0.86	0.81	0.00	2.79	0.98	0.34	.....	.....	1.21	1.34	0.96	24
3	1	51	35	3	10	17	6	.....	.....	2	2	.....	25
59,336	785	222,813	213,788	103,418	76,441	24,796	9,133	.....	.....	4,500	4,500	.....	26
77,061	450	156,723	150,765	39,799	62,628	42,756	5,582	.....	.....	2,481	2,481	.....	27
0.77	1.74	1.42	1.42	2.60	1.22	0.58	1.64	.....	.....	1.81	1.81	.....	28
1	.....	15	12	3	7	3	.....	.....	.....	2	1	.....	29
13,238	.....	9,908	9,308	2,180	6,680	448	.....	.....	352	238	130	108	30
68,967	.....	86,067	77,467	42,146	32,412	2,909	.....	.....	4,000	4,230	2,769	1,451	31
67	82	909	469	28	154	164	123	52	71	137	39	98	32
24,691	23,884	103,121	53,299	2,954	13,295	20,277	16,773	7,031	8,550	14,716	4,859	9,857	33
60	77	739	358	23	95	146	94	48	71	112	20	92	34
22,228	22,216	84,652	42,873	2,730	9,451	18,024	12,668	7,031	8,550	10,624	1,772	8,852	35
4	.....	26	12	.....	7	3	2	1	1	9	3	6	36
4	.....	33	17	.....	11	4	2	1	1	10	3	7	37
93	.....	2,546	1,478	.....	776	436	266	50	47	729	131	598	38
60	77	750	362	23	95	149	95	52	71	113	21	92	39
22,228	22,216	84,652	42,873	2,730	9,451	18,024	12,668	7,031	8,550	10,624	1,772	8,852	40
1	1	35	18	1	5	5	7	.....	.....	5	2	3	41
20	100	4,635	2,384	57	367	922	1,038	.....	.....	529	136	393	42
6	4	124	89	4	54	10	21	.....	.....	19	16	3	43
2,443	1,568	13,834	8,042	167	3,477	1,331	3,067	.....	.....	3,563	2,951	612	44
67	82	861	444	27	153	154	110	48	71	132	34	98	45
24,691	23,884	98,521	50,834	2,912	13,241	19,749	14,932	7,031	8,550	14,296	4,439	9,857	46
.....	.....	5	2	.....	1	.....	1	.....	.....	1	1	.....	47
.....	.....	219	56	.....	6	.....	50	.....	.....	50	50	.....	48
.....	.....	296	173	.....	48	.....	125	.....	.....	80	80	.....	49
.....	.....	32	19	.....	1	.....	11	.....	.....	3	3	.....	50
.....	.....	4,085	2,236	42	.....	528	1,666	.....	.....	290	290	.....	51
.....	.....	11	4	.....	3	.....	1	.....	.....	1	1	.....	52
1	3	48	27	2	9	11	5	4	.....	6	1	.....	53
12	6	141	73	6	29	26	10	3	12	25	7	18	54
13	10	188	102	6	44	38	14	9	14	30	7	23	55
12	11	168	89	4	30	32	23	12	11	24	6	18	56
12	13	222	107	3	29	29	46	9	15	36	11	25	57
14	25	100	55	4	11	18	22	11	11	9	4	5	58
1	8	29	10	1	1	6	2	3	3	6	2	4	59
2	6	2	2	.....	1	.....	1	.....	.....	.....	.....	.....	60

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Yellowstone River excluding Big Horn River (VI-F)—Continued							
	Stillwater River					Boulder River	Shields River	
	Total	Stillwater River direct	Fishtail Creek direct					
			Total	Fishtail Creek direct	East Rosebud Creek	(6)	(7)	
	(5a)	(5b)	(5c)	(6)	(7)			
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	101	46	55	33	23	29	159
2	Cost.....dollars..	23,671	15,792	7,879	3,710	4,169	12,825	24,745
3	Area irrigated direct.....acres..	20,707	9,588	11,119	5,334	5,785	10,372	28,833
4	Cost per acre irrigated direct.....dollars..	1.14	1.65	0.71	0.70	0.72	1.24	0.86
5	Total cost per irrigated acre.....dollars..	1.20	1.70	0.75	0.74	0.76	1.41	0.93
6	Total cost per acre-foot of water ².....dollars..	0.34	0.26	0.34	0.30	0.38	0.18	0.15
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	80	39	41	24	18	22	109
8	.....acres irrigated..	16,173	7,720	8,453	3,826	4,627	8,268	21,892
9	\$1.00-\$1.99.....enterprises reporting..	10	1	9	5	4	2	22
10	.....acres irrigated..	2,156	113	2,043	1,210	833	905	3,339
11	\$2.00-\$4.99.....enterprises reporting..	7	3	4	4	.....	3	18
12	.....acres irrigated..	1,291	993	298	298	.....	844	2,623
13	\$5.00-\$9.99.....enterprises reporting..	3	2	1	.....	1	1	9
14	.....acres irrigated..	692	367	325	.....	325	5	824
15	\$10.00 and over.....enterprises reporting..	1	1	.....	.....	.....	1	1
16	.....acres irrigated..	395	395	.....	.....	.....	350	155
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	98	46	52	32	21	26	154
18	Cost.....dollars..	23,045	15,519	7,526	3,474	4,052	12,352	22,410
19	Area supplied primary irrigation.....acres..	19,780	9,297	10,483	5,000	5,483	9,086	25,608
20	Cost per acre supplied.....dollars..	1.17	1.67	0.72	0.69	0.74	1.36	0.84
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	18	7	11	8	3	9	20
22	Cost.....dollars..	626	273	353	236	117	473	2,335
23	Area supplied supplemental irrigation.....acres..	927	291	636	334	302	1,286	2,225
24	Cost per acre supplied.....dollars..	0.68	0.94	0.56	0.71	0.39	0.37	1.05
Cost to farms for purposes other than operation and maintenance: ⁴								
25	Enterprises reporting.....enterprises..	6	.....	6	2	4	.....	6
26	Cost.....dollars..	2,590	.....	2,590	450	2,140	.....	1,935
27	Area irrigated direct.....acres..	2,022	.....	2,022	984	1,038	.....	1,455
28	Cost per acre irrigated.....dollars..	1.28	.....	1.28	0.46	2.06	.....	1.33
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29	Enterprises reporting.....enterprises..	1	.....	1	1	.....	.....	.....
30	Amount.....dollars..	10	.....	10	10	.....	.....	.....
31	Area irrigated direct.....acres..	370	.....	370	370	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	50	24	26	18	8	11	119
33	Area irrigated.....acres..	3,649	1,786	1,863	1,238	625	995	14,881
34	Complete-system enterprises ⁵.....enterprises..	50	24	26	18	8	9	91
35	Area irrigated.....acres..	3,649	1,786	1,863	1,238	625	935	10,990
Other farms irrigated:								
36	Enterprises reporting.....number..	1	1	.....	.....	.....	.....	2
37	Number of other farms.....farms..	1	1	.....	.....	.....	.....	3
38	Area irrigated in other farms.....acres..	90	90	.....	.....	.....	.....	152
Enterprises by origin of water supply: ⁵								
39	No water from other enterprises.....enterprises reporting..	50	24	26	18	8	10	92
40	.....acres irrigated..	3,649	1,786	1,863	1,238	625	935	10,990
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..	48	24	24	17	7	7	111
46	.....acres irrigated..	3,454	1,786	1,668	1,198	470	395	13,961
47	Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
48	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
49	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
50	All supplemental.....enterprises reporting..	2	.....	2	1	1	3	43
51	.....acres irrigated..	195	.....	195	40	155	600	764
Enterprises by number of acres irrigated: ⁵								
52	None.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	2	1	1	1	.....	1	1
54	10-29 acres.....enterprises reporting..	10	7	3	1	.....	1	6
55	30-59 acres.....enterprises reporting..	11	3	8	7	2	3	15
56	60-99 acres.....enterprises reporting..	11	3	8	6	2	2	20
57	100-199 acres.....enterprises reporting..	14	9	5	2	3	2	19
58	200-499 acres.....enterprises reporting..	2	1	1	1	.....	1	40
59	500-999 acres.....enterprises reporting..	.....	.....	.....	.....	.....	.....	12
60	1,000 acres or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....	6

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

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

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

⁴Not reported by single-farm enterprises.

⁵For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State ¹	North Pacific Coast: Columbia River above Snake River (I-C)						
		Total ¹	Clark Fork				Flathead River	
			Total ¹	Clark Fork direct below Missoula (8a)	Clark Fork direct above Missoula (8b)	Total ¹	Flathead River direct below Polson (8c)	Upper Flathead River direct above Polson (8d)
MULTIPLE-FARM ENTERPRISES, 1950								
1 Multiple-farm enterprises, total number ².....enterprises..	1,234	397	386	19	64	56	31	25
2 Area irrigated direct ².....acres..	1,149,358	236,168	233,501	8,982	28,677	96,967	84,409	2,503
3 Multiple-purpose enterprises ³.....enterprises..	8	4	3	.....	.....	1	1	1
4 Area irrigated direct.....acres..	96,344	89,694	89,681	.....	.....	89,499	79,499	.....
5 Complete-system enterprises ².....enterprises..	931	340	329	16	36	54	30	24
6 Area irrigated direct.....acres..	846,654	211,971	209,304	6,847	14,924	96,334	84,037	2,242
Enterprises by origin of water supply: ²								
7 No water from other enterprises.....enterprises reporting..	1,092	378	367	18	57	55	31	24
8 .....acres irrigated..	1,007,621	228,961	226,294	8,932	25,162	96,706	84,409	2,242
9 Part of water from other enterprises.....enterprises reporting..	80	11	11	1	.....	.....	.....	1
10 .....acres irrigated..	76,328	3,631	3,631	50	.....	261	.....	261
11 All water from other enterprises.....enterprises reporting..	62	8	8	.....	7	.....	.....	.....
12 .....acres irrigated..	65,409	3,576	3,576	.....	3,515	.....	.....	.....
Enterprises by delivery of irrigation water: ²								
13 No water delivered.....enterprises reporting..	4	1	1	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	955	333	322	14	32	54	29	24
15 .....acres irrigated..	537,709	82,695	80,028	4,527	12,976	7,096	4,538	2,503
16 Water delivered to farms and to other enterprises.....enterprises reporting..	233	52	52	4	28	2	2	1
17 .....acres irrigated..	611,649	153,473	153,473	4,455	15,701	89,871	79,871	.....
18 Water delivered to other enterprises only.....enterprises reporting..	42	11	11	1	4	.....	.....	.....
Enterprises by primary and supplemental irrigation: ³								
19 All primary.....enterprises reporting..	917	250	243	8	47	39	19	19
20 .....acres irrigated..	790,742	114,002	113,422	3,589	19,249	16,733	4,740	1,938
21 Part primary, part supplemental.....enterprises reporting..	225	116	113	10	10	17	12	5
22 Primary irrigation.....acres irrigated..	307,915	107,490	106,030	4,389	6,675	78,736	78,234	502
23 Supplemental irrigation.....acres irrigated..	34,044	10,697	10,095	1,004	1,729	1,498	1,435	63
24 All supplemental.....enterprises reporting..	46	19	18	.....	3	.....	.....	.....
25 .....acres irrigated..	16,657	3,979	3,954	.....	1,024	.....	.....	.....
Enterprises by number of farms irrigated direct: ²								
26 None.....enterprises reporting..	46	12	12	1	4	.....	.....	.....
27 1-3.....enterprises reporting..	695	246	238	7	48	34	22	11
28 4-9.....enterprises reporting..	312	103	101	4	8	18	8	10
29 10-29.....enterprises reporting..	114	21	21	4	3	2	.....	2
30 30-99.....enterprises reporting..	50	11	10	2	1	1	.....	1
31 100-299.....enterprises reporting..	9	2	2	1	.....	.....	.....	.....
32 300-999.....enterprises reporting..	7	1	1	.....	.....	.....	.....	.....
33 1,000 or more.....enterprises reporting..	1	1	1	.....	.....	1	1	1
Enterprises by acres irrigated direct: ²								
34 None.....enterprises reporting..	46	12	12	1	4	.....	.....	.....
35 1-99 acres.....enterprises reporting..	241	123	116	9	11	31	11	19
36 100-999 acres.....enterprises reporting..	768	236	233	5	44	23	19	4
37 1,000-2,999 acres.....enterprises reporting..	117	20	19	3	4	1	.....	1
38 3,000-9,999 acres.....enterprises reporting..	46	3	3	1	1	.....	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	11	2	2	.....	.....	.....	.....	.....
40 30,000 or more.....enterprises reporting..	5	1	1	.....	.....	1	1	1
Quantities of water reported, 1949: ³								
41 Total obtained from all sources.....enterprises reporting..	998	299	294	13	53	20	6	15
42 .....percent of all enterprises reporting..	19	18	19	7	14	6	4	9
43 Surface sources.....acres-foot..	5,650,173	1,089,759	1,079,334	53,796	195,342	232,163	226,775	229,173
44 .....enterprises reporting..	938	292	287	13	46	20	6	15
45 Pumped wells.....acres-foot..	5,184,577	1,063,148	1,052,723	53,796	176,044	232,078	226,775	229,088
46 .....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	.....
47 Other enterprises.....acres-foot..	1,575	.....	.....	.....	.....	.....	.....	.....
48 .....enterprises reporting..	128	16	16	.....	7	1	.....	1
49 Conveyance loss ⁴.....acres-foot..	464,021	26,611	26,611	.....	19,298	85	.....	85
50 .....enterprises reporting..	954	278	275	13	52	18	6	13
51 Delivered: ⁴.....acres-foot..	1,365,610	258,996	255,761	13,500	36,386	92,045	89,700	91,643
52 Direct to farms.....enterprises reporting..	965	289	284	12	50	.....	6	15
53 .....acres-foot..	3,543,947	748,981	741,791	34,498	120,428	140,118	137,075	137,530
54 To other enterprises.....enterprises reporting..	196	42	42	4	22	.....	.....	.....
55 .....acres-foot..	627,795	69,567	69,567	5,798	38,528	.....	.....	.....
56 For use other than irrigation.....enterprises reporting..	27	2	2	.....	.....	.....	.....	.....
57 .....acres-foot..	112,821	12,215	12,215	.....	.....	.....	.....	.....
Delivered direct to farms for primary irrigation: ³								
58 Enterprises reporting.....enterprises..	927	274	270	12	47	19	6	13
59 Quantity delivered.....acres-foot..	3,222,986	692,245	687,035	31,976	111,547	138,800	121,022	2,985
60 Area supplied primary irrigation.....acres..	1,036,244	208,181	206,645	7,742	23,609	91,701	79,506	2,195
61 Quantity supplied per acre.....acres-foot..	3.1	3.3	3.3	4.1	4.7	1.5	1.5	1.4
Delivered direct to farms for supplemental irrigation: ³								
62 Enterprises reporting.....enterprises..	203	97	95	5	11	5	2	3
63 Quantity delivered.....acres-foot..	178,534	56,238	54,258	2,028	8,878	1,317	1,260	57
64 Area supplied supplemental irrigation.....acres..	43,185	12,624	12,029	924	2,490	1,088	1,030	58
65 Quantity supplied per acre.....acres-foot..	4.1	4.5	4.5	2.2	3.6	1.2	1.2	1.0
66 Total quantity per irrigated acre ⁵.....acres-foot..	3.3	3.5	3.5	4.2	4.8	1.5	1.5	1.4
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³								
67 Cost for primary irrigation.....dollars..	1,929,164	415,532	411,857	23,851	16,991	256,827	218,901	9,106
68 Average cost per acre-foot.....dollars..	0.60	0.60	0.60	0.75	0.15	1.85	1.81	3.05
69 Cost for supplemental irrigation.....dollars..	41,939	16,162	14,587	2,750	2,028	2,279	2,279	0
70 Average cost per acre-foot.....dollars..	0.23	0.29	0.27	1.36	0.23	1.73	1.81	0.00
Measurement of water to farms, 1949: ³								
71 No water measured.....enterprises reporting..	838	292	284	13	29	47	26	20
72 .....acres irrigated..	511,292	78,334	75,842	3,894	11,104	6,169	3,718	2,396
73 Part of water measured.....enterprises reporting..	114	33	33	1	14	2	1	1
74 .....acres irrigated..	191,543	18,506	18,506	2,500	9,845	748	691	57
75 All water measured.....enterprises reporting..	192	42	42	5	14	4	3	2
76 .....acres irrigated..	409,259	131,368	131,368	2,588	4,949	89,826	79,791	35

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]

North Pacific Coast: Columbia above Snake River (I-C)-Continued			Missouri River below Three Forks excluding Yellowstone River (VI-C)								
Clark Fork-Continued			Mississippi River, total	Missouri River direct					Milk River		
Bitterroot River	Blackfoot River	Kootenai River		Total ¹	Total	Below Fort Peck Dam	Fort Peck to Holter Dam	Holter Dam to Three Forks	Total ¹	Milk River direct below Lohman	Milk River direct above Lohman
(8f)	(8g)	(9)			(1a)	(1b)	(1c)		(6a)	(6b)	
233	14	11	837	172	69	4	7	58	22	18	4
91,241	7,634	2,667	913,190	324,622	48,031	12,028	2,489	33,514	91,636	89,521	2,115
2		1	4	1				1	1		2
182		13	6,650	6,050				6,050	6,050		3
211	12	11	591	116	56	4	3	49	8	6	4
85,591	5,608	2,667	634,683	200,205	34,901	12,028	971	21,902	6,252	4,455	1,797
223	14	11	714	145	64	4	7	53	15	11	4
87,860	7,634	2,667	778,660	263,217	45,899	12,028	2,489	31,382	49,736	47,621	2,115
9			69	19	5			5	2	2	7
3,320			72,697	30,347	2,132			2,132	19,772	19,772	9
1			54	8				5	5	5	10
61			61,833	31,058				5	5	5	11
1			3	1				1	1	1	12
210	12	11	622	122	55	3	3	49	11	9	13
49,821	5,608	2,667	455,014	123,851	33,936	10,720	971	22,245	27,151	25,354	1,797
16			181	42	14	1	4	9	8	8	2
41,420	2,026		458,176	200,771	14,095	1,308	1,518	11,269	64,486	64,167	318
6			31	7				1	1	1	16
139	10	7	667	145	61	4	7	50	16	13	3
69,165	4,686	580	676,740	205,239	36,250	10,228	2,489	23,533	76,502	74,387	2,115
72	4	3	109	15	6			6	4	4	19
13,511	2,719	1,460	200,425	111,065	9,334	1,724		7,610	14,658	14,658	21
5,635	229	602	23,347	6,430	1,674	76		1,598	476	476	22
15		1	27	4	2			2	2	2	23
2,930		25	12,678	1,888	773			773			24
7			34	8					2	1	25
136	13	8	449	99	49	2	6	41	7	5	26
70	1	2	209	34	11		1	10	4	4	27
12			93	16	6			6	3	2	28
6		1	39	10	2	1		1	3	2	29
1			7	2				1	5	5	30
1			6	3	1	1			1	1	31
											32
											33
7			34	8					2	1	34
65		7	118	27	13		2	11	3	3	35
150	11	3	532	103	47	2	5	40	6	4	36
8	3	1	97	12	5			5	2	1	37
1			43	16	3	1		2	7	7	38
2			9	2				1	1	1	39
			4	4	1	1		1	1	1	40
197	11	5	699	139	63	4	5	54	21	17	4
35	11	8	19	10	13	5	3	22	7	7	41
537,972	60,061	10,425	4,560,414	1,535,496	435,723	254,663	3,262	177,798	515,128	511,144	334,392
197	11	5	646	136	64	4	5	55	16	12	4
530,744	60,061	10,425	4,121,429	1,359,595	434,752	254,663	3,262	176,827	366,173	362,189	334,392
			2								45
			1,575								46
8			112	19	5			5	7	7	47
7,228			437,410	175,901	971			971	148,955	148,955	49
181	11	3	676	63	4	5		54	20	16	50
103,830	10,000	3,235	1,106,614	473,316	151,582	112,512	446	38,624	151,237	150,421	100,527
191	11	5	676	134	64	4	5	55	20	17	4
407,636	39,111	7,190	2,794,966	726,767	275,796	140,351	2,230	133,215	135,136	132,307	39,108
14	2		154	37	9	1	2	6	10	8	2
23,006	2,235		558,228	257,873	8,345	1,800	585	5,959	197,708	197,396	194,757
1	1		25	16				7	6	6	55
3,500	8,715		100,606	77,540					31,047	31,020	56
181	11	4	653	131	62	4	5	53	20	17	57
365,927	38,785	5,210	2,530,741	591,738	148,904	21,405	2,230	125,269	134,698	131,869	2,829
76,927	6,666	1,536	828,063	305,065	43,505	11,952	1,393	30,160	91,160	89,045	2,115
4.8	5.8	3.4	3.1	1.9	3.4	1.8	1.6	4.2	1.5	1.5	1.3
71	3	2	106	18	8			8	4	4	62
41,709	326	1,980	122,296	16,204	8,067	121		7,946	438	438	63
7,323	204	595	30,561	7,578	2,447	76		2,371	476	476	64
5.7	1.6	3.3	4.0	2.1	3.3	1.6		3.4	0.9	0.9	65
5.3	5.8	3.9	3.2	1.9	3.5	1.8	1.6	4.4	1.5	1.5	66
111,834	2,354	3,675	1,513,632	586,834	75,620	22,646	177	52,797	241,267	238,663	2,604
0.31	0.06	0.71	0.60	0.99	0.51	1.06	0.08	0.42	1.79	1.81	0.92
7,504	26	1,575	25,777	10,527	3,988	120		3,868	323	323	67
0.18	0.08	0.80	0.21	0.65	0.49	0.99		0.49	0.74	0.74	69
188	7	8	546	105	21	1	6	14	17	14	2
51,627	3,048	2,492	432,958	123,497	8,107	470	2,468	5,169	42,479	41,381	1,098
15	1		81	15	11	2		9	1	1	73
4,343	1,070		173,037	65,233	12,463	11,108		1,355	37,241	37,241	74
18	1		150	42	32			31	4	3	1
33,205	800		277,891	131,698	25,234		21	25,213	11,916	10,899	1,017

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)		Missouri River below Three Forks excluding Yellow River (VI-C)—Continued							
		Musselshell River			Judith River (8)	Marias River			Sun River (10)
		Total	Musselshell River direct (7a)	Box Elder and Flat-willow Creeks (7b)		Total	Marias River direct (9a)	Teton River (9b)	
MULTIPLE-FARM ENTERPRISES, 1950									
1	Multiple-farm enterprises, total number ².....enterprises..	37	24	14	14	15	8	8	14
2	Area irrigated direct.....acres..	20,711	14,872	5,839	4,352	74,298	56,366	17,932	85,144
3	Multiple-purpose enterprises ².....enterprises..								
4	Area irrigated direct.....acres..								
5	Complete-system enterprises ².....enterprises..	20	13	8	14	7	3		11
6	Area irrigated direct.....acres..	7,960	4,334	3,626	4,352	62,589	52,696	9,893	84,151
Enterprises by origin of water supply: ²									
7	No water from other enterprises.....enterprises reporting..	25	15	11	14	13	7	4	14
8	acres irrigated..	15,327	11,061	4,266	4,352	62,759	52,066	9,893	85,144
9	Part of water from other enterprises.....enterprises reporting..	10	8	2		1	50		
10	acres irrigated..	4,093	3,693	400		3,900	3,500	400	
11	All water from other enterprises.....enterprises reporting..	2	1			1			
12	acres irrigated..	1,291	118	1,173		7,639		7,639	
Enterprises by delivery of irrigation water: ²									
13	No water delivered.....enterprises reporting..								
14	Water delivered direct to farms only.....enterprises reporting..	26	19	9	13	7	3	5	10
15	acres irrigated..	10,134	6,978	3,156	3,936	33,510	22,196	11,314	15,184
16	Water delivered to farms and to other enterprises.....enterprises reporting..	9	6	3	1	5	4	1	4
17	acres irrigated..	10,577	7,894	2,683	416	40,788	34,170	6,618	69,960
18	Water delivered to other enterprises only.....enterprises reporting..	2		2		3	1	2	
Enterprises by primary and supplemental irrigation: ³									
19	All primary.....enterprises reporting..	34	24	11	13	8	4	5	12
20	acres irrigated..	19,971	14,872	5,099	4,182	37,923	21,991	15,932	29,961
21	Part primary, part supplemental.....enterprises reporting..				1	2	1	1	2
22	Primary irrigation.....acres irrigated..				60	35,600	33,644	1,956	51,413
23	Supplemental irrigation.....acres irrigated..				110	400	356	44	3,770
24	All supplemental.....enterprises reporting..	1		1		1	1		
25	acres irrigated..	740		740		375	375		
Enterprises by number of farms irrigated direct: ²									
26	None.....enterprises reporting..	2		2		3	1	2	
27	1-3.....enterprises reporting..	22	15	8	7	4	3	1	9
28	4-9.....enterprises reporting..	9	6	3	7	1		1	2
29	10-29.....enterprises reporting..	4	3	1		2	1	2	1
30	30-99.....enterprises reporting..					3	1	2	
31	100-299.....enterprises reporting..					1	1		1
32	300-999.....enterprises reporting..					1	1		1
33	1,000 or more.....enterprises reporting..								
Enterprises by acres irrigated direct: ²									
34	None.....enterprises reporting..	2		2		3	1	2	
35	1-99 acres.....enterprises reporting..	4	3	1	3	1	1		3
36	100-999 acres.....enterprises reporting..	28	19	10	10	3	2	1	8
37	1,000-2,999 acres.....enterprises reporting..	2	1	1	1	2		2	
38	3,000-9,999 acres.....enterprises reporting..	1	1			3	1	3	2
39	10,000-29,999 acres.....enterprises reporting..					1			
40	30,000 or more.....enterprises reporting..					2	2		1
Quantities of water reported, 1949:									
41	Total obtained from all sources.....enterprises reporting..	13	6	7	14	14	7	8	13
42	percent of all enterprises reporting..	5	3	9	21	11	10	13	16
43	acre-feet..	50,146	39,926	10,220	11,344	551,683	467,851	88,532	286,869
44	Surface sources.....enterprises reporting..	12	6	6	14	13	7	7	13
45	acre-feet..	45,171	38,481	6,690	11,344	532,683	466,351	69,532	286,869
46	Pumped wells.....enterprises reporting..								
47	acre-feet..								
48	Other enterprises.....enterprises reporting..	4	2	2		2	1	2	
49	acre-feet..	4,975	1,445	3,530		19,000	1,500	19,000	
50	Conveyance loss ⁴.....enterprises reporting..	10	5	5	14	13	7	7	13
51	acre-feet..	6,217	5,165	1,052	2,796	139,208	126,626	13,202	120,757
Delivered: ⁴									
52	Direct to farms.....enterprises reporting..	11	6	5	14	12	7	6	13
53	acre-feet..	26,193	22,775	3,418	8,387	153,745	109,665	48,080	162,789
54	To other enterprises.....enterprises reporting..	6	3	3	1	7	4	3	3
55	acre-feet..	17,316	11,986	5,330	80	222,627	195,657	26,970	323
56	For use other than irrigation.....enterprises reporting..	2		2		3	2	1	1
57	acre-feet..	420		420		81	36,103	35,903	200
Delivered direct to farms for primary irrigation: ³									
58	Enterprises reporting.....enterprises..	11	6	5	14	10	5	6	13
59	Quantity delivered.....acre-feet..	26,193	22,775	3,418	8,257	116,485	72,077	44,408	156,201
60	Area supplied primary irrigation.....acres..	11,227	8,893	2,334	4,242	73,523	55,635	17,888	80,958
61	Quantity supplied per acre.....acre-feet..	2.3	2.6	1.5	1.9	1.6	1.3	2.5	1.9
Delivered direct to farms for supplemental irrigation: ³									
62	Enterprises reporting.....enterprises..				1	3	2	1	2
63	Quantity delivered.....acre-feet..				130	981	909	72	6,588
64	Area supplied supplemental irrigation.....acres..				110	775	731	44	3,770
65	Quantity supplied per acre.....acre-feet..				1.2	1.3	1.2	1.6	1.7
66	Total quantity per irrigated acre ⁵.....acre-feet..	2.3	2.6	1.5	1.9	1.6	1.3	2.5	2.0
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³									
67	Cost for primary irrigation.....dollars..	13,337	8,969	4,368	3,283	133,919	96,890	37,029	118,433
68	Average cost per acre-foot.....dollars..	0.51	0.39	1.28	0.40	1.15	1.34	0.83	0.76
69	Cost for supplemental irrigation.....dollars..				0	796	700	96	5,420
70	Average cost per acre-foot.....dollars..				0.00	0.81	0.77	1.33	0.82
Measurement of water to farms, 1949: ³									
71	No water measured.....enterprises reporting..	32	21	12	12	11	6	6	10
72	acres irrigated..	14,234	8,795	5,439	3,520	47,359	38,045	9,314	7,348
73	Part of water measured.....enterprises reporting..	1	1			2	1	1	1
74	acres irrigated..	5,535	5,535			2,000		2,000	7,994
75	All water measured.....enterprises reporting..	2	2			2	1	1	2
76	acres irrigated..	542	542			24,939	18,321	6,618	69,067

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]

Yellowstone River excluding Big Horn River (VI-F)											
Total	Yellowstone River direct					Tongue River (3a)	Clarks Fork			Stillwater River	
	Total	Below Miles City (1a)	Miles City to Billings (1b)	Billings to Livingston (1c)	Above Livingston (1d)		Total	Clarks Fork direct (4a)	Ped Lodge Creek (4b)	Total	Stillwater River direct (5a)
308	110	8	17	64	23	5	86	41	46	51	22
333,324	217,221	63,954	72,731	71,857	8,679	4,175	69,541	43,901	25,640	17,058	7,802
1										1	
30										30	
217	74	7	14	46	9	3	50	28	22	50	22
250,717	167,090	63,550	58,833	39,020	5,687	4,175	45,950	33,145	12,805	16,963	7,802
257	99	7	16	56	22	5	47	26	21	50	22
293,703	206,778	63,550	71,831	63,163	8,234	4,175	42,458	32,124	10,334	16,963	7,802
36	1			1			35	12	24		
24,308	650			650			23,658	8,542	15,116		
15	10	1	1	7	1		4	3	1	1	
13,313	9,793	404	900	8,044	445		3,425	3,235	190	95	
2	1			1		1					
238	73	6	12	49	7	2	69	35	35	51	22
184,583	102,218	27,615	39,342	33,505	1,756	175	48,117	32,096	16,021	17,058	7,802
60	31	2	5	13	12	1	16	6			
146,741	115,003	36,339	33,389	38,352	6,923	4,000	21,424	11,805	9,619		
8	5			4	5	1	1		1		
231	82	8	14	47	13	3	75	35	41	35	15
287,641	197,357	63,954	68,516	57,977	6,910	4,175	54,739	33,370	21,369	13,709	6,618
62	18			13	4		10	6	4	15	7
37,124	17,490		3,863	12,415	1,212		13,453	9,773	3,680	2,617	893
6,025	1,935			1,221	407		1,349	758	591	637	291
5	4			1	2					1	
534	439		45	244	150					95	
10	6			2	4	2	1		1		
124	39		2	25	12	1	23	5	18	19	5
103	24	1	6	12	6	1	26	18	19	30	16
43	19	1	3	14	1		21	13	8	1	
22	16	3	4	9			5	5		1	
3	3	2		1							
3	3	1	2	1							
10	6			2	4	2	1		1		
48	19		2	14	3	1	5	1	4	9	3
186	50	1	5	30	15	1	57	25	33	40	17
44	17	2	3	12			21	13	8	2	
14	12	3	4	4	1	1	2	2			
5	5	1	3	2							
1	1	1									
237	82	8	17	40	19	4	84	41	44	35	7
19	14	22	10	18	13	5	38	51	31	35	15
1,859,146	1,384,306	341,903	555,457	497,452	90,674	37,699	321,977	215,398	109,429	48,708	27,359
222	72	7	16	33	18	4	80	38	43	34	7
1,781,448	1,327,941	340,103	552,124	457,126	79,768	37,699	300,825	201,435	101,530	48,527	27,359
49	11	1	1	8	1		37	15	23	1	
77,698	56,365	1,800	3,333	40,326	10,906		21,152	13,963	7,899	161	
232	81	8	17	39	19	4	81	40	42	35	7
455,535	386,365	125,578	168,816	108,310	18,874	2,319	40,589	28,979	12,036	7,571	4,019
231	78	8	17	40	15	3	63	41	43	35	7
1,257,289	897,799	196,525	367,725	344,291	51,258	17,025	249,292	181,022	70,694	41,070	23,310
52	26	2	5	8	12	1	16	6	10		
128,026	82,099	1,800	10,916	44,808	20,542	355	31,910	5,316	26,594		
5	2	1		1			2	1		1	
18,296	18,043	18,000		43		18,000	186	81	105	67	
228	76	8	16	39	14	3	83	41	43	34	7
1,014,479	648,156	145,495	239,589	213,405	49,667	7,312	242,767	174,071	68,696	40,261	23,258
304,273	208,152	63,954	72,379	64,721	7,098	4,175	67,511	43,143	24,368	11,749	3,584
3.3	3.1	2.3	3.3	3.3	7.0	1.8	3.6	4.0	2.8	3.4	6.5
41	13		3	8	3		9	6	3	10	1
17,627	5,353		836	2,926	1,591		3,685	3,017	668	809	52
3,898	1,308		352	751	205		1,184	758	426	456	25
4.5	4.1		2.4	3.9	7.8		3.1	4.0	1.6	1.8	3.5
3.4	3.2	2.3	3.3	3.4	7.8	1.8	3.7	4.1	2.8	3.5	6.6
724,469	634,233	254,598	259,198	109,810	10,627	2,360	63,978	48,792	15,186	9,707	3,070
0.71	0.98	1.75	1.08	0.51	0.21	0.32	0.26	0.26	0.22	0.24	0.13
4,992	1,519		634	755	130		1,328	887	441	300	7
0.28	0.28		0.76	0.26	0.08		0.36	0.29	0.66	0.37	0.13
205	69	2	15	48	5	4	58	22	37	43	19
157,203	96,693	10,807	55,631	29,642	615	4,035	29,585	15,725	13,860	15,228	7,132
35	18	2		12	4		2	2		1	
54,872	48,282	33,992		11,506	2,784	140	1,946	1,946		325	
48	20	4	2	9	6		20	14	6	1	
108,058	71,109	19,155	17,100	29,574	5,280		33,830	24,428	9,402	395	395

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)	Yellowstone River excluding Big Horn River (VI-F)—Continued				
	Stillwater River—Continued			Boulder River	Shields River
	Fishtail Creek direct				
	Total	Fishtail Creek direct (5b)	East Rosebud Creek (5c)	(6)	(7)
MULTIPLE-FARM ENTERPRISES, 1950					
Multiple-farm enterprises, total number ².....enterprises..	29	15	15	19	42
Area irrigated direct.....acres..	9,256	4,096	5,160	9,377	13,952
Multiple-purpose enterprises ².....enterprises..	1	1	1	1	1
Area irrigated direct.....acres..	30	30	30	30	30
Complete-system enterprises ².....enterprises..	28	15	14	18	27
Area irrigated direct.....acres..	9,161	4,096	5,065	9,012	7,527
Enterprises by origin of water supply: ²					
No water from other enterprises.....enterprises reporting..	28	15	14	19	42
acres irrigated.....	9,161	4,096	5,065	9,377	13,952
Part of water from other enterprises.....enterprises reporting..	1	1	1	1	1
acres irrigated.....	95	95	95	95	95
All water from other enterprises.....enterprises reporting..	1	1	1	1	1
acres irrigated.....	95	95	95	95	95
Enterprises by delivery of irrigation water: ²					
No water delivered.....enterprises reporting..	29	15	15	18	29
Water delivered direct to farms only.....enterprises reporting..	9,256	4,096	5,160	9,012	8,003
acres irrigated.....	1	1	1	1	1
Water delivered to farms and to other enterprises.....enterprises reporting..	1	1	1	365	5,949
acres irrigated.....	1	1	1	1	1
Water delivered to other enterprises only.....enterprises reporting..	1	1	1	1	1
Enterprises by primary and supplemental irrigation: ³					
All primary.....enterprises reporting..	20	8	13	13	28
acres irrigated.....	7,091	2,432	4,659	6,499	11,162
Part primary, part supplemental.....enterprises reporting..	8	7	1	6	13
Primary irrigation.....acres irrigated..	1,724	1,370	354	2,192	1,372
Supplemental irrigation.....acres irrigated..	346	294	52	686	1,416
All supplemental.....enterprises reporting..	1	1	1	1	1
acres irrigated.....	95	95	95	95	95
Enterprises by number of farms irrigated direct: ²					
None.....enterprises reporting..	14	7	7	8	34
1-3.....enterprises reporting..	14	8	7	8	5
4-9.....enterprises reporting..	1	1	1	3	2
10-29.....enterprises reporting..	1	1	1	1	1
30-99.....enterprises reporting..	1	1	1	1	1
100-299.....enterprises reporting..	1	1	1	1	1
300-999.....enterprises reporting..	1	1	1	1	1
1,000 or more.....enterprises reporting..	1	1	1	1	1
Enterprises by acres irrigated direct: ²					
None.....enterprises reporting..	6	5	1	2	12
1-99 acres.....enterprises reporting..	23	10	14	15	25
100-999 acres.....enterprises reporting..	1	1	1	1	4
1,000-2,999 acres.....enterprises reporting..	1	1	1	1	1
3,000-9,999 acres.....enterprises reporting..	1	1	1	1	1
10,000-29,999 acres.....enterprises reporting..	1	1	1	1	1
30,000 or more.....enterprises reporting..	1	1	1	1	1
Quantities of water reported, 1949:					
Total obtained from all sources ⁴.....enterprises reporting..	28	14	15	9	28
percent of all enterprises reporting..	51	42	65	30	17
Surface sources.....enterprises reporting..	21,349	11,695	12,694	59,695	79,330
acres-foot.....	27	14	14	9	28
Pumped wells.....enterprises reporting..	21,168	11,695	12,513	59,695	79,330
acres-foot.....	1	1	1	1	1
Other enterprises.....enterprises reporting..	181	14	15	7	28
acres-foot.....	28	14	15	7	28
Conveyance loss ⁴.....enterprises reporting..	3,522	2,385	1,897	13,325	15,735
Delivered: ⁴					
Direct to farms.....enterprises reporting..	28	14	15	9	28
acres-foot.....	17,760	9,310	10,730	46,370	49,933
To other enterprises.....enterprises reporting..	1	1	1	1	9
acres-foot.....	1	1	1	1	13,662
For use other than irrigation.....enterprises reporting..	67	67	67	67	67
acres-foot.....	1	1	1	1	1
Delivered direct to farms for primary irrigation: ³					
Enterprises reporting.....enterprises..	27	14	14	9	28
Quantity delivered.....acres-foot..	17,003	7,425	9,578	31,022	44,961
Area supplied primary irrigation.....acres..	8,165	3,152	5,013	4,809	7,877
Quantity supplied per acre.....acres-foot..	2.1	2.4	1.9	6.5	5.7
Delivered direct to farms for supplemental irrigation: ³					
Enterprises reporting.....enterprises..	9	7	2	2	7
Quantity delivered.....acres-foot..	757	530	227	2,808	4,972
Area supplied supplemental irrigation.....acres..	441	294	147	295	655
Quantity supplied per acre.....acres-foot..	1.7	1.8	1.5	9.5	7.6
Total quantity per irrigated acre ⁵.....acres-foot..	2.2	2.5	2.0	7.8	6.3
Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁴					
Cost for primary irrigation.....dollars..	6,637	2,702	3,935	7,503	6,688
Average cost per acre-foot.....dollars..	0.39	0.36	0.41	0.24	0.15
Cost for supplemental irrigation.....dollars..	293	226	67	247	1,598
Average cost per acre-foot.....dollars..	0.39	0.43	0.30	0.09	0.32
Measurement of water to farms, 1949: ²					
No water measured.....enterprises reporting..	24	12	13	16	19
acres irrigated.....	8,096	3,623	4,473	7,847	3,813
Part of water measured.....enterprises reporting..	1	1	1	1	13
acres irrigated.....	325	325	325	221	3,958
All water measured.....enterprises reporting..	1	1	1	1	7
acres irrigated.....	1	1	1	1	2,724

¹Data for less than 3 enterprises in Basins 1-C-8a, VI-C-6c, VI-C-11, VI-G-2, and VI-G-3, included only in totals.
²For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.
³For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.
⁴For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.
⁵Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

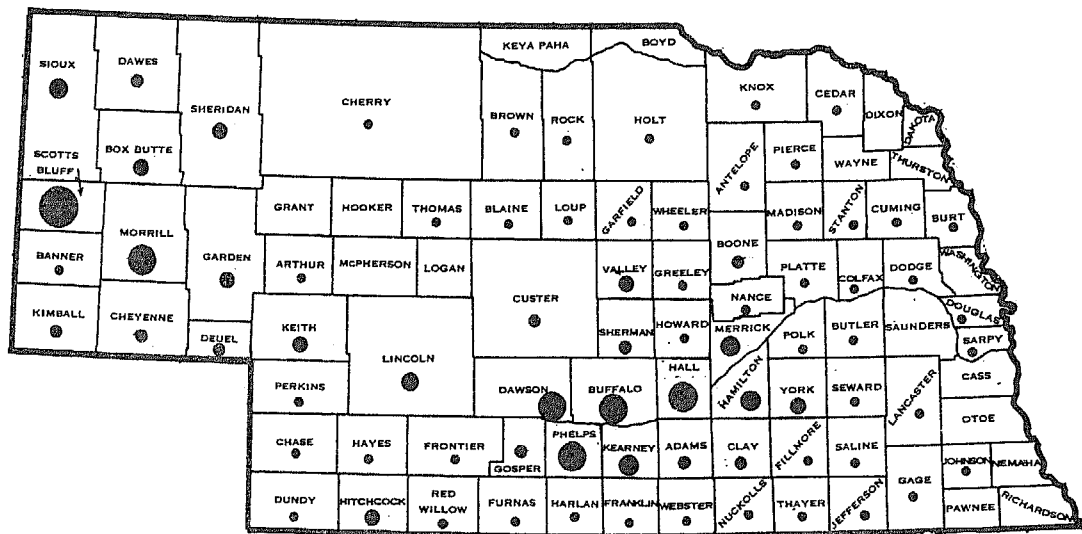
IRRIGATION OF AGRICULTURAL LANDS

NEBRASKA

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LEGEND

- LESS THAN 5,000 ACRES
- 5,000 - 9,999 ACRES
- 10,000 - 19,999 ACRES
- 20,000 - 49,999 ACRES
- 50,000 - 99,999 ACRES
- 100,000 - 199,999 ACRES

NEBRASKA: 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.....	107,183	47,466,828	9,680	876,259	887,239	5,583	56,463,881
1945.....	111,756	47,752,941	7,156	631,762	(*)	(*)	(*)
1940.....	121,062	47,343,981	6,913	3473,775	610,379	2,717	39,056,207
1935.....	133,616	46,615,762	5,140	345,417	(*)	(*)	(*)
1930.....	129,458	44,708,565	4,602	5404,481	532,617	721	21,386,319
1920.....	124,417	42,225,475	3,021	(**)	442,690	470	13,909,185
1910.....	129,678	38,622,021	1,852	(**)	255,950	474	7,798,310
1900.....	121,525	29,911,779	1,932	148,538	(*)	(*)	1,310,698
1890.....	113,608	21,593,444	214	11,744	(*)	(*)	47,798

*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 10,869 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..	5,583	2,717	721	470
Enterprises by type:				
Single-farm..... number..	5,515	2,620	655	(*)
Mutual:				
Unincorporated..... number..	11	15	20	(*)
Incorporated..... number..	15	24		(*)
Commercial..... number..	1	5	10	(*)
District..... number..	39	38	31	(*)
U. S. Bureau of Reclamation ¹ number..	2	4	1	(*)
U. S. Bureau of Indian Affairs..... number..				(*)
State..... number..		7	3	(*)
City..... number..				(*)
Other..... number..		4	1	(*)
Irrigated land, total ² acres..	887,239	610,379	532,617	442,690
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres..	405,631	141,965	57,472	68,140
Mutual:				
Unincorporated..... acres..	5,873	61,617	54,811	55,408
Incorporated..... acres..	43,289			
Commercial..... acres..	(4)	28,723	53,574	25,335
District..... acres..	445,138	291,368	219,590	206,206
U. S. Bureau of Reclamation ¹ acres..	513,231	257,401	147,026	87,558
U. S. Bureau of Indian Affairs..... acres..				
State..... acres..		762	134	
City..... acres..				
Other..... acres..		176	10	43
Acreage irrigated, by source of water: ^{3 6}				
Streams (and lakes)..... acres..	569,151	674,201	505,304	438,847
Springs..... acres..	1,040	2,230	314	2,050
Flowing wells..... acres..	4,534	361		
Pumped wells..... acres..	362,396	101,769	23,522	661
Sewage..... acres..	110	(7)		120
Other and not reported..... acres..	16,119	79,116	3,447	1,127
Irrigated land artificially drained..... acres..	106,585	47,538	122,101	10,793
Irrigated land in need of drainage..... acres..	32,284	10,305	51,505	26,606
Irrigation works:				
Diversion dams..... total number..	488	351	185	260
Reservoirs..... number..	114	164	40	59
Total capacity (reported)..... acre-feet..	133,934	2,306,159	199,185	197,890
Reservoir dams..... total number..	114	156	28	73
Canals and ditches..... total length, miles..	4,613	3,331	3,465	3,325
Pipe lines..... total length, miles..	88	126	28	4
Flowing wells..... number..	89	19		
Pumped wells..... number..	7,157	2,412	537	34
Average pumping lift (reported)..... feet..	46	34	(*)	(*)
Pumps..... number..	7,734	2,848	636	54
Average pumping lift from all sources..... feet..	(*)	32	29	24
Capital investments, total..... dollars..	56,463,881	39,056,207	21,386,319	13,909,185
Capital investment by type of enterprise:				
Single-farm..... dollars..	14,489,545	2,967,486	1,041,547	1,146,227
Mutual:				
Unincorporated..... dollars..	111,391	109,591	751,302	547,104
Incorporated..... dollars..	1,047,570	1,036,557		
Commercial..... dollars..	(4)	1,027,010	899,054	726,560
District..... dollars..	21,791,872	19,205,720	5,082,366	2,811,474
U. S. Bureau of Reclamation ¹ dollars..	517,946,460	14,659,810	13,603,568	8,674,250
U. S. Bureau of Indian Affairs..... dollars..				
State..... dollars..	37,300	37,300	7,482	
City..... dollars..				
Other..... dollars..	12,733	12,733	1,000	3,570

*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 less than 3 enterprises shown with permission of enterprise.
⁶Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "Other mixed" with "Other and not reported."
⁷Data for less than 3 "Sewage" enterprises included 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 4}	
			Unincorporated ¹	Incorporated		Operated by Bureau ²	Operated by water users ³		
ENTERPRISES: FARMS AND LAND IRRIGATED									
1	Number of enterprises.....enterprises 1950..	5,583	5,515	12	15	39	2	3	6
2	.....enterprises 1940..	2,717	2,620	15	24	30	4	(*)	(*)
3	Farms irrigated direct per enterprise.....farms 1949..	2.0	1.0	5.0	37.8	131.3	81.0	474.3	173.3
4	Area irrigated direct.....acres 1949..	913,792	405,631	6,503	43,289	445,138	13,231	148,820	78,622
5	.....acres 1939..	782,012	141,965	7,764	53,853	291,368	257,401	(*)	(*)
6	Average per enterprise.....acres 1949..	164	74	542	2,886	11,414	6,616	49,607	13,104
CHARACTERISTICS OF ENTERPRISES, 1949									
7	Multiple-purpose enterprises.....enterprises..	4	.....	.....	.....	4	.....	.....	.....
8	Area irrigated direct.....acres..	83,062	.....	.....	.....	83,062	.....	.....	.....
9	Complete-system enterprises.....enterprises..	5,196	5,148	10	8	28	2	.....	2
10	Area irrigated direct.....acres..	578,606	392,747	6,328	24,928	141,372	13,231	.....	4,663
Enterprises by origin of water supply:									
11	No water from other enterprises.....enterprises reporting..	5,393	5,344	12	9	26	2	.....	.....
12	.....acres irrigated..	600,912	393,247	6,503	19,228	168,703	13,231	.....	.....
13	Part of water from other other enterprises.....enterprises reporting..	68	53	.....	5	10	.....	.....	6
14	.....acres irrigated..	156,918	6,127	.....	23,176	127,615	.....	.....	78,622
15	All water from other enterprises.....enterprises reporting..	122	118	.....	1	3	.....	.....	3
16	.....acres irrigated..	155,962	6,257	.....	885	148,820	.....	148,820	.....
Enterprises by delivery of irrigation water:									
17	No water delivered.....enterprises reporting..	193	193	.....	.....	.....	.....	.....	.....
18	Water delivered direct to farms only.....enterprises reporting..	5,368	5,319	10	11	27	1	1	5
19	.....acres irrigated..	623,239	405,131	6,328	22,709	186,340	2,731	50,807	30,122
20	Water delivered to farms and to other enterprises.....enterprises reporting..	20	3	2	3	11	1	2	1
21	.....acres irrigated..	290,553	500	175	20,580	258,798	10,500	98,013	48,500
22	Water delivered to other enterprises only.....enterprises reporting..	2	.....	.....	1	1	.....	.....	.....
Enterprises by primary and supplemental irrigation: ⁵									
23	All primary.....enterprises reporting..	5,131	5,090	12	6	22	1	1	2
24	.....acres irrigated..	706,701	388,700	6,503	14,066	286,932	10,500	50,807	22,856
25	Part primary, part supplemental.....enterprises reporting..	36	11	.....	8	16	1	2	4
26	.....acres irrigated..	180,538	665	.....	26,881	150,572	2,420	97,235	53,757
27	Supplemental irrigation.....acres irrigated..	10,987	700	.....	2,342	7,634	311	778	2,009
28	All supplemental.....enterprises reporting..	221	221	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	15,566	15,566	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:									
30	None.....enterprises reporting..	195	193	.....	1	1	.....	.....	.....
31	1-3.....enterprises reporting..	5,327	5,320	7	.....	.....	.....	.....	.....
32	4-9.....enterprises reporting..	10	2	3	3	2	.....	.....	.....
33	10-29.....enterprises reporting..	17	.....	2	4	11	.....	.....	2
34	30-99.....enterprises reporting..	18	.....	.....	3	14	1	.....	1
35	100-299.....enterprises reporting..	10	.....	.....	3	6	1	1	2
36	300-999.....enterprises reporting..	5	.....	.....	1	4	.....	1	1
37	1,000 or more.....enterprises reporting..	1	.....	.....	.....	1	.....	1	.....
Enterprises by acres irrigated direct:									
38	None.....enterprises reporting..	195	193	.....	1	1	.....	.....	.....
39	1-29.....enterprises reporting..	1,001	1,001	.....	.....	.....	.....	.....	.....
40	30-99.....enterprises reporting..	3,027	3,025	2	.....	.....	.....	.....	.....
41	100-499.....enterprises reporting..	1,277	1,268	6	1	2	.....	.....	.....
42	500-999.....enterprises reporting..	32	24	1	2	5	.....	.....	1
43	1,000-2,999.....enterprises reporting..	20	4	3	5	7	.....	.....	1
44	3,000-9,999.....enterprises reporting..	19	.....	.....	6	13	1	1	1
45	10,000-29,999.....enterprises reporting..	8	.....	.....	.....	7	1	.....	2
46	30,000 or more.....enterprises reporting..	4	.....	.....	.....	4	.....	2	1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949									
Surface water:									
47	Gravity only.....enterprises reporting..	223	157	12	14	38	2	.....	5
48	.....acres irrigated..	508,854	22,670	6,503	42,264	424,186	13,231	.....	76,956
49	Pumped only.....enterprises reporting..	420	420	.....	.....	.....	.....	.....	.....
50	.....acres irrigated..	20,087	20,087	.....	.....	.....	.....	.....	.....
51	Gravity and pumped.....enterprises reporting..	25	24	.....	.....	.....	.....	.....	.....
52	.....acres irrigated..	22,455	1,503	.....	.....	20,952	.....	148,820	.....
53	Ground water only (pumped from wells).....enterprises reporting..	4,661	4,661	.....	.....	.....	.....	.....	.....
54	.....acres irrigated..	339,227	339,227	.....	.....	.....	.....	.....	.....
55	Surface (gravity or pumped) and ground.....enterprises reporting..	254	253	.....	.....	.....	.....	.....	1
56	.....acres irrigated..	23,169	22,144	.....	1,025	.....	.....	.....	1,666
Stored water:									
57	None stored.....enterprises reporting..	5,405	5,362	11	8	23	1	.....	.....
58	.....acres irrigated..	532,571	394,166	5,873	19,228	110,573	2,731	.....	.....
59	Part stored.....enterprises reporting..	65	42	.....	6	16	.....	.....	.....
60	.....acres irrigated..	374,959	5,833	.....	24,061	334,565	10,500	148,820	78,622
61	All stored.....enterprises reporting..	113	111	1	1	.....	.....	.....	.....
62	.....acres irrigated..	6,262	5,632	630	.....	.....	.....	.....	.....

* Not available.

¹ For the 1950 Census, includes data for 1 "Commercial" enterprise.² Data for less than 3 enterprises shown with permission of the enterprise.³ These enterprises also included under "District" or other types of enterprises as the case may be.⁴ Single-farm enterprises receiving water from Bureau of Reclamation not included.⁵ For interstate enterprises, data represent characteristics within the State.

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

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

Item (For definitions and explanations, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation		All or part of water from U.S.B.R. projects ^{3,4}
			Unincorporated ¹	Incorporated		Operated by Bureau ²	Operated by water users ²	
SOURCES OF SURFACE WATER, 1949⁵								
1 Streams (and lakes).....enterprises reporting..	825	757	12	15	39	2	3	6
2 ..acres irrigated..	569,151	60,990	6,503	43,289	445,138	13,231	148,820	78,622
3 Springs.....enterprises reporting..	19	19						
4 ..acres irrigated..	1,040	1,040						
5 Flowing wells.....enterprises reporting..	61	61						
6 ..acres irrigated..	4,534	4,534						
7 Drainage water.....enterprises reporting..	43	41			2		1	1
8 ..acres irrigated..	16,119	2,090			14,029		9,029	5,000
9 Sewage.....enterprises reporting..	2	2						
10 ..acres irrigated..	110	110						
11 Other sources.....enterprises reporting..								
12 ..acres irrigated..								
DRAINAGE OF IRRIGATED LAND, 1949								
Irrigated land drained:								
13 Enterprises reporting.....enterprises..	319	299		6	14		2	4
14 Area supplied primary irrigation.....acres..	313,192	29,611		33,079	250,502		139,025	61,500
15 Area artificially drained.....acres..	103,297	16,029		9,800	77,468		55,907	13,629
Irrigated land in need of drainage:								
16 Enterprises reporting.....enterprises..	481	465	1	4	11		3	2
17 Area supplied primary irrigation.....acres..	300,133	42,580	75	19,071	238,407		148,042	59,127
18 Area in need of drainage.....acres..	32,284	13,644	15	10,329	8,296		4,846	600
IRRIGATION WORKS, 1950								
19 Diversion dams.....enterprises reporting..	342	296	9	11	24	2		5
20 ..dams..	488	426	11	14	35	2		5
Diversion dams by material:								
21 Concrete or masonry.....dams..	92	50	8	10	23	1		2
22 Timber.....dams..	21	15		2	4			1
23 Earth and rock.....dams..	351	345	2	1	3			2
24 Other, mixed, and not reported.....dams..	24	16	1	1	5	1		
25 Reservoirs.....enterprises reporting..	87	82	1		3	1	1	3
26 ..reservoirs..	114	105	1		7	1	3	
27 Reservoirs for which capacity was reported.....number..	96	88			7	1	3	
28 ..total capacity, acre-feet..	133,934	9,452			93,182	31,300	75,648	
Reservoirs by capacity:								
29 1-99 acre-feet.....reservoirs..	70	70			2			
30 100-999 acre-feet.....reservoirs..	16	14			2			
31 1,000 acre-feet and over.....reservoirs..	10	4			5	1	3	
Reservoir dams by material:								
32 Concrete or masonry.....dams..	3	3			7	1	3	
33 Earth and rock.....dams..	96	88						
34 Other, mixed, and not reported.....dams..	15	14	1		38	2	3	6
35 Canals and ditches.....enterprises reporting..	519	453	11	15	3,537	79	1,132	572
36 ..total length, miles..	4,613	617	54	325	10	1	2	2
37 Pipelines and siphons.....enterprises reporting..	109	95		3	18	1	3	2
38 ..total length, miles..	88	69		1	1		1	
39 Tunnels.....enterprises reporting..	1	1			6,600		6,600	
40 ..total length, feet..	6,600	6,600						
41 Flowing wells.....enterprises reporting..	61	61						
42 ..wells..	89	89			1			1
43 Pumped wells.....enterprises reporting..	4,910	4,909		2				5
44 ..wells..	7,157	7,155		2				5
45 Wells for which pumping lift was reported.....wells..	6,790	6,788		12				12
46 Average pumping lift.....feet..	46	46		1				1
47 Irrigation pumps.....enterprises reporting..	5,322	5,320		2	2			5
48 ..pumps..	7,734	7,730		1	1			1
49 Electric motors used for pumping.....enterprises reporting..	1,254	1,252		2	2			5
50 ..electric motors..	1,791	1,787						
51 Other motors and engines used for pumping.....enterprises reporting..	4,412	4,412						
52 ..other motors and engines..	5,721	5,721						
SEASON OF IRRIGATION, 1949								
53 Water delivered only before July 1.....enterprises reporting..	34	34						
54 ..acres irrigated..	5,108	5,108						6
55 Water delivered before and after July 1.....enterprises reporting..	949	932	11	15	39	2	3	6
56 ..acres irrigated..	605,953	98,422	5,873	43,289	445,138	13,231	148,820	78,622
57 Water delivered only after July 1.....enterprises reporting..	4,190	4,190						
58 ..acres irrigated..	292,501	292,501						
CAPITAL INVESTMENT, 1950 AND 1940								
59 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	39,056,207	2,967,486	109,591	1,036,557	19,205,720	14,659,810	(*)	(*)
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
60 Enterprises reporting.....enterprises 1950..	4,109	4,085	5	4	13	2		2
61 Amount.....dollars 1950..	17,407,674	11,522,059	1,800	11,013	2,586,152	3,286,650		23,550
62 Area irrigated direct.....acres 1949..	506,769	313,934	2,269	7,420	169,915	13,231		22,856
63 Total capital investment Jan 1, 1950.....dollars 1950..	56,463,881	14,489,545	111,391	1,047,570	21,791,872	17,946,460	(*)	(*)
INDEBTEDNESS, 1950⁶								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
64 Enterprises reporting.....enterprises..	31		1	2	26	2	3	4
65 Amount.....dollars..	18,911,386		5,313	70,575	17,887,822	947,676	9,386,186	910,375
66 Area irrigated direct.....acres..	414,043		1,181	3,751	395,880	13,231	148,820	71,956
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
67 Enterprises reporting.....enterprises..	7			1	6		2	2
68 Amount.....dollars..	457,418			75	457,343		71,481	36,775
69 Area irrigated direct.....acres..	132,849			1,251	131,598		98,013	12,383

¹ Not available.
² For the 1950 Census, includes data for 1 "Commercial" enterprise.
³ Data for less than 3 enterprises shown with permission of the enterprise.
⁴ These enterprises also included under "District" or other types of enterprises as the case may be.
⁵ Not including single-farm enterprises receiving water from Bureau of Reclamation projects.
⁶ 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.
⁷ Not reported by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definition and explanation, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation		All or part of water from U.S.B.R. projects ^{1,4}
			Unincorporated ¹	Incorporated		Operated by Bureau ²	Operated by water users ³	
COST OF WATER TO FARMS, 1949⁵								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	5,388	5,322	12	14	38	2	3	6
Cost.....dollars.	3,012,244	1,294,128	4,508	119,090	1,563,050	30,559	685,187	274,651
Area irrigated direct.....acres.	913,792	405,631	6,503	43,289	445,138	13,231	148,820	78,622
Cost per acre irrigated direct.....dollars..	3.30	3.19	0.69	2.77	3.51	2.31	4.60	3.49
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	712	694	10	4	4			
acres irrigated.....	95,840	64,609	4,692	6,309	20,230			
\$1.00-\$1.99.....enterprises reporting..	1,069	1,055	2	2	10			
acres irrigated.....	134,043	83,715	1,811	7,057	41,460			
\$2.00-\$4.99.....enterprises reporting..	2,482	2,451		8	21	2	2	6
acres irrigated.....	555,778	191,890		29,923	320,734	13,231	98,013	78,622
\$5.00-\$9.99.....enterprises reporting..	827	824			3		1	
acres irrigated.....	115,424	52,710			62,714		50,807	
\$10.00 or more.....enterprises reporting..	298	298						
acres irrigated.....	12,707	12,707						
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	5,167	5,101	12	14	38	2	3	6
Cost.....dollars.	2,943,605	1,252,614	4,508	111,559	1,545,608	29,316	682,705	268,362
Area supplied primary irrigation.....acres.	887,239	389,365	6,503	40,947	437,504	12,920	148,820	76,613
Cost per acre supplied.....dollars.	3.32	3.22	0.69	2.72	3.53	2.27	4.61	3.50
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	257	232		8	16		2	4
Cost.....dollars.	68,639	41,514		8,440	17,442	1,243	2,482	6,289
Area supplied supplemental irrigation.....acres.	26,553	16,266		2,342	7,634	311	778	2,009
Cost per acre supplied.....dollars.	2.58	2.55		3.60	2.28	4.00	3.19	3.13
Cost to farms for purposes other than operation and maintenance: ⁶								
Enterprises reporting.....enterprises..	14		1	1	12		3	2
Cost.....dollars.	489,106		1,830	3,125	484,151		335,932	29,930
Area irrigated direct.....acres.	312,045		1,181	2,500	308,364		148,820	49,100
Cost per acre irrigated.....dollars.	1.57		1.55	1.25	1.57		2.26	0.60
Arrearage in payments by farms, Jan. 1, 1950: ⁶								
Enterprises reporting.....enterprises..	16		1	5	10		2	
Amount.....dollars.	213,177		480	11,049	201,648		78,363	
Area irrigated direct.....acres.	250,044		1,181	22,331	226,532		98,013	
QUANTITIES OF WATER REPORTED, 1949⁶								
Total obtained from all sources ⁷.....enterprises reporting..	65		11	14	38	2	3	6
acres irrigated.....	3,879,942		10,652	120,180	3,722,066	27,044	737,842	350,674
Surface sources.....enterprises reporting..	61		11	13	35	2		6
acres irrigated.....	2,872,477		10,652	105,760	2,729,021	27,044		175,204
Pumped wells.....enterprises reporting..	1							1
acres irrigated.....	500				500			500
Other enterprises.....enterprises reporting..	19				13		3	6
acres irrigated.....	1,006,965			13,920	993,045		737,842	174,070
Conveyance loss ⁷.....enterprises reporting..	65		11	14	38	2	3	6
acres irrigated.....	1,125,438		1,888	31,761	1,084,428	7,361	368,747	131,864
Delivered: ⁷								
Direct to farms.....enterprises reporting..	63		11	13	37	2	3	6
acres irrigated.....	950,477		8,172	81,729	840,893	19,683	354,151	168,014
To other enterprises.....enterprises reporting..	17		2	3	12		2	1
acres irrigated.....	172,182		592	1,890	169,700		14,944	49,996
For use other than irrigation.....enterprises reporting..	6			1	8			1
acres irrigated.....	1,631,845			4,800	1,627,045			800
Delivered direct to farms for primary irrigation:								
Enterprises reporting.....enterprises..	63		11	13	37	2	3	6
Quantity delivered.....acre-feet.	898,262		8,172	74,186	796,737	19,167	325,454	163,319
Area supplied primary irrigation.....acres.	492,153		5,873	37,480	435,880	12,920	148,042	76,613
Quantity per acre supplied.....acre-feet.	1.8		1.4	2.0	1.8	1.5	2.1	2.1
Delivered direct to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	24			7	16	1	2	4
Quantity delivered.....acre-feet.	22,066			4,723	16,827	516	1,368	4,695
Area supplied supplemental irrigation.....acres.	10,254			2,309	7,634	311	778	2,009
Quantity per acre supplied.....acre-feet.	2.2			2.0	2.2	1.7	1.8	2.3
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars.	1,676,836		3,508	108,960	1,535,052	29,316	682,705	268,362
Average cost per acre-foot.....dollars.	1.87		0.43	1.47	1.93	1.53	2.09	1.64
Cost for supplemental irrigation.....dollars.	27,099			8,414	17,442	1,243	2,482	6,289
Average cost per acre-foot.....dollars.	1.23			1.78	1.04	2.41	1.81	1.33
Measurement of water to farms:								
No water measured.....enterprises reporting..	47		10	11	25	1		3
acres.....	123,101		4,692	26,224	89,454	2,731		71,356
Part of water measured.....enterprises reporting..	6		1	3	2			
acres.....	40,086		1,181	16,180	22,725			
All water measured.....enterprises reporting..	11			1	9		3	3
acres.....	265,041			885	253,656	10,500	148,820	7,266

¹ For the 1950 Census, includes data for 1 "Commercial" enterprise.
² Data for less than 3 enterprises shown with permission of the enterprise.
³ These enterprises also included under "District" or other types of enterprises as the case may be.
⁴ Not including single-farm enterprises receiving water from Bureau of Reclamation projects.
⁵ Enterprises with reported cost of \$0 in 1949 are included.
⁶ Not reported by single-farm enterprises.
⁷ For interstate enterprises, data represent characteristics of the entire enterprise.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
ENTERPRISES: FARMS AND LAND IRRIGATED									
1 Number of enterprises.....enterprises..	5,196	178	309	4,490	219	3,890	1,269	32	5
2 Farms irrigated direct per enterprise.....farms..	1.5	11.9	1.0	1.0	2.7	1.0	1.1	38.4	208.6
3 Area irrigated.....acres..	578,606	184,815	15,976	338,447	39,368	184,745	210,149	112,235	71,477
4 Average per enterprise.....acres..	111	1,038	52	75	180	47	166	3,507	14,295
CHARACTERISTICS OF ENTERPRISES									
5 Multiple-purpose enterprises.....enterprises..	1	1							1
6 Area irrigated.....acres..	12,000	12,000							12,000
Type of enterprise:									
7 Single-farm.....enterprises..	5,148	131	309	4,490	218	3,889	1,255	4	
8 ..acres..	392,747	19,908	15,976	338,447	18,416	184,655	202,967	5,125	
Mutual:									
9 Unincorporated.....enterprises..	9	9				1	5	3	
10 ..acres irrigated..	5,698	5,698				(4)	1,493	4,115	
11 Incorporated.....enterprises..	8	8					2	6	
12 ..acres irrigated..	24,928	24,928					(4)	23,808	
13 Commercial.....enterprises..	1	1					1		
14 ..acres irrigated..	(4)	(4)					(4)	18	4
15 District.....enterprises..	28	27			1		6		
16 ..acres irrigated..	141,372	120,420			(4)		3,939	76,456	60,977
17 U. S. Bureau of Reclamation ⁵.....enterprises..	2	2						1	1
18 ..acres irrigated..	13,231	13,231						2,731	10,500
19 U. S. Bureau of Indian Affairs.....enterprises..									
20 ..acres irrigated..									
21 State.....enterprises..									
22 ..acres irrigated..									
23 City.....enterprises..									
24 ..acres irrigated..									
Enterprises by primary and supplemental irrigation:⁶									
25 All primary.....enterprises reporting..	4,952	154	299	4,287	212	3,721	1,207	21	3
26 ..acres irrigated..	482,824	108,849	15,516	324,281	34,178	177,728	197,444	66,975	40,677
27 Part primary, part supplemental.....enterprises reporting..	28	17		11		6	9	11	2
28 Primary irrigation.....acres irrigated..	72,668	68,334		701	3,633	166	3,347	40,243	28,912
29 Supplemental irrigation.....acres irrigated..	7,826	6,959		700	167	256	665	5,017	1,888
30 All supplemental.....enterprises reporting..	216	10	192	7	193	53			
31 ..acres irrigated..	15,288	673	460	12,765	1,390	6,595	8,693		
Enterprises by number of farms irrigated:									
32 1-3.....enterprises reporting..	5,151	136	309	4,489	217	3,889	1,258	4	
33 4-9.....enterprises reporting..	9	7		1	1	1	7	1	
34 10-29.....enterprises reporting..	14	14					4	10	
35 30-99.....enterprises reporting..	15	15					2	15	
36 100-299.....enterprises reporting..	6	6						2	4
37 300-999.....enterprises reporting..	1				1				1
38 1,000 and over.....enterprises reporting..									
Enterprises by acreage irrigated:									
39 1-29.....enterprises reporting..	947	31	122	757	37	947			
40 30-99.....enterprises reporting..	2,943	54	157	2,601	131	2,943			
41 100-499.....enterprises reporting..	1,242	47	28	1,121	46		1,242		
42 500-999.....enterprises reporting..	27	12	2	10	3		27		
43 1,000-2,999.....enterprises reporting..	16	14		1	1			16	
44 3,000-9,999.....enterprises reporting..	16	16		1				16	
45 10,000-29,999.....enterprises reporting..	5	4			1				5
46 30,000 and over.....enterprises reporting..									
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
47 Gravity only.....enterprises reporting..	178	178				85	59	30	4
48 ..acres irrigated..	184,815	184,815				3,330	20,330	110,630	50,525
49 Pumped only.....enterprises reporting..	309		309			278	31		
50 ..acres irrigated..	15,976		15,976			9,838	6,138		
51 Gravity and pumped.....enterprises reporting..	19				19	16	2		1
52 ..acres irrigated..	21,826				21,826	589	285		20,952
53 Ground water only (pumped from wells) ....enterprises reporting..	4,490			4,490		3,359	1,130	1	
54 ..acres irrigated..	338,447			338,447		163,110	174,217	1,120	
55 Surface (gravity or pumped) and ground.....enterprises reporting..	200				200	152	47	1	
56 ..acres irrigated..	17,542				17,542	7,878	9,179	485	
Stored water:									
57 None stored.....enterprises reporting..	5,114	132	292	4,484	206	3,841	1,243	28	2
58 ..acres irrigated..	510,419	119,075	15,306	337,959	38,079	181,008	202,593	90,841	33,977
59 Part stored.....enterprises reporting..	34	21	4	4	5	12	15	4	3
60 ..acres irrigated..	64,579	63,337	202	330	710	565	5,120	21,394	37,500
61 All stored.....enterprises reporting..	48	25	13	2	8	37	11		
62 ..acres irrigated..	3,608	2,403	468	158	579	1,172	2,436		

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Total complete- system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
SOURCES OF SURFACE WATER⁴									
1 Streams (and lakes).....enterprises reporting..	613	165	285	.....	163	450	127	31	5
2 .....acres irrigated..	234,745	184,490	15,129	.....	35,126	17,995	34,158	111,115	71,477
3 Springs.....enterprises reporting..	19	13	2	.....	4	17	2	.....	.....
4 .....acres irrigated..	1,040	710	41	.....	289	521	519	.....	.....
5 Flowing wells.....enterprises reporting..	58	5	3	.....	50	50	8	.....	.....
6 .....acres irrigated..	4,534	216	235	.....	4,083	2,908	1,626	.....	.....
7 Drainage water.....enterprises reporting..	39	2	25	.....	12	32	6	.....	.....
8 .....acres irrigated..	6,955	5,057	865	.....	1,033	1,107	848	5,000	.....
9 Sewage.....enterprises reporting..	2	.....	.....	.....	2	.....	.....	.....	.....
10 .....acres irrigated..	110	.....	.....	.....	110	.....	.....	.....	.....
11 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
12 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
13 Enterprises reporting.....enterprises..	305	12	21	.....	14	189	105	9	2
14 Acreage supplied primary irrigation.....acres..	97,760	68,982	1,306	25,974	1,498	10,582	18,452	41,749	26,967
15 Acreage artificially drained.....acres..	28,005	12,616	639	14,352	398	6,009	8,856	7,840	5,300
Irrigated land in need of drainage:									
16 Enterprises reporting.....enterprises..	465	10	22	.....	19	306	153	5	1
17 Acreage supplied primary irrigation.....acres..	79,494	24,605	1,246	37,206	16,437	15,676	26,094	23,724	14,000
18 Acreage in need of drainage.....acres..	19,551	5,842	456	12,400	853	6,351	7,013	5,787	400
IRRIGATION WORKS									
19 Diversion dams.....enterprises reporting..	298	141	26	.....	131	170	100	25	3
20 .....dams..	434	195	29	.....	210	249	145	34	6
Diversion dams by material:									
21 Concrete or masonry.....dams..	67	51	4	.....	12	13	30	19	5
22 Timber.....dams..	18	11	2	.....	5	.....	.....	.....	.....
23 Earth or rock.....dams..	327	117	21	.....	189	218	103	6	4
24 Other, mixed, and not reported.....dams..	22	16	2	.....	4	10	6	5	1
25 Reservoirs.....enterprises reporting..	82	44	15	.....	9	14	53	27	2
26 .....reservoirs..	108	63	17	.....	10	10	62	41	1
27 Reservoirs for which capacity was reported.....reservoirs..	91	54	15	.....	6	16	53	33	4
28 .....total capacity, acre-feet..	52,392	51,104	430	401	457	3,097	4,635	13,360	31,300
Reservoirs by capacity									
29 1-99 acre-feet.....reservoirs..	69	35	14	.....	4	16	48	21	.....
30 100-999 acre-feet.....reservoirs..	16	13	1	.....	2	.....	5	9	.....
31 1,000 acre-feet and over.....reservoirs..	6	6	.....	.....	.....	.....	3	2	1
Reservoir dams; by material:									
32 Concrete or masonry.....dams..	2	.....	.....	.....	.....	1	.....	.....	.....
33 Earth or rock.....dams..	91	56	11	.....	16	51	35	4	1
34 Other, mixed, and not reported.....dams..	15	5	6	.....	3	10	5	.....	.....
35 Canals and ditches.....enterprises reporting..	456	97	45	282	32	302	120	79	5
36 .....total length, miles..	2,103	1,469	35	358	221	300	298	859	645
37 Pipelines and siphons.....enterprises reporting..	98	6	21	59	12	74	19	3	2
38 .....total length, miles..	75	10	7	54	5	55	9	9	2
39 Tunnels.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
40 .....total length, feet..	.....	.....	.....	.....	.....	.....	.....	.....	.....
41 Flowing wells.....enterprises reporting..	58	5	3	.....	50	50	8	.....	.....
42 .....wells..	81	10	5	.....	66	71	10	.....	.....
43 Pumped wells.....enterprises reporting..	4,683	.....	.....	4,490	193	3,502	1,180	1	.....
44 .....wells..	6,872	.....	.....	6,584	288	4,359	2,506	7	.....
45 Wells for which pumping lift was reported.....wells..	6,532	.....	.....	6,260	272	4,117	2,408	7	.....
46 Average pumping lift.....feet..	47	.....	.....	47	45	46	48	120	.....
47 Irrigation pumps.....enterprises reporting..	4,983	.....	309	4,458	216	3,773	1,208	2	.....
48 .....pumps..	7,309	.....	367	6,570	372	4,729	2,571	9	.....
49 Electric motors used for pumping.....enterprises reporting..	1,204	.....	23	1,147	34	702	501	1	.....
50 .....electric motors..	1,716	.....	27	1,637	52	812	902	2	.....
51 Other motors and engines used for pumping.....enterprises reporting..	4,130	.....	286	3,650	192	3,160	969	1	.....
52 .....other motors and engines..	5,410	.....	314	4,800	294	3,772	1,631	7	.....
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
53 Water delivered only before July 1.....enterprises reporting..	32	23	3	.....	4	19	12	1	.....
54 .....acres irrigated..	4,448	3,691	199	163	395	678	2,650	1,120	.....
55 Water delivered before and after July 1.....enterprises reporting..	903	133	55	663	52	532	335	31	5
56 .....acres irrigated..	276,636	179,606	4,549	64,278	28,203	23,984	70,060	111,115	71,477
57 Water delivered only after July 1.....enterprises reporting..	4,090	16	243	3,675	156	3,192	898	.....	.....
58 .....acres irrigated..	287,361	690	10,969	265,382	10,320	153,271	134,090	.....	.....
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
59 Enterprises reporting.....enterprises..	3,893	61	219	3,437	176	2,841	1,039	9	4
60 Amount.....dollars..	14,791,930	3,542,029	316,214	10,296,197	637,490	6,524,681	4,613,711	231,076	3,422,462
61 Area irrigated.....acres..	393,584	72,511	11,618	274,168	35,287	140,683	167,032	28,114	57,755
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
62 Enterprises reporting.....enterprises..	20	19	.....	.....	1	.....	3	17	5
63 Amount.....dollars..	2,968,402	1,740,315	.....	.....	1,228,087	.....	40,200	348,420	2,579,782
64 Area irrigated.....acres..	108,439	87,487	.....	.....	20,952	.....	1,800	35,162	71,477
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
65 Enterprises reporting.....enterprises..	4	3	.....	.....	1	.....	2	1	1
66 Amount.....dollars..	385,162	39,075	.....	.....	346,087	.....	39,000	75	346,087
67 Area irrigated.....acres..	23,053	2,101	.....	.....	20,952	.....	850	1,351	20,952

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

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

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

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

⁵ Not reported by single-farm enterprises.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
COST OF WATER TO FARMS⁴									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	5,196	178	309	4,490	219	3,890	1,269	32	5
2 Cost.....dollars..	1,685,711	345,652	39,379	1,142,748	157,937	650,709	599,656	202,222	233,124
3 Area irrigated.....acres..	578,606	184,815	15,976	338,447	39,368	184,745	210,149	112,235	71,477
4 Cost per acre irrigated.....dollars..	2.91	1.87	2.46	3.38	4.01	3.52	2.85	1.80	3.26
Enterprises by cost per acre:									
5 less than \$1.00.....enterprises reporting..	606	135	44	470	37	490	187	9	
6 acres irrigated..	91,841	49,162	4,423	35,624	2,632	27,677	38,539	30,625	
7 \$1.00-\$1.99.....enterprises reporting..	1,054	16	79	925	34	760	282	11	
8 acres irrigated..	132,795	50,448	3,777	75,672	2,981	38,910	45,092	35,769	13,025
9 \$2.00-\$4.99.....enterprises reporting..	2,376	75	129	2,129	53	1,718	644	10	4
10 acres irrigated..	289,605	83,554	6,023	169,592	30,434	85,436	102,620	43,097	58,452
11 \$5.00-\$9.99.....enterprises reporting..	794	2	44	709	39	664	128	7	
12 acres irrigated..	51,980	1,649	1,402	46,144	2,785	29,654	19,582	2,744	
13 \$10.00 or more.....enterprises reporting..	286		13	257	16	258	28		
14 acres irrigated..	12,384		403	11,415	566	8,068	4,316		
Cost of water for primary irrigation:									
15 Enterprises reporting.....enterprises..	4,980	171	299	4,298	212	3,727	1,216	32	5
16 Cost.....dollars..	1,629,746	330,987	38,189	1,107,630	152,845	631,292	577,947	194,422	226,085
17 Area supplied primary irrigation.....acres..	555,492	177,183	15,516	324,982	37,811	177,894	200,791	107,218	69,589
18 Cost per acre supplied.....dollars..	2.93	1.87	2.46	3.41	4.04	3.55	2.88	1.81	3.25
Cost of water for supplemental irrigation:									
19 Enterprises reporting.....enterprises..	244	24	10	203	7	169	62	11	2
20 Cost.....dollars..	55,965	14,670	1,190	35,118	4,987	19,417	21,709	7,800	7,039
21 Area supplied supplemental irrigation.....acres..	23,114	7,632	44	13,465	1,557	6,851	9,358	5,017	1,888
22 Cost per acre supplied.....dollars..	2.42	1.92	2.59	2.61	3.20	2.83	2.32	1.55	3.73
Cost to farms for purposes other than operation and maintenance:⁵									
23 Enterprises reporting.....enterprises..	7	7					1	5	1
24 Cost.....dollars..	26,696	26,696					300	11,396	15,000
25 Area irrigated.....acres..	31,542	31,542					600	15,942	15,000
26 Cost per acre irrigated.....dollars..	0.85	0.85					0.50	0.71	1.00
Arrearage in payments by farms, Jan. 1, 1950:⁵									
27 Enterprises reporting.....enterprises..	9	8			1		1	5	3
28 Amount.....dollars..	59,955	39,975			19,979		1,500	20,351	38,104
29 Area irrigated.....acres..	63,806	42,854			20,952		250	15,604	47,952
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources⁶:									
30 Enterprises reporting.....enterprises reporting..	45	44			1	1	13	26	5
31 acre-feet..	574,065	543,174			30,891	245	18,717	305,358	249,745
32 Surface sources.....enterprises reporting..	45	44			1	1	13	26	5
33 acre-feet..	569,509	538,618			30,891	245	18,297	302,155	248,812
34 Pumped wells.....enterprises reporting..									
35 acre-feet..									
36 Other enterprises.....enterprises reporting..	7	7					2	3	2
37 acre-feet..	4,556	4,556					420	3,203	933
38 Conveyance loss ⁶.....enterprises reporting..	45	44			1	1	13	26	5
39 acre-feet..	158,899	145,616			13,283	61	5,209	88,641	64,788
Delivered:⁶									
40 Direct to farms.....enterprises reporting..	45	44			1	1	13	26	5
41 acre-feet..	333,050	315,442			17,608	184	13,508	208,267	111,091
42 To other enterprises.....enterprises reporting..	3	3						1	2
43 acre-feet..	2,500	2,500						1,250	1,250
44 For use other than irrigation.....enterprises reporting..	5	5						3	2
45 acre-feet..	79,616	79,616						7,000	72,616
Delivered to farms for primary irrigation:									
46 Enterprises reporting.....enterprises..	45	44			1	1	13	26	5
47 Quantity delivered.....acre-feet..	317,336	299,855			17,481	184	12,959	196,752	107,441
48 Acreage supplied primary irrigation.....acres..	173,012	152,227			20,785	90	6,331	97,002	69,589
49 Quantity per acre supplied.....acre-feet..	1.8	2.0			0.8	2.0	2.0	2.0	1.5
Delivered to farms for supplemental irrigation:									
50 Enterprises reporting.....enterprises..	16	15			1		4	10	2
51 Quantity delivered.....acre-feet..	15,714	15,587			127		549	11,515	3,650
52 Acreage supplied supplemental irrigation.....acres..	7,093	6,926			167		221	4,984	1,888
53 Quantity per acre supplied.....acre-feet..	2.2	2.3			0.8		2.5	2.3	1.9
Cost of water to farms for enterprises reporting quantity delivered:									
54 Cost for primary irrigation.....dollars..	406,538	312,933			93,605		7,856	172,597	226,085
55 Average cost per acre-foot.....dollars..	1.28	1.04			5.35		0.61	0.88	2.10
56 Cost for supplemental irrigation.....dollars..	15,323	14,644			479		510	7,774	7,039
57 Average cost per acre-foot.....dollars..	0.98	0.94			5.35		0.93	0.68	1.93
Measurement of water to farms:									
58 No water measured.....enterprises reporting..	39	39				1	13	23	2
59 acres..	117,168	117,168				90	6,552	83,526	27,000
60 Part of water measured.....enterprises reporting..	4	4						3	1
61 acres..	27,706	27,706						14,681	13,025
62 All water measured.....enterprises reporting..	2	1			1				2
63 acres..	31,452	10,500			20,952				31,452

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.

NEBRASKA

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945

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

Table with 14 columns representing Nebraska counties: Butler, Cedar, Chase, Cherry, Cheyenne, Clay, Colfax, Cuming, Custer, Dawes, Dawson, Deuel, Dodge, Douglas. Rows contain numerical data for various characteristics, with some cells containing superscripts (1) or dashes.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

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

Table with 15 columns representing counties: Gosper, Greeley, Hall, Hamilton, Harlan, Hayes, Hitchcock, Holt, Howard, Kearny, Keith, Kimball, Lancaster, Lincoln. Rows show various agricultural and demographic data points across these counties.

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

[1950 data for items shown in italics are

Table with 11 columns: Item (For definitions and explanations, see text), Loup, Madison, Merrick, Morrill, Nance, Nuckolls, Perkins, Phelps, Platte. Rows include categories like 'Irrigated farms', 'Land in irrigated farms', 'Irrigated land in farms according to use, 1949', 'Irrigated farms by acres irrigated in 1949', 'Irrigated farms by tenure of operator, 1950', 'Land in wholly and in partly irrigated farms', 'Characteristics of wholly irrigated and nonirrigated farms', and 'Irrigated farms and irrigated land by origin of water, 1949'.

1 Less than 0.05.

OTHER CHARACTERISTICS: CENSUSES OF 1950 AND 1945—Continued

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

Table with 17 columns: Polk, Red Willow, Saline, Sarpy, Scotts Bluff, Seward, Sheridan, Sherman, Sioux, Stanton, Thayer, Valley, Webster, Wheeler, York, All other counties. Rows represent various farm characteristics with numerical data.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		The State	Adams	Antelope	Banner	Boone	Box Butte	Brown	Buffalo
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	5,583	81	13	15	88	70	21	525
2	..... 1940..	2,717	13	9	5	21	22	26	464
3	Intercounty enterprises.....enterprises 1950..	21	.....	.....	.....	.....	.....	.....	2
4	Irrigated farms ¹.....farms 1950..	9,680	83	15	17	91	76	22	573
5	Average per enterprise.....farms 1950..	1.7	1.0	1.2	1.1	1.0	1.1	1.0	1.1
6	Farms irrigated direct per enterprise ².....farms 1950..	2.0	1.0	0.9	1.0	1.0	1.1	1.1	1.1
7	Irrigated land ¹.....acres 1949..	887,239	5,619	446	1,668	6,444	14,277	1,718	51,156
8	.....acres 1939..	610,379	513	238	645	1,100	3,435	635	24,076
9	Average per irrigated farm.....acres 1949..	91.7	67.7	29.7	98.1	70.8	187.9	78.1	89.3
10	Average per enterprise.....acres 1949..	179	69	34	111	73	204	82	97
11	Average acreage irrigated direct per enterprise ².....acres 1949..	164	69	34	111	73	204	82	100
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	5,515	81	13	15	88	70	21	523
13	.....acres irrigated..	405,631	5,619	446	1,668	6,444	14,277	1,718	49,387
Mutual:									
14	Incorporated.....enterprises..	11	.....	.....	.....	.....	.....	.....	.....
15	.....acres irrigated..	5,873	.....	.....	.....	.....	.....	.....	.....
16	Incorporated.....enterprises..	15	.....	.....	.....	.....	.....	.....	1
17	.....acres irrigated..	43,289	.....	.....	.....	.....	.....	.....	(³)
18	Commercial.....enterprises..	1	.....	.....	.....	.....	.....	.....	.....
19	.....acres irrigated..	(³)	.....	.....	.....	.....	.....	.....	.....
20	District.....enterprises..	39	.....	.....	.....	.....	.....	.....	1
21	.....acres irrigated..	445,138	.....	.....	.....	.....	.....	.....	(³)
22	U. S. Bureau of Reclamation ⁴.....enterprises..	2	.....	.....	.....	.....	.....	.....	.....
23	.....acres irrigated..	13,231	.....	.....	.....	.....	.....	.....	.....
24	U. S. Bureau of Indian Affairs.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
25	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
26	State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
27	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
28	City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
29	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	223	.....	.....	4	.....	5	.....	12
31	.....acres irrigated..	508,854	.....	.....	635	.....	3,450	.....	3,985
32	Pumped only.....enterprises reporting..	420	.....	1	1	21	.....	1	13
33	.....acres irrigated..	20,087	.....	1	80	1,112	.....	1	810
34	Gravity and pumped.....enterprises reporting..	25	.....	.....	1	.....	.....	.....	4
35	.....acres irrigated..	22,455	.....	.....	68	.....	.....	.....	395
36	Ground water only (pumped from wells).....enterprises reporting..	4,561	71	10	9	61	64	20	461
37	.....acres irrigated..	339,227	5,026	388	885	4,247	10,639	1,717	44,584
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	254	10	2	.....	6	.....	.....	35
39	.....acres irrigated..	23,169	593	57	.....	1,085	188	.....	2,775
Stored water:									
40	None stored.....enterprises reporting..	5,405	81	13	14	88	70	21	522
41	.....acres irrigated..	532,571	5,619	446	1,608	6,444	14,277	1,718	52,474
42	Part stored.....enterprises reporting..	65	.....	.....	.....	.....	.....	.....	.....
43	.....acres irrigated..	374,959	.....	.....	.....	.....	.....	.....	.....
44	All stored.....enterprises reporting..	113	.....	.....	1	.....	.....	.....	3
45	.....acres irrigated..	6,262	.....	.....	60	.....	.....	.....	75
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	825	1	2	6	26	5	1	58
47	.....acres irrigated..	569,151	110	1	783	2,162	3,450	1	7,680
48	Springs.....enterprises reporting..	19	.....	.....	.....	.....	.....	.....	1
49	.....acres irrigated..	1,040	.....	.....	.....	.....	.....	.....	30
50	Flowing wells.....enterprises reporting..	61	8	1	.....	2	.....	.....	9
51	.....acres irrigated..	4,534	398	57	.....	535	.....	.....	755
52	Drainage water.....enterprises reporting..	43	.....	.....	.....	.....	1	.....	3
53	.....acres irrigated..	16,119	.....	.....	.....	.....	188	.....	100
54	Sewage.....enterprises reporting..	2	1	.....	.....	.....	.....	.....	.....
55	.....acres irrigated..	110	85	.....	.....	.....	.....	.....	.....
56	Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
57	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..	319	3	2	.....	9	1	.....	40
59	Area supplied primary irrigation.....acres 1949..	313,192	265	50	.....	840	1,120	.....	5,838
60	Area artificially drained.....acres 1949..	103,297	113	33	.....	209	1,120	.....	3,098
61	.....acres 1939..	47,532	.....	.....	.....	.....	.....	.....	.....
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..	481	2	.....	1	9	2	3	44
63	Area supplied primary irrigation.....acres 1949..	300,133	140	.....	80	820	1,258	238	6,145
64	Area in need of drainage.....acres 1949..	32,284	18	.....	1	94	380	238	2,120
65	.....acres 1939..	10,305	.....	.....	.....	.....	.....	.....	.....

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

CHARACTERISTICS, BY COUNTIES: CENSUSES OF 1950 AND 1940

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

Butler	Cedar	Chase	Cherry	Cheyenne	Clay	Colfax	Cuming	Custer	Dawes	Lawson	Deuel	Dodge	Douglas	
22	5	22	6	72	100	66	4	127	31	724	55	29	7	1
16	(*)	11	21	60	5	30	12	30	39	486	58	30	3	2
22	5	29	7	76	98	64	7	178	63	982	55	29	8	4
1.0	1.0	1.3	1.2	1.1	1.0	1.0	1.8	1.4	2.0	1.4	1.0	1.0	1.1	5
1.0	1.0	1.2	1.0	1.1	1.0	1.0	1.0	1.6	2.1	1.9	1.3	1.0	0.9	6
1,304	297	2,179	1,348	7,547	8,888	2,869	237	9,492	8,196	90,975	5,670	1,066	96	7
399	(*)	2,520	1,837	4,178	251	1,169	421	3,797	14,301	70,308	8,585	1,289	410	8
59.3	59.4	75.1	192.6	99.3	90.7	44.8	33.9	53.3	130.1	92.6	103.1	36.8	12.0	9
59	59	99	225	105	89	43	59	75	264	126	103	37	14	10
59	59	99	225	105	89	43	59	75	271	134	127	37	14	11
22	5	21	6	71	100	66	4	126	29	716	53	29	7	12
1,304	297	1,549	1,348	7,292	8,888	2,869	237	6,067	2,911	48,811	4,408	1,066	96	13
				1										14
				(3)										15
										5	1			16
										20,839	(3)			17
		1												18
	(3)													19
								1	1	3	1			20
								(3)	(3)	27,400	(3)			21
									1					22
														23
														24
														25
														26
														27
														28
														29
		4	2	7				2	23	8	5			30
		826	1,056	556				3,585	7,891	48,239	2,678			31
	1				2	8	2	26	6	23	1	1		32
	34				150	293	117	959	465	866	75	70		33
	1			1			2		1	1				34
	60			65		80			25	15				35
22	3	18	4	60	87	54	2	88	1	655	46	25	7	36
1,304	203	1,353	292	6,206	7,900	2,171	120	4,535	15	45,877	3,892	866	96	37
				4	11	2		11		37	3	3		38
				720	838	325		488		2,053	348	130		39
22	4	18	6	70	100	66	4	127	27	710	54	29	7	40
1,304	237	1,353	1,348	7,083	8,888	2,869	237	9,567	2,411	48,461	6,108	1,066	96	41
	1			1					3	13	1			42
	60			340					5,785	48,549	885			43
		4		1					1	1				44
		826		124					200	40				45
	2	4	2	12	3	12	2	38	30	65	8	1		46
	94	826	1,056	1,341	235	698	117	5,008	8,381	50,915	3,026	70		47
		1												48
		56												49
		1			10			1		2	1	3		50
		80			75.3			24		175	75	130		51
	1									2				52
	60									83				53
														54
														55
														56
														57
1					6	1	1	5	1	38		3	1	58
60					627	23	100	242	5,485	35,661		360	3	59
20					273	23	60	201	200	7,926		325	3	60
	(*)		1			282	(*)		(*)	2,353				61
2				2	13	2		3	2	63	8	1		62
260				224	982	55		230	5,955	11,784	605	250		63
80				85	120	36		46	160	6,377	243	250		64
	(*)		83			40				4	(*)			65

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Dundy	Fillmore	Franklin	Frontier	Furnas	Gage	Garden	Garfield
ALL ENTERPRISES									
Farms and land irrigated:									
1	All irrigation enterprises.....enterprises 1950..	25	48	39	3	49	3	32	17
2	..... 1940..	13	3	17	5	25	10	22	4
3	Intercounty enterprises.....enterprises 1950..	1						1	1
4	Irrigated farms ¹.....farms 1950..	43	49	41	5	51	5	107	60
5	Average per enterprise.....farms 1950..	1.7	1.0	1.1	1.7	1.0	1.7	3.3	3.5
6	Farms irrigated direct per enterprise ².....farms 1950..	1.7	1.1	1.0	1.0	1.0	1.0	4.8	4.4
7	Irrigated land ¹.....acres 1949..	4,001	3,095	2,098	355	2,384	204	10,355	4,302
8	.....acres 1939..	4,487	122	1,088	72	699	306	11,804	2,187
9	Average per irrigated farm.....acres 1949..	93.0	63.2	51.2	71.0	46.7	40.8	96.8	71.7
10	Average per enterprise.....acres 1949..	160	64	54	118	49	68	324	253
11	Average acreage irrigated direct per enterprise ².....acres 1949..	160	64	56	118	53	68	343	264
Type of enterprise, 1950:									
12	Single-farm.....enterprises..	24	48	39	3	49	3	22	16
13	.....acres irrigated..	2,377	3,095	2,168	355	2,577	204	876	680
Mutual:									
14	Incorporated.....enterprises..							1	
15	.....acres irrigated..							(³)	
16	Incorporated.....enterprises..							3	
17	.....acres irrigated..							2,230	
18	Commercial.....enterprises..								
19	.....acres irrigated..								
20	District.....enterprises..	1						6	1
21	.....acres irrigated..	(³)						6,578	(³)
22	U. S. Bureau of Reclamation ⁴.....enterprises..								
23	.....acres irrigated..								
24	U. S. Bureau of Indian Affairs.....enterprises..								
25	.....acres irrigated..								
26	State.....enterprises..								
27	.....acres irrigated..								
28	City.....enterprises..								
29	.....acres irrigated..								
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30	Gravity only.....enterprises reporting..	4		2		1		13	
31	.....acres irrigated..	2,680		8		70		10,189	
32	Pumped only.....enterprises reporting..	2	1	5		9	2		3
33	.....acres irrigated..	42	125	460		240	100		167
34	Gravity and pumped.....enterprises reporting..			1					2
35	.....acres irrigated..			20					3,825
36	Ground water only (pumped from wells).....enterprises reporting..	15	41	29	3	32	1	15	10
37	.....acres irrigated..	1,025	2,751	1,533	355	2,024	104	536	356
38	Surface (gravity or pumped) and ground water.....enterprises reporting..	4	6	2		7		4	2
39	.....acres irrigated..	254	219	147		243		255	132
Stored water:									
40	None stored.....enterprises reporting..	24	48	36	3	47	3	29	17
41	.....acres irrigated..	3,951	3,095	2,009	355	2,477	204	7,321	4,480
42	Part stored.....enterprises reporting..					1		2	
43	.....acres irrigated..					30		3,659	
44	All stored.....enterprises reporting..	1		3		1		1	
45	.....acres irrigated..	50		159		70			
Sources of surface water, 1949: ⁵									
46	Streams (and lakes).....enterprises reporting..	6	6	8		17	2	17	7
47	.....acres irrigated..	2,722	276	627		553	100	10,444	4,124
48	Springs.....enterprises reporting..			2					
49	.....acres irrigated..			8					
50	Flowing wells.....enterprises reporting..	4	1			1			
51	.....acres irrigated..	254	68			90			
52	Drainage water.....enterprises reporting..								
53	.....acres irrigated..								
54	Sewage.....enterprises reporting..								
55	.....acres irrigated..								
56	Other sources.....enterprises reporting..								
57	.....acres irrigated..								
Drainage of irrigated land: ⁶									
Irrigated land drained:									
58	Enterprises reporting.....enterprises 1949..		3	1			1	1	
59	Area supplied primary irrigation.....acres 1949..		228	90			80	890	
60	Area artificially drained.....acres 1949..		99	90			40	100	
61	.....acres 1939..	(*)	(*)	(*)			(*)		
Irrigated land in need of drainage:									
62	Enterprises reporting.....enterprises 1949..		4	1		1	1	3	3
63	Area supplied primary irrigation.....acres 1949..		302	67		124	80	1,307	110
64	Area in need of drainage.....acres 1949..		69	13		6	80	405	35
65	.....acres 1939..	(³)						(*)	(*)

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

NEBRASKA

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

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

Gosper	Greeley	Hall	Hamilton	Harlan	Hayes	Hitchcock	Howard	Kearney	Keith	Kimball	Lancaster	Lincoln	Loup
24	56	706	221	45	10	31	45	125	112	53	3	246	20
15	5	257	6	19	11	15	16	42	82	40	(*)	157	5
1	1	1	1	1	1	1	1	1	3	1		5	1
69	59	707	229	46	11	110	41	278	140	66	3	436	50
2.9	1.1	1.0	1.0	1.0	1.1	3.8	0.9	2.2	1.2	1.2	1.0	1.8	2.5
4.9	1.1	1.0	1.0	1.0	1.3	3.9	0.9	2.6	1.7	1.6	1.0	2.1	3.6
6,929	3,717	56,850	20,490	2,646	1,485	11,005	1,824	29,718	10,891	8,495	84	45,213	3,393
937	601	10,875	1,341	624	744	11,366	511	6,730	16,690	8,192	(*)	44,022	4,224
100.4	63.0	80.4	89.5	57.5	135.0	93.3	44.5	106.9	134.9	128.7	28.0	103.7	67.9
289	66	81	93	59	148	355	41	238	169	160	28	184	170
289	69	81	93	59	148	358	41	238	221	178	28	193	170
23	55	706	221	45	10	29	45	124	107	52	3	236	18
1,929	3,170	56,890	20,490	2,646	1,485	2,177	1,824	9,718	13,776	7,173	84	12,195	688
									2			1	14
									(3)			(3)	15
												2	16
						(3)						(3)	17
													18
													19
1	1					1		1	3	1		7	2
(3)	(3)					(3)		(3)	10,400	(3)		26,743	(3)
													21
													22
													23
													24
													25
													26
													27
													28
													29
1			2			2	1	3	8	5		10	1
5,000			130			8,923	25	20,039	11,463	3,129		35,193	250
7	7		3	17	1	2	5		4	1	1	39	6
304	531		95	834	52	222	62		1,156	30	20	2,917	282
	1											1	1
	697											80	2,455
15	41	705	211	23	7	24	38	121	95	27	1	186	12
1,555	2,386	56,700	19,945	1,445	548	1,425	1,697	9,662	10,573	3,129	4	8,402	406
1	7	1	5	2		3	1	5	20	1	1	10	
70	253	190	320	367	885	530	40	17	1,602	3,130	60	796	
18	56	706	220	45	10	31	44	123	111	40	2	240	20
1,679	3,867	56,890	20,480	2,646	1,485	11,100	1,794	9,706	24,794	5,793	24	45,877	3,393
1								1	1	11	1	4	
5,000								20,000		3,541	60	1,312	
5			1					1	1			2	
250			10					30	12	84		199	
7	14		7	22	3	5	7	4	16	26	1	51	8
5,284	1,431		320	1,201	937	9,265	127	20,056	14,165	6,289	20	38,645	2,987
				1					1			2	
				40					56			199	
1		1	1				2		1				
70		190	75			410			56				
1	1		2							1	1	8	
20	50		150							123	60	261	
		104	8	1			6	8	4	1		10	
		11,078	869	25			301	814	6,146	25		20,587	
		5,587	247	20			295	294	1,414	25		8,110	
(*)		(*)		(*)					(*)		(*)	14,820	
1	3	170	29		1		6	5	2			12	
196	70	16,368	3,251		760		192	487	5,873			7,452	
20	38	5,725	421		30		39	138	680			3,006	
		(*)		(*)					(*)		(*)	2,458	(*)

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Madison	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	7	561	48	26	41	3	146	92	69
2 1940..	16	62	48	3	7	3	51	18	6
3 Intercounty enterprises.....enterprises 1950..	1	1	5				1		
4 Irrigated farms ¹.....farms 1950..	7	538	539	27	44	3	517	88	73
5 Average per enterprise.....farms 1950..	1.0	1.0	11.2	1.0	1.1	1.0	3.5	1.0	1.1
6 Farms irrigated direct per enterprise ².....farms 1950..	1.0	1.0	14.0	1.0	1.1	1.0	4.5	1.0	1.0
7 Irrigated land ¹.....acres 1949..	339	31,914	62,973	1,375	2,581	135	51,985	3,854	4,859
8 1939..	584	2,878	79,962	225	323	353	4,502	535	308
9 Average per irrigated farm.....acres 1949..	48.4	59.3	116.8	50.9	58.7	45.0	100.6	43.8	66.6
10 Average per enterprise.....acres 1949..	48	57	1,312	53	63	45	356	42	70
11 Average acreage irrigated direct per enterprise ².....acres 1949..	48	57	1,330	53	63	45	356	42	70
Type of enterprise, 1950:									
12 Single-farm.....enterprises..	7	561	33	26	41	3	145	92	69
13 acres irrigated..	339	31,914	2,994	1,375	2,581	135	7,020	3,854	4,859
Mutual:									
14 Unincorporated.....enterprises..			4						
15 acres irrigated..			1,891						
16 Incorporated.....enterprises..			1						
17 acres irrigated..			(³)						
Commercial.....enterprises.....									
18 acres irrigated.....									
District.....enterprises.....									
20 acres irrigated.....			10				1		
21 U. S. Bureau of Reclamation ⁴.....enterprises..			57,698				(³)		
22 acres irrigated.....									
23 U. S. Bureau of Indian Affairs.....enterprises..									
24 acres irrigated.....									
25 State.....enterprises.....									
26 acres irrigated.....									
27 City.....enterprises.....									
28 acres irrigated.....									
29									
Use of surface, ground, pumped and stored water, 1948:									
Surface water:									
30 Gravity only.....enterprises reporting..			24				4	1	
31 acres irrigated..			62,263				45,123	70	
32 Pumped only.....enterprises reporting..	3	5	3	14	6		61	9	2
33 acres irrigated..	146	122	106	918	280		2,309	192	150
34 Gravity and pumped.....enterprises reporting..							1		
35 acres irrigated..							30		
36 Ground water only (pumped from wells).....enterprises reporting..	4	552	16	10	32	2	71	81	67
37 acres irrigated..	193	31,582	826	329	2,096	110	3,956	3,522	4,709
38 Surface (gravity or pumped) and ground water.....enterprises reporting..		4	5	2	3	1	9	1	
39 acres irrigated..		210	639	128	205	25	602	70	
Stored water:									
40 None stored.....enterprises reporting..	7	561	44	26	39	3	84	92	67
41 acres irrigated..	339	31,914	23,761	1,375	2,540	135	4,601	3,854	4,559
42 Part stored.....enterprises reporting..			4				3		2
43 acres irrigated..			40,073				45,069		300
44 All stored.....enterprises reporting..					2		59		
45 acres irrigated..					41		2,350		
Sources of surface water, 1948:⁵									
46 Streams (and lakes).....enterprises reporting..	3	7	29	15	7		73	10	2
47 acres irrigated..	146	238	62,883	996	444		47,972	262	150
48 Springs.....enterprises reporting..			4						
49 acres irrigated..			525						
50 Flowing wells.....enterprises reporting..				1			1	1	
51 acres irrigated..				50			35	70	
52 Drainage water.....enterprises reporting..		2	1	1	2		3		
53 acres irrigated..		94	9,029	50	41		89		
54 Sewage.....enterprises reporting..						1			
55 acres irrigated..						25			
56 Other sources.....enterprises reporting..									
57 acres irrigated..									
Drainage of irrigated land:⁶									
Irrigated land drained:									
58 Enterprises reporting.....enterprises 1949..		12	2		2		3	1	8
59 Area supplied primary irrigation.....acres 1949..		736	30,984		140		125	40	682
60 Area artificially drained.....acres 1949..		391	500		89		95	40	587
61 acres 1939..			4,164						(*)
Irrigated land in need of drainage:									
62 Enterprises reporting.....enterprises 1949..		19	4		1		16	1	5
63 Area supplied primary irrigation.....acres 1949..		1,382	40,001		52		994	30	290
64 Area in need of drainage.....acres 1949..		423	1,401		5		342	30	33
65 acres 1939..			400						

¹Not available.

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

³Farms or acres irrigated direct by 2 or more enterprises are counted for each enterprise.

⁴Data for less than 3 enterprises not shown separately.

⁵Data for less than 3 enterprises shown with permission of the enterprise.

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

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

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

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

Red Willow	Saline	Sarpy	Scotts Bluff	Seward	Sheridan	Sherman	Sioux	Stanton	Thayer	Valley	Webster	Wheeler	York	All other counties	
39	44	3	162	24	11	37	67	9	22	27	18	3	139	13	
53	13	(*)	124	26	10	5	52	7	5	14	13	(*)	15	(*)	
67	30	4	1,657	25	1	1	1	11	25	2	20	3	143	19	
1.7	0.7	1.3	10.2	1.0	10.5	2.8	4.0	1.2	1.1	8.7	1.1	1.0	1.0	1.5	
2.3	0.7	1.0	13.2	1.1	11.2	3.0	4.3	1.0	1.0	12.0	1.0	1.0	1.0	1.0	
4,446	1,266	187	181,429	1,424	11,246	5,459	30,886	500	1,432	17,488	800	105	10,906	624	
4,542	249	(*)	200,468	499	429	2,034	32,824	453	118	9,288	384	(*)	456	(*)	
66.4	42.2	46.8	109.5	57.0	96.9	52.0	114.8	45.5	57.3	74.1	40.0	35.0	76.3	32.8	
114	29	62	1,120	59	1,022	148	461	56	65	648	44	35	78	48	
124	29	62	1,150	59	1,022	152	472	56	65	651	44	35	78	48	
38	44	3	148	24	10	36	64	9	22	25	18	3	139	13	
2,091	1,266	187	5,349	1,424	746	1,331	9,432	500	1,432	1,088	800	105	10,906	624	
							2								14
							(3)								15
			3												16
			8,325												17
															18
			11			1	1			2					19
			172,642			(3)	(3)			(3)					20
1					1										21
2,731					10,500										22
															23
															24
															25
															26
															27
															28
															29
3			26	1	1	4	47		1	2			1	2	30
2,831			180,818	7	10,500	4,364	30,016		15	2,555			65	227	31
	24	1	17	10	3	7	4	2		5	4	1	13	4	32
	333	16	669	547	41	217	375	80		147	258	10	406	93	33
			2	2	1		4			1					34
			39	46	40		515			14,000					35
36	20	2	114	11	6	21	12	7	21	18	12	2	119	7	36
1,991	933	171	3,567	824	665	808	701	420	1,417	871	502	95	9,758	304	37
			3			5				1	2		6		38
			1,223			225				15	40		677		39
39	43	3	152	24	10	35	42	9	22	26	17	3	135	9	40
4,822	1,246	187	21,488	1,424	746	5,588	6,005	500	1,432	17,548	600	105	10,417	351	41
			8		1	1	9			1			3	3	42
			164,788		10,500	6	24,251			40			449	262	43
	1		2			1	16				1		1	1	44
	20		40			20	1,351				200		40	11	45
3	23	1	42	12	4	16	51	2	1	9	3	1	17	4	46
2,831	313	16	182,476	593	10,580	4,806	30,811	80	15	16,717	255	10	728	302	47
			2		1		3							1	48
			53		1		65							7	49
			2	3		1					2				50
			73	53		18					40				51
	1		5				1				1		3	2	52
	20		5,213				30				3		420	35	53
															54
															55
															56
															57
5	2		9	2		6	3		1	3			6		58
412	111		162,408	185		270	22,186		125	2,590			391		59
412	46		68,856	90		230	1,686		60	175			115		60
(*)		(*)	21,281	72		(*)	3,656	(*)		(*)	(*)	(*)	(*)	(*)	61
	6		10	2		3	5		1	4			9	1	62
	284		151,194	145		78	22,410		85	16,590			922	11	63
	27		6,647	18		39	1,008		3	1,120			233	2	64
(*)		(*)	5,792				1,279	(*)		(*)		(*)		(*)	65

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		The State	Adams	Antelope	Banner	Doone	Box Butte	Brown	Buffalo
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	342			6	15	7		3
2	dams 1950..	488			8	18	7		3
3	dams 1940..	351			4		5	9	3
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	92							
5	Timber.....dams 1950..	21							
6	Earth and rock.....dams 1950..	351			8	18	6		3
7	Other, mixed, and not reported.....dams 1950..	24							
8	Reservoirs.....enterprises reporting 1950..	87			2		2		2
9	reservoirs 1950..	114			3		2		2
10	reservoirs 1940..	164	3		2		2	1	31
11	Reservoirs for which capacity was reported.....reservoirs 1950..	96			3		2		2
12	total capacity, acre-feet 1950..	133,934			145		1,720		33
13	total capacity, acre-feet 1940..	2,306,159	10		(*)		(*)	(*)	454
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	70			3		1		2
15	100-999 acre-feet.....reservoirs 1950..	16							
16	1,000 acre-feet and over.....reservoirs 1950..	10					1		
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	3							
18	Earth and rock.....dams 1950..	96			3		2		1
19	Other, mixed, and not reported.....dams 1950..	15							1
20	Canals and ditches.....enterprises reporting 1950..	519	1	2	5	3	25	1	41
21	total length, miles 1950..	4,613	1	1	8	1	71	(1)	70
22	total length, miles 1940..	3,331	24		8	1	13		31
23	Pipelines and siphons ².....enterprises reporting 1950..	100	1	1	2	1			2
24	total length, miles 1950..	88		1	1	(1)			(1)
25	total length, miles 1940..	126	(1)			8		(1)	
26	Tunnels.....enterprises reporting 1950..	1							
27	total length, feet 1950..	6,600							
28	Flowing wells.....enterprises reporting 1950..	61	8	1		2			9
29	wells 1950..	89	9	2		2			13
30	wells 1940..	19							
31	Pumped wells.....enterprises reporting 1950..	4,910	81	12	10	68	65	20	497
32	wells 1950..	7,157	96	15	12	76	85	29	998
33	wells 1940..	2,412	13	2	2	6	19	12	587
34	Wells for which pumping lift was reported.....wells 1949..	6,790	95	14	12	71	82	28	959
35	Average pumping lift.....feet 1949..	46	120	70	35	56	108	48	35
36	Average pumping lift.....feet 1939..	34	60	(*)	(*)	56	78	39	27
37	Irrigation pumps.....enterprises reporting 1950..	5,322	81	13	11	87	65	21	508
38	pumps 1950..	7,734	95	16	14	106	89	29	1,002
39	pumping plants 1940..	2,664	16	9	2	24	19	17	537
40	Electric motors used for pumping.....enterprises reporting 1950..	1,254	5	1	2	23	35		289
41	electric motors 1950..	1,791	11	1	2	24	41		496
42	Other motors and engines used for pumping.....enterprises reporting 1950..	4,412	76	10	9	70	34	20	352
43	other motors and engines 1950..	5,721	85	13	10	83	50	27	495
Season of Irrigation, 1949:									
44	Water delivered only before July 1.....enterprises reporting..	34							
45	acres irrigated..	5,108							
46	Water delivered before and after July 1.....enterprises reporting..	999	11	1	15	5	52	10	31
47	acres irrigated..	605,953	914	1	1,668	392	11,952	1,067	8,787
48	Water delivered only after July 1.....enterprises reporting..	4,190	66	12		81	17	10	465
49	acres irrigated..	292,501	4,525	445		6,002	2,085	591	42,224
Capital investment:									
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	39,056,207	24,475	3,185	10,700	17,427	51,250	13,331	644,728
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	4,109	76	11	7	82	58	20	349
52	Amount.....dollars 1950..	17,407,674	400,141	31,600	18,318	225,389	658,433	75,674	805,128
53	Area irrigated direct.....acres 1949..	506,769	5,176	405	781	6,064	9,756	1,717	38,290
54	Total capital investment Jan. 1, 1950.....dollars 1950..	56,463,881	424,616	34,785	29,018	242,816	709,683	89,005	1,449,898
Indebtedness:³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	31							1
56	Amount.....dollars 1950..	18,911,386							70,500
57	Amount.....dollars 1940..	21,777,368							53,581
58	Area irrigated direct.....acres 1949..	414,043							2,500
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
59	Enterprises reporting.....enterprises 1950..	7							
60	Amount.....dollars 1950..	457,418							
61	Area irrigated direct.....acres 1949..	132,849							

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Dundy	Fillmore	Franklin	Frontier	Furnas	Gage	Garden	Garfield
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	1	1	2	.....	1	.....	13	1
2	.....dams 1950..	1	1	2	.....	1	.....	13	1
3	.....1940..	6	.....	6	.....	.....	1	10	1
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	.....	.....	1	.....	.....	.....	7	1
5	Timber.....dams 1950..	.....	.....	.....	.....	.....	.....	2	.....
6	Earth and rock.....dams 1950..	1	.....	1	.....	.....	.....	4	.....
7	Other, mixed, and not reported.....dams 1950..	.....	1	.....	.....	1	.....	.....	.....
Reservoirs.....enterprises reporting 1950..									
8	.....reservoirs 1950..	2	.....	3	.....	2	.....	.....	.....
9	.....1940..	1	.....	1	.....	2	.....	1	.....
10	Reservoirs for which capacity was reported.....reservoirs 1950..	.....	.....	2	.....	2	.....	1	.....
11	.....total capacity, acre-feet 1950..	.....	.....	200	.....	210	.....	.....	.....
12	.....1940..	(*)	.....	(*)	.....	.....	(*)	(*)	.....
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	.....	.....	1	.....	.....	.....	.....	.....
15	100-999 acre-feet.....reservoirs 1950..	.....	.....	1	.....	2	.....	.....	.....
16	1,000 acre-feet and over.....reservoirs 1950..	.....	.....	.....	.....	.....	.....	.....	.....
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....
18	Earth and rock.....dams 1950..	1	.....	2	.....	2	.....	.....	.....
19	Other, mixed, and not reported.....dams 1950..	.....	.....	1	.....	.....	.....	.....	.....
Canals and ditches.....enterprises reporting 1950..									
20	.....total length, miles 1950..	4	(1)	15	.....	5	.....	12	3
21	.....1940..	12	.....	11	.....	4	.....	82	34
22	.....1940..	28	.....	5	.....	.....	2	71	12
Pipelines and siphons ².....enterprises reporting 1950..									
23	.....total length, miles 1950..	.....	2	4	.....	2	.....	1	2
24	.....1950..	.....	1	1	.....	1	.....	.....	1
25	.....1940..	(1)	.....	(1)	(1)	.....	2	(1)	1
Tunnels.....enterprises reporting 1950..									
26	.....total length, feet 1950..	.....	.....	.....	.....	.....	.....	.....	.....
Flowing wells.....enterprises reporting 1950..									
28	.....wells 1950..	4	1	.....	.....	1	.....	.....	.....
29	.....1950..	6	1	.....	.....	2	.....	.....	.....
30	.....1940..	.....	.....	.....	.....	.....	.....	.....	.....
Pumped wells.....enterprises reporting 1950..									
31	.....wells 1950..	19	48	31	3	39	1	19	13
32	.....1950..	22	51	39	3	43	1	19	14
33	.....1940..	4	3	16	.....	14	1	8	1
34	Wells for which pumping lift was reported.....wells 1949..	18	44	35	3	42	1	19	12
35	Average pumping lift.....feet 1949..	47	89	65	132	50	35	36	48
36	.....1939..	65	125	49	.....	42	(*)	26	(*)
Irrigation pumps.....enterprises reporting 1950..									
37	.....pumps 1950..	21	48	37	3	48	3	19	16
38	.....1950..	24	59	48	4	55	3	19	18
39	.....1940..	5	3	15	5	25	11	8	4
Electric motors used for pumping.....enterprises reporting 1950..									
40	.....electric motors 1950..	1	1	1	.....	3	.....	.....	1
41	.....1950..	1	1	1	.....	5	.....	.....	1
Other motors and engines used for pumping.....enterprises reporting 1950..									
42	.....other motors and engines 1950..	19	47	35	2	45	3	19	14
43	.....1950..	21	57	44	3	49	3	20	16
Season of irrigation, 1949:									
Water delivered only before July 1.....enterprises reporting..									
44	.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
45	Water delivered before and after July 1.....enterprises reporting..	15	7	8	.....	12	.....	19	2
46	.....acres irrigated..	3,562	421	348	65	694	104	10,447	3,857
47	Water delivered only after July 1.....enterprises reporting..	10	35	30	2	36	2	13	13
48	.....acres irrigated..	439	2,405	1,780	290	1,834	100	533	623
Capital investment:									
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..									
50	.....1940..	79,775	5,000	22,313	1,167	20,123	21,170	135,159	263,388
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
51	Enterprises reporting.....enterprises 1950..	19	41	22	3	40	3	13	16
52	Amount.....dollars 1950..	52,138	149,161	67,190	21,493	85,560	6,050	19,228	99,720
53	Area irrigated direct.....acres 1949..	946	2,742	1,524	355	2,272	204	2,837	4,469
54	Total capital investment Jan. 1, 1950.....dollars 1950..	131,913	154,161	89,503	22,660	105,683	27,220	154,387	363,108
Indebtedness: ³									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
55	Enterprises reporting.....enterprises 1950..	1	.....	.....	.....	.....	.....	2	1
56	Amount.....dollars 1950..	3,300	.....	.....	.....	.....	.....	3,088	221,056
57	.....1940..	10,420	.....	.....	.....	.....	.....	25,101	155,300
Area irrigated direct.....acres 1949..									
58	Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:	1,624	.....	.....	.....	.....	.....	1,730	3,800
59	Enterprises reporting.....enterprises 1950..	.....	.....	.....	.....	.....	.....	.....	1
60	Amount.....dollars 1950..	.....	.....	.....	.....	.....	.....	.....	62,296
61	Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	3,800

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)		Madison	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk
ALL ENTERPRISES										
Irrigation works:										
1	Diversion dams.....enterprises reporting 1950..		1	23	2	1		2	1	1
2	Diversion dams.....dams 1950..		1	28	4	1		2	1	1
3	Diversion dams.....dams 1940..			32					1	2
Diversion dams by material:										
4	Concrete or masonry.....dams 1950..			16	1					
5	Timber.....dams 1950..		1	5						
6	Earth and rock.....dams 1950..		1	6	3	1		2	1	1
7	Other, mixed, and not reported.....dams 1950..			1						
8	Reservoirs.....enterprises reporting 1950..			1		2		2		2
9	Reservoirs.....reservoirs 1950..			2		2		2		4
10	Reservoirs.....reservoirs 1940..		2	3		4				4
11	Reservoirs for which capacity was reported.....reservoirs 1950..			2		1		2		4
12	Reservoirs.....total capacity, acre-feet 1950..			24		30		27		190
13	Reservoirs.....total capacity, acre-feet 1940..		(*)	238		264				
Reservoirs by capacity:										
14	1-99 acre-feet.....reservoirs 1950..			2		1		2		4
15	100-999 acre-feet.....reservoirs 1950..									
16	1,000 acre-feet and over.....reservoirs 1950..									
Reservoir dams by material:										
17	Concrete or masonry.....dams 1950..									
18	Earth and rock.....dams 1950..			2		1		2		3
19	Other, mixed, and not reported.....dams 1950..					1				1
20	Canals and ditches.....enterprises reporting 1950..	1	72	25	9	10	1	1	8	28
21	Canals and ditches.....total length, miles 1950..	1	93	516	28	6	(1)	382	11	32
22	Canals and ditches.....total length, miles 1940..			454				152		
23	Pipelines and siphons ².....enterprises reporting 1950..	2	8	2	1	1	1			6
24	Pipelines and siphons ².....total length, miles 1950..	1	1	1	1	1	1			2
25	Pipelines and siphons ².....total length, miles 1940..	2	(1)	2	1			(1)		(1)
26	Tunnels.....enterprises reporting 1950..									
27	Tunnels.....total length, feet 1950..									
28	Flowing wells.....enterprises reporting 1950..				1			1	1	
29	Flowing wells.....wells 1950..				2			3	1	
30	Flowing wells.....wells 1940..									
31	Pumped wells.....enterprises reporting 1950..	4	555	21	12	35	3	81	81	68
32	Pumped wells.....wells 1950..	4	924	25	17	38	3	96	90	78
33	Pumped wells.....wells 1940..	9	77	13	2	3	3	61	15	3
34	Wells for which pumping lift was reported.....wells 1949..	4	892	24	15	30	3	96	62	67
35	Wells for which pumping lift was reported.....average pumping lift, feet 1949..	56	27	33	37	86	52	43	27	73
36	Wells for which pumping lift was reported.....average pumping lift, feet 1939..	37	24	44			72	30	36	96
37	Irrigation pumps.....enterprises reporting 1950..	7	555	24	26	41	3	143	89	69
38	Irrigation pumps.....pumps 1950..	8	932	33	35	48	3	167	96	81
39	Irrigation pumps.....pumps 1940..	16	71	16	4	7	3	54	19	7
40	Electric motors used for pumping.....enterprises reporting 1950..		47	1	3	7	1	28	15	7
41	Electric motors used for pumping.....electric motors 1950..		90	1	3	9	1	28	18	9
42	Other motors and engines used for pumping.....enterprises reporting 1950..	7	503	24	24	34	2	116	72	63
43	Other motors and engines used for pumping.....other motors and engines 1950..	8	769	30	30	38	2	131	77	71
Season of irrigation, 1949:										
44	Water delivered only before July 1.....enterprises reporting.....acres irrigated.....									
45	Water delivered before and after July 1.....enterprises reporting.....acres irrigated.....		11	45	2	1	2	38	2	4
46	Water delivered before and after July 1.....enterprises reporting.....acres irrigated.....		588	63,792	80	35	120	47,093	36	440
47	Water delivered only after July 1.....enterprises reporting.....acres irrigated.....		7	3	23	38	1	102	61	63
48	Water delivered only after July 1.....enterprises reporting.....acres irrigated.....	339	30,947	42	1,295	2,486	15	4,832	2,733	4,259
Capital investment:										
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	25,242	56,298	4,096,708	6,290	4,130	10,200	5,776,493	11,560	8,313
New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
51	Enterprises reporting.....enterprises 1950..	4	495	12	22	37	2	127	48	62
52	Amount.....dollars 1950..	5,040	807,903	27,710	59,070	139,082	3,600	445,627	75,747	195,420
53	Area irrigated direct.....acres 1949..	178	29,222	623	1,215	2,468	120	51,219	2,018	4,387
54	Total capital investment Jan. 1, 1950.....dollars 1950..	30,282	864,201	4,124,418	65,360	143,212	13,800	6,222,120	87,307	203,733
Indebtedness: ³										
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
55	Enterprises reporting.....enterprises 1950..			11				1		
56	Amount.....dollars 1950..			2,030,390				1,719,951		
57	Amount.....dollars 1940..			2,144,855				3,930,983		
58	Area irrigated direct.....acres 1949..			59,237				45,000		
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
59	Enterprises reporting.....enterprises 1950..			3						
60	Amount.....dollars 1950..			30,931						
61	Area irrigated direct.....acres 1949..			21,264						

*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.

BY COUNTIES: CENSUSES OF 1950 AND 1940—Continued

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

Red Willow	Saline	Sarpy	Scotts Bluff	Seward	Sheridan	Sherman	Sioux	Stanton	Thayer	Valley	Webster	Wheeler	York	All other counties
3	1		24		1	4	37		1	1	2		49	2
3	1		26		2	4	70		2	1	2		50	3
1	4	(*)	17				51			2	1	(*)	1	(*)
			12				6		2	1				
			2				2							
2	1		11		2	4	60				2		50	2
1			1				2							1
	1		3			1	27			1	1		2	4
	1		5			1	43			1	1		3	6
		(*)	8		1		24				1	(*)		(*)
	1		5				39			1	1		3	3
	50		75,678				4,397			10	126		42	43
		(*)	75,171		(*)		1,172				(*)	(*)		(*)
	1		2				29			1			3	3
			3				7				1			
							3							
							1							
	1		5			1	38				1		3	5
							4			1				1
5	3		31	5	2	4	17	3	9	4	1		6	3
20	2		1,349	4	53	4	243	2	8	110	1		4	4
16		(*)	898		1	64	317	1		80		(*)	1	(*)
	1		7	1	2				6	1	1		1	2
(1)	(1)	(*)	4	(1)	(1)				28	1	(1)		(1)	1
		(*)	15		1	3	1		3	6	1	(*)	(1)	(*)
			1											
			6,600											
			2								2			
			3	6		1					3			
		(*)		19								(*)		(*)
36	20	2	116	11	6	26	12	7	21	19	14		125	7
43	20	4	161	12	7	34	14	8	21	20	15	2	134	7
49		(*)	64		6		7	4		7	8	(*)	8	(*)
38	20	4	159	12	6	30	14	6		19	15	2	129	4
52	100	22	30	94	100	74	84	73	10	68	52	48	99	40
34		(*)	28	11	49		57	50		78	45	(*)	49	(*)
36	44	3	122	23	10	32	19	9	21	25	18	3	137	11
43	45	5	168	31	12	37	22	10	21	28	19	3	159	12
56	13	(*)	102	13	11	4	10	8	5	12	11	(*)	16	(*)
6	1	2	45	3	1		3		1	1			8	1
1	4	4	52	3	1		3		1	2			8	1
30	43	1	91	23	9	33	13	9	21	19	18	3	130	10
36	44	1	114	28	10	37	15	10	21	20	19	3	148	12
							22							2
							3,570							21
8	2	1	92	3	11	8	34	1	5	2	4		15	5
3,033	40	16	184,778	126	11,246	4,593	27,386	150	304	16,500	152		1,404	499
24	28	2	34	20		28	10	8	15	24	13	2	121	6
1,444	1,225	171	1,354	1,248		1,011	651	350	853	1,040	648	75	9,327	104
149,373	4,033	(*)	12,660,249	6,275	10,180	577,218	2,692,600	9,295	4,690	1,254,254	8,772	(*)	16,484	(*)
17	35	2	73	20	7	28	37	1	22	19	13	3	123	8
129,546	97,840	1,084	165,951	65,059	865,266	126,811	72,060	400	104,835	159,816	35,868	10,023	525,380	25,000
3,713	1,157	171	37,784	1,330	11,060	5,392	4,974	15	1,432	17,137	475	105	10,124	412
278,919	101,873	(*)	12,826,200	71,334	875,446	704,029	2,764,660	9,695	109,525	1,414,070	44,640	(*)	541,864	(*)
1			7		1	1	1			2				
101,376			7,210,876		846,300	42,000	1,222,143			846,818				
		(*)	7,699,900			590,844	1,685,541			853,377		(*)		(*)
2,731			159,263		10,500	4,283	22,000			16,500				
			3				1			1				
			65,929				11,471			231,878				
			68,383				22,000			14,000				

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Dams	Antelope	Banner	Boone	Box Butte	Brown	Buffalo
ALL ENTERPRISES								
Cost of water to farms, 1949:¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	5,338	80	12	15	88	70	21	524
2 Cost.....dollars..	3,012,244	30,335	2,026	5,564	22,970	61,067	9,832	162,776
3 Area irrigated direct.....acres..	913,792	5,619	446	1,668	6,444	14,277	1,718	52,549
4 Cost per acre irrigated direct.....dollars..	3.30	5.40	4.54	3.34	3.56	4.26	5.14	3.10
5 Total cost per irrigated acre.....dollars..	3.46	5.46	4.54	3.34	3.56	4.26	5.14	3.13
6 Total cost per acre-foot of water ².....dollars..	1.79	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	712	6	1	5	3	6	2	20
8 Cost.....acres irrigated..	95,840	440	15	703	302	3,690	110	2,266
9 \$1.00-\$1.99.....enterprises reporting..	1,060	7	3	1	13	1	.....	125
10 Cost.....acres irrigated..	134,043	476	95	120	1,146	150	.....	13,950
11 \$2.00-\$4.99.....enterprises reporting..	2,482	30	4	6	50	32	0	295
12 Cost.....acres irrigated..	555,779	3,047	227	459	4,003	5,692	888	30,850
13 \$5.00-\$9.99.....enterprises reporting..	827	16	1	2	14	22	8	67
14 Cost.....acres irrigated..	115,424	1,009	60	87	663	4,034	664	4,860
15 \$10.00 and over.....enterprises reporting..	298	13	3	1	8	9	2	14
16 Cost.....acres irrigated..	12,707	643	40	300	330	711	56	614
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	5,167	80	12	15	98	70	21	522
18 Cost.....dollars..	2,943,605	30,335	2,026	5,564	22,970	61,067	8,832	158,133
19 Area supplied primary irrigation.....acres..	887,239	5,619	446	1,668	6,444	14,277	1,718	51,156
20 Cost per acre supplied.....dollars..	3.32	5.40	4.54	3.34	3.56	4.28	5.14	3.00
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..	257	.....	.....	.....	.....	.....	.....	3
22 Cost.....dollars..	68,639	.....	.....	.....	.....	.....	.....	4,643
23 Area supplied supplemental irrigation.....acres..	26,553	.....	.....	.....	.....	.....	.....	1,393
24 Cost per acre supplied.....dollars..	2.58	.....	.....	.....	.....	.....	.....	3.33
Cost to farms for purposes other than operation and maintenance: ⁴								
25 Enterprises reporting.....enterprises..	14	.....	.....	.....	.....	.....	.....	1
26 Cost.....dollars..	489,106	.....	.....	.....	.....	.....	.....	3,125
27 Area irrigated direct.....acres..	312,045	.....	.....	.....	.....	.....	.....	2,500
28 Cost per acre irrigated.....dollars..	1.57	.....	.....	.....	.....	.....	.....	1.25
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29 Enterprises reporting.....enterprises..	16	.....	.....	.....	.....	.....	.....	1
30 Amount.....dollars..	213,177	.....	.....	.....	.....	.....	.....	1,390
31 Area irrigated direct.....acres..	250,044	.....	.....	.....	.....	.....	.....	2,500
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	5,515	81	13	15	89	70	21	523
33 Area irrigated.....acres..	405,631	5,619	446	1,668	6,444	14,277	1,718	49,387
34 Complete-system enterprises ⁵.....enterprises..	5,148	80	12	15	88	70	21	502
35 Area irrigated.....acres..	392,747	5,619	446	1,668	6,444	14,277	1,718	47,135
Other farms irrigated:								
36 Enterprises reporting.....number..	99	.....	.....	.....	3	5	2	7
37 Number of other farms.....farms..	115	.....	.....	.....	3	9	2	8
38 Area irrigated in other farms.....acres..	5,570	.....	.....	.....	82	917	84	259
Enterprises by origin of water supply: ⁵								
39 No water from other enterprises.....enterprises reporting..	5,344	81	13	15	89	70	21	503
40 Cost.....acres irrigated..	393,247	5,619	416	1,668	6,444	14,277	1,718	47,135
41 Part of water from other enterprises.....enterprises reporting..	53	.....	.....	.....	.....	.....	.....	7
42 Cost.....acres irrigated..	6,127	.....	.....	.....	.....	.....	.....	945
43 All of water from other enterprises.....enterprises reporting..	118	.....	.....	.....	.....	.....	.....	13
44 Cost.....acres irrigated..	6,257	.....	.....	.....	.....	.....	.....	1,307
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	5,096	80	12	15	88	70	21	500
46 Cost.....acres irrigated..	398,700	5,619	446	1,668	6,444	14,277	1,718	48,963
47 Part primary, part supplemental.....enterprises reporting..	11	.....	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	665	.....	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	700	.....	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	221	.....	.....	.....	.....	.....	.....	2
51 Cost.....acres irrigated..	15,566	.....	.....	.....	.....	.....	.....	424
Enterprises by number of acres irrigated: ⁵								
52 None.....enterprises reporting..	193	1	1	.....	.....	.....	.....	1
53 1-9 acres.....enterprises reporting..	180	1	1	.....	.....	.....	1	11
54 10-29 acres.....enterprises reporting..	812	2	4	.....	.....	10	3	75
55 30-59 acres.....enterprises reporting..	1,581	24	5	3	.....	28	5	64
56 60-99 acres.....enterprises reporting..	1,444	30	2	9	31	11	6	144
57 100-199 acres.....enterprises reporting..	1,030	14	.....	2	17	36	3	167
58 200-499 acres.....enterprises reporting..	233	2	.....	2	1	12	2	34
59 500-999 acres.....enterprises reporting..	24	.....	.....	.....	1	2	.....	4
60 1,000 acres or more.....enterprises reporting..	4	.....	.....	.....	.....	2	.....	.....

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Dundy	Fillmore	Franklin	Frontier	Furnas	Gage	Garden	Garfield
ALL ENTERPRISES								
Cost of water to farms, 1949: ¹								
Total cost of water to farms:								
1 Enterprises reporting.....enterprises..	25	48	39	3	49	3	31	15
2 Cost.....dollars..	16,593	6,835	6,646	1,167	9,581	450	12,915	19,069
3 Area irrigated direct.....acres..	4,001	3,095	2,168	355	2,577	204	10,980	4,480
4 Cost per acre irrigated direct.....dollars..	4.15	2.21	3.07	3.29	3.72	2.21	1.18	4.24
5 Total cost per irrigated acre.....dollars..	4.15	2.21	3.17	3.29	4.02	2.21	1.25	4.42
6 Total cost per acre-foot of water ².....dollars..	(3)	(3)	(3)	(3)	(3)	(3)	0.60	(3)
Enterprises by cost per acre:								
7 Less than \$1.00.....enterprises reporting..	6	9	7		7		7	3
8 acres irrigated..	1,481	570	326		291		2,881	106
9 \$1.00-\$1.99.....enterprises reporting..		15	7		7	2	13	3
10 acres irrigated..		986	329		688	184	6,746	202
11 \$2.00-\$4.99.....enterprises reporting..	8	21	20	2	21		9	6
12 acres irrigated..	329	1,379	1,275	275	1,082		1,323	4,047
13 \$5.00-\$9.99.....enterprises reporting..	10	2	2	1	12	1	1	3
14 acres irrigated..	2,081	110	70	80	416	20	20	125
15 \$10.00 and over.....enterprises reporting..	1	1	3		2		1	
16 acres irrigated..	110	50	158		100		10	
Cost of water for primary irrigation:								
17 Enterprises reporting.....enterprises..	25	48	38	3	49	3	21	14
18 Cost.....dollars..	16,593	6,835	6,446	1,167	9,212	450	11,861	18,330
19 Area supplied primary irrigation.....acres..	4,001	3,095	2,098	355	2,384	204	10,355	4,302
20 Cost per acre supplied.....dollars..	4.15	2.21	3.07	3.29	3.86	2.21	1.15	4.26
Cost of water for supplemental irrigation:								
21 Enterprises reporting.....enterprises..			1		1		17	2
22 Cost.....dollars..			200		369		1,054	679
23 Area supplied supplemental irrigation.....acres..			70		193		625	178
24 Cost per acre supplied.....dollars..			2.86		1.91		1.69	3.81
Cost to farms for purposes other than operation and maintenance: ⁴								
25 Enterprises reporting.....enterprises..								
26 Cost.....dollars..								
27 Area irrigated direct.....acres..								
28 Cost per acre irrigated.....dollars..								
Arrearage in payments by farms, Jan. 1, 1950: ⁴								
29 Enterprises reporting.....enterprises..								1
30 Amount.....dollars..								3,596
31 Area irrigated direct.....acres..								3,890
SINGLE-FARM ENTERPRISES, 1950								
32 Single-farm enterprises.....enterprises..	24	48	39	3	49	3	22	16
33 Area irrigated.....acres..	2,377	3,095	2,168	355	2,577	204	876	680
34 Complete-system enterprises ⁵.....enterprises..	23	48	39	3	49	3	19	14
35 Area irrigated.....acres..	2,347	3,095	2,168	355	2,577	204	832	680
Other farms irrigated:								
36 Enterprises reporting.....number..		3			3			
37 Number of other farms.....farms..		4			3			
38 Area irrigated in other farms.....acres..		157			180			
Enterprises by origin of water supply: ⁵								
39 No water from other enterprises.....enterprises reporting..	23	48	39	3	49	3	19	16
40 acres irrigated..	2,347	3,095	2,168	355	2,577	204	832	680
41 Part of water from other enterprises.....enterprises reporting..	1						2	
42 acres irrigated..	30						25	
43 All of water from other enterprises.....enterprises reporting..							1	
44 acres irrigated..							19	
Enterprises by primary and supplemental irrigation:								
45 All primary.....enterprises reporting..	24	48	38	3	48	3	10	13
46 acres irrigated..	2,377	3,095	2,098	355	2,104	204	409	660
47 Part primary, part supplemental.....enterprises reporting..							2	
48 Primary irrigation.....acres irrigated..					200		38	
49 Supplemental irrigation.....acres irrigated..					193		62	
50 All supplemental.....enterprises reporting..			1				10	1
51 acres irrigated..			70				367	11
Enterprises by number of acres irrigated: ⁵								
52 None.....enterprises reporting..								2
53 1-9 acres.....enterprises reporting..		2	4		2		1	
54 10-29 acres.....enterprises reporting..	6	4	10		17	1	10	6
55 30-59 acres.....enterprises reporting..	10	10	7		15		6	3
56 60-99 acres.....enterprises reporting..	4	26	14	2	13	1	4	4
57 100-199 acres.....enterprises reporting..	2	6	3		1	1		1
58 200-499 acres.....enterprises reporting..	1		1	1	1		1	
59 500-999 acres.....enterprises reporting..	1							
60 1,000 acres or more.....enterprises reporting..								

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

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

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

Gosper	Greeley	Hall	Hamilton	Harlan	Hayes	Hitchcock	Howard	Kearney	Keith	Kimball	Lancaster	Lincoln	Loup
24	52	704	220	45	10	31	42	123	110	53	3	197	19
20,188	15,050	193,957	73,373	7,056	3,355	23,428	9,892	88,060	49,493	32,520	595	84,375	14,478
6,929	3,867	56,890	20,490	2,646	1,485	11,100	1,824	29,718	24,794	9,418	84	47,388	3,393
2.91	3.89	3.41	3.58	2.67	2.26	2.11	5.42	2.96	2.00	3.45	7.08	1.78	4.27
(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	0.94	(3)	(3)	1.10	(3)
2	3	33	22	4	6	6	.....	12	21	8	.....	39	2
175	146	2,828	2,402	375	568	490	.....	1,272	11,956	1,580	.....	10,059	150
6	10	107	43	8	.....	5	.....	29	21	5	.....	37	2
370	779	8,751	4,309	475	.....	8,836	.....	2,142	5,446	786	.....	25,051	173
14	21	426	97	27	3	12	19	62	42	18	1	71	7
6,305	2,139	37,325	9,525	1,587	884	1,457	1,019	25,353	5,320	4,521	20	10,171	2,838
2	11	110	44	5	.....	4	16	17	16	18	2	38	5
79	545	7,065	3,307	164	.....	235	579	884	1,271	2,266	64	1,950	187
.....	7	28	14	1	1	4	5	3	10	4	.....	12	3
.....	258	921	947	45	33	82	111	67	801	265	.....	157	45
24	49	703	220	45	10	31	42	123	86	46	3	158	19
20,188	14,859	193,957	73,373	7,056	3,355	23,258	9,892	88,060	35,157	29,133	595	80,609	14,478
6,929	3,717	56,850	20,490	2,646	1,485	11,005	1,824	29,718	18,891	8,495	84	45,213	3,393
2.91	4.00	3.41	3.58	2.67	2.26	2.11	5.42	2.96	1.86	3.43	7.08	1.78	4.27
.....	3	1	.....	.....	.....	1	.....	.....	25	8	.....	39	.....
.....	191	300	.....	.....	.....	170	.....	.....	14,336	3,387	.....	3,766	.....
.....	150	40	.....	.....	.....	95	.....	.....	5,903	923	.....	2,175	.....
.....	1.27	7.50	.....	.....	.....	1.79	.....	.....	2.43	3.67	.....	1.73	.....
1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
5,841	.....	.....	.....	.....	.....	.....	.....	23,363	.....	.....	.....	.....	.....
5,000	.....	.....	.....	.....	.....	.....	.....	20,000	.....	.....	.....	.....	.....
1.17	.....	.....	.....	.....	.....	.....	.....	1.17	.....	.....	.....	.....	.....
1	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....	2	2
4,854	600	.....	.....	.....	.....	.....	.....	19,415	.....	29	.....	5,099	3,897
5,000	697	.....	.....	.....	.....	.....	.....	20,000	.....	2,245	.....	6,812	2,705
23	55	706	221	45	10	29	45	124	107	52	3	235	18
1,929	3,170	56,890	20,490	2,646	1,485	2,177	1,824	9,718	13,776	7,173	84	12,195	688
17	50	704	219	45	10	29	42	118	106	31	3	178	17
1,645	3,110	56,890	20,435	2,646	1,485	2,177	1,824	9,374	13,776	4,613	84	11,360	688
.....	.....	4	12	.....	1	.....	.....	3	7	.....	.....	1	1
.....	.....	4	12	.....	3	.....	.....	3	8	.....	.....	1	1
.....	.....	145	430	.....	220	.....	.....	132	593	.....	.....	50	12
17	54	706	220	45	10	29	45	120	107	31	3	225	18
1,645	3,110	56,890	20,435	2,646	1,485	2,177	1,824	9,374	13,776	4,613	84	11,360	688
.....	1	.....	.....	.....	.....	.....	.....	4	.....	17	.....	1	.....
.....	60	.....	.....	.....	.....	.....	.....	344	.....	2,396	.....	84	.....
6	.....	.....	1	.....	.....	.....	.....	.....	.....	4	.....	10	.....
284	.....	.....	55	.....	.....	.....	.....	.....	.....	164	.....	751	.....
23	48	703	220	45	10	28	42	122	82	45	3	151	17
1,929	3,020	56,850	20,490	2,646	1,485	2,037	1,824	9,718	10,000	6,408	84	10,020	688
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	45	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	95	.....	.....	.....	.....	.....	.....	.....
.....	3	1	.....	.....	.....	.....	.....	.....	24	7	.....	39	.....
.....	150	40	.....	.....	.....	.....	.....	.....	3,776	765	.....	2,175	.....
.....	4	2	1	.....	.....	.....	.....	3	2	.....	.....	46	1
1	1	18	2	.....	.....	1	.....	2	4	2	1	17	.....
1	7	69	8	.....	9	.....	.....	4	14	8	1	37	9
6	20	241	30	20	.....	3	.....	9	15	31	.....	58	4
9	13	185	103	10	4	7	9	24	24	19	1	48	3
5	10	151	67	5	2	6	1	47	34	13	.....	22	1
1	.....	36	10	1	.....	2	.....	2	18	9	.....	7	.....
.....	.....	4	.....	.....	1	.....	.....	.....	2	2	.....	1	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Madison	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk
ALL ENTERPRISES									
Cost of water to farms, 1949:¹									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	7	540	48	25	41	3	143	90	69
Cost.....dollars..	719	97,465	100,032	4,355	9,117	176	157,353	6,647	12,352
Area irrigated direct.....acres..	339	31,914	63,834	1,375	2,581	135	52,020	3,854	4,859
Cost per acre irrigated direct.....dollars..	2.12	3.05	2.95	3.17	3.53	1.30	3.02	1.72	2.54
Total cost per irrigated acre.....dollars..	2.12	3.05	2.99	3.17	3.53	1.30	3.03	1.72	2.54
Total cost per acre-foot of water ².....dollars..	(³)	(³)	1.30	(³)	(³)	(³)	(³)	(³)	(³)
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..		73	16	2	3		12	35	4
.....acres irrigated..		3,899	7,994	118	179		598	1,582	645
\$1.00-\$1.99.....enterprises reporting..	3	125	10	6	9		31	24	25
.....acres irrigated..	195	7,892	9,970	248	619	120	2,078	1,151	1,860
\$2.00-\$4.99.....enterprises reporting..	4	259	14	12	21	1	73	19	31
.....acres irrigated..	144	16,353	45,525	801	1,371	15	48,472	864	1,971
\$5.00-\$9.99.....enterprises reporting..		60	6	5	6		20	7	6
.....acres irrigated..		2,805	265	208	317		746	235	303
\$10.00 and over.....enterprises reporting..		23	2		2		7	5	3
.....acres irrigated..		965	80		95		126	22	69
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	7	540	45	25	41	3	141	90	69
Cost.....dollars..	719	97,405	186,707	4,355	9,117	176	157,288	6,647	12,352
Area supplied primary irrigation.....acres..	339	31,914	62,973	1,375	2,581	135	51,985	3,854	4,859
Cost per acre supplied.....dollars..	2.12	3.05	2.96	3.17	3.53	1.30	3.03	1.72	2.54
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..			8				2		
Cost.....dollars..			1,325				65		
Area supplied supplemental irrigation.....acres..			861				35		
Cost per acre supplied.....dollars..			1.54				1.86		
Cost to farms for purposes other than operation and maintenance:⁴									
Enterprises reporting.....enterprises..			8				1		
Cost.....dollars..			49,749				53,402		
Area irrigated direct.....acres..			55,455				45,000		
Cost per acre irrigated.....dollars..			0.96				1.19		
Arrearage in payments by farms, Jan. 1, 1950:⁴									
Enterprises reporting.....enterprises..			6				1		
Amount.....dollars..			61,479				44,378		
Area irrigated direct.....acres..			27,838				45,000		
SINGLE-FARM ENTERPRISES, 1950									
Single-farm enterprises.....enterprises..	7	561	33	26	41	3	145	92	69
Area irrigated.....acres..	339	31,914	2,904	1,375	2,581	135	7,020	3,854	4,859
Complete-system enterprises ⁵.....enterprises..	7	540	31	25	41	3	75	90	69
Area irrigated.....acres..	339	31,914	2,547	1,375	2,581	135	4,243	3,854	4,859
Other farms irrigated:									
Enterprises reporting.....number..		1	2	1	2				
Number of other farms.....farms..		4	2	1	3				
Area irrigated in other farms.....acres..		40	544	70	125				
Enterprises by origin of water supply:⁵									
No water from other enterprises.....enterprises reporting..	7	561	31	26	41	3	80	92	69
.....acres irrigated..	339	31,914	2,547	1,375	2,581	135	4,543	3,854	4,859
Part of water from other enterprises.....enterprises reporting..			1				5		
.....acres irrigated..			396				342		
All of water from other enterprises.....enterprises reporting..			1				60		
.....acres irrigated..			61				2,135		
Enterprises by primary and supplemental irrigation:									
All primary.....enterprises reporting..	7	540	30	25	41	3	140	90	69
.....acres irrigated..	339	31,914	2,861	1,375	2,581	135	6,985	3,854	4,859
Part primary, part supplemental.....enterprises reporting..									
.....acres irrigated..									
Supplemental irrigation.....acres irrigated..									
All supplemental.....enterprises reporting..			3				2		
.....acres irrigated..			133				35		
Enterprises by number of acres irrigated:⁵									
None.....enterprises reporting..		21		1			3	2	
1-9 acres.....enterprises reporting..		20		1	1		3	8	1
10-29 acres.....enterprises reporting..	1	95	8	5	6	2	42	17	7
30-59 acres.....enterprises reporting..	4	216	10	11	11		55	45	22
60-99 acres.....enterprises reporting..	2	125	7	4	18	1	29	16	24
100-199 acres.....enterprises reporting..		76	4	4	5		11	4	13
200-499 acres.....enterprises reporting..		14	4				2		2
500-999 acres.....enterprises reporting..									
1,000 acres or more.....enterprises reporting..									

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 acres represents acreage within the county or State.

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

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

Table with columns for counties: Red Willow, Saline, Sarpy, Scotts Bluff, Seward, Sheridan, Sherman, Sioux, Stanton, Thayer, Valley, Webster, Wheeler, York, All other counties. Rows contain numerical data points for various characteristics across these counties.

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	Dawson	Garden	Keith	Lincoln
MULTIPLE-FARM ENTERPRISES, 1950						
1	Multiple-farm enterprises, total number ².....enterprises..	68	8	10	5	10
2	Area irrigated direct.....acres..	508,161	48,239	10,104	11,018	35,193
3	Multiple-purpose enterprises ².....enterprises..	4	2	.....	1	3
4	Area irrigated direct.....acres..	83,062	12,400	.....	.....	.....
5	Complete-system enterprises ².....enterprises..	48	3	9	4	7
6	Area irrigated direct.....acres..	185,859	35,200	10,104	11,018	33,881
Enterprises by origin of water supply:²						
7	No water from other enterprises.....enterprises reporting..	49	2	8	4	7
8	acres irrigated.....	207,665	400	6,445	11,018	33,881
9	Part of water from other enterprises.....enterprises reporting..	15	6	2	1	3
10	acres irrigated.....	150,791	47,839	3,659	.....	1,312
11	All water from other enterprises.....enterprises reporting..	4	.....	.....	.....	.....
12	acres irrigated.....	149,705	.....	.....	.....	.....
Enterprises by delivery of irrigation water:²						
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	49	2	9	4	6
15	acres irrigated.....	218,108	4,071	10,104	11,018	33,881
16	Water delivered to farms and to other enterprises.....enterprises reporting..	17	6	.....	.....	3
17	acres irrigated.....	290,053	44,168	.....	.....	1,312
18	Water delivered to other enterprises only.....enterprises reporting..	2	.....	1	1	1
Enterprises by primary and supplemental irrigation:³						
19	All primary.....enterprises reporting..	41	2	4	3	7
20	acres irrigated.....	318,001	1,271	3,405	3,018	35,193
21	Part primary, part supplemental.....enterprises reporting..	25	5	5	.....	.....
22	Primary irrigation.....acres irrigated..	179,873	44,279	6,503	5,873	.....
23	Supplemental irrigation.....acres irrigated..	10,287	2,689	196	2,127	.....
24	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....
25	acres irrigated.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:²						
26	None.....enterprises reporting..	2	.....	1	1	1
27	1-3.....enterprises reporting..	7	.....	.....	2	.....
28	4-9.....enterprises reporting..	8	1	3	.....	2
29	10-29.....enterprises reporting..	17	1	5	.....	2
30	30-99.....enterprises reporting..	18	1	1	2	3
31	100-299.....enterprises reporting..	10	4	.....	.....	3
32	300-999.....enterprises reporting..	5	1	.....	.....	1
33	1,000 or more.....enterprises reporting..	1	.....	.....	.....	.....
Enterprises by acres irrigated direct:²						
34	None.....enterprises reporting..	2	.....	1	1	1
35	1-99 acres.....enterprises reporting..	2	.....	.....	.....	.....
36	100-999 acres.....enterprises reporting..	17	1	5	2	.....
37	1,000-2,999 acres.....enterprises reporting..	16	1	4	.....	1
38	3,000-9,999 acres.....enterprises reporting..	19	3	.....	2	5
39	10,000-29,999 acres.....enterprises reporting..	8	2	.....	.....	2
40	30,000 acres or more.....enterprises reporting..	4	1	.....	.....	1
Quantities of water reported, 1949:⁴						
41	Total obtained from all sources ⁴.....enterprises reporting..	65	8	10	5	10
42	percent of all enterprises reporting..	1	1	31	4	4
43	acre-feet.....	3,879,942	1,407,864	28,600	935,416	2,300,705
44	Surface sources.....enterprises reporting..	61	8	10	5	10
45	acre-feet.....	2,872,477	1,399,797	28,300	835,916	2,214,297
46	Pumped wells.....enterprises reporting..	500	.....	.....	.....	.....
47	acre-feet.....	.....	.....	.....	.....	.....
48	Other enterprises.....enterprises reporting..	19	6	2	1	3
49	acre-feet.....	1,006,965	8,067	300	81,500	86,408
50	Conveyance loss ⁴.....enterprises reporting..	65	8	10	5	10
51	acre-feet.....	1,125,438	321,564	6,775	188,594	491,004
Delivered:⁴						
52	Direct to farms.....enterprises reporting..	63	8	9	4	9
53	acre-feet.....	950,477	165,018	21,325	35,165	171,146
54	To other enterprises.....enterprises reporting..	17	6	1	1	4
55	acre-feet.....	172,182	93,083	300	8,067	98,790
56	For use other than irrigation.....enterprises reporting..	9	2	1	2	5
57	acre-feet.....	1,631,845	828,199	200	703,590	1,539,765
Delivered direct to farms for primary irrigation:³						
58	Enterprises reporting.....enterprises..	63	7	9	4	7
59	Quantity delivered.....acre-feet..	898,262	93,760	19,782	18,363	61,192
60	Area supplied primary irrigation.....acres..	492,153	45,550	9,908	8,891	35,193
61	Quantity supplied per acre.....acre-feet..	1.8	2.1	2.0	2.1	1.7
Delivered direct to farms for supplemental irrigation:³						
62	Enterprises reporting.....enterprises..	24	5	5	1	.....
63	Quantity delivered.....acre-feet..	22,066	5,695	432	4,596	.....
64	Area supplied supplemental irrigation.....acres..	10,254	2,689	196	2,127	.....
65	Quantity supplied per acre.....acre-feet..	2.2	2.1	2.2	2.2	.....
66	Total quantity per irrigated acre ⁵.....acre-feet..	1.9	2.2	2.1	2.8	1.7
Cost of water to farms for enterprises reporting quantity delivered, 1949:³						
67	Cost for primary irrigation.....dollars..	1,676,836	167,062	10,520	7,227	51,892
68	Average cost per acre-foot.....dollars..	1.87	1.78	0.53	0.39	0.85
69	Cost for supplemental irrigation.....dollars..	27,099	10,129	253	1,611	.....
70	Average cost per acre-foot.....dollars..	1.23	1.78	0.59	0.35	.....
Measurement of water to farms, 1949:³						
71	No water measured.....enterprises reporting..	47	5	10	4	6
72	acres irrigated.....	123,101	39,271	10,104	3,018	15,856
73	Part of water measured.....enterprises reporting..	6	2	.....	1	2
74	acres irrigated.....	40,086	8,568	.....	8,000	14,337
75	All water measured.....enterprises reporting..	11	.....	.....	.....	.....
76	acres irrigated.....	265,041	.....	.....	.....	.....

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

[Intercountry 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)	Merrill	Red Willow ¹	Scotts Bluff	Sheridan ¹	Sioux	All other counties
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ².....enterprises..	15	1	14	1	3	23
2 Area irrigated direct.....acres..	60,840	2,731	180,967	10,500	22,175	126,394
3 Multiple-purpose enterprises ².....enterprises..						4
4 Area irrigated direct.....acres..						70,662
5 Complete-system enterprises ².....enterprises..	12	1	8	1		13
6 Area irrigated direct.....acres..	20,827	2,731	21,779	10,500		39,819
Enterprises by origin of water supply:²						
7 No water from other enterprises.....enterprises reporting..	12	1	6	1	2	21
8 acres irrigated.....	20,827	2,731	16,179	10,500	175	105,409
9 Part of water from other enterprises.....enterprises reporting..	1		6			1
10 acres irrigated.....	20,000		57,981			20,000
11 All water from other enterprises.....enterprises reporting..	2		2		1	1
12 acres irrigated.....	20,013		106,807		22,000	885
Enterprises by delivery of irrigation water:²						
13 No water delivered.....enterprises reporting..						12
14 Water delivered direct to farms only.....enterprises reporting..	12	1	11			12
15 acres irrigated.....	25,356	2,731	91,867			39,080
16 Water delivered to farms and to other enterprises.....enterprises reporting..	3		3	1	3	11
17 acres irrigated.....	35,484		89,100	10,500	22,175	87,314
18 Water delivered to other enterprises only.....enterprises reporting..						
Enterprises by primary and supplemental irrigation:³						
19 All primary.....enterprises reporting..	10		7	1	3	18
20 acres irrigated.....	40,448		85,842	10,500	22,175	116,149
21 Part primary, part supplemental.....enterprises reporting..	5	1	7			4
22 Primary irrigation.....acres irrigated..	19,664	2,420	92,573			8,561
23 Supplemental irrigation.....acres irrigated..	728	311	2,552			1,684
24 All supplemental.....enterprises reporting..						
25 acres irrigated.....						
Enterprises by number of farms irrigated direct:²						
26 None.....enterprises reporting..						2
27 1-3.....enterprises reporting..	3					4
28 4-9.....enterprises reporting..						2
29 10-29.....enterprises reporting..	5		4			5
30 30-99.....enterprises reporting..	5	1	4			4
31 100-299.....enterprises reporting..			3	1		4
32 300-999.....enterprises reporting..	1		2			8
33 1,000 or more.....enterprises reporting..	1	1	1		1	
Enterprises by acres irrigated direct:²						
34 None.....enterprises reporting..						1
35 1-99 acres.....enterprises reporting..	1				1	5
36 100-999 acres.....enterprises reporting..	2		1			4
37 1,000-2,999 acres.....enterprises reporting..	5	1	3			3
38 3,000-9,999 acres.....enterprises reporting..	5		5			8
39 10,000-29,999 acres.....enterprises reporting..			2	1		3
40 30,000 acres or more.....enterprises reporting..	2		3		1	
Quantities of water reported, 1949:⁴						
41 Total obtained from all sources ⁴.....enterprises reporting..	15	1	13	1	3	21
42 percent of all enterprises reporting..	31	3	8	9	4	2
43 acre-feet.....	927,684	5,290	1,099,070	21,754	536,796	3,905,918
44 Surface sources.....enterprises reporting..	13	1	11	1	2	20
45 acre-feet.....	187,692	5,290	235,754	21,754	800	3,901,632
46 Pumped wells.....enterprises reporting..			1			1
47 acre-feet.....			500			1
48 Other enterprises.....enterprises reporting..	3		8			1
49 acre-feet.....	739,992		862,816		535,996	4,286
50 Conveyance loss ⁴.....enterprises reporting..	15	1	13	1	3	21
51 acre-feet.....	441,204	1,322	495,499	6,039	284,627	903,913
Delivered:⁴						
52 Direct to farms.....enterprises reporting..	15	1	13	1	3	21
53 acre-feet.....	420,090	3,968	533,031	15,715	236,633	347,109
54 To other enterprises.....enterprises reporting..	3		2	1	3	10
55 acre-feet.....	66,190		64,940		15,536	277,939
56 For use other than irrigation.....enterprises reporting..	1		2			4
57 acre-feet.....	200		5,600			2,376,957
Delivered direct to farms for primary irrigation:³						
58 Enterprises reporting.....enterprises..	15	1	13	1	3	20
59 Quantity delivered.....acre-feet..	137,629	3,452	374,710	15,715	51,883	121,776
60 Area supplied primary irrigation.....acres..	60,112	2,420	174,948	10,500	22,175	122,456
61 Quantity supplied per acre.....acre-feet..	2.3	1.4	2.1	1.5	2.3	1.0
Delivered direct to farms for supplemental irrigation:³						
62 Enterprises reporting.....enterprises..	5	1	6			4
63 Quantity delivered.....acre-feet..	2,076	516	5,741			3,010
64 Area supplied supplemental irrigation.....acres..	728	311	2,519			1,684
65 Quantity supplied per acre.....acre-feet..	2.9	1.7	2.3			1.8
66 Total quantity per irrigated acre ⁵.....acre-feet..	2.3	1.5	2.2	1.5	2.3	1.0
Cost of water to farms for enterprises reporting quantity delivered, 1949:³						
67 Cost for primary irrigation.....dollars..	180,347	8,316	735,736	21,000	95,822	398,914
68 Average cost per acre-foot.....dollars..	1.31	2.41	1.96	1.34	1.85	3.28
69 Cost for supplemental irrigation.....dollars..	1,105	1,243	7,949			4,809
70 Average cost per acre-foot.....dollars..	0.53	2.41	1.38			1.60
Measurement of water to farms, 1949:³						
71 No water measured.....enterprises reporting..	11	1	7		2	6
72 acres irrigated.....	19,646	2,731	16,725		175	15,575
73 Part of water measured.....enterprises reporting..	1		1			2
74 acres irrigated.....	1,181		3,800			4,200
75 All water measured.....enterprises reporting..	3		5	1	1	10
76 acres irrigated.....	40,013		158,163	10,500	22,000	34,365

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,

[Symbols in parentheses refer to drainage basin symbols on map, "Nebraska: Location of Irrigated

Item (For definitions and explanations, see text)		The State	Adams	Antelope	Banner	Boone	Box Butte	Brown	Buffalo
1	Irrigated land, 1949.....acres..	887,239	5,619	446	1,668	6,444	14,277	1,718	51,156
	Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2	All basins (Mississippi River).....acres..	913,792	5,619	446	1,668	6,444	14,277	1,718	52,549
3	Missouri River excluding Platte River (VI-C).....acres..	126,070	5,619				2,116	1,718	
4	Missouri River direct (1a).....acres..	369							
5	Kansas River.....acres..	91,976	5,619						
6	Kansas River direct (2a).....acres..	57,656	5,619						
7	Republican River direct (2b, 2c).....acres..	30,441							
8	North Fork (2d).....acres..	3,879							
9	Niobrara River (3).....acres..	22,464					2,116	1,718	
10	White River (4).....acres..	6,928							
11	Cheyenne River direct (Hat Creek) (5a).....acres..	4,333							
12	Platte River excluding South Platte River (VI-D).....acres..	744,184		446	1,668	6,444	12,161		52,549
13	Platte River direct (1).....acres..	348,652		446					51,815
14	Loup River (2a, 2b).....acres..	55,837				6,444			734
15	North Platte River (North Platte River direct) (3a, 3b).....acres..	339,695			1,668		12,161		
16	South Platte River (VI-E).....acres..	43,538							
17	South Platte River direct (1a).....acres..	26,015							
18	Lodgepole Creek (2).....acres..	17,523							

Item (For definitions and explanations, see text)		Dundy	Fillmore	Franklin	Frontier	Furnas	Gage	Garden	Garfield
1	Irrigated land, 1949.....acres..	4,001	3,095	2,098	355	2,384	204	10,355	4,302
	Area irrigated direct, by drainage basin origin of water, 1949: ¹								
2	All basins (Mississippi River).....acres..	4,001	3,095	2,168	355	2,577	204	10,980	4,480
3	Missouri River excluding Platte River (VI-C).....acres..	4,001	3,095	2,168	355	2,577	204		
4	Missouri River direct (1a).....acres..								
5	Kansas River.....acres..	4,001	3,095	2,168	355	2,577	204		
6	Kansas River direct (2a).....acres..		3,095				204		
7	Republican River direct (2b, 2c).....acres..	122		2,168	355	2,577			
8	North Fork (2d).....acres..	3,879							
9	Niobrara River (3).....acres..								
10	White River (4).....acres..								
11	Cheyenne River direct (Hat Creek) (5a).....acres..								
12	Platte River excluding South Platte River (VI-D).....acres..							10,980	4,480
13	Platte River direct (1).....acres..								
14	Loup River (2a, 2b).....acres..								4,400
15	North Platte River (North Platte River direct) (3a, 3b).....acres..							10,980	
16	South Platte River (VI-E).....acres..								
17	South Platte River direct (1a).....acres..								
18	Lodgepole Creek (2).....acres..								

Item (For definitions and explanations, see text)		Madison	Merrick	Morrill	Nance	Nuckolls	Perkins	Phelps	Platte	Polk
1	Irrigated land, 1949.....acres..	339	31,914	62,973	1,375	2,581	135	51,985	3,854	4,859
	Area irrigated direct, by drainage basin origin of water, 1949: ¹									
2	All basins (Mississippi River).....acres..	339	31,914	63,834	1,375	2,581	135	52,020	3,854	4,859
3	Missouri River excluding Platte River (VI-C).....acres..					2,581	135	736		2,923
4	Missouri River direct (1a).....acres..									
5	Kansas River.....acres..					2,581	135	736		2,923
6	Kansas River direct (2a).....acres..					1,943				2,923
7	Republican River direct (2b, 2c).....acres..					638	135	736		
8	North Fork (2d).....acres..									
9	Niobrara River (3).....acres..									
10	White River (4).....acres..									
11	Cheyenne River direct (Hat Creek) (5a).....acres..									
12	Platte River excluding South Platte River (VI-D).....acres..	339	31,914	63,834	1,375			51,284	3,854	1,936
13	Platte River direct (1).....acres..	339	31,164					51,284	3,240	1,936
14	Loup River (2a, 2b).....acres..		750		1,375				614	
15	North Platte River (North Platte River direct) (3a, 3b).....acres..			63,834						
16	South Platte River (VI-E).....acres..									
17	South Platte River direct (1a).....acres..									
18	Lodgepole Creek (2).....acres..									

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

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State (Mississippi River)	Missouri River excluding Platte River (VI-C)								
		Total	Missouri River direct (1a)	Kansas River						
				Total	Kansas River direct (2a)	Republican River				
						Total	Republican River di- rect below Harlan County Dam (2b)	Republican River di- rect above Harlan County Dam (2c)	North Fork (2d)	
ALL ENTERPRISES										
Farms and land irrigated:										
1	All irrigation enterprises.....enterprises 1950..	5,583	1,199	9	1,056	736	320	82	219	19
2	.....acres irrigated 1940..	2,717	456	12	300	109	191	(*)	(*)	(*)
3	Interbasin.....enterprises 1950..	1								
4	Farms irrigated direct per enterprise ¹.....farms 1950..	2.0	1.3	1.0	1.2	1.0	1.5	1.0	1.7	1.9
5	Irrigated land ².....acres 1949..	887,239	125,192	369	91,398	57,717	33,6P1	4,648	25,154	3,879
6	.....acres 1939..	610,379	55,934	385	31,274	4,072	27,202	3,454	20,662	3,086
7	Average per enterprise.....acres 1949..	159	104	41	87	78	105	57	115	204
8	Average acreage irrigated direct per enterprise ¹.....acres 1949..	164	105	41	87	78	108	58	118	204
Type of enterprise, 1950:										
9	Single-farm.....enterprises..	5,515	1,190	9	1,051	736	315	82	215	18
10	.....acres irrigated..	405,631	96,173	369	78,239	57,717	20,522	4,718	13,549	2,255
Mutual:										
11	Unincorporated.....enterprises..	11		2						
12	.....acres irrigated..	5,873	(³)							
13	Incorporated.....enterprises..	15		1						
14	.....acres irrigated..	43,289	(³)		(³)		(³)		(³)	
Commercial:										
15	.....enterprises..	1		1						
16	.....acres irrigated..	(³)	(³)		(³)		(³)		(³)	
17	District.....enterprises..	39		3						
18	.....acres irrigated..	445,138	15,585		(³)		(³)		(³)	1
19	U. S. Bureau of Reclamation ⁴.....enterprises..	2		2						1
20	.....acres irrigated..	13,231	13,231		2,731		2,731		2,731	
21	U. S. Bureau of Indian Affairs.....enterprises..									
22	.....acres irrigated..									
23	State.....enterprises..									
24	.....acres irrigated..									
25	City.....enterprises..									
26	.....acres irrigated..									
Use of surface, ground, pumped and stored water, 1949:										
Surface water:										
27	Gravity only.....enterprises reporting..	223	96		21	5	16	2	10	4
28	.....acres irrigated..	508,854	44,114		15,492	154	15,338	8	12,650	2,680
29	Pumped only.....enterprises reporting..	420	124	3	109	61	48	12	36	
30	.....acres irrigated..	20,087	5,254	63	4,503	2,077	2,426	851	1,575	
31	Gravity and pumped.....enterprises reporting..	25	10	1	3	2	1	1		
32	.....acres irrigated..	22,455	706	60	66	46	20	20		
33	Ground water only (pumped from wells).....enterprises reporting..	4,661	901	5	855	629	226	62	152	12
34	.....acres irrigated..	339,227	70,819	246	66,738	52,733	14,005	3,582	9,458	965
35	Surface (gravity or pumped) and ground water.....enterprises reporting..	254	68		68	39	29	5	21	3
36	.....acres irrigated..	23,169	5,348		5,348	2,707	2,641	257	2,150	234
Stored water:										
37	None stored.....enterprises reporting..	5,405	1,141	6	1,029	725	304	77	209	18
38	.....acres irrigated..	532,571	103,471	280	89,771	56,856	32,915	4,324	24,762	3,829
39	Part stored.....enterprises reporting..	65	21	2	7	6	1		1	
40	.....acres irrigated..	374,959	19,637	78	803	773	30		30	
41	All stored.....enterprises reporting..	113	37	1	20	5	15	5	9	1
42	.....acres irrigated..	6,262	3,133	11	1,573	88	1,485	394	1,041	50
Sources of surface water, 1949:⁵										
43	Streams (and lakes).....enterprises reporting..	825	248	3	158	79	79	14	61	4
44	.....acres irrigated..	569,151	52,536	112	22,637	3,077	19,560	1,050	15,830	2,680
45	Springs.....enterprises reporting..	19	9		4		4		2	
46	.....acres irrigated..	1,040	177		104		104	8	96	
47	Flowing wells.....enterprises reporting..	61	33		33	22	11	2	6	3
48	.....acres irrigated..	4,534	2,216		2,216	1,272	944	40	670	234
49	Drainage water.....enterprises reporting..	43	14	2	11	8	3	2	1	
50	.....acres irrigated..	16,119	779	71	678	620	58	38	20	
51	Sewage.....enterprises reporting..	2			2	1	1		1	
52	.....acres irrigated..	110			110	85	25		25	
53	Other sources.....enterprises reporting..									
54	.....acres irrigated..									
Drainage of irrigated land:⁶										
Irrigated land drained:										
55	Enterprises reporting.....enterprises 1949..	319	53		51	43	8	1	7	
56	Area supplied primary irrigation.....acres 1949..	313,192	10,021		4,535	3,958	577	90	487	
57	Area artificially drained.....acres 1949..	103,297	2,523		2,322	1,750	572	90	482	
58	.....acres 1939..	47,532	394	(*)	248	172	76	(*)	(*)	(*)
Irrigated land in need of drainage:										
59	Enterprises reporting.....enterprises 1949..	481	85	1	77	73	4	2	2	
60	Area supplied primary irrigation.....acres 1949..	300,133	14,235	11	7,691	6,683	1,008	124	RR4	
61	Area in need of drainage.....acres 1949..	32,284	1,545		1,105	1,055	50	14	36	
62	.....acres 1939..	10,305	686	(*)	102		102	(*)	(*)	(*)

¹Not available. ²Farms and acreage irrigated direct by 2 or more enterprises are counted for each enterprise. ³Acreage irrigated direct by 2 or more enterprises is counted only once. Acreage for 1939 is estimated acreage within revised drainage basin boundaries. ⁴Data for less than 3 enterprises not shown separately. ⁵Data for less than 3 enterprises shown with permission of the enterprise. ⁶Enterprises reporting water from more than 1 source are counted for each. ⁷For interbasin and interstate enterprises, data to represent characteristics within the drainage basin or State.

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]

Missouri River excluding Platte River (VI-C)—Continued			Platte River excluding South Platte River VI-D							South Platte River (VI-E)				
Niobrara River (3)	White River (4)	Cheyenne River direct (Hat Creek) (5a)	Total	Platte River direct (1)	Loup River			North Platte River (North Platte River direct)			Total	South Platte River direct (1a)	Lodgepole Creek (2)	
					Total	Below St. Paul (2a)	Above St. Paul (2b)	Total	Below Keystone (3a)	Above Keystone (3b)				
73 88	24 33	37 23	4,116 (*)	3,202 (*)	468 (*)	281 (*)	187 (*)	446 (*)	115 (*)	331 (*)	268 (*)	135 (*)	133 120 1	1 2 3
2.6 22,364 10,259 306 308	2.5 6,728 12,083 280 289	1.0 4,333 1,933 117 117	2.3 726,321 521,799 176 181	1.5 340,410 133,357 106 109	2.2 55,179 25,232 118 119	2.3 36,780 17,944 131 132	2.1 18,399 7,288 98 100	8.3 330,732 362,710 742 762	3.6 38,165 42,030 332 349	10.0 292,567 320,680 884 905	1.4 35,726 32,646 133 162	1.6 19,196 19,523 142 193	1.3 16,530 13,123 124 132	4 5 6 7 8
70 11,789	23 1,443	37 4,333	4,062 279,228	3,193 225,768	465 24,352	279 16,006	186 8,346	404 29,108	107 3,458	297 25,650	263 30,230	132 15,207	131 15,023	9 10
2 (3)			7 5,220 13					7 5,220 8	2 (3)	5 3,187 7	2 (3)	1 (3)	1 (3)	11 12 13 14
			41,957	24,651				17,306	(3)	11,806	(3)	(3)		15 16 17 18
	(3)		34 417,608	4 98,062	3 31,485	2 (3)	1 (3)	27 288,061	5 29,143	22 258,918	2 (3)	1 (3)	1 (3)	19 20 21 22
1 10,500														23 24 25 26
26 18,042 5 362 2 240	17 6,743 5 145 1 25	32 3,837 2 181 3 315	109 450,154 294 14,728 14 21,684	25 123,831 161 7,733 8 585	8 10,779 99 4,551 3 20,992	2 305 63 3,267 2 20,977	6 10,474 36 1,284 1 15	76 315,544 34 2,444 3 107	9 36,732 8 295 3 107	67 278,812 26 2,149 3 107	18 14,586 2 105 1 65	5 10,831 1 75 1 65	13 3,755 1 30 31 65	27 28 29 30 31 32
40 3,820	1 15		3,545 245,426 154	2,913 209,367 95	313 16,764 45	195 11,006 19	118 5,758 26	319 19,295 14	97 3,107 1	222 16,188 13	215 22,982 32	124 13,507 5	91 9,475 27	33 34 35 36
71 11,744	21 943	14 733	4,012 390,536	3,120 225,722	464 55,741	279 37,138	185 18,603	428 109,073	114 40,134	314 68,939	252 38,564	134 25,130	13,434 12 3,881	37 38 39 40
2 10,720	2 5,785	8 2,251	31 350,556	16 119,990	2 46	1 40	6 1	230,520 5	1 102	12 4,766	13 885	1 3,881	41 42	
	1 200	15 1,349	73 2,921	66 2,769	2 50	1 30	1 20	5 102		3 208				
31 18,636	23 6,913	33 4,238	525 496,134 10 863	262 137,562 3 229	150 38,899	83 26,067	67 12,832	113 319,673 7 634	14 36,886 1 56	99 282,787 6 578	52 20,481	10 12,433	42 8,048	43 44 45 46
			27 2,243 1 28 30	19 1,487 15 587	5 627 3 115	3 585 2 100	2 42 1 15	3 129 10 14,515	1 56 3 85	2 73 7 14,430	1 75 1 123	1 75	47 48 49 50	
														51 52 53 54
1 1 1 1	1 5,485 200		261 297,000 99,335	215 56,400 18,297	29 4,432 1,221	18 1,421 641	11 3,011 580	17 236,168 79,817	4 18,580 7,555	13 217,588 72,262	5 6,171 1,439	4 6,146 1,414	55 56 57 58	
5 783 813 83	1 5,485 100	1 265 25	385 279,196 29,761	336 39,669 16,987	28 18,097 1,492	7 15,289 687	21 2,808 785	21 221,430 11,302	3 5,520 1,500	18 215,910 9,802	11 6,702 978	9 6,478 893	2 224 85	59 60 61 62

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 and interstate enterprises,

Item (For definitions and explanations, see text)	The State (Mississippi River)	Missouri River excluding Platte River (VI-C)							
		Total	Missouri River direct (1a)	Kansas River					
				Total	Kansas River direct (2a)	Republican River			
						Total	Republican River direct below Harlan County Dam (2b)	Republican River direct above Harlan County Dam (2c)	North Fork (2d)
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	342	146	77	62	15	4	10	1
2	Diversion dams.....dams 1950..	488	199	88	73	15	4	10	1
3	Diversion dams.....dams 1940..	351	177	38	8	30	(*)	(*)	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	92	22	7	2	5	1	4	
5	Timber.....dams 1950..	21	5	2	2				
6	Earth and rock.....dams 1950..	351	162	76	68	8	3	4	1
7	Other, mixed, and not reported.....dams 1950..	24	10	3	1	2		2	
8	Reservoirs.....enterprises reporting 1950..	87	62	3	28	12	5	9	2
9	Reservoirs.....reservoirs 1950..	114	85	3	31	15	5	9	2
10	Reservoirs.....reservoirs 1940..	164	54	1	16	8	(*)	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	96	70	3	23	11	4	8	
12	Reservoirs.....total capacity, acre-feet 1950..	133,934	50,221	69	1,977	305	1,672	356	1,316
13	Reservoirs.....total capacity, acre-feet 1940..	2,306,159	17,144	(*)	1,359	205	1,154	(*)	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	70	49	3	17	6	2	4	
15	100-999 acre-feet.....reservoirs 1950..	16	16		6	6	2	4	
16	1,000 acre-feet and over.....reservoirs 1950..	10	5						
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	3	1						
18	Earth and rock.....dams 1950..	96	72	2	24	12	4	7	1
19	Other, mixed, and not reported.....dams 1950..	15	12	1	7	3	1	2	1
20	Canals and ditches.....enterprises reporting 1950..	519	164	2	125	58	67	19	45
21	Canals and ditches.....total length, miles 1950..	4,613	402	2	216	51	165	15	138
22	Canals and ditches.....total length, miles 1940..	3,331	326		151	7	144	(*)	(*)
23	Pipelines and siphons ¹.....enterprises reporting 1950..	109	50	4	40	21	6	13	
24	Pipelines and siphons ¹.....total length, miles 1950..	88	64	2	52	42	10	2	
25	Pipelines and siphons ¹.....total length, miles 1940..	126	36	3	12	7	6	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	1							
27	Tunnels.....total length, feet 1950..	6,600							
28	Flowing wells.....enterprises reporting 1950..	61	33	3	33	22	11	2	6
29	Flowing wells.....wells 1950..	89	46	3	46	26	20	3	14
30	Flowing wells.....wells 1940..	19	19		19	19	(*)	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	4,910	960	5	914	658	256	67	173
32	Pumped wells.....wells 1950..	7,157	1,088	6	1,029	730	299	78	204
33	Pumped wells.....wells 1940..	2,412	184	7	160	37	123	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	6,790	1,019	5	964	687	277	74	190
35	Wells for which pumping lift was reported.....wells 1949..	46	87	37	88	100	59	74	53
36	Average pumping lift.....feet 1939..	34	1	44	49	75	42	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	5,322	1,095	9	1,029	727	302	80	206
38	Irrigation pumps.....pumps 1950..	7,734	1,287	10	1,207	843	364	96	250
39	Irrigation pumps.....pumps 1940..	2,848	340	12	292	110	182	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	1,254	79	3	74	38	36	2	33
41	Electric motors used for pumping.....electric motors 1950..	1,791	93	3	87	46	41	3	37
42	Electric motors used for pumping.....electric motors 1940..	246	35	3	32	20	12	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	4,412	1,019	7	963	694	269	77	178
44	Other motors and engines used for pumping.....other motors and engines 1950..	5,721	1,164	8	1,097	789	308	89	203
45	Other motors and engines used for pumping.....other motors and engines 1940..	2,418	295	9	251	87	164	(*)	(*)
Season of irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..	34	30	2	1		1		1
47	Water delivered only before July 1.....acres irrigated..	5,108	4,608	21	160		160		160
48	Water delivered before and after July 1.....enterprises reporting..	999	256	1	170	76	94	13	67
49	Water delivered before and after July 1.....acres irrigated..	605,953	55,835	40	27,812	6,844	20,968	735	16,701
50	Water delivered only after July 1.....enterprises reporting..	4,190	847	6	820	611	209	67	137
51	Water delivered only after July 1.....acres irrigated..	292,501	62,245	308	60,682	48,719	11,963	3,943	7,673
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	39,056,207	1,518,872	19,558	784,766	166,310	618,456	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	4,109	969	9	880	660	220	50	157
54	Enterprises reporting.....dollars 1950..	17,407,674	7,339,688	22,731	3,836,703	3,042,192	794,511	153,251	597,272
55	Area irrigated direct.....acres 1949..	506,769	95,291	369	69,694	53,011	16,683	3,010	12,849
56	Total capital investment Jan. 1, 1950.....dollars 1950..	56,463,881	8,858,560	42,289	4,621,469	3,208,502	1,412,967	(*)	(*)
Indebtedness: ²									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	31	4		2		2		1
58	Enterprises reporting.....dollars 1950..	18,911,386	1,012,976		104,676		104,676		101,376
59	Enterprises reporting.....dollars 1940..	21,727,368	161,420		10,420		10,420	(*)	(*)
60	Area irrigated direct.....acres 1949..	414,043	20,340		4,355		4,355		2,731
Arreage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61	Enterprises reporting.....enterprises 1950..	7							
62	Enterprises reporting.....dollars 1950..	457,418							
63	Area irrigated direct.....acres 1949..	132,849							

*Not available.

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

²Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprise.

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]

Missouri River excluding Platte River (VI-C)—Continued			Platte River excluding South Platte River (VI-D)									South Platte River (VI-E)		
Niobrara River	White River	Cheyenne River direct (Hat Creek)	Total	Platte River direct	Loup River			North Platte River (North Platte River direct)			Total	South Platte River direct	Lodgepole Creek	
					Total	Below St. Paul	Above St. Paul	Total	Below Keystone	Above Keystone				
(3)	(4)	(5a)	(1)	(2a)	(2b)	(3a)	(3b)	(1a)	(2)					
26	19	24	158	47	32	25	7	79	7	72	38	4	34	
34	23	54	240	104	42	33	9	94	8	86	49	7	42	
77	32	29	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	61	
11	3	1	53	6	4	4		43	5	38	17	1	16	
2	.....	1	14	2	1	1	.....	11	.....	11	2	.....	2
16	19	51	164	93	35	27	6	36	1	35	25	4	21	
5	1	1	9	3	2	1	4	4	2	2	5	2	3	
2	3	26	19	7	3	1	2	9	.....	9	6	.....	6
4	5	42	23	7	3	1	2	13	.....	13	6	.....	6
4	9	24	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	
1	5	38	21	6	2	1	1	13	.....	13	5	.....	5
31,300	12,480	4,395	77,793	168	56	10	46	77,569	.....	77,569	5,920	.....	5,920
42	14,570	1,172	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6,275	
.....	1	28	17	6	2	1	1	9	.....	9	4	.....	4
.....	3	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
1	1	3	4	.....	.....	.....	.....	4	.....	4	1	.....	1
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
4	5	37	20	5	2	2	.....	13	.....	13	4	.....	4
.....	.....	4	3	2	1	.....	.....	.....	.....	.....	.....	.....	18
19	11	7	329	177	48	27	21	104	9	95	26	9	17	
97	76	11	4,078	1,306	259	232	27	2,513	276	2,237	133	64	69	
97	54	23	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	64	
5	1	.....	58	24	21	17	4	13	1	12	1	1	.....
2	8	.....	25	9	9	8	1	7	1	6	1	1	.....
3	18	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3
.....	.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	.....	26
.....	.....	.....	6,600	.....	.....	.....	.....	6,600	.....	6,600	.....	.....	27
.....	.....	.....	27	19	5	3	2	3	1	2	1	1	.....
.....	.....	.....	41	31	6	4	2	4	1	3	2	2	.....
.....	.....	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	30
40	1	.....	3,703	3,014	358	216	142	331	96	235	247	130	117
52	1	.....	5,655	4,823	402	240	162	430	123	307	414	213	201
13	4	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	88
49	1	.....	5,360	4,578	373	224	149	409	108	301	411	213	198
79	22	.....	38	36	59	53	67	43	26	50	54	47	62
50	36	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	55
46	6	5	3,982	3,158	458	278	180	366	106	260	245	130	115	
59	6	5	6,027	5,026	535	323	212	466	132	334	420	216	204	
29	6	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	91	
2	.....	.....	1,044	895	56	40	16	93	8	85	131	63	68
3	.....	.....	1,499	1,325	68	43	25	106	9	97	199	90	109
.....	.....	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	5
43	6	.....	3,245	2,558	404	238	166	283	99	184	148	85	63
53	6	.....	4,342	3,534	461	269	192	347	114	233	215	122	93
28	6	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	89	
4	4	19	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	4
2,380	257	1,790	.....	.....	.....	.....	.....	.....	.....	.....	500	.....	500
51	16	18	535	250	43	18	25	242	24	218	208	102	106	
18,861	6,579	2,543	511,632	145,634	33,921	22,183	11,738	332,057	37,380	294,677	38,486	23,395	15,091	
17	4	.....	3,253	2,771	400	250	150	122	48	74	50	31	19
1,163	92	.....	225,841	197,398	21,424	14,945	6,479	7,019	2,559	4,460	4,415	2,617	1,798
136,355	498,915	79,278	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	371,367	
45	10	25	2,962	2,367	302	237	145	213	46	167	178	93	85	
3,429,264	10,407	40,583	9,432,159	5,772,307	1,429,483	788,835	640,648	2,230,369	1,366,977	863,392	635,827	352,975	282,852	
15,390	6,134	3,704	389,501	278,352	51,526	34,262	17,264	59,623	6,803	52,820	21,977	12,458	9,519	
3,565,619	509,322	119,861	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	654,219	
1	1	.....	26	4	3	2	1	19	3	16	1	.....	1
846,300	62,000	.....	17,835,910	3,260,818	1,331,087	1,231,087	100,000	13,244,005	2,769,508	10,474,497	62,500	.....	62,500
.....	151,000	.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	82,000
10,500	5,485	.....	391,458	99,900	31,485	21,202	10,283	260,073	17,843	242,230	2,245	.....	2,245
.....	.....	.....	7	.....	2	2	.....	5	.....	5	.....	.....	61
.....	.....	.....	457,418	.....	349,087	349,087	.....	108,331	.....	108,331	.....	.....	62
.....	.....	.....	132,849	.....	21,202	21,202	.....	111,647	.....	111,647	.....	.....	63

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State (Mississippi River)	Missouri River excluding Platte River (VI-C)								
		Total	Missouri River direct (1a)	Kansas River				North Fork (2d)		
				Total	Kansas River direct (2a)	Republican River				
						Total	Republican River direct below Harlan County Dam (2b)		Republican River direct below Harlan County Dam (2c)	
ALL ENTERPRISES										
Cost of water to farms, 1949: ¹										
Total cost of water to farms:										
1	Enterprises reporting.....enterprises..	5,388	1,175	9	1,032	714	318	81	218	19
2	Cost.....dollars..	3,012,244	359,607	1,244	302,692	202,808	99,884	13,494	70,494	15,896
3	Area irrigated direct.....acres..	913,792	126,241	369	92,147	57,717	34,430	4,718	25,633	3,879
4	Cost per acre irrigated direct.....dollars..	3.30	2.85	3.37	3.28	3.51	2.90	2.86	2.73	4.10
5	Total cost per irrigated acre.....dollars..	3.40	2.87	3.37	3.31	3.51	2.97	2.90	2.80	4.10
6	Total cost per acre-foot of water ².....dollars..	1.79	1.69	(³)	1.58	(³)	1.41	(³)	1.27	(³)
Enterprises by cost per acre:										
7	Less than \$1.00.....enterprises reporting..	712	214	1	130	83	47	13	28	6
8	.....acres irrigated..	95,840	25,788	85	11,867	7,642	4,225	826	1,918	1,481
9	\$1.00-\$1.99.....enterprises reporting..	1,069	227	3	220	160	60	17	43	.....
10	.....acres irrigated..	134,043	26,454	70	26,119	12,881	13,238	1,057	12,181	.....
11	\$2.00-\$4.99.....enterprises reporting..	2,482	469	2	447	313	134	39	89	6
12	.....acres irrigated..	555,778	6,165	71	38,636	26,931	11,705	2,247	9,161	297
13	\$5.00-\$9.99.....enterprises reporting..	827	200	2	178	116	62	9	47	6
14	.....acres irrigated..	115,424	14,578	140	12,435	7,761	4,674	420	2,263	1,991
15	\$10.00 and over.....enterprises reporting..	298	65	1	57	42	15	3	11	1
16	.....acres irrigated..	12,707	3,256	3	3,090	2,502	588	168	310	110
Cost of water for primary irrigation:										
17	Enterprises reporting.....enterprises..	5,167	1,170	9	1,029	714	315	80	216	19
18	Cost.....dollars..	2,943,605	357,590	1,244	300,675	202,808	97,867	13,294	68,677	15,896
19	Area supplied primary irrigation.....acres..	887,239	125,192	369	91,398	57,717	33,681	4,648	25,154	3,879
20	Cost per acre supplied.....dollars..	3.32	2.84	3.37	3.27	3.51	2.91	2.86	2.73	4.10
Cost of water for supplemental irrigation:										
21	Enterprises reporting.....enterprises..	257	8	.....	6	.....	6	1	5	.....
22	Cost.....dollars..	68,639	2,017	.....	2,017	.....	2,017	200	1,817	.....
23	Area supplied supplemental irrigation.....acres..	26,553	1,049	.....	749	.....	749	70	679	.....
24	Cost per acre supplied.....dollars..	2.58	1.92	.....	2.69	.....	2.69	2.86	2.68	.....
Cost to farms for purposes other than operation and maintenance: ⁴										
25	Enterprises reporting.....enterprises..	14	.....	.....	.....	.....	.....	.....	.....	.....
26	Cost.....dollars..	489,106	.....	.....	.....	.....	.....	.....	.....	.....
27	Area irrigated direct.....acres..	312,045	.....	.....	.....	.....	.....	.....	.....	.....
28	Cost per acre irrigated.....dollars..	1.57	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴										
29	Enterprises reporting.....enterprises..	16	.....	.....	.....	.....	.....	.....	.....	.....
30	Amount.....dollars..	213,177	.....	.....	.....	.....	.....	.....	.....	.....
31	Area irrigated direct.....acres..	250,044	.....	.....	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950										
32	Single-farm enterprises.....enterprises..	5,515	1,190	9	1,051	736	315	82	215	18
33	Area irrigated.....acres..	405,631	96,173	369	78,239	57,717	20,522	4,718	13,549	2,255
34	Complete-system enterprises ⁵.....enterprises..	5,148	1,152	9	1,023	713	310	81	212	17
35	Area irrigated.....acres..	392,747	94,142	369	78,044	57,662	20,382	4,718	13,439	2,225
Other farms irrigated:										
36	Enterprises reporting.....number..	99	33	.....	31	24	7	1	6	.....
37	Number of other farms.....farms..	115	37	.....	35	27	8	1	7	.....
38	Area irrigated in other farms.....acres..	5,578	1,663	.....	1,579	1,141	438	5	433	.....
Enterprises by origin of water supply: ⁵										
39	No water from other enterprises.....enterprises reporting..	5,344	1,176	9	1,047	735	312	82	213	17
40	.....acres irrigated..	393,247	94,142	369	78,044	57,662	20,382	4,718	13,439	2,225
41	Part of water from other enterprises.....enterprises reporting..	53	5	.....	1	.....	1	.....	.....	1
42	.....acres irrigated..	6,127	1,043	.....	30	.....	30	.....	.....	30
43	All of water from other enterprises.....enterprises reporting..	118	9	.....	3	1	2	.....	2	.....
44	.....acres irrigated..	6,257	988	.....	165	55	110	.....	110	.....
Enterprises by primary and supplemental irrigation:										
45	All primary.....enterprises reporting..	5,090	1,159	9	1,022	714	308	80	210	18
46	.....acres irrigated..	388,700	95,190	369	77,556	57,717	19,839	4,648	12,936	2,255
47	Part primary, part supplemental.....enterprises reporting..	11	2	.....	2	.....	2	.....	2	.....
48	.....acres irrigated..	665	245	.....	245	.....	245	.....	245	.....
49	Supplemental irrigation.....acres irrigated..	700	288	.....	288	.....	288	.....	288	.....
50	All supplemental.....enterprises reporting..	221	5	.....	3	.....	3	1	2	.....
51	.....acres irrigated..	15,566	450	.....	150	.....	150	70	80	.....
Enterprises by number of acres irrigated: ⁵										
52	None.....enterprises reporting..	193	24	.....	24	22	2	1	1	.....
53	1-9 acres.....enterprises reporting..	189	35	1	23	11	12	6	6	.....
54	10-29 acres.....enterprises reporting..	812	145	3	129	57	72	19	52	1
55	30-59 acres.....enterprises reporting..	1,581	285	2	249	152	97	20	68	9
56	60-99 acres.....enterprises reporting..	1,444	407	2	389	303	86	24	58	4
57	100-199 acres.....enterprises reporting..	1,030	227	1	202	168	34	9	23	2
58	200-499 acres.....enterprises reporting..	238	9	.....	32	22	10	3	6	1
59	500-999 acres.....enterprises reporting..	24	9	.....	3	1	2	.....	1	1
60	1,000 acres or more.....enterprises reporting..	4	1	.....	.....	.....	.....	.....	.....	.....

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

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

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

⁴ Not reported by single-farm enterprises.

⁵ For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.

CHARACTERISTICS, BY DRAINAGE BASINS: CENSUSES OF 1950 AND 1940

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]

Missouri River excluding Platte River (VI-C)—Continued			Platte River excluding South Platte River (VI-D)						South Platte River (VI-E)					
Nebraska River	White River	Cheyenne River direct (Hat Creek)	Total	Platte River direct	Loup River		North Platte River (North Platte River direct)			Total	South Platte River direct	Lodgepole Creek		
					Total	Below St. Paul	Above St. Paul	Total	Below Keystone				Above Keystone	
(3)	(4)	(5a)		(1)	(2a)	(2b)	(3a)	(3b)		(1a)	(2)			
73	24	37	3,950	3,126	455	271	184	369	73	296	263	133	130	1
41,489	13,622	560	2,529,371	1,096,728	244,467	154,431	90,036	1,188,176	61,351	1,126,825	123,266	51,961	71,305	2
22,464	6,928	4,333	744,013	348,481	55,837	37,208	18,629	339,695	40,134	299,561	43,538	26,015	17,523	3
1.85	1.97	0.13	3.40	3.15	4.38	4.15	4.83	3.50	1.53	3.76	2.83	2.00	4.07	4
1.86	2.02	0.13	3.48	3.22	4.43	4.20	4.89	3.59	1.61	3.85	3.45	2.71	4.31	5
1.24	(3)	(3)	1.93	2.30	4.92	(3)	(3)	1.63	0.95	1.75	1.50	0.97	(3)	6
31	16	36	456	335	36	16	20	85	24	61	42	23	19	7
8,417	1,236	4,183	53,962	22,095	2,180	987	1,193	29,687	8,581	21,106	16,090	13,289	2,801	8
3	1		801	676	71	47	24	54	11	43	41	29	12	9
220	45		101,762	53,316	4,624	3,307	1,317	43,822	25,223	18,599	5,827	4,168	1,659	10
14	5	1	1,916	1,601	191	122	69	124	16	108	97	54	43	11
11,679	5,629	150	486,426	245,312	32,409	29,487	2,922	208,705	5,464	203,241	13,187	6,373	6,814	12
19	1		565	395	104	61	43	66	14	52	62	18	44	13
2,000	3		94,104	23,442	14,948	2,655	12,293	55,714	645	55,069	6,742	1,462	5,280	14
6	1		212	119	53	25	28	40	8	32	21	9	12	15
148	15		7,759	4,316	1,676	772	904	1,767	221	1,546	1,692	723	969	16
72	23	37	3,770	3,058	442	264	178	270	38	232	227	105	122	17
41,489	13,622	560	2,480,104	1,071,429	242,247	153,231	89,016	1,166,428	55,840	1,110,588	105,911	37,993	67,918	18
22,364	6,728	4,333	726,321	340,410	55,179	36,780	18,399	330,732	38,165	292,567	35,726	19,196	16,530	19
1.86	2.02	0.13	3.42	3.15	4.39	4.17	4.84	3.53	1.46	3.80	2.96	1.98	4.11	20
1	1		209	75	14	8	6	120	35	85	40	31	9	21
0			49,267	25,299	2,220	1,200	1,020	21,748	5,511	16,237	17,355	13,968	3,387	22
100	200		17,692	8,071	658	428	230	8,963	1,969	6,994	7,812	6,819	993	23
0.00	0.00		2.78	3.13	3.37	2.80	4.43	2.43	2.80	2.32	2.22	2.05	3.41	24
			14	3	1		1	10		10				25
			489,106	101,565	10,283		10,283	377,258		377,258				26
			312,045	87,900	10,283		10,283	213,862		213,862				27
			1.57	1.16	1.00		1.00	1.76		1.76				28
			15	7	2			6	1	5				29
			213,148	92,955	21,479	21,479		98,714	4,800	93,914	29		29	30
			247,799	12,980	21,202	21,202		213,617	5,500	208,117	2,245		2,245	31
70	23	37	4,062	3,193	465	279	186	404	107	297	263	132	131	32
11,789	1,443	4,333	279,228	225,768	24,352	16,006	8,346	29,108	3,458	25,650	30,230	15,207	15,207	33
63	20	37	3,761	2,996	449	267	182	316	66	250	235	130	105	34
10,046	1,350	4,333	270,937	218,373	24,257	15,931	8,326	28,307	3,458	24,849	27,668	15,207	12,461	35
2			56	33	12	5	7	11		11	10	6	4	36
2			65	37	12	5	7	16		16	13	7	6	37
84			3,225	1,106	389	164	225	1,730		1,730	690	508	182	38
63	20	37	3,927	3,074	462	277	185	391	107	284	241	132	109	39
10,046	1,350	4,333	271,237	218,673	24,257	15,931	8,326	28,307	3,458	24,849	27,868	15,207	12,661	40
3	1		31	23	2	2		6		6	17		17	41
980	33		2,888	2,351	75	75		462		462	2,196		2,196	42
4	2		104	96	1			7		7	5		5	43
763	60		5,103	4,744	20		20	339		339	166		166	44
69	22	37	3,711	3,047	439	262	177	225	31	194	220	100	120	45
11,689	1,243	4,333	268,642	221,259	23,861	15,745	8,116	23,522	1,489	22,033	24,868	10,680	14,188	46
			7	2				5		5	2		2	47
			195	96				9		9	225		225	48
			296	50				246		246	116		116	49
1	1		180	68	13	7	6	99	35	64	36	28	8	50
100	200		10,095	4,363	491	261	230	5,241	1,969	3,272	5,021	4,186	835	51
			164	76	13	10	3	75	41	34	5	2	3	52
5	2	4	146	94	14	4	10	38	9	29	8	5	3	53
4	4	5	647	477	108	52	56	62	13	49	20	12	8	54
14	10	10	1,251	1,017	163	100	63	71	18	53	45	21	24	55
10	3	3	976	791	116	75	41	69	16	53	61	28	33	56
16	2	6	719	611	47	35	12	61	10	51	84	44	40	57
15	2	8	145	119	3	2	1	23		23	36	19	17	58
5	1	1	12	8	1			3		3	3	1	2	59
1			2					2		2	1		1	60

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State (Mississippi River) ¹	Missouri River excluding Platte River (VI-C)				
		Total ¹	Kansas River		Niobrara River	
			Total ¹	Republican River		
				Total ¹		Republican River direct above Harlan County Dam (2c)	(3)
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ².....enterprises..	68	9	5	5	4	3
2 Area irrigated direct.....acres..	508,161	30,068	13,908	13,908	12,284	10,675
3 Multiple-purpose enterprises ².....enterprises..	4	.....	.....	.....	.....	.....
4 Area irrigated direct.....acres..	83,062	.....	.....	.....	.....	.....
5 Complete-system enterprises ².....enterprises..	48	7	5	5	4	1
6 Area irrigated direct.....acres..	185,859	29,893	13,908	13,908	12,284	10,500
Enterprises by origin of water supply: ²						
7 No water from other enterprises.....enterprises reporting..	49	9	5	5	4	3
8 acres irrigated.....acres..	207,665	30,068	13,908	13,908	12,284	10,675
9 Part of water from other enterprises.....enterprises reporting..	15	.....	.....	.....	.....	.....
10 acres irrigated.....acres..	150,791	.....	.....	.....	.....	.....
11 All water from other enterprises.....enterprises reporting..	4	.....	.....	.....	.....	.....
12 acres irrigated.....acres..	149,705	.....	.....	.....	.....	.....
Enterprises by delivery of irrigation water: ²						
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	49	5	4	4	4	.....
15 acres irrigated.....acres..	218,108	17,769	12,284	12,284	12,284	.....
16 Water delivered to farms and to other enterprises.....enterprises reporting..	17	4	1	1	.....	3
17 acres irrigated.....acres..	290,053	12,299	1,624	1,624	.....	10,675
18 Water delivered to other enterprises only.....enterprises reporting..	2	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation: ³						
19 All primary.....enterprises reporting..	41	8	4	4	3	3
20 acres irrigated.....acres..	318,001	27,337	11,177	11,177	9,553	10,675
21 Part primary, part supplemental.....enterprises reporting..	25	1	1	1	1	.....
22 Primary irrigation.....acres irrigated..	179,873	2,420	2,420	2,420	2,420	.....
23 Supplemental irrigation.....acres irrigated..	10,207	311	311	311	311	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
25 acres irrigated.....acres..	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct: ²						
26 None.....enterprises reporting..	2	.....	.....	.....	.....	.....
27 1-3.....enterprises reporting..	7	2	.....	.....	.....	2
28 4-9.....enterprises reporting..	8	2	2	2	2	.....
29 10-29.....enterprises reporting..	17	1	1	1	.....	.....
30 30-99.....enterprises reporting..	18	3	2	2	2	.....
31 100-299.....enterprises reporting..	10	1	.....	.....	.....	1
32 300-999.....enterprises reporting..	5	.....	.....	.....	.....	.....
33 1,000 or more.....enterprises reporting..	1	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ²						
34 None.....enterprises reporting..	2	.....	.....	.....	.....	.....
35 1-99 acres.....enterprises reporting..	2	1	.....	.....	.....	1
36 100-999 acres.....enterprises reporting..	17	3	2	2	2	1
37 1,000-2,999 acres.....enterprises reporting..	16	2	2	2	1	.....
38 3,000-9,999 acres.....enterprises reporting..	19	2	1	1	1	.....
39 10,000-29,999 acres.....enterprises reporting..	8	1	.....	.....	.....	1
40 30,000 acres or more.....enterprises reporting..	4	.....	.....	.....	.....	.....
Quantities of water reported, 1949:						
41 Total obtained from all sources ⁴.....enterprises reporting..	65	7	3	3	3	3
42 percent of all enterprises reporting..	1	1	(*)	1	1	4
43 acre-feet..	3,879,942	64,097	32,210	32,210	32,210	22,554
44 Surface sources.....enterprises reporting..	61	7	3	3	3	3
45 acre-feet..	2,872,477	64,097	32,210	32,210	32,210	22,554
46 Pumped wells.....enterprises reporting..	1	.....	.....	.....	.....	.....
47 acre-feet..	500	.....	.....	.....	.....	.....
48 Other enterprises.....enterprises reporting..	19	.....	.....	.....	.....	.....
49 acre-feet..	1,006,965	.....	.....	.....	.....	.....
50 Conveyance loss ⁴.....enterprises reporting..	65	7	3	3	3	3
51 acre-feet..	1,125,438	16,436	7,984	7,984	7,984	6,119
Delivered: ⁴						
52 Direct to farms.....enterprises reporting..	63	7	3	3	3	3
53 acre-feet..	950,477	47,069	24,226	24,226	24,226	15,843
54 To other enterprises.....enterprises reporting..	17	3	.....	.....	.....	3
55 acre-feet..	172,182	592	.....	.....	.....	592
56 For use other than irrigation.....enterprises reporting..	9	.....	.....	.....	.....	.....
57 acre-feet..	1,631,845	.....	.....	.....	.....	.....
Delivered direct to farms for primary irrigation: ³						
58 Enterprises reporting.....enterprises..	63	7	3	3	3	3
59 Quantity delivered.....acre-feet..	898,262	46,553	23,710	23,710	23,710	15,843
60 Area supplied primary irrigation.....acres..	492,153	27,503	11,343	11,343	11,343	10,675
61 Quantity supplied per acre.....acre-feet..	1.8	1.7	2.1	2.1	2.1	1.5
Delivered direct to farms for supplemental irrigation: ³						
62 Enterprises reporting.....enterprises..	24	1	1	1	1	.....
63 Quantity delivered.....acre-feet..	22,066	516	516	516	516	.....
64 Area supplied supplemental irrigation.....acres..	10,254	311	311	311	311	.....
65 Quantity supplied per acre.....acre-feet..	2.2	1.7	1.7	1.7	1.7	.....
66 Total quantity per irrigated acre ⁵.....acre-feet..	1.9	1.7	2.1	2.1	2.2	1.5
Cost of water to farms for enterprises reporting quantity delivered, 1949: ³						
67 Cost for primary irrigation.....dollars..	1,676,836	58,106	24,758	24,758	24,758	21,062
68 Average cost per acre-foot.....dollars..	1.87	1.25	1.04	1.04	1.04	1.33
69 Cost for supplemental irrigation.....dollars..	27,099	1,243	1,243	1,243	1,243	.....
70 Average cost per acre-foot.....dollars..	1.23	2.41	2.41	2.41	2.41	.....
Measurement of water to farms, 1949: ³						
71 No water measured.....enterprises reporting..	47	6	3	3	2	2
72 acres irrigated.....acres..	123,101	17,314	11,654	11,654	11,654	175
73 Part of water measured.....enterprises reporting..	6	.....	.....	.....	.....	.....
74 acres irrigated.....acres..	40,086	.....	.....	.....	.....	.....
75 All water measured.....enterprises reporting..	11	1	.....	.....	.....	1
76 acres irrigated.....acres..	265,041	10,500	.....	.....	.....	10,500

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

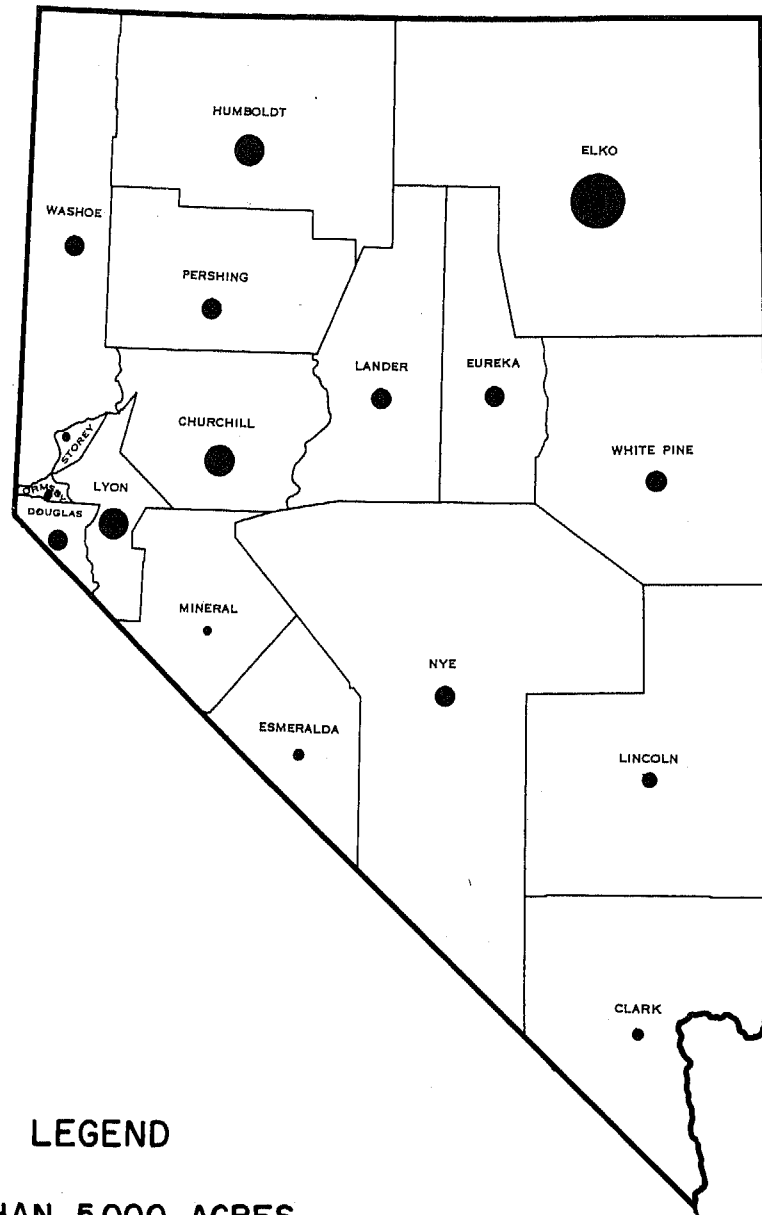
IRRIGATION OF AGRICULTURAL LANDS

NEVADA

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LEGEND

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

NEVADA: 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.....	3,110	7,063,525	2,819	727,498	722,896	1,178	20,181,476
1945.....	3,429	6,178,004	3,072	674,204	(*)	(*)	(*)
1940.....	3,573	3,785,106	3,264	375,636	739,863	1,464	16,906,790
1935.....	3,696	3,621,769	2,927	425,286	(*)	(*)	(*)
1930.....	3,442	4,080,906	3,031	539,192	486,648	1,245	15,457,931
1920.....	3,163	2,357,163	2,718	(**)	561,447	1,015	14,754,280
1910.....	2,609	2,714,757	2,406	(**)	701,833	1,347	6,721,924
1900.....	2,184	2,565,647	1,906	504,168	(*)	(*)	1,537,559
1890.....	1,277	1,661,416	1,167	224,403	(*)	(*)	1,700,975

*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 324,893 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..	1,178	1,464	1,245	1,015
Enterprises by type:				
Single-farm..... number..	1,021	1,362	1,198	(*)
Mutual:				
Unincorporated..... number..	90	38	32	(*)
Incorporated..... number..	47	39	3	(*)
Commercial..... number..	2	2	3	(*)
District..... number..	2	2	2	(*)
U.S. Bureau of Reclamation ¹ number..	4	3	1	(*)
U.S. Bureau of Indian Affairs..... number..	14	14	6	(*)
State..... number..	2	2	3	(*)
City..... number..	2	2	2	(*)
Other..... number..	2	2	2	(*)
Irrigated land, total ² acres..	722,896	739,863	486,648	561,447
Acreage irrigated, by type of enterprise: ³				
Single-farm..... acres..	445,409	438,996	316,918	355,901
Mutual:				
Unincorporated..... acres..	92,964	85,039	32,267	69,877
Incorporated..... acres..	74,197	144,914	5,855	5,990
Commercial..... acres..	(⁵)	(⁴)	5,855	5,990
District..... acres..	96,547	67,940	80,000	80,000
U.S. Bureau of Reclamation ¹ acres..	69,345	54,040	41,324	41,324
U.S. Bureau of Indian Affairs..... acres..	17,580	17,607	6,148	5,321
State..... acres..	6744	220	12	12
City..... acres..	2	2	22	22
Other..... acres..	(⁶)	(⁶)	71,200	71,200
Acreage irrigated, by source of water: ^{3 7}				
Streams (and lakes)..... acres..	690,956	742,658	399,790	493,011
Springs..... acres..	158,221	118,360	61,987	21,987
Flowing wells..... acres..	17,196	5,343	3,583	950
Pumped wells..... acres..	62,503	12,265	4,554	5,317
Sewage..... acres..	1,022	(⁵)	88	88
Other and not reported..... acres..	10,906	22,938	21,445	45,190
Irrigated land artificially drained..... acres..	123,059	94,450	126,249	34,175
Irrigated land in need of drainage..... acres..	81,371	21,153	26,348	98,249
Irrigation works:				
Diversion dams..... total number..	4,065	1,896	1,640	1,523
Reservoirs..... number..	202	200	209	134
Total capacity (reported)..... acre-feet..	687,179	696,005	529,369	504,428
Reservoir dams..... total number..	202	122	118	82
Canals and ditches..... total length, miles..	3,388	2,897	4,155	4,368
Pipe lines..... total length, miles..	123	105	91	33
Flowing wells..... number..	290	322	274	123
Pumped wells..... number..	254	167	147	129
Average pumping lift (reported)..... feet..	51	31	(*)	(*)
Pumps..... number..	289	196	173	72
Average pumping lift from all sources..... feet..	(*)	31	31	22
Capital investment, total..... dollars..	20,191,476	16,906,790	15,457,931	14,754,280
Capital investment by type of enterprise:				
Single-farm..... dollars..	4,089,082	2,350,895	4,530,708	4,014,570
Mutual:				
Unincorporated..... dollars..	1,063,499	828,733	936,400	1,019,047
Incorporated..... dollars..	3,155,108	42,776,276	227,000	340,550
Commercial..... dollars..	(⁵)	(⁴)	227,000	340,550
District..... dollars..	1,148,754	888,934	1,246,611	1,246,611
U.S. Bureau of Reclamation ¹ dollars..	8,838,237	8,838,237	7,767,759	7,953,537
U.S. Bureau of Indian Affairs..... dollars..	1,869,586	1,206,505	360,214	178,536
State..... dollars..	17,210	17,210	11,066	1,000
City..... dollars..	2	2	420	420
Other..... dollars..	2	2	1,624,850	1,624,850

*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 2 "Commercial" enterprises included with "Incorporated" enterprises in 1940 Census. ⁵Data for less than 3 enterprises not shown separately. ⁶Data for 2 "Other" enterprises included with "State" enterprises in 1940 Census. ⁷Data for 1940, 1930, and 1920 combined as follows: "Stored storm water" with "Streams and lakes"; "City water" and "Other mixed" with "Other and not reported." For 1940, acreages reported by less than 3 enterprises for "Lakes, pumped", "City water", and "Sewage" are omitted.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	Type of enterprise							
	All types	Single-farm	Mutual		District	U.S. Bureau of Reclamation ¹	All or part of water from U.S.B.R. projects ² 3	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated				
ENTERPRISES: FARMS AND LAND IRRIGATED								
Number of enterprises.....enterprises 1950..	1,178	1,021	90	47	4		26	16
.....enterprises 1940..	1,464	1,362	38	39	2	3	(*)	20
Farms irrigated direct per enterprise.....farms 1949..	2.7	1.0	4.3	16.3	164.0		15.3	23.6
Area irrigated direct.....acres 1949..	731,708	445,409	92,964	74,197	96,547		46,928	22,591
.....acres 1939..	824,585	438,996	85,039	144,914	67,940		69,345	18,351
Average per enterprise.....acres 1949..	621	436	1,033	1,579	24,137		1,005	1,412
CHARACTERISTICS OF ENTERPRISES, 1949								
Multiple-purpose enterprises.....enterprises..	8		1	5	1		2	1
Area irrigated direct.....acres..	93,645		178	6,428	85,599		3,124	1,440
Complete-system enterprises.....enterprises..	1,042	966	44	19	1			12
Area irrigated direct.....acres..	564,245	416,905	29,345	16,392	85,599			16,004
Enterprises by origin of water supply:								
No water from other enterprises.....enterprises reporting..	1,050	972	42	21	3			12
.....acres irrigated..	574,585	421,102	27,680	17,057	92,743			16,004
Part of water from other enterprises.....enterprises reporting..	59	31	14	12			18	2
.....acres irrigated..	50,626	20,123	9,685	15,807			23,082	5,011
All water from other enterprises.....enterprises reporting..	69	18	34	14	1		8	2
.....acres irrigated..	106,496	4,184	55,599	41,333	3,804		23,846	1,576
Enterprises by delivery of irrigation water:								
No water delivered.....enterprises reporting..	2	2						
Water delivered direct to farms only.....enterprises reporting..	1,147	1,015	83	33	1		17	15
.....acres irrigated..	598,661	441,212	86,069	48,556	3,804		26,226	19,020
Water delivered to farms and to other enterprises.....enterprises reporting..	24	4	5	12	2		9	1
.....acres irrigated..	133,047	4,197	6,895	25,641	92,743		20,702	3,571
Water delivered to other enterprises only.....enterprises reporting..	5		2	2	1			
Enterprises by primary and supplemental irrigation:⁴								
All primary.....enterprises reporting..	1,146	1,013	77	37	3		23	16
.....acres irrigated..	692,961	443,918	63,118	66,787	96,547		44,379	22,591
Part primary, part supplemental.....enterprises reporting..	18	1	11	6			3	
.....acres irrigated..	29,935	20	22,689	7,226			2,468	
Supplemental irrigation.....acres irrigated..	7,548	207	7,157	184			81	
All supplemental.....enterprises reporting..	5	5						
.....acres irrigated..	1,264	1,264						
Enterprises by number of farms irrigated direct:								
None.....enterprises reporting..	7	2	2	2	1			
1-3.....enterprises reporting..	1,065	1,001	53	7			5	4
4-9.....enterprises reporting..	60	18	28	11	1		10	2
10-29.....enterprises reporting..	31		7	18	1		6	5
30-99.....enterprises reporting..	12			8			5	4
100-299.....enterprises reporting..	2			1				1
300-999.....enterprises reporting..	1				1			
1,000 or more.....enterprises reporting..								
Enterprises by acres irrigated direct:								
None.....enterprises reporting..	7	2	2	2	1			
1-29.....enterprises reporting..	227	226	1				1	
30-99.....enterprises reporting..	225	218	5	2			1	
100-499.....enterprises reporting..	414	367	32	7			8	8
500-999.....enterprises reporting..	136	99	25	11			2	1
1,000-2,999.....enterprises reporting..	120	81	19	15			8	5
3,000-9,999.....enterprises reporting..	43	25	5	9	2		6	2
10,000-29,999.....enterprises reporting..	5	3	1	1				
30,000 or more.....enterprises reporting..	1				1			
USE OF SURFACE, GROUND, PUMPED AND STORED WATER, 1949								
Surface water:								
Gravity only.....enterprises reporting..	975	822	88	47	4		26	14
.....acres irrigated..	654,415	371,077	90,696	74,197	96,547		46,928	21,898
Pumped only.....enterprises reporting..	18	18						
.....acres irrigated..	8,065	8,065						
Gravity and pumped.....enterprises reporting..	11	11						
.....acres irrigated..	6,725	6,725						
Ground water only (pumped from wells).....enterprises reporting..	80	79	1					
.....acres irrigated..	2,975	2,913	62					
Surface (gravity or pumped) and ground.....enterprises reporting..	94	91	1					2
.....acres irrigated..	59,528	56,629	2,206					693
Stored water:								
None stored.....enterprises reporting..	948	867	52	19			1	10
.....acres irrigated..	413,960	357,283	32,184	16,129			26	8,364
Part stored.....enterprises reporting..	184	119	32	24	3		18	6
.....acres irrigated..	282,470	80,162	44,796	46,738	96,547		23,082	14,227
All stored.....enterprises reporting..	46	35	6	4	1		7	
.....acres irrigated..	35,278	7,964	15,984	11,330			23,820	

*Not available.

¹Data for less than 3 U.S. Bureau of Reclamation enterprises operated by water users are included only for other types of enterprises and for "All types."²These enterprises also included under "District" or other types of enterprises as the case may be.³Single-farm enterprises receiving water from Bureau of Reclamation not included.⁴For 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	Operated by U.S. Bureau of Reclamation ¹	All or part of water from U.S.B.R. projects ^{2 3}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated				
SOURCES OF SURFACE WATER, 1949⁴								
Streams (and lakes).....enterprises reporting..	879	731	89	39	4		26	16
acres irrigated..	690,956	410,537	92,902	68,379	96,547		46,928	22,591
Spring.....enterprises reporting..	328	315		11			1	2
acres irrigated..	158,221	141,938		11,134			4,008	5,149
Flowing wells.....enterprises reporting..	85	85						
acres irrigated..	17,196	17,196						
Drainage water.....enterprises reporting..	24	19	2	3			4	
acres irrigated..	10,906	2,959	2,675	5,272			7,387	
Sewage.....enterprises reporting..	3	3						
acres irrigated..	1,022	1,022						
Other sources.....enterprises reporting..								
acres irrigated..								
DRAINAGE OF IRRIGATED LAND, 1949								
Irrigated land drained:								
Enterprises reporting.....enterprises..	77	31	24	19	1		15	2
Area supplied primary irrigation.....acres..	209,306	25,182	47,636	49,409	85,599		32,830	1,480
Area artificially drained.....acres..	123,059	15,045	26,570	30,145	50,599		17,703	700
Irrigated land in need of drainage:								
Enterprises reporting.....enterprises..	130	98	14	13	1		9	4
Area supplied primary irrigation.....acres..	232,669	84,712	25,631	30,172	85,599		28,568	6,555
Area in need of drainage.....acres..	81,371	7,401	9,197	7,944	50,599		8,634	6,230
IRRIGATION WORKS, 1950								
Diversion dams.....enterprises reporting..	891	772	75	31	2		22	11
dams..	4,065	3,905	90	40	4		23	26
Diversion dams by material:								
Concrete or masonry.....dams..	348	300	20	18	3		11	7
Timber.....dams..	256	241	9	1			5	5
Earth and rock.....dams..	2,953	2,889	45	15	1		12	3
Other, mixed, and not reported.....dams..	508	475	16	6			11	11
Reservoirs.....enterprises reporting..	139	132	1	2	2		2	2
reservoirs..	202	192	1	3	4		2	2
Reservoirs for which capacity was reported.....number..	176	166	1	3	4		2	2
total capacity, acre-feet..	677,179	37,330	600	44,500	559,149			45,600
Reservoirs by capacity:								
1-99 acre-feet.....reservoirs..	135	135		1				
100-999 acre-feet.....reservoirs..	24	22	1					2
1,000 acre-feet and over.....reservoirs..	17	9		2	4			
Reservoir dams by material:								
Concrete or masonry.....dams..	8	6		1				1
Earth and rock.....dams..	174	167	1	1	4			1
Other, mixed, and not reported.....dams..	20	19		4				16
Canals and ditches.....enterprises reporting..	721	571	88	44	2		26	16
total length, miles..	3,388	1,979	362	444	329		213	274
Pipelines and siphons.....enterprises reporting..	75	66	5	1	1			2
total length, miles..	123	104	2	2	10			6
Tunnels.....enterprises reporting..	12	12	4	6	1		7	1
total length, feet..	23,277		11,440	7,186	4,600		15,077	51
Flowing wells.....enterprises reporting..	85	85						
wells..	290	290						2
Pumped wells.....enterprises reporting..	173	169	2					2
wells..	254	249	3					2
Wells for which pumping lift was reported.....wells..	225	220	3					26
Average pumping lift.....feet..	51	52	22					2
Irrigation pumps.....enterprises reporting..	200	196	2					2
pumps..	289	284	3					2
Electric motors used for pumping.....enterprises reporting..	97	95						2
electric motors..	127	125						
Other motors and engines used for pumping.....enterprises reporting..	99	97	2					
other motors and engines..	153	150	3					
SEASON OF IRRIGATION, 1949								
Water delivered only before July 1.....enterprises reporting..	95	92	2					1
acres irrigated..	72,993	67,666	2,365					2,962
Water delivered before and after July 1.....enterprises reporting..	1,046	892	88	47	4		26	15
acres irrigated..	646,947	365,975	90,599	74,197	96,547		46,928	19,629
Water delivered only after July 1.....enterprises reporting..	14	14						
acres irrigated..	3,373	3,373						
CAPITAL INVESTMENT, 1950 AND 1940								
Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	16,906,790	2,350,895	828,733	2,776,276	888,934	8,838,237	(*)	1,228,715
New capital investment Jan. 1, 1940 to Jan. 1, 1950:								
Enterprises reporting.....enterprises 1950..	536	449	49	24	2		10	12
Amount.....dollars 1950..	3,274,686	1,738,187	234,766	378,822	259,820		58,400	663,081
Area irrigated direct.....acres 1949..	400,424	203,544	53,267	42,560	85,599		15,098	15,454
Total capital investment Jan. 1, 1950.....dollars 1949..	20,181,476	4,089,082	1,063,499	3,155,108	1,148,754	8,838,237	(*)	1,886,796
INDEBTEDNESS, 1950⁵								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	21			7	4		1	10
Amount.....dollars	2,973,295			59,427	2,017,535		1,500	896,333
Area irrigated direct.....acres..	121,910			15,234	96,547		3,110	10,129
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
Enterprises reporting.....enterprises..	2				1			1
Amount.....dollars	179,154				136			179,018
Area irrigated direct.....acres..	85,014				82,051			2,963

*Not available.
¹Data for less than 3 U.S. Bureau of Reclamation enterprises operated by water users are included only for other types of enterprises and for "All types."
²These enterprises also included under "District" or other types of enterprises as the case may be.
³Not including single-farm enterprises receiving water from Bureau of Reclamation projects.
⁴Enterprises 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 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	All or part of water from U.S.B.R. projects ^{2,3}	Commercial, Indian, State, city, and other
			Unincorporated	Incorporated				
COST OF WATER TO FARMS, 1949⁴								
Total cost of water to farms:								
Enterprises reporting.....enterprises..	1,169	1,019	88	43	3		26	16
Cost.....dollars..	629,599	160,527	100,983	161,148	184,916		118,048	22,025
Area irrigated direct.....acres..	731,708	445,409	92,964	74,197	96,547		46,928	22,591
Cost per acre irrigated direct.....dollars..	0.86	0.36	1.09	2.17	1.92		2.51	0.97
Enterprises by cost per acre:								
Less than \$1.00.....enterprises reporting..	878	796	57	13			1	12
acres irrigated..	491,233	414,254	47,460	10,416			2,187	19,103
\$1.00-\$1.99.....enterprises reporting..	72	39	21	9	2		9	1
acres irrigated..	155,838	13,335	28,893	20,395	92,743		9,381	472
\$2.00-\$4.99.....enterprises reporting..	98	70	7	18	1		15	2
acres irrigated..	74,298	13,409	16,298	38,949	3,804		35,205	1,838
\$5.00-\$9.99.....enterprises reporting..	40	35	1	3				1
acres irrigated..	8,275	2,564	96	4,437				1,170
\$10.00 or more.....enterprises reporting..	81	79	2				1	
acres irrigated..	2,064	1,847	217				155	
Cost of water for primary irrigation:								
Enterprises reporting.....enterprises..	1,164	1,014	88	43	3		26	16
Cost.....dollars..	616,250	157,696	90,749	160,864	184,916		117,858	22,025
Area supplied primary irrigation.....acres..	722,896	443,938	85,807	74,013	96,547		46,847	22,591
Cost per acre supplied.....dollars..	0.85	0.36	1.06	2.17	1.92		2.51	0.97
Cost of water for supplemental irrigation:								
Enterprises reporting.....enterprises..	23	6	11	6			3	
Cost.....dollars..	13,349	2,831	10,234	284			190	
Area supplied supplemental irrigation.....acres..	8,812	1,471	7,157	184			81	
Cost per acre supplied.....dollars..	1.51	1.92	1.43	1.54			2.34	
Cost to farms for purposes other than operation and maintenance: ⁵								
Enterprises reporting.....enterprises..	76		42	28	3		25	3
Cost.....dollars..	157,910		34,146	45,991	75,959		36,121	1,814
Area irrigated direct.....acres..	228,691		65,798	63,330	96,547		46,902	3,016
Cost per acre irrigated.....dollars..	0.69		0.52	0.73	0.79		0.77	0.60
Arrearage in payments by farms, Jan. 1, 1950: ⁵								
Enterprises reporting.....enterprises..	7			3	3		2	1
Amount.....dollars..	47,717			5,805	38,294		380	3,618
Area irrigated direct.....acres..	104,319			4,809	96,547		1,989	2,963
QUANTITIES OF WATER REPORTED, 1949⁵								
Total obtained from all sources ⁶.....enterprises reporting..	157		90	47	4		26	16
acres-foot..	1,578,171		290,832	449,915	685,137		211,784	152,287
Surface sources.....enterprises reporting..	105		55	33	3		18	14
acres-foot..	1,190,540		121,156	265,956	672,990		69,364	130,438
Pumped wells.....enterprises reporting..	1		1					
acres-foot..	26		26					
Other enterprises.....enterprises reporting..	79		48	26	1		26	4
acres-foot..	387,605		169,650	183,959	12,147		142,420	21,849
Conveyance loss ⁶.....enterprises reporting..	136		75	42	3		18	16
acres-foot..	261,314		34,883	85,913	115,184		19,890	25,334
Delivered: ⁶								
Direct to farms.....enterprises reporting..	152		88	45	3		26	16
acres-foot..	931,394		242,616	291,885	295,540		153,871	101,353
To other enterprises.....enterprises reporting..	25		7	14	3		9	1
acres-foot..	345,466		12,813	54,740	268,413		18,018	9,500
For use other than irrigation.....enterprises reporting..	16		1	13	1		5	1
acres-foot..	39,997		520	17,377	6,000		20,005	16,100
Delivered direct to farms for primary irrigation:								
Enterprises reporting.....enterprises..	150		88	43	3		26	16
Quantity delivered.....acres-foot..	835,180		225,223	227,144	295,540		153,580	87,273
Area supplied primary irrigation.....acres..	278,958		85,807	74,013	96,547		46,847	22,591
Quantity per acre supplied.....acres-foot..	3.0		2.6	3.1	3.1		3.2	3.9
Delivered direct to farms for supplemental irrigation:								
Enterprises reporting.....enterprises..	17		11	6			3	
Quantity delivered.....acres-foot..	17,893		17,393	500			291	
Area supplied supplemental irrigation.....acres..	7,341		7,157	184			81	
Quantity per acre supplied.....acres-foot..	2.4		2.4	2.7			3.5	
Cost of water to farms for enterprises reporting quantity delivered:								
Cost for primary irrigation.....dollars..	458,554		90,749	160,864	184,916		117,858	22,025
Average cost per acre-foot.....dollars..	0.55		0.40	0.71	0.63		0.76	0.25
Cost for supplemental irrigation.....dollars..	10,518		10,234	284			190	
Average cost per acre-foot.....dollars..	0.59		0.59	0.57			0.65	
Measurement of water to farms:								
No water measured.....enterprises reporting..	118		75	29	1		12	13
acres..	103,927		54,870	27,933	3,804		8,994	17,320
Part of water measured.....enterprises reporting..	6		2	3			2	1
acres..	10,905		4,980	2,354			1,803	3,571
All water measured.....enterprises reporting..	29		12	13	3		12	1
acres..	163,283		29,592	39,508	92,743		36,131	1,440

¹Data for less than 3 U.S. Bureau of Reclamation enterprises operated by water users are included only for other types of enterprises and for "All types." ²These enterprises also included under "District" or other types of enterprises as the case may be. ³Not including single-farm enterprises receiving water from Bureau of Reclamation projects. ⁴Enterprises with reported cost of \$0 in 1949 are included. ⁵Not reported by single-farm enterprises. ⁶For interstate enterprises, data represent characteristics of the entire enterprise.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				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..	1,042	858	13	77	94	425	492	120	5
Farms irrigated direct per enterprise.....farms..	2.2	2.4	1.0	1.0	1.5	1.0	1.4	4.7	126.0
Area irrigated.....acres..	564,245	497,160	7,623	2,918	56,544	14,236	167,526	257,187	125,296
Average per enterprise.....acres..	542	579	586	38	602	33	340	2,143	25,059
CHARACTERISTICS OF ENTERPRISES									
Multiple-purpose enterprises.....enterprises..	5	5					3	1	1
Area irrigated.....acres..	89,831	89,831					1,412	2,820	85,599
Type of enterprise:									
Single-farm.....enterprises..	966	786	13	76	91	422	442	99	3
.....acres..	416,905	352,781	7,623	2,856	53,645	14,032	142,988	220,188	39,697
Mutual:									
Unincorporated.....enterprises..	44	42		1	1	3	31	10	
.....acres irrigated..	29,345	27,077		62	2,206	204	14,636	14,505	
Incorporated.....enterprises..	19	19					11	7	1
.....acres irrigated..	16,392	16,392					6,426	9,966	
Commercial.....enterprises..									
.....acres irrigated..									
District.....enterprises..	1	1							1
.....acres irrigated..	(4)	(4)							(4)
U.S. Bureau of Reclamation.....enterprises..									
.....acres irrigated..									
U.S. Bureau of Indian Affairs.....enterprises..	12	10			2		8	4	
.....acres irrigated..	16,004	15,311			693		3,476	12,528	
State.....enterprises..									
.....acres irrigated..									
City.....enterprises..									
.....acres irrigated..									
Enterprises by primary and supplemental irrigation: ⁵									
All primary.....enterprises reporting..	1,033	852	13	75	93	423	487	119	4
.....acres irrigated..	562,690	496,068	7,623	2,682	56,317	14,088	166,119	257,187	125,296
Part primary, part supplemental.....enterprises reporting..	4	3			1	1	3		
Primary irrigation.....acres irrigated..	701	681			20	44	657		
Supplemental irrigation.....acres irrigated..	308	101			207	48	260		
All supplemental.....enterprises reporting..	3	1		2		1	2		
.....acres irrigated..	546	310		236		56	490		
Enterprises by number of farms irrigated:									
1-3.....enterprises reporting..	1,007	826	13	77	91	424	479	101	3
4-9.....enterprises reporting..	17	15			2	1	6	10	
10-29.....enterprises reporting..	9	9					6	3	
30-99.....enterprises reporting..	6	5			1		1	5	
100-299.....enterprises reporting..	2	2						1	1
300-999.....enterprises reporting..	1	1							1
1,000 and over.....enterprises reporting..									
Enterprises by acreage irrigated:									
1-29.....enterprises reporting..	215	139	6	50	20	215			
30-99.....enterprises reporting..	210	167	3	17	23	210			
100-499.....enterprises reporting..	374	333	2	10	29		374		
500-999.....enterprises reporting..	118	107			11		118		
1,000-2,999.....enterprises reporting..	97	86	1		8			97	
3,000-9,999.....enterprises reporting..	23	21			1			23	
10,000-29,999.....enterprises reporting..	4	2			2				4
30,000 and over.....enterprises reporting..	1	1							1
USE OF SURFACE, GROUND, PUMPED AND STORED WATER									
Surface water:									
Gravity only.....enterprises reporting..	858	858				306	440	109	3
.....acres irrigated..	497,160	497,160				11,017	151,076	233,586	101,481
Pumped only.....enterprises reporting..	13		13			9	2	2	
.....acres irrigated..	7,623		7,623			267	259	7,097	
Gravity and pumped.....enterprises reporting..	10					2	6	2	
.....acres irrigated..	6,246				6,246	80	1,999	4,167	
Ground water only (pumped from wells).....enterprises reporting..	77			77		67	10		
.....acres irrigated..	2,918			2,918		1,251	1,667		
Surface (gravity or pumped) and ground.....enterprises reporting..	84				84	41	34	7	2
.....acres irrigated..	50,298				50,298	1,621	12,525	12,337	23,815
Stored water:									
None stored.....enterprises reporting..	908	749	13	70	76	377	431	97	3
.....acres irrigated..	397,633	341,335	7,623	2,218	46,457	12,465	148,411	197,060	39,697
Part stored.....enterprises reporting..	102	77		7	18	31	48	22	1
.....acres irrigated..	160,465	149,618		700	10,087	1,135	16,544	57,127	85,599
All stored.....enterprises reporting..	32	32				17	13	1	1
.....acres irrigated..	6,207	6,207				636	2,571	3,000	

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.

⁵For 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..	752	670	10		72	221	413	113	5
.....acres irrigated..	524,338	464,627	7,512		52,199	9,364	146,997	242,681	125,296
Springs.....enterprises reporting..	320	291	3		26	130	153	36	1
.....acres irrigated..	152,599	126,455	111		26,033	4,407	51,949	83,234	13,009
Flowing wells.....enterprises reporting..	82	62			20	49	29	4	
.....acres irrigated..	15,951	10,661			5,290	1,291	7,830	6,830	
Drainage water.....enterprises reporting..	19	19			6	13	6		
.....acres irrigated..	2,319	2,319				201	2,118		
Sewage.....enterprises reporting..	3	2			1	1	2		
.....acres irrigated..	1,022	452			570	12	1,010		
Other sources.....enterprises reporting..									
.....acres irrigated..									
DRAINAGE OF IRRIGATED LAND									
Irrigated land drained:									
Enterprises reporting.....enterprises..	29	24		2	3	7	17	3	2
.....acres..	113,802	111,154		128	2,520	148	7,650	6,323	99,681
Acreage supplied primary irrigation.....acres..	65,719	65,121		18	580	53	2,477	920	62,269
Irrigated land in need of drainage:									
Enterprises reporting.....enterprises..	108	98	1	1	8	17	66	23	2
.....acres..	183,892	164,002	19	40	19,831	595	28,232	56,457	98,608
Acreage in need of drainage.....acres..	63,757	61,575	19	40	2,123	305	4,315	8,038	51,099
IRRIGATION WORKS									
Diversion dams.....enterprises reporting..	801	731	4	3	63	255	434	108	4
.....dams..	3,921	3,575	8	6	332	530	2,052	1,283	56
Diversion dams by material:									
Concrete or masonry.....dams..	290	257	1		32	33	147	107	3
Timber.....dams..	238	192		4	42	38	112	88	
Earth or rock.....dams..	2,890	2,734	6	2	148	389	1,605	843	53
Other, mixed, and not reported.....dams..	503	392	1		110	70	188	245	
Reservoirs.....enterprises reporting..	133	110		5	18	50	58	24	1
.....reservoirs..	193	161		6	26	71	86	35	1
Reservoirs for which capacity was reported.....reservoirs..	168	136		6	26	62	74	31	1
.....total capacity, acre-feet..	410,585	407,248		69	3,268	1,705	12,931	99,349	296,600
Reservoirs by capacity:									
1-99 acre-feet.....reservoirs..	131	103		6	22	57	53	21	
100-999 acre-feet.....reservoirs..	24	21			3	5	17	2	
1,000 acre-feet and over.....reservoirs..	15	12			1		4	8	1
Reservoir dams by material:									
Concrete or masonry.....dams..	7	7				1	3	3	
Earth or rock.....dams..	167	136		6	25	68	75	23	1
Other, mixed, and not reported.....dams..	19	18			1	2	8	9	
Canals and ditches.....enterprises reporting..	606	537	8	12	49	203	314	86	3
.....total length, miles..	2,711	2,456	27	24	204	435	1,118	761	397
Pipelines and siphons.....enterprises reporting..	69	48	1		20	28	31	9	1
.....total length, miles..	118	78	1		39	34	52	19	13
Tunnels.....enterprises reporting..	3	3					1	1	1
.....total length, feet..	3,600	3,600					1,000	100	2,500
Flowing wells.....enterprises reporting..	82	62			20	49	29	4	
.....wells..	283	232			51	121	128	34	
Pumped wells.....enterprises reporting..	160	1		77	82	108	44	7	1
.....wells..	235	2		113	120	146	75	13	1
Wells for which pumping lift was reported.....wells..	205			102	103	123	73	8	1
Average pumping lift.....feet..	52			45	58	45	58	99	11
Irrigation pumps.....enterprises reporting..	181	2	11	76	92	117	52	11	1
.....pumps..	262	3	15	111	133	156	85	20	1
Electric motors used for pumping.....enterprises reporting..	89	1	6	49	33	61	26	1	1
.....electric motors..	117	2	6	63	46	72	43	1	1
Other motors and engines used for pumping.....enterprises reporting..	86	3	4	24	55	48	28	10	
.....other motors and engines..	136	4	7	42	83	71	47	18	
SEASON OF IRRIGATION									
Enterprises reporting and acreage irrigated:									
Water delivered only before July 1.....enterprises reporting..	92	85	1	1	5	27	48	16	1
.....acres irrigated..	68,285	64,092	127	21	4,045	1,326	17,806	33,271	15,882
Water delivered before and after July 1.....enterprises reporting..	918	755	11	68	84	381	432	101	4
.....acres irrigated..	484,442	425,743	7,491	2,647	48,561	12,588	146,300	216,140	109,414
Water delivered only after July 1.....enterprises reporting..	10	4	1	4	1	6	3	1	
.....acres irrigated..	3,123	462	5	26	2,630	61	432	2,630	
NEW CAPITAL INVESTMENT									
New capital investment Jan. 1, 1940 to Jan. 1, 1950:									
Enterprises reporting.....enterprises..	472	341	10	59	62	180	222	67	3
Amount.....dollars..	2,788,635	1,720,191	15,538	213,876	839,030	383,833	1,328,165	705,160	371,477
Area irrigated.....acres..	325,273	283,660	5,609	2,388	33,616	5,970	77,129	145,769	96,405
INDEBTEDNESS⁵									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	13	11			2		8	4	1
Amount.....dollars..	1,607,731	1,240,926			366,805		463,770	206,701	937,260
Area irrigated.....acres..	99,473	98,780			693		4,112	9,762	85,599
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
Enterprises reporting.....enterprises..	2	2						1	1
Amount.....dollars..	179,154	179,154						179,018	136
Area irrigated.....acres..	85,014	85,014						2,963	82,051

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

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

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

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

⁵Not reported by single-farm enterprises.

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

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

Item (For definitions and explanations, see text)	Total complete-system enterprises ¹	Type of water ²				Acres irrigated ²			
		Surface ³		Ground (pumped wells)	Mixed	1 to 99	100 to 999	1,000 to 9,999	10,000 and over
		All gravity	All pumped						
COST OF WATER TO FARMS⁴									
Total cost of water to farms:									
Enterprises reporting.....enterprises..	1,040	856	13	77	94	425	492	119	4
Cost.....dollars..	340,917	246,041	11,177	41,355	42,344	34,866	73,303	64,169	168,579
Area irrigated.....acres..	564,245	497,160	7,623	2,918	56,544	14,236	167,526	257,187	125,296
Cost per acre irrigated.....dollars..	0.60	0.49	1.47	14.17	0.75	2.45	0.44	0.25	1.35
Enterprises by cost per acre:									
Less than \$1.00.....enterprises reporting..	837	787	3	5	42	282	443	110	2
.....acres irrigated..	445,468	398,415	301	195	46,557	10,908	153,524	241,339	39,697
\$1.00-\$1.99.....enterprises reporting..	37	23	2	2	10	17	14	5	1
.....acres irrigated..	100,265	89,438	7,097	66	3,664	471	4,423	9,772	85,599
\$2.00-\$4.99.....enterprises reporting..	60	26	4	9	21	35	22	2	1
.....acres irrigated..	10,008	4,096	211	886	4,815	1,075	6,694	2,239	.....
\$5.00-\$9.99.....enterprises reporting..	32	11	.....	14	7	21	9	2	.....
.....acres irrigated..	6,742	4,887	.....	665	1,190	705	2,200	3,837	.....
\$10.00 or more.....enterprises reporting..	74	9	4	47	14	70	4	.....	.....
.....acres irrigated..	1,762	324	14	1,106	318	1,077	685	.....	.....
Cost of water for primary irrigation:									
Enterprises reporting.....enterprises..	1,037	855	13	75	94	424	490	119	4
Cost.....dollars..	339,819	245,977	11,177	40,818	41,847	34,715	72,356	64,169	168,579
Area supplied primary irrigation.....acres..	563,391	496,749	7,623	2,682	56,337	14,132	166,776	257,187	125,296
Cost per acre supplied.....dollars..	0.60	0.50	1.47	15.22	0.74	2.46	0.43	0.25	1.35
Cost of water for supplemental irrigation:									
Enterprises reporting.....enterprises..	7	4	.....	2	1	2	5	.....	.....
Cost.....dollars..	1,098	64	.....	537	497	151	947	.....	.....
Area supplied supplemental irrigation.....acres..	854	411	.....	236	207	104	750	.....	.....
Cost per acre supplied.....dollars..	1.29	0.16	.....	2.28	2.40	1.45	1.26	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁵									
Enterprises reporting.....enterprises..	15	15	.....	.....	.....	.....	8	6	1
Cost.....dollars..	75,400	75,400	.....	.....	.....	.....	4,894	5,002	65,504
Area irrigated.....acres..	99,022	99,022	.....	.....	.....	.....	4,086	9,337	85,599
Cost per acre irrigated.....dollars..	0.76	0.76	.....	.....	.....	.....	1.20	0.54	0.77
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
Enterprises reporting.....enterprises..	3	3	.....	.....	.....	.....	.....	2	1
Amount.....dollars..	43,857	43,857	.....	.....	.....	.....	.....	9,043	34,814
Area irrigated.....acres..	91,382	91,382	.....	.....	.....	.....	.....	5,783	85,599
QUANTITIES OF WATER REPORTED⁵									
Total obtained from all sources ⁶.....enterprises reporting..	76	72	.....	1	3	3	50	21	2
.....acre-feet..	749,038	735,657	.....	26	13,355	456	98,491	194,365	455,726
Surface sources.....enterprises reporting..	75	72	.....	.....	3	2	50	21	2
.....acre-feet..	748,671	735,316	.....	.....	13,355	430	98,238	194,277	455,726
Pumped wells.....enterprises reporting..	1	.....	.....	1	.....	1	.....	.....	.....
.....acre-feet..	26	.....	.....	26	.....	26	.....	.....	.....
Other enterprises.....enterprises reporting..	3	3	.....	.....	.....	.....	2	1	.....
.....acre-feet..	341	341	.....	.....	.....	.....	253	88	.....
Conveyance loss ⁶.....enterprises reporting..	70	67	.....	.....	3	2	45	21	2
.....acre-feet..	178,418	176,141	.....	.....	2,277	80	14,412	35,211	120,715
Delivered: ⁶									
Direct to farms.....enterprises reporting..	76	72	.....	1	3	3	50	21	2
.....acre-feet..	551,840	540,736	.....	26	11,078	376	82,758	147,713	320,993
To other enterprises.....enterprises reporting..	2	2	.....	.....	.....	.....	.....	1	1
.....acre-feet..	6,128	6,128	.....	.....	.....	.....	.....	110	6,018
For use other than irrigation.....enterprises reporting..	7	7	.....	.....	.....	.....	3	4	.....
.....acre-feet..	12,652	12,652	.....	.....	.....	.....	1,321	11,331	.....
Delivered to farms for primary irrigation:									
Enterprises reporting.....enterprises..	74	70	.....	1	3	3	50	20	1
Quantity delivered.....acre-feet..	473,212	462,108	.....	26	11,078	236	82,591	124,472	265,913
Acreage supplied primary irrigation.....acres..	147,239	144,278	.....	62	2,899	156	24,485	36,999	85,599
Quantity per acre supplied.....acre-feet..	3.2	3.2	.....	0.4	3.8	1.5	3.4	3.4	3.1
Delivered to farms for supplemental irrigation:									
Enterprises reporting.....enterprises..	3	3	.....	.....	.....	1	2	.....	.....
Quantity delivered.....acre-feet..	307	307	.....	.....	.....	140	167	.....	.....
Acreage supplied supplemental irrigation.....acres..	101	101	.....	.....	.....	48	53	.....	.....
Quantity per acre supplied.....acre-feet..	3.0	3.0	.....	.....	.....	2.9	3.2	.....	.....
Cost of water to farms for enterprises reporting quantity delivered:									
Cost for primary irrigation.....dollars..	213,121	211,839	.....	730	552	841	14,630	35,171	162,479
Average cost per acre-foot.....dollars..	0.45	0.46	.....	28.08	0.05	3.56	0.18	0.28	0.61
Cost for supplemental irrigation.....dollars..	49	49	.....	.....	.....	39	10	.....	.....
Average cost per acre-foot.....dollars..	0.16	0.16	.....	.....	.....	0.28	0.06	.....	.....
Measurement of water to farms:									
No water measured.....enterprises reporting..	71	68	.....	1	2	3	47	21	.....
.....acres..	60,412	57,711	.....	62	2,639	204	23,209	36,999	.....
Part of water measured.....enterprises reporting..	2	2	.....	.....	.....	.....	2	.....	.....
.....acres..	1,069	1,069	.....	.....	.....	.....	1,069	.....	.....
All water measured.....enterprises reporting..	2	2	.....	.....	.....	.....	.....	.....	2
.....acres..	85,599	85,599	.....	.....	.....	.....	.....	.....	85,599

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

IRRIGATION OF AGRICULTURAL LANDS

County Table 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	Churchill	Clark	Douglas	Elko	Esme- ralda	Eureka	Humboldt	Lander
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	1,178	13	76	107	272	14	39	109	33
2 All irrigation enterprises.....enterprises 1940..	1,464	25	140	89	364	20	56	137	44
3 Intercounty enterprises.....enterprises 1950..	33	2	1	12	6	.....	4	3	3
4 Irrigated farms ¹.....farms 1950..	2,819	621	198	131	374	14	39	132	30
5 Average per enterprise.....farms 1950..	2.4	47.8	2.6	1.2	1.4	1.0	1.0	1.2	0.9
6 Farms irrigated direct per enterprise ².....farms 1950..	2.7	46.5	3.1	2.1	1.5	1.0	1.0	1.4	0.9
7 Irrigated land ¹.....acres 1949..	722,896	84,030	9,917	40,483	210,751	5,314	23,785	67,891	33,965
8 Irrigated land.....acres 1939..	739,863	56,594	9,060	30,881	269,989	3,217	34,967	75,639	31,103
9 Average per irrigated farm.....acres 1949..	256.4	135.3	50.1	309.0	563.5	379.6	609.9	514.2	1,132.2
10 Average per enterprise.....acres 1949..	614	6,464	130	378	775	380	610	623	1,029
11 Average acreage irrigated direct per enterprise ².....acres 1949..	621	6,464	130	388	775	380	610	623	1,029
Type of enterprise, 1950:									
12 Single-farm.....enterprises..	1,021	11	71	68	250	14	39	106	33
13 Single-farm.....acres irrigated..	445,409	801	4,728	21,991	190,926	5,314	23,785	63,052	33,965
Mutual:									
14 Unincorporated.....enterprises..	90	.....	1	28	18	.....	.....	1	.....
15 Unincorporated.....acres irrigated..	92,964	.....	(³)	12,949	11,743	.....	.....	(³)	.....
16 Incorporated.....enterprises..	47	.....	3	7	.....	.....	.....	.....	.....
17 Incorporated.....acres irrigated..	74,197	.....	4,776	2,555	(³)	.....	.....	.....	.....
18 Commercial.....enterprises..	2	.....	.....	1	.....	.....	.....	.....	.....
19 Commercial.....acres irrigated..	(³)	.....	.....	(³)	.....	.....	.....	.....	.....
20 District.....enterprises..	4	.....	.....	.....	.....	.....	.....	.....	.....
21 District.....acres irrigated..	96,547	(³)	.....	(³)	.....	.....	.....	.....	.....
22 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
23 U. S. Bureau of Reclamation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	14	1	1	1	2	.....	.....	2	.....
25 U. S. Bureau of Indian Affairs ⁴.....acres irrigated..	17,580	1,178	302	434	6,603	.....	.....	3,162	.....
26 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27 State.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
29 City.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
Surface water:									
30 Gravity only.....enterprises reporting..	975	9	37	89	265	6	36	88	30
31 Gravity only.....acres irrigated..	654,415	83,874	7,657	30,361	194,771	1,887	21,112	57,328	23,064
32 Pumped only.....enterprises reporting..	18	.....	6	3	.....	1	.....	2	.....
33 Pumped only.....acres irrigated..	8,065	.....	113	348	.....	1,797	.....	5,301	.....
34 Gravity and pumped.....enterprises reporting..	11	.....	1	4	.....	.....	.....	.....	.....
35 Gravity and pumped.....acres irrigated..	6,725	.....	200	1,220	.....	.....	830	.....	.....
36 Ground water only (pumped from wells).....enterprises reporting..	80	.....	25	2	2	3	.....	12	.....
37 Ground water only (pumped from wells).....acres irrigated..	2,975	.....	813	57	12	134	.....	84	.....
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	94	4	7	9	5	4	2	7	3
39 Surface (gravity or pumped) and ground water.....acres irrigated..	59,528	156	1,134	9,554	15,968	1,496	1,843	5,160	10,901
Stored water:									
40 None stored.....enterprises reporting..	948	8	68	78	251	14	32	96	26
41 None stored.....acres irrigated..	413,960	553	8,975	19,011	180,023	5,314	15,250	61,771	31,179
42 Part stored.....enterprises reporting..	184	4	8	28	10	.....	6	13	7
43 Part stored.....acres irrigated..	282,470	83,437	942	21,504	30,499	.....	8,148	6,110	2,786
44 All stored.....enterprises reporting..	46	1	.....	1	3	.....	1	.....	.....
45 All stored.....acres irrigated..	35,278	40	.....	1,025	229	.....	387	.....	.....
Sources of surface water, 1949:⁵									
46 Streams (and lakes).....enterprises reporting..	879	7	21	95	255	9	34	88	32
47 Streams (and lakes).....acres irrigated..	690,956	83,820	6,502	39,698	208,316	5,153	21,739	66,742	33,945
48 Springs.....enterprises reporting..	328	1	7	8	77	1	20	26	10
49 Springs.....acres irrigated..	158,221	200	200	1,709	73,236	10	12,262	9,547	1,620
50 Flowing wells.....enterprises reporting..	85	6	22	3	.....	2	3	7	4
51 Flowing wells.....acres irrigated..	17,196	210	1,487	1,352	.....	337	2,852	1,662	421
52 Drainage water.....enterprises reporting..	24	.....	.....	5	.....	.....	.....	.....	.....
53 Drainage water.....acres irrigated..	10,906	.....	.....	1,509	.....	.....	.....	.....	1
54 Sewage.....enterprises reporting..	3	.....	3	.....	.....	.....	.....	.....	415
55 Sewage.....acres irrigated..	1,022	.....	1,022	.....	.....	.....	.....	.....	.....
56 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
57 Other sources.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶									
Irrigated land drained:									
58 Enterprises reporting.....enterprises 1949..	77	3	5	5	7	1	.....	2	2
59 Area supplied primary irrigation.....acres 1949..	209,306	83,243	3,899	2,070	3,280	320	.....	7,300	9,192
60 Area artificially drained.....acres 1949..	123,059	47,565	585	828	843	250	.....	5,400	6,360
61 Area artificially drained.....acres 1939..	94,450	42,684	20	(*)	(*)	.....	.....	.....	.....
Irrigated land in need of drainage:									
62 Enterprises reporting.....enterprises 1949..	130	2	8	5	63	1	4	2	3
63 Area supplied primary irrigation.....acres 1949..	232,669	83,229	5,809	2,734	75,326	250	3,602	2,740	400
64 Area in need of drainage.....acres 1949..	81,371	48,229	2,016	556	7,764	229	87	510	71
65 Area in need of drainage.....acres 1939..	21,153	3,860	360	(*)	(*)	.....	.....	.....	460

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)	Lincoln	Lyon	Mineral	Nye	Ormsby	Pershing	Storey	Washoe	White Pine
ALL ENTERPRISES									
Farms and land irrigated:									
1 All irrigation enterprises.....enterprises 1950..	78	64	5	82	19	43	5	130	105
2 1940..	93	74	(*)	105	12	43	(*)	124	143
3 Intercounty enterprises.....enterprises 1950..	1	6	1	2	.....	1	1	3	3
4 Irrigated farms ¹.....farms 1950..	132	322	48	112	28	116	9	375	138
5 Average per enterprise.....farms 1950..	1.7	5.0	9.6	1.4	1.5	2.7	1.8	2.9	1.3
6 Farms irrigated direct per enterprise ².....farms 1950..	2.0	5.8	9.8	1.4	1.6	3.1	1.8	3.7	1.4
7 Irrigated land ¹.....acres 1949..	11,601	85,909	4,811	25,560	2,841	32,288	535	40,266	42,959
8 1939..	11,122	76,923	(*)	29,644	1,785	28,965	(*)	46,564	29,419
9 Average per irrigated farm.....acres 1949..	87.9	266.8	100.2	228.2	101.5	278.3	59.4	107.4	311.3
10 Average per enterprise.....acres 1949..	149	1,342	962	312	150	751	107	310	409
11 Average acreage irrigated direct per enterprise ².....acres 1949..	149	1,453	962	312	151	752	107	314	409
Type of enterprise, 1950:									
12 Single-farm.....enterprises..	73	30	4	80	16	33	4	102	97
13 acres irrigated..	8,580	9,284	1,848	24,089	925	5,020	294	12,574	38,233
Mutual:									
14 Unincorporated.....enterprises..	1	19	.....	.....	.....	6	.....	14	2
15 acres irrigated..	(³)	39,081	.....	.....	.....	15,984	.....	11,058	(³)
16 Incorporated.....enterprises..	4	11	.....	.....	2	3	.....	12	5
17 acres irrigated..	2,830	30,003	.....	.....	(³)	11,330	.....	15,305	4,238
18 Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....	1	.....
19 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	(³)	.....
20 District.....enterprises..	.....	3	.....	.....	.....	1	.....	.....	.....
21 acres irrigated..	.....	14,255	.....	.....	.....	(³)	(³)	.....	.....
22 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
23 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 U. S. Bureau of Indian Affairs ⁴.....enterprises..	.....	1	1	2	1	.....	.....	1	1
25 acres irrigated..	.....	398	2,963	1,471	260	.....	.....	433	376
26 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
27 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
28 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....	.....
29 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:									
30 Surface water:	.....	.....	.....	.....	.....	.....	.....	.....	.....
31 Gravity only.....enterprises reporting..	53	51	5	73	11	38	5	112	81
32 acres irrigated..	9,701	88,543	4,811	21,723	2,150	31,769	535	38,833	36,296
33 Pumped only.....enterprises reporting..	.....	4	.....	.....	.....	.....	.....	1	1
34 acres irrigated..	.....	420	.....	.....	.....	.....	.....	1	85
35 Gravity and pumped.....enterprises reporting..	1	1	.....	1	.....	.....	.....	.....	3
..... acres irrigated..	26	510	.....	200	.....	.....	.....	.....	3,739
36 Ground water only (pumped from wells).....enterprises reporting..	11	4	.....	3	4	.....	.....	7	7
37 acres irrigated..	699	202	.....	448	18	.....	.....	233	275
38 Surface (gravity or pumped) and ground water.....enterprises reporting..	13	4	.....	5	4	5	.....	10	13
39 acres irrigated..	1,203	3,346	.....	3,189	699	565	.....	1,743	2,564
Stored water:									
40 None stored.....enterprises reporting..	69	24	3	69	16	29	1	92	80
41 acres irrigated..	7,866	10,908	1,795	17,072	2,629	4,354	7	14,192	33,061
42 Part stored.....enterprises reporting..	5	36	1	9	2	3	4	29	19
43 acres irrigated..	619	81,746	2,963	8,233	220	46	528	25,427	9,262
44 All stored.....enterprises reporting..	4	4	1	4	1	11	.....	9	6
45 acres irrigated..	3,144	367	53	255	17	27,934	.....	1,191	636
Sources of surface water, 1949:⁵									
46 Streams (and lakes).....enterprises reporting..	45	55	5	46	9	35	5	95	59
47 acres irrigated..	4,451	92,435	4,811	20,057	2,758	31,680	535	39,152	29,162
48 Springs.....enterprises reporting..	34	2	1	50	5	7	.....	28	53
49 acres irrigated..	9,060	104	53	17,797	407	814	.....	7,158	24,044
50 Flowing wells.....enterprises reporting..	2	2	.....	13	2	3	.....	13	4
51 acres irrigated..	34	130	.....	4,035	12	165	.....	3,644	855
52 Drainage water.....enterprises reporting..	2	2	.....	1	1	.....	.....	11	1
53 acres irrigated..	127	250	.....	600	25	.....	.....	7,975	5
54 Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
55 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
56 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
57 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁶									
58 Irrigated land drained:	.....	.....	.....	.....	.....	.....	.....	.....	.....
59 Enterprises reporting.....acres 1949..	884	28	.....	3	1	11	1	11	.....
60 Area supplied primary irrigation.....acres 1949..	884	59,421	.....	1,561	3	28,378	241	9,514	.....
61 Area artificially drained.....acres 1949..	(*)	39,324	(*)	140	3	14,884	241	5,752	.....
.....acres 1939..	.....	30,876	.....	.....	.....	11,874	(*)	8,113	.....
62 Irrigated land in need of drainage:	.....	.....	.....	.....	.....	.....	.....	.....	.....
63 Enterprises reporting.....acres 1949..	8	9	.....	7	.....	9	1	8	3
64 Area supplied primary irrigation.....acres 1949..	2,496	17,288	.....	2,376	.....	27,268	241	5,263	3,647
65 Area in need of drainage.....acres 1949..	922	9,229	.....	1,230	.....	6,900	241	2,877	610
.....acres 1939..	(*)	9,115	(*)	.....	.....	.....	(*)	6,006	(*)

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

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	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt	Lander
ALL ENTERPRISES										
Irrigation works:										
1	Diversion dams.....enterprises reporting 1950..	891	5	20	93	260	.....	37	80	31
2	.....dams 1950..	4,065	8	24	151	1,984	.....	184	290	278
3	.....dams 1940..	1,896	8	10	80	731	3	210	206	181
Diversion dams by material:										
4	Concrete or masonry.....dams 1950..	348	1	4	33	71	.....	14	59	12
5	Timber.....dams 1950..	256	.....	3	29	81	.....	24	17	15
6	Earth and rock.....dams 1950..	2,953	7	11	62	1,533	.....	127	180	237
7	Other, mixed, and not reported.....dams 1950..	508	.....	6	27	299	.....	19	34	14
8	Reservoirs.....enterprises reporting 1950..	139	4	7	2	22	.....	7	13	7
9	.....reservoirs 1950..	262	6	9	2	32	.....	11	15	8
10	.....reservoirs 1940..	280	14	15	4	7	2	5	11	1
11	Reservoirs for which capacity was reported.....reservoirs 1950..	176	3	9	2	18	.....	11	15	6
12	.....total capacity, acre-feet 1950..	687,179	296,612	580	59,442	72,646	.....	117	3,997	1,326
13	.....total capacity, acre-feet 1940..	696,005	273,683	1,721	83,201	74,735	(*)	58	4,391	(*)
Reservoirs by capacity:										
14	1-99 acre-feet.....reservoirs 1950..	135	2	8	1	7	.....	11	10	6
15	100-999 acre-feet.....reservoirs 1950..	24	.....	1	.....	6	.....	.....	4	2
16	1,000 acre-feet and over.....reservoirs 1950..	17	1	.....	1	5	.....	.....	1	.....
Reservoir dams by material:										
17	Concrete or masonry.....dams 1950..	8	.....	.....	.....	3	.....	.....	1	.....
18	Earth and rock.....dams 1950..	174	6	9	2	26	.....	7	13	7
19	Other, mixed, and not reported.....dams 1950..	20	.....	.....	.....	3	.....	4	1	.....
20	Canals and ditches.....enterprises reporting 1950..	721	5	26	67	188	10	15	63	24
21	.....total length, miles 1950..	3,388	298	87	208	680	30	108	282	230
22	.....total length, miles 1940..	2,897	442	39	119	708	2	40	289	109
23	Pipelines and siphons ¹.....enterprises reporting 1950..	75	1	2	9	3	3	4	5	3
24	.....total length, miles 1950..	123	1	2	8	2	14	10	11	8
25	.....total length, miles 1940..	105	16	2	8	10	.....	8	3	2
26	Tunnels.....enterprises reporting 1950..	12	.....	1	1	.....	.....	.....	.....	.....
27	.....total length, feet 1950..	23,277	.....	22	2,100	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	85	6	100	3	.....	2	.....	7	4
29	.....wells 1950..	290	29	26	3	.....	8	32	52	4
30	.....wells 1940..	322	44	108	1	2	.....	4	28	3
31	Pumped wells.....enterprises reporting 1950..	173	4	32	11	7	7	2	19	2
32	.....wells 1950..	254	7	45	15	9	26	2	27	5
33	.....wells 1940..	167	4	38	12	12	7	1	34	1
34	Wells for which pumping lift was reported.....wells 1949..	225	7	34	15	9	26	2	23	5
35	Average pumping lift.....feet 1949..	51	20	45	59	47	54	104	60	39
36	.....feet 1939..	31	.....	22	32	30	30	(*)	40	(*)
37	Irrigation pumps.....enterprises reporting 1950..	200	4	39	18	7	8	3	20	2
38	.....pumps 1950..	289	6	54	23	9	28	3	30	4
39	.....pumping plants 1940..	192	10	42	23	11	8	1	37	1
40	Electric motors used for pumping.....enterprises reporting 1950..	97	.....	28	9	3	1	.....	13	.....
41	.....electric motors 1950..	127	.....	40	11	3	7	.....	14	.....
42	Other motors and engines used for pumping.....enterprises reporting 1950..	99	4	7	8	5	7	3	8	2
43	.....other motors and engines 1950..	153	6	8	9	5	21	3	15	4
Season of irrigation, 1949:										
44	Water delivered only before July 1.....enterprises reporting..	95	.....	.....	2	10	.....	8	48	14
45	.....acres irrigated..	72,993	.....	.....	327	10,315	.....	2,055	36,788	14,254
46	Water delivered before and after July 1.....enterprises reporting..	1,046	13	68	103	258	13	31	56	19
47	.....acres irrigated..	646,947	84,030	9,375	41,060	194,135	4,686	21,730	28,813	19,711
48	Water delivered only after July 1.....enterprises reporting..	14	.....	2	1	1	.....	.....	3	.....
49	.....acres irrigated..	3,373	.....	35	1	2,630	.....	.....	24	.....
Capital investment:										
50	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	16,906,790	6,378,327	484,501	334,516	2,014,514	36,185	218,708	196,575	136,030
New capital investment Jan. 1, 1940, to Jan. 1, 1950:										
51	Enterprises reporting.....enterprises 1950..	536	9	53	31	121	7	11	44	23
52	Amount.....dollars 1950..	3,274,686	178,597	209,266	182,805	641,569	103,520	101,996	130,681	73,869
53	Area irrigated direct.....acres 1949..	400,424	83,640	7,672	10,895	100,849	1,017	8,516	28,747	17,140
54	Total capital investment Jan. 1, 1950.....dollars 1950..	20,181,476	6,556,924	693,767	517,321	2,656,083	139,705	320,704	327,256	209,899
Indebtedness:²										
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
55	Enterprises reporting.....enterprises 1950..	21	2	3	3	.....	.....	.....	2	.....
56	Amount.....dollars 1950..	2,973,295	1,173,634	57,089	9,267	.....	.....	.....	17,979	.....
57	.....dollars 1940..	3,934,315	1,061,009	15,698	.....	.....	.....	.....	.....	.....
58	Area irrigated direct.....acres 1949..	121,910	83,229	4,139	1,124	.....	.....	.....	3,162	.....
Arrears in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:										
59	Enterprises reporting.....enterprises 1950..	2	1	.....	.....	.....	.....	.....	.....	.....
60	Amount.....dollars 1950..	179,154	136	.....	.....	.....	.....	.....	.....	.....
61	Area irrigated direct.....acres 1949..	85,014	82,051	.....	.....	.....	.....	.....	.....	.....

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)		Lincoln	Lyon	Mineral	Nye	Ormsby	Pershing	Storey	Washoe	White Pine
ALL ENTERPRISES										
1	Irrigation works:									
2	Diversions dams.....enterprises reporting 1950..	59	31	5	56	10	28	5	93	90
3	dams 1950..	149	41	6	354	15	47	5	134	395
	1940..	78	63	(*)	55	2	75	(*)	89	102
4	Diversions dams by material:									
5	Concrete or masonry.....dams 1950..	12	9	2	46	4	8	1	26	46
6	Timber.....dams 1950..	22	4	1	34	3	2	1	11	9
7	Earth and rock.....dams 1950..	83	25	3	252	7	31	3	93	299
	Other, mixed, and not reported.....dams 1950..	32	3		22	1	6		4	41
8	Reservoirs.....enterprises reporting 1950..	8	6	2	13	3	5		17	25
9	reservoirs 1950..	13	10	2	17	3	6		27	41
10	1940..	12	3	(*)	32		13	(*)	2R	52
11	Reservoirs for which capacity was reported.....reservoirs 1950..	13	9	2	16	3	6		20	41
12	total capacity, acre-feet 1950..	4,252	2,661	13,002	10,238	8	203,240		18,244	814
13	1940..	3,423	280	(*)	5,527		229,065	(*)	5,752	1,007
14	Reservoirs by capacity:									
15	1-99 acre-feet.....reservoirs 1950..	12	6	1	14	3	4		10	40
16	100-199 acre-feet.....reservoirs 1950..		1		1				8	1
	1,000 acre-feet and over.....reservoirs 1950..	1	2	1	1		2		2	
17	Reservoir dams by material:									
18	Concrete or masonry.....dams 1950..		2		1				1	
19	Earth and rock.....dams 1950..	12	7	2	16	3	6		21	37
	Other, mixed, and not reported.....dams 1950..	1	1						5	4
20	Canals and ditches.....enterprises reporting 1950..	51	50	2	42	8	31	4	89	60
21	total length, miles 1950..	129	286	61	164	17	145	10	409	244
22	1940..	12R	317	(*)	104	5	145	(*)	248	92
23	Pipelines and siphons ¹.....enterprises reporting 1950..	4	7	2	4	4	6		11	12
24	total length, miles 1950..	6	16	3	2	6	8		9	18
25	1940..	6	4	(*)	4	2	14	(*)	4	17
26	Tunnels.....enterprises reporting 1950..	1	3						1	7
27	total length, feet 1950..	200	3,300					2,500	15,077	
28	Flowing wells.....enterprises reporting 1950..	2	2		12	2	3		13	4
29	wells 1950..	6	4		41	7	19		54	5
30	1940..		14	(*)	38			(*)	77	3
31	Pumped wells.....enterprises reporting 1950..	25	8		8	8	5		16	19
32	wells 1950..	36	11		15	9	5		20	22
33	1940..	9	5	(*)	2	2	4	(*)	22	14
34	Wells for which pumping lift was reported.....wells 1949..	32	11		10	9	3		17	22
35	Average pumping lift.....feet 1949..	46	79		87	58	95		33	37
36	1939..	19	18	(*)	(*)	(*)	25	(*)	23	89
37	Irrigation pumps.....enterprises reporting 1950..	26	13		8	8	5		17	22
38	pumps 1950..	39	20		15	9	5		19	25
39	pumping plants 1940..	8	5	(*)	4	2	4	(*)	23	13
40	Electric motors used for pumping.....enterprises reporting 1950..	14	10			7			9	3
41	electric motors 1950..	19	10			7			10	6
42	Other motors and engines used for pumping.....enterprises reporting 1950..	12	3		9	1	7		5	18
43	other motors and engines 1950..	21	11		14	1	8		7	20
44	Season of irrigation, 1949:									
45	Water delivered only before July 1.....enterprises reporting..	1			3	1	5		5	1
46	acres irrigated.....	175			710	400	1,180		1,589	5,200
47	Water delivered before and after July 1.....enterprises reporting..	76	63	5	77	17	38	5	119	98
48	acres irrigated.....	11,254	92,861	4,811	24,758	2,465	31,154	535	38,923	36,646
49	Water delivered only after July 1.....enterprises reporting..		1			1			1	4
	acres irrigated.....		160			1			30	492
50	Capital investment:									
	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	163,817	1,940,815	(*)	296,835	42,899	1,948,870	(*)	2,223,347	254,832
51	New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
52	Enterprises reporting.....enterprises 1950..	42	42	2	37	9	11	2	42	55
53	Amount.....dollars 1950..	174,592	262,983	47,148	261,005	10,138	139,095	1,423	538,241	217,758
	Area irrigated direct.....acres 1949..	8,477	63,614	3,016	16,739	1,871	7,065	351	14,746	26,069
54	Total capital investment Jan. 1, 1950.....dollars 1950..	338,409	2,203,798	(*)	557,840	53,027	2,087,965	(*)	2,761,588	472,590
55	Indebtedness: ²									
56	Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	2	5	1	1	1	1	1	2	
	Amount.....dollars 1950..	38,527	171,157	179,018	7,154	12,290	949,275	1,890	356,015	
	1940..		572,560	(*)			1,203,570	(*)	1,081,477	
58	Area irrigated direct.....acres 1949..	1,484	20,766	2,963	999	260		241	3,543	
59	Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
60	Enterprises reporting.....enterprises 1950..			1						
61	Amount.....dollars 1950..			179,018						
	Area irrigated direct.....acres 1949..			2,963						

*Not available.

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

²Not reported in 1940 by enterprises serving less than 5 farms, nor in 1950 by single-farm enterprises.

IRRIGATION OF AGRICULTURAL LANDS

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	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt	Lander
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	1,169	13	76	101	271	14	39	108	33
2 Cost.....dollars..	629,599	167,597	39,885	17,396	16,417	6,525	7,377	30,286	3,605
3 Area irrigated direct.....acres..	731,708	84,030	9,917	41,540	210,751	5,314	23,785	67,881	33,965
4 Cost per acre irrigated direct.....dollars..	0.86	1.99	4.02	0.42	0.08	1.23	0.31	0.45	0.11
5 Total cost per irrigated acre.....dollars..	0.87	1.99	4.02	0.43	0.08	1.23	0.31	0.45	0.11
6 Total cost per acre-foot of water ².....dollars..	0.29	(³)	0.76	0.14	0.02	(³)	(³)	0.26	(³)
Enterprises by cost per acre:									
7 Less than \$1.00.....enterprises reporting..	878	4	30	80	262	7	36	90	32
8 Cost.....dollars..	491,233	397	3,700	37,825	210,369	2,820	21,621	58,523	33,915
9 \$1.00-\$1.99.....enterprises reporting..	72	2	.....	8	4	1	2	2	.....
10 Cost.....dollars..	155,838	82,245	.....	1,946	326	1,797	1,988	5,469	.....
11 \$2.00-\$4.99.....enterprises reporting..	98	2	11	9	3	1	.....	4	1
12 Cost.....dollars..	74,298	94	2,032	1,486	24	628	.....	3,820	50
13 \$5.00-\$9.99.....enterprises reporting..	40	1	11	3	.....	.....	.....	3	.....
14 Cost.....dollars..	8,275	1,178	4,228	282	.....	.....	.....	32	.....
15 \$10.00 and over.....enterprises reporting..	81	4	24	1	2	5	1	9	.....
16 Cost.....dollars..	2,064	116	257	1	33	69	176	37	.....
Cost of water for primary irrigation:									
17 Enterprises reporting.....enterprises..	1,164	13	76	98	271	14	39	108	33
18 Cost.....dollars..	616,250	167,597	39,885	14,960	16,417	6,525	7,377	30,286	3,605
19 Area supplied primary irrigation.....acres..	722,896	84,030	9,917	40,483	210,751	5,314	23,785	67,881	33,965
20 Cost per acre supplied.....dollars..	0.85	1.99	4.02	0.37	0.08	1.23	0.31	0.45	0.11
Cost of water for supplemental irrigation:									
21 Enterprises reporting.....enterprises..	23	.....	.....	6	.....	.....	.....	.....	.....
22 Cost.....dollars..	13,349	.....	.....	2,436	.....	.....	.....	.....	.....
23 Area supplied supplemental irrigation.....acres..	8,812	.....	.....	1,057	.....	.....	.....	.....	.....
24 Cost per acre supplied.....dollars..	1.51	.....	.....	2.30	.....	.....	.....	.....	.....
Cost to farms for purposes other than operation and maintenance: ⁴									
25 Enterprises reporting.....enterprises..	76	2	2	8	5	.....	.....	.....	.....
26 Cost.....dollars..	157,910	63,083	4,002	1,454	925	.....	.....	.....	.....
27 Area irrigated direct.....acres..	228,691	83,229	3,837	4,862	4,185	.....	.....	.....	.....
28 Cost per acre irrigated.....dollars..	0.69	0.76	1.04	0.30	0.22	.....	.....	.....	.....
Arrearage in payments by farms, Jan. 1, 1950: ⁴									
29 Enterprises reporting.....enterprises..	7	1	1	.....	.....	.....	.....	.....	.....
30 Amount.....dollars..	47,717	33,421	5,425	.....	.....	.....	.....	.....	.....
31 Area irrigated direct.....acres..	104,319	82,051	2,820	.....	.....	.....	.....	.....	.....
SINGLE-FARM ENTERPRISES, 1950									
32 Single-farm enterprises.....enterprises..	1,021	11	71	68	250	14	39	106	33
33 Area irrigated.....acres..	445,409	801	4,728	21,991	190,926	5,314	23,785	63,052	33,965
34 Complete-system enterprises ⁵.....enterprises..	966	10	70	55	250	14	39	103	33
35 Area irrigated.....acres..	416,905	501	4,706	7,664	190,926	5,314	23,785	59,042	33,965
Other farms irrigated:									
36 Enterprises reporting.....number..	10	.....	3	1	.....	.....	1	3	.....
37 Number of other farms.....farms..	16	.....	6	4	.....	.....	1	3	.....
38 Area irrigated in other farms.....acres..	926	.....	13	78	.....	.....	400	355	.....
Enterprises by origin of water supply: ⁵									
39 No water from other enterprises.....enterprises reporting..	972	10	71	55	250	14	39	105	33
40 Cost.....dollars..	421,102	501	4,728	7,664	190,926	5,314	23,785	62,591	33,965
41 Part of water from other enterprises.....enterprises reporting..	31	1	.....	12	.....	.....	.....	1	.....
42 Cost.....dollars..	20,123	300	.....	13,302	.....	.....	.....	461	.....
43 All of water from other enterprises.....enterprises reporting..	18	.....	.....	1	.....	.....	.....	.....	.....
44 Cost.....dollars..	4,184	.....	.....	1,025	.....	.....	.....	.....	.....
Enterprises by primary and supplemental irrigation:									
45 All primary.....enterprises reporting..	1,013	11	71	64	250	14	39	105	33
46 Cost.....dollars..	443,918	801	4,728	20,990	190,926	5,314	23,785	63,052	33,965
47 Part primary, part supplemental.....enterprises reporting..	1	.....	.....	1	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	20	.....	.....	20	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	207	.....	.....	207	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	5	.....	.....	3	.....	.....	.....	.....	.....
51 Cost.....dollars..	1,264	.....	.....	774	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated: ⁵									
52 None.....enterprises reporting..	2	.....	.....	.....	.....	.....	.....	1	.....
53 1-9 acres.....enterprises reporting..	117	.....	29	8	7	2	.....	12	.....
54 10-29 acres.....enterprises reporting..	109	4	14	5	9	2	4	14	2
55 30-59 acres.....enterprises reporting..	120	4	11	4	15	1	2	9	3
56 60-99 acres.....enterprises reporting..	98	1	4	9	14	.....	2	7	5
57 100-199 acres.....enterprises reporting..	154	1	5	15	26	3	10	6	3
58 200-499 acres.....enterprises reporting..	213	.....	7	18	80	2	9	27	11
59 500-999 acres.....enterprises reporting..	99	1	1	4	46	2	3	11	3
60 1,000 acres or more.....enterprises reporting..	109	.....	.....	5	53	2	9	19	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)	Lincoln	Lyon	Mineral	Nye	Ormsby	Pershing	Storey	Washoe	White Pine
ALL ENTERPRISES									
Cost of water to farms, 1949: ¹									
Total cost of water to farms:									
1 Enterprises reporting.....enterprises..	78	63	5	81	19	42	5	129	104
2 Cost.....dollars..	19,088	133,764	841	29,428	1,924	79,857	631	59,755	15,223
3 Area irrigated direct.....acres..	11,629	93,021	4,811	25,560	2,866	32,334	535	40,810	42,959
4 Cost per acre irrigated direct.....dollars..	1.64	1.44	0.17	1.15	0.67	2.47	1.18	1.46	0.35
5 Total cost per irrigated acre.....dollars..	1.65	1.56	0.17	1.15	0.68	2.47	1.18	1.48	0.35
6 Total cost per acre-foot of water ².....dollars..	0.55	0.60	(³)	(³)	0.31	0.82	(³)	0.42	0.11
Enterprises by cost per acre:									
7 Less than \$1.00.....enterprises reporting..	49	24	5	71	12	26	1	74	84
8 acres irrigated..	7,069	23,302	4,811	22,088	2,790	3,339	125	17,952	40,886
9 \$1.00-\$1.99.....enterprises reporting..	4	21	.....	2	.....	2	4	19	4
10 acres irrigated..	971	49,104	.....	872	.....	197	410	9,761	752
11 \$2.00-\$4.99.....enterprises reporting..	9	12	.....	3	3	14	.....	21	5
12 acres irrigated..	2,211	20,205	.....	2,154	31	28,798	.....	12,161	604
13 \$5.00-\$9.99.....enterprises reporting..	7	3	.....	1	.....	.....	.....	6	5
14 acres irrigated..	1,153	288	.....	2	.....	.....	.....	710	402
15 \$10.00 and over.....enterprises reporting..	9	3	.....	4	4	.....	.....	9	6
16 acres irrigated..	225	122	.....	444	45	.....	.....	226	313
Cost of water for primary irrigation:									
17 Enterprises reporting.....enterprises..	78	63	5	81	19	42	5	127	104
18 Cost.....dollars..	19,039	123,538	841	29,428	1,920	79,723	631	59,255	15,223
19 Area supplied primary irrigation.....acres..	11,601	85,909	4,811	25,560	2,841	32,288	535	40,266	42,959
20 Cost per acre supplied.....dollars..	1.64	1.44	0.17	1.15	0.68	2.47	1.18	1.47	0.35
Cost of water for supplemental irrigation:									
21 Enterprises reporting.....enterprises..	1	9	.....	.....	1	1	.....	5	.....
22 Cost.....dollars..	49	10,226	.....	.....	4	134	.....	500	.....
23 Area supplied supplemental irrigation.....acres..	28	7,112	.....	.....	25	46	.....	544	.....
24 Cost per acre supplied.....dollars..	1.75	1.44	.....	.....	0.16	2.91	.....	0.92	.....
Cost to farms for purposes other than operation and maintenance: ⁴									
25 Enterprises reporting.....enterprises..	2	31	.....	.....	.....	9	1	18	.....
26 Cost.....dollars..	4,598	44,393	.....	.....	.....	29,658	132	9,665	.....
27 Area irrigated direct.....acres..	1,484	80,457	.....	.....	.....	27,314	241	23,082	.....
28 Cost per acre irrigated.....dollars..	3.10	0.55	.....	.....	.....	1.09	0.55	0.42	.....
Arrearage in payments by farms, Jan. 1, 1950:									
29 Enterprises reporting.....enterprises..	.....	3	1	.....	.....	.....	1	2	.....
30 Amount.....dollars..	.....	4,803	3,618	.....	.....	.....	70	380	.....
31 Area irrigated direct.....acres..	.....	14,255	2,963	.....	.....	.....	241	1,989	.....
SINGLE-FARM ENTERPRISES, 1950									
32 Single-farm enterprises.....enterprises..	73	30	4	80	16	33	4	102	97
33 Area irrigated.....acres..	8,580	9,284	1,848	24,089	925	5,020	294	12,574	38,233
34 Complete-system enterprises ⁵.....enterprises..	68	19	4	78	16	28	1	94	92
35 Area irrigated.....acres..	8,446	2,930	1,848	23,709	925	3,340	7	11,919	37,878
Other farms irrigated:									
36 Enterprises reporting.....number..	.....	1	.....	.....	.....	.....	.....	1	.....
37 Number of other farms.....farms..	.....	1	.....	.....	.....	.....	.....	1	.....
38 Area irrigated in other farms.....acres..	.....	60	.....	.....	.....	.....	.....	20	.....
Enterprises by origin of water supply: ⁵									
39 No water from other enterprises.....enterprises reporting..	68	19	4	79	16	29	1	95	92
40 acres irrigated..	8,446	2,930	1,848	23,709	925	3,500	7	12,385	37,878
41 Part of water from other enterprises.....enterprises reporting..	4	4	.....	1	.....	.....	3	3	4
42 acres irrigated..	119	4,917	.....	380	.....	.....	287	37	320
43 All of water from other enterprises.....enterprises reporting..	1	7	.....	.....	.....	4	.....	4	1
44 acres irrigated..	15	1,427	.....	.....	.....	1,520	.....	152	35
Enterprises by primary and supplemental irrigation:									
45 All primary.....enterprises reporting..	73	30	4	79	16	33	4	100	97
46 acres irrigated..	8,580	9,284	1,848	24,089	925	5,020	294	12,084	38,233
47 Part primary, part supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
48 Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
49 Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....	.....
50 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....	.....
51 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	490	.....
Enterprises by number of acres irrigated: ⁵									
52 None.....enterprises reporting..	.....	.....	.....	1	.....	.....	.....	.....	.....
53 1-9 acres.....enterprises reporting..	7	3	1	5	7	3	1	26	6
54 10-29 acres.....enterprises reporting..	18	2	.....	6	4	5	.....	11	9
55 30-59 acres.....enterprises reporting..	20	3	2	11	1	6	1	16	11
56 60-99 acres.....enterprises reporting..	13	3	.....	9	1	5	.....	7	18
57 100-199 acres.....enterprises reporting..	9	9	.....	14	1	6	2	24	20
58 200-499 acres.....enterprises reporting..	3	5	.....	17	2	5	.....	14	14
59 500-999 acres.....enterprises reporting..	2	3	.....	13	.....	2	.....	2	9
60 1,000 acres or more.....enterprises reporting..	1	2	1	4	.....	1	.....	2	10

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 the 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.

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	Clark	Douglas	Elko	Humboldt	Lincoln
MULTIPLE-FARM ENTERPRISES, 1950							
1	Multiple-farm enterprises, total number ¹.....enterprises..	157	5	39	22	3	5
2	Area irrigated direct.....acres..	286,299	5,189	19,549	19,825	4,829	3,049
3	Multiple-purpose enterprises ¹.....enterprises..	8	1	1	.....	.....	1
4	Area irrigated direct.....acres..	93,645	2,820	690	.....	.....	884
5	Complete-system enterprises ¹.....enterprises..	76	5	17	22	3	4
6	Area irrigated direct.....acres..	147,340	5,189	8,976	19,825	4,829	2,523
Enterprises by origin of water supply: ¹							
7	No water from other enterprises.....enterprises reporting..	78	5	15	22	3	5
8	acres irrigated..	153,484	5,189	7,450	19,825	4,829	3,049
9	Part of water from other enterprises.....enterprises reporting..	28	.....	9	.....	.....	.....
10	acres irrigated..	30,503	.....	6,757	.....	.....	.....
11	All water from other enterprises.....enterprises reporting..	51	.....	15	.....	.....	.....
12	acres irrigated..	102,312	.....	5,342	.....	.....	.....
Enterprises by delivery of irrigation water: ¹							
13	No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....
14	Water delivered direct to farms only.....enterprises reporting..	132	4	32	22	3	4
15	acres irrigated..	157,449	4,250	14,909	19,825	4,829	2,523
16	Water delivered to farms and to other enterprises.....enterprises reporting..	20	1	5	.....	.....	1
17	acres irrigated..	120,850	939	4,640	.....	.....	526
18	Water delivered to other enterprises only.....enterprises reporting..	5	.....	2	.....	.....	.....
Enterprises by primary and supplemental irrigation: ²							
19	All primary.....enterprises reporting..	133	5	31	21	3	4
20	acres irrigated..	249,043	5,189	19,117	19,825	4,829	2,523
21	Part primary, part supplemental.....enterprises reporting..	17	.....	2	.....	.....	1
22	Primary irrigation.....acres irrigated..	29,915	.....	356	.....	.....	498
23	Supplemental irrigation.....acres irrigated..	7,341	.....	76	.....	.....	28
24	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
25	acres irrigated..	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct: ¹							
26	None.....enterprises reporting..	5	.....	2	.....	.....	.....
27	1-3.....enterprises reporting..	64	2	19	15	1	1
28	4-9.....enterprises reporting..	42	.....	12	4	1	.....
29	10-29.....enterprises reporting..	31	.....	6	1	.....	4
30	30-99.....enterprises reporting..	12	3	.....	.....	1	.....
31	100-299.....enterprises reporting..	2	.....	.....	2	.....	.....
32	300-999.....enterprises reporting..	1	.....	.....	.....	.....	.....
33	1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct: ¹							
34	None.....enterprises reporting..	5	.....	2	.....	.....	.....
35	1-99 acres.....enterprises reporting..	8	.....	3	.....	.....	.....
36	100-999 acres.....enterprises reporting..	84	2	25	16	1	5
37	1,000-2,999 acres.....enterprises reporting..	39	3	4	4	2	.....
38	3,000-9,999 acres.....enterprises reporting..	18	.....	5	1	.....	.....
39	10,000-29,999 acres.....enterprises reporting..	2	.....	.....	1	.....	.....
40	30,000 acres or more.....enterprises reporting..	1	.....	.....	.....	.....	.....
Quantities of water reported, 1949: ³							
41	Total obtained from all sources ³.....enterprises reporting..	157	5	39	22	3	5
42	percent of all enterprises reporting..	13	7	36	8	3	6
43	Surface sources.....enterprises reporting..	1,578,171	49,129	335,618	192,565	10,196	12,090
44	acres-foot..	105	5	24	22	3	5
45	Pumped wells.....enterprises reporting..	1,190,540	49,129	271,497	192,565	10,196	12,090
46	acres-foot..	1	.....	.....	.....	.....	.....
47	Other enterprises.....enterprises reporting..	26	.....	.....	.....	.....	.....
48	acres-foot..	79	.....	24	.....	.....	.....
49	Conveyance loss ³.....enterprises reporting..	387,605	.....	64,121	.....	.....	5
50	acres-foot..	33	4	21	.....	3	.....
51	Delivered: ³	261,314	9,131	14,678	56,303	1,972	2,227
52	Direct to farms.....enterprises reporting..	152	5	37	22	3	5
53	acres-foot..	931,394	28,737	109,794	136,182	8,224	9,167
54	To other enterprises.....enterprises reporting..	25	1	7	.....	.....	1
55	acres-foot..	345,466	110	210,106	.....	.....	300
56	For use other than irrigation.....enterprises reporting..	16	3	2	.....	.....	2
57	acres-foot..	39,997	11,151	1,040	.....	.....	396
Delivered direct to farms for primary irrigation: ²							
58	Enterprises reporting.....enterprises..	150	5	33	21	3	5
59	Quantity delivered.....acres-foot..	835,180	27,576	55,572	67,022	8,224	9,122
60	Area supplied primary irrigation.....acres..	278,958	5,189	19,473	19,825	4,829	3,021
61	Quantity supplied per acre.....acres-foot..	3.0	5.3	2.9	3.4	1.7	3.0
Delivered direct to farms for supplemental irrigation: ²							
62	Enterprises reporting.....enterprises..	17	.....	2	.....	.....	1
63	Quantity delivered.....acres-foot..	17,893	.....	230	.....	.....	45
64	Area supplied supplemental irrigation.....acres..	7,341	.....	76	.....	.....	28
65	Quantity supplied per acre.....acres-foot..	2.4	.....	3.0	.....	.....	1.6
66	Total quantity per irrigated acre ⁴.....acres-foot..	3.0	5.3	3.0	3.4	1.7	3.0
Cost of water to farms for enterprises reporting quantity delivered, 1949: ²							
67	Cost for primary irrigation.....dollars..	450,554	25,462	6,470	5,388	317	9,099
68	Average cost per acre-foot.....dollars..	0.55	0.92	0.12	0.08	0.04	1.00
69	Cost for supplemental irrigation.....dollars..	10,518	.....	45	.....	.....	49
70	Average cost per acre-foot.....dollars..	0.59	.....	0.20	.....	.....	1.09
Measurement of water to farms, 1949: ²							
71	No water measured.....enterprises reporting..	118	5	33	21	3	5
72	acres irrigated..	103,927	5,189	15,368	19,825	4,829	3,049
73	Part of water measured.....enterprises reporting..	6	.....	2	.....	.....	.....
74	acres irrigated..	10,905	.....	4,122	.....	.....	.....
75	All water measured.....enterprises reporting..	29	.....	2	.....	.....	.....
76	acres irrigated..	163,283	.....	.....	.....	.....	.....

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)	Lyon	Ormsby	Pershing	Washoe	White Pine	All other counties
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ¹.....enterprises..	34	3	10	28	8	6
2 Area irrigated direct.....acres..	83,737	1,941	27,314	28,236	4,726	87,904
3 Multiple-purpose enterprises ¹.....enterprises..	2	1	2	2	2	2
4 Area irrigated direct.....acres..	3,485	350	.....	3,124	.....	82,292
5 Complete-system enterprises ¹.....enterprises..	5	3	.....	6	8	5
6 Area irrigated direct.....acres..	8,839	1,941	.....	3,766	4,726	86,726
Enterprises by origin of water supply:¹						
7 No water from other enterprises.....enterprises reporting..	7	3	1	7	8	5
8 acres irrigated.....	15,983	1,941	.....	3,766	4,726	86,726
9 Part of water from other enterprises.....enterprises reporting..	.....	.....	.....	19	.....	.....
10 acres irrigated.....	.....	.....	.....	23,746	.....	.....
11 All water from other enterprises.....enterprises reporting..	27	.....	9	2	.....	1
12 acres irrigated.....	67,754	.....	27,314	724	.....	1,178
Enterprises by delivery of irrigation water:¹						
13 No water delivered.....enterprises reporting..	.....	.....	.....	.....	.....	.....
14 Water delivered direct to farms only.....enterprises reporting..	29	3	6	20	8	4
15 acres irrigated.....	64,650	1,941	18,914	15,270	4,726	5,612
16 Water delivered to farms and to other enterprises.....enterprises reporting..	4	.....	3	7	.....	2
17 acres irrigated.....	19,087	.....	8,400	12,966	.....	82,292
18 Water delivered to other enterprises only.....enterprises reporting..	1	.....	1	1	.....	.....
Enterprises by primary and supplemental irrigation:²						
19 All primary.....enterprises reporting..	24	2	8	24	7	6
20 acres irrigated.....	51,036	1,591	25,284	27,019	4,726	87,904
21 Part primary, part supplemental.....enterprises reporting..	9	1	1	3	.....	.....
22 Primary irrigation.....acres irrigated..	25,589	325	1,984	1,163	.....	.....
23 Supplemental irrigation.....acres irrigated..	7,112	25	46	54	.....	.....
24 All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....
25 acres irrigated.....	.....	.....	.....	.....	.....	.....
Enterprises by number of farms irrigated direct:¹						
26 None.....enterprises reporting..	1	.....	1	1	.....	.....
27 1-3.....enterprises reporting..	11	1	3	7	4	.....
28 4-9.....enterprises reporting..	8	2	3	11	2	.....
29 10-29.....enterprises reporting..	13	.....	2	4	2	2
30 30-99.....enterprises reporting..	.....	.....	1	5	.....	2
31 100-299.....enterprises reporting..	.....	.....	.....	.....	.....	.....
32 300-999.....enterprises reporting..	1	.....	.....	.....	.....	2
33 1,000 or more.....enterprises reporting..	.....	.....	.....	.....	.....	.....
Enterprises by acres irrigated direct:¹						
34 None.....enterprises reporting..	1	.....	1	1	.....	.....
35 1-99 acres.....enterprises reporting..	9	.....	.....	2	2	.....
36 100-999 acres.....enterprises reporting..	1	2	2	16	4	2
37 1,000-2,999 acres.....enterprises reporting..	11	1	4	6	2	2
38 3,000-9,999 acres.....enterprises reporting..	10	.....	3	3	.....	.....
39 10,000-29,999 acres.....enterprises reporting..	1	.....	.....	.....	.....	.....
40 30,000 acres or more.....enterprises reporting..	1	.....	.....	.....	.....	2
Quantities of water reported, 1949:³						
41 Total obtained from all sources.....enterprises reporting..	34	3	10	28	8	6
42 percent of all enterprises reporting..	53	16	23	22	8	4
43 Surface sources.....acres irrigated..	774,521	6,145	213,985	152,215	31,273	753,259
44 Pumped wells.....acres irrigated..	572,666	6,145	119,000	92,754	31,247	747,241
45 Other enterprises.....acres irrigated..	27	.....	9	21	1	1
46 Conveyance loss ³.....acres irrigated..	201,855	.....	94,985	59,461	.....	6,018
47 Delivered: ³	31	3	1	27	7	6
48 Direct to farms.....acres irrigated..	117,724	770	25,500	23,422	8,094	181,489
49 To other enterprises.....acres irrigated..	33	3	9	27	8	6
50 For use other than irrigation.....acres irrigated..	458,330	4,270	81,597	98,298	22,879	559,734
51 Delivered direct to farms for primary irrigation: ²	5	.....	4	8	.....	2
52 Enterprises reporting.....enterprises..	198,467	.....	100,888	10,490	.....	12,036
53 Quantity delivered.....acres-foot..	.....	1	1	5	2	.....
54 Area supplied primary irrigation.....acres..	.....	1,105	6,000	20,005	300	.....
55 Quantity supplied per acre.....acres-foot..	.....	.....	.....	.....	.....	.....
56 Delivered direct to farms for supplemental irrigation: ²	.....	.....	.....	.....	.....	.....
57 Enterprises reporting.....enterprises..	9	1	1	3	.....	.....
58 Quantity delivered.....acres-foot..	17,212	77	151	178	.....	.....
59 Area supplied supplemental irrigation.....acres..	7,112	25	46	54	.....	.....
60 Quantity supplied per acre.....acres-foot..	2.4	3.1	3.3	3.3	.....	.....
61 Total quantity per irrigated acre ⁴.....acres-foot..	2.6	2.2	3.0	3.5	3.1	3.2
Cost of water to farms for enterprises reporting quantity delivered, 1949:²						
62 Cost for primary irrigation.....dollars..	113,853	1,091	73,604	53,352	3,319	166,599
63 Average cost per acre-foot.....dollars..	0.61	0.26	0.90	0.54	0.22	0.59
64 Cost for supplemental irrigation.....dollars..	10,226	4	134	60	.....	.....
65 Average cost per acre-foot.....dollars..	0.59	0.05	0.89	0.34	.....	.....
Measurement of water to farms, 1949:²						
66 No water measured.....enterprises reporting..	18	2	.....	20	8	4
67 Part of water measured.....acres irrigated..	30,044	1,681	.....	13,604	4,726	5,612
68 All water measured.....enterprises reporting..	1	.....	.....	3	.....	.....
69 acres irrigated.....	4,462	.....	.....	2,321	.....	.....
70 All water measured.....acres irrigated..	13	.....	10	5	.....	2
71 acres irrigated.....	41,366	.....	27,314	12,311	.....	82,292

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, "Nevada: 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	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt	Lander
1	Irrigated land, 1949.....acres..	722,896	84,030	9,917	40,483	210,751	5,314	23,785	67,881	33,965
	Area irrigated direct, by drainage basin origin of water, 1949: ¹									
2	All basins.....acres..	813,759	166,081	9,917	41,540	210,751	5,314	23,785	67,881	33,965
3	North Pacific Coast.....acres..	40,904				40,904				
4	Snake River, Weiser, Idaho, to King Hill, Idaho (I-F).....acres..	33,793				33,793				
5	Owyhee River.....acres..	29,043				29,043				
6	Owyhee River direct (5a).....acres..	10,887				10,887				
7	South Fork (5c).....acres..	18,156				18,156				
8	Bruneau River (7).....acres..	4,750				4,750				
9	Snake River, King Hill to American Falls, Idaho (I-G); Salmon Falls Creek (3) ².....acres..	7,111				7,111				
10	Great Basin.....acres..	739,748	166,081		41,540	169,847	5,314	23,785	67,881	33,965
11	Northwest Great Basin (III-A).....acres..	33,456							28,939	
12	Surprise Valley and Madeline Plains (4).....acres..	906								
13	Central Desert area (5) ².....acres..	10,662							7,051	
14	Quinn River (8).....acres..	21,888							21,888	
15	Humboldt River (III-B).....acres..	248,886				132,567		13,667	38,942	29,254
16	Humboldt River direct (1a, b, and c).....acres..	134,794				62,194		3,838	26,829	10,481
17	Little Humboldt River (2).....acres..	12,113							12,113	
18	Reese River (3).....acres..	21,577								18,773
19	Pine Creek (4).....acres..	9,829						9,829		
20	South Fork (5).....acres..	32,123				31,923				
21	North Fork (6).....acres..	11,223				11,223				
22	Lamoille Creek (7).....acres..	27,227				27,227				
23	South Central Great Basin (III-C).....acres..	445,330	166,081		41,540	30,525	5,314	10,118		4,711
24	Honey Lake (1).....acres..	684								
25	Truckee River.....acres..	121,877	82,051		145					
26	Lower Truckee River and Pyramid Lake (2a).....acres..	87,612	82,051							
27	Upper Truckee River direct (2b).....acres..	34,265			145					
28	Carson River.....acres..	132,408	83,723		40,590					
29	Carson Sink (3a).....acres..	83,723	83,723							
30	Upper Carson River (3b).....acres..	48,685			40,590					
31	Walker River.....acres..	190,361	307		805	30,525	5,314	10,118		4,711
32	Lower Walker River and Walker Lake (4a).....acres..	42,695								
33	West Walker River (4b).....acres..	25,749			805					
34	East Walker River (4c).....acres..	21,374								
35	Dixie, Smith Creek, Fish Lake Valleys (6).....acres..	6,946	307				5,154			550
36	Big Smoky Valley (7).....acres..	6,457								1,546
37	Southwest Desert (8).....acres..	3,430					160			
38	Halston, Monitor, Hot Creek Valleys (11).....acres..	4,566								
39	Railroad Valley (12).....acres..	3,814								
40	Crescent, Grass, Diamond, and Newark Valleys (13).....acres..	18,397						10,118		2,615
41	Ruby Valley (14).....acres..	19,033				18,971				
42	Clover Valley (15).....acres..	9,990				9,990				
43	Steptoe and Goshute Valleys (16).....acres..	12,755				1,564				
44	Spring Valley (17).....acres..	15,155								
45	Bonneville Basin (III-D).....acres..	12,076				6,755				
46	Northwest Great Salt Lake Basin (1) ².....acres..	7,040				6,755				
47	Snake Valley (5).....acres..	5,036								
48	Gulf of California: B. Colorado River below Lees Ferry (IV-B).....acres..	33,107		9,917						
49	Colorado River direct (1b).....acres..	2,731		2,731						
50	Virgin River.....acres..	30,376		7,186						
51	Virgin River direct (3a).....acres..	2,294		2,294						
52	Muddy River (3b).....acres..	9,171		4,892						
53	Pahrnagat Valley (3c).....acres..	7,350								
54	White River (3d).....acres..	11,561								

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, "Nevada: 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)		Lincoln	Lyon	Mineral	Nye	Ormsby	Pershing	Storey	Washoe	White Pine
1	Irrigated land, 1949..... acres..	11,601	85,909	4,811	25,560	2,841	32,288	535	40,266	42,959
	Area irrigated direct, by drainage basin origin of water, 1949: ¹									
2	All basins..... acres..	11,629	93,021	4,811	25,560	2,866	32,334	535	40,810	42,959
3	North Pacific Coast..... acres..									
4	Snake River, Weiser, Idaho, to King Hill, Idaho (I-F)..... acres..									
5	Owyhee River..... acres..									
6	Owyhee River direct (5a)..... acres..									
7	South Fork (5c)..... acres..									
8	Bruneau River (7)..... acres..									
9	Snake River, King Hill to American Falls, Idaho (I-G): Salmon Falls Creek (3) ² acres..									
10	Great Basin..... acres..		93,021	4,811	19,365	2,866	32,334	535	40,810	37,593
11	Northwest Great Basin (III-A)..... acres..								4,517	
12	Surprise Valley and Madeline Plains (4)..... acres..								906	
13	Central Desert area (5) ² acres..								3,611	
14	Quinn River (8)..... acres..									
15	Humboldt River (III-B)..... acres..				2,804		31,452			200
16	Humboldt River direct (1a, b, and c)..... acres..						31,452			
17	Little Humboldt River (2)..... acres..									
18	Reese River (3)..... acres..				2,804					
19	Pine Creek (4)..... acres..									
20	South Fork (5)..... acres..									200
21	North Fork (6)..... acres..									
22	Lamoille Creek (7)..... acres..									
23	South Central Great Basin (III-C)..... acres..		93,021	4,811	16,561	2,866	882	535	36,293	32,072
24	Honey Lake (1)..... acres..								684	
25	Truckee River..... acres..		3,537					535	35,609	
26	Lower Truckee River and Pyramid Lake (2a)..... acres..		3,537					241	1,783	
27	Upper Truckee River direct (2b)..... acres..							294	33,826	
28	Carson River..... acres..		5,229			2,866				
29	Carson Sink (3a)..... acres..									
30	Upper Carson River (3b)..... acres..		5,229			2,866				
31	Walker River..... acres..		84,255	4,811	16,561		882			32,072
32	Lower Walker River and Walker Lake (4a)..... acres..		39,687	3,008						
33	West Walker River (4b)..... acres..		24,944							
34	East Walker River (4c)..... acres..		19,624	1,750						
35	Dixie, Smith Creek, Fish Lake Valleys (6)..... acres..			53			882			
36	Big Smoky Valley (7)..... acres..				4,911					
37	Southwest Desert (8)..... acres..				3,270					
38	Ralston, Monitor, Hot Creek Valleys (11)..... acres..				4,566					
39	Railroad Valley (12)..... acres..				3,814					
40	Crescent, Grasa, Diamond, and Newark Valleys (13)..... acres..									5,664
41	Ruby Valley (14)..... acres..									62
42	Clover Valley (15)..... acres..									
43	Steptoe and Goshute Valleys (16)..... acres..									11,191
44	Spring Valley (17)..... acres..									15,155
45	Bonneville Basin (III-D)..... acres..									5,321
46	Northwest Great Salt Lake Basin (1) ² acres..									285
47	Snake Valley (5)..... acres..									5,036
48	Gulf of California: B. Colorado River below Lees Ferry (IV-B)..... acres..	11,629			6,195					5,366
49	Colorado River direct (1b)..... acres..									
50	Virgin River..... acres..	11,629			6,195					5,366
51	Virgin River direct (3a)..... acres..									
52	Muddy River (3b)..... acres..	4,279								
53	Pahranaagat Valley (3c)..... acres..	7,350								
54	White River (3d)..... acres..				6,195					5,366

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

² Drainage basins in which less than 3 enterprises were reported have been combined as follows: Basin I-G-4 (Goose Creek) with Basin I-G-3, Basin III-A-3 (Cowhead and Warner Lakes area) with Basin III-A-5, Basin III-D-2 (Southwest Great Salt Lake) with Basin III-D-1.

IRRIGATION OF AGRICULTURAL LANDS

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

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

Item (For definitions and explanations, see text)	The State	Snake River, Weiser, Idaho, to King Hill, Idaho (I-F)						Snake River, King Hill to American Falls, Idaho (I-G) Salmon Falls Creek ¹
		North Pacific Coast, total	Owyhee River			Bruneau River	(3)	
			Total	Total	Direct (5a)				South Fork (5c)	(7)
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	1,178	58	47	36	17	19	11	11
2 1940..	1,464	94	81	56	21	35	25	(*)
3 Interbasin.....enterprises 1950..	19	2	1	1	.....	1	.....	1
4 Farms irrigated direct per enterprise ².....farms 1950..	2.7	2.5	2.9	3.5	6.4	0.9	0.9	0.9
5 Irrigated land ³.....acres 1949..	722,896	40,904	33,793	29,043	10,887	18,156	4,750	7,111
6 .....acres 1939..	739,863	64,115	56,114	47,698	20,896	26,802	8,416	8,001
7 Average per enterprise.....acres 1949..	614	70.5	719	807	640	956	432	646
8 Average acreage irrigated direct per enterprise ².....acres 1949..	621	70.5	719	807	640	956	432	646
Type of enterprise, 1950:								
9 Single-farm.....enterprises..	1,021	56	46	35	16	19	11	10
10 .....acres irrigated..	445,409	36,227	29,116	24,366	6,210	18,156	4,750	7,111
Mutual:								
11 Unincorporated.....enterprises..	90	.....	.....	.....	.....	.....	.....	.....
12 .....acres irrigated..	92,964	.....	.....	.....	.....	.....	.....	.....
13 Incorporated.....enterprises..	47	1	.....	.....	.....	.....	.....	1
14 .....acres irrigated..	74,197	(4)	.....	.....	.....	.....	.....	(4)
15 Commercial.....enterprises..	2	.....	.....	.....	.....	.....	.....	.....
16 .....acres irrigated..	(4)	.....	.....	.....	.....	.....	.....	.....
17 District.....enterprises..	4	.....	.....	.....	.....	.....	.....	.....
18 .....acres irrigated..	96,547	.....	.....	.....	.....	.....	.....	.....
19 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
20 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁵.....enterprises..	14	1	1	1	1	.....	.....	.....
22 .....acres irrigated..	17,580	4,677	4,677	4,677	4,677	.....	.....	.....
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..	975	58	47	36	17	19	11	11
28 .....acres irrigated..	654,415	40,904	33,793	29,043	10,887	18,156	4,750	7,111
29 Pumped only.....enterprises reporting..	8,065	.....	.....	.....	.....	.....	.....	.....
30 .....acres irrigated..	11	.....	.....	.....	.....	.....	.....	.....
31 Gravity and pumped.....enterprises reporting..	6,725	.....	.....	.....	.....	.....	.....	.....
32 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
33 Ground water only (pumped from wells).....enterprises reporting..	80	.....	.....	.....	.....	.....	.....	.....
34 .....acres irrigated..	2,975	.....	.....	.....	.....	.....	.....	.....
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	94	.....	.....	.....	.....	.....	.....	.....
36 .....acres irrigated..	59,528	.....	.....	.....	.....	.....	.....	.....
Stored water:								
37 None stored.....enterprises reporting..	948	50	42	34	16	18	8	8
38 .....acres irrigated..	413,960	29,302	22,901	18,866	6,210	12,656	4,035	6,401
39 Part stored.....enterprises reporting..	184	7	5	2	1	1	3	2
40 .....acres irrigated..	282,470	11,602	10,892	10,177	4,677	5,500	715	710
41 All stored.....enterprises reporting..	46	1	.....	.....	.....	.....	.....	1
42 .....acres irrigated..	35,278	.....	.....	.....	.....	.....	.....	.....
Sources of surface water, 1949:⁶								
43 Streams (and lakes).....enterprises reporting..	879	58	47	36	17	19	11	11
44 .....acres irrigated..	690,956	40,904	33,793	29,043	10,887	18,156	4,750	7,111
45 Springs.....enterprises reporting..	328	8	3	2	1	1	1	5
46 .....acres irrigated..	158,221	11,282	7,077	4,977	4,677	300	2,100	4,205
47 Flowing wells.....enterprises reporting..	85	.....	.....	.....	.....	.....	.....	.....
48 .....acres irrigated..	17,196	.....	.....	.....	.....	.....	.....	.....
49 Drainage water.....enterprises reporting..	24	.....	.....	.....	.....	.....	.....	.....
50 .....acres irrigated..	10,906	.....	.....	.....	.....	.....	.....	.....
51 Sewage.....enterprises reporting..	3	.....	.....	.....	.....	.....	.....	.....
52 .....acres irrigated..	1,022	.....	.....	.....	.....	.....	.....	.....
53 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
54 .....acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁷								
Irrigated land drained:								
55 Enterprises reporting.....enterprises 1949..	77	2	2	2	2	.....	.....	.....
56 Area supplied primary irrigation.....acres 1949..	209,306	120	120	120	120	.....	.....	.....
57 Area artificially drained.....acres 1949..	123,059	120	120	120	120	.....	.....	.....
58 .....acres 1939..	94,450	.....	.....	.....	.....	.....	.....	(*)
Irrigated land in need of drainage:								
59 Enterprises reporting.....enterprises 1949..	130	16	11	9	6	3	2	5
60 Area supplied primary irrigation.....acres 1949..	232,669	14,173	10,572	10,022	6,272	3,760	550	3,601
61 Area in need of drainage.....acres 1949..	81,371	5,289	4,827	4,807	4,712	95	20	462
62 .....acres 1939..	21,153	.....	.....	.....	.....	.....	.....	(*)

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)	South Central Great Basin (III-C)							
	Total	Honey Lake (1)	Truckee River			Carson River		
			Total	Lower Truckee River and Pyramid Lake (2a)	Upper Truckee River direct (2b)	Total	Carson Sink (3a)	Upper Carson River (3b)
ALL ENTERPRISES								
Farms and land irrigated:								
1 All irrigation enterprises.....enterprises 1950..	547	8	112	18	45	132	4	128
2 1940..	(*)	14	(*)	(*)	(*)	(*)	(*)	109
3 Interbasin.....enterprises 1950..	13	.....	3	1	3	4	2	2
4 Farms irrigated direct per enterprise ².....farms 1950..	3.7	1.0	4.7	7.0	4.2	6.5	149.0	2.1
5 Irrigated land ³.....acres 1949..	354,541	684	39,282	5,561	33,721	131,326	83,723	47,603
6 1939..	327,113	1,063	46,025	9,443	36,582	90,974	55,980	34,994
7 Average per enterprise.....acres 1949..	648	86	351	309	355	995	20,931	372
8 Average acreage irrigated direct per enterprise ².....acres 1949..	664	86	356	309	361	1,003	20,931	380
Type of enterprise, 1950:								
9 Single-farm.....enterprises..	443	8	83	15	68	89	2	87
10 acres irrigated..	142,535	684	8,042	1,354	6,688	24,642	(⁴)	24,148
Mutual:								
11 Unincorporated.....enterprises..	61	.....	14	1	13	31	.....	31
12 acres irrigated..	63,128	.....	11,058	(⁴)	10,832	16,036	.....	16,036
13 Incorporated.....enterprises..	30	.....	12	.....	13	7	.....	7
14 acres irrigated..	49,544	.....	15,305	.....	15,305	4,236	.....	4,236
Commercial.....enterprises..	2	.....	1	.....	1	1	.....	1
16 acres irrigated..	(⁴)	.....	(⁴)	.....	(⁴)	(⁴)	.....	(⁴)
17 District.....enterprises..	3	.....	1	1	.....	1	1	.....
18 acres irrigated..	96,547	.....	(⁴)	(⁴)	.....	(⁴)	(⁴)	.....
19 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
20 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁵.....enterprises..	8	.....	1	1	.....	3	1	2
22 acres irrigated..	6,514	.....	433	433	.....	1,872	1,178	694
23 State.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
24 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
25 City.....enterprises..	.....	.....	.....	.....	.....	.....	.....	.....
26 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Use of surface, ground, pumped and stored water, 1949:								
27 Surface water:								
28 Gravity only.....enterprises reporting..	449	7	95	15	81	102	4	98
29 acres irrigated..	328,144	584	37,889	5,003	32,886	117,167	83,723	33,444
30 Pumped only.....enterprises reporting..	10	.....	1	.....	1	3	.....	3
31 acres irrigated..	2,651	.....	1	.....	1	348	.....	348
32 Gravity and pumped.....enterprises reporting..	9	.....	.....	.....	.....	4	.....	4
acres irrigated..	6,499	.....	.....	.....	.....	1,220	.....	1,220
33 Ground water only (pumped from wells).....enterprises reporting..	26	.....	8	1	7	6	.....	6
34 acres irrigated..	1,930	.....	313	80	233	75	.....	75
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	53	1	8	2	6	17	.....	17
36 acres irrigated..	24,755	100	1,623	478	1,145	13,598	.....	13,598
37 Stored water:								
38 None stored.....enterprises reporting..	402	6	76	14	62	100	1	99
39 acres irrigated..	126,510	544	10,053	1,683	8,370	25,779	300	25,479
40 Part stored.....enterprises reporting..	122	.....	31	1	31	30	3	27
41 acres irrigated..	233,303	.....	28,932	3,548	25,384	105,587	83,423	22,164
42 All stored.....enterprises reporting..	23	2	5	3	2	2	.....	2
acres irrigated..	3,466	140	841	330	511	1,042	.....	1,042
Sources of surface water, 1949: ⁶								
43 Streams (and lakes).....enterprises reporting..	403	4	85	13	73	110	4	106
44 acres irrigated..	340,675	302	38,840	5,106	33,734	130,464	83,723	46,741
45 Springs.....enterprises reporting..	159	4	19	3	16	14	1	13
46 acres irrigated..	59,533	382	6,319	225	6,094	2,310	200	2,110
47 Flowing wells.....enterprises reporting..	39	.....	5	.....	5	5	.....	5
48 acres irrigated..	9,959	.....	295	.....	295	1,364	.....	1,364
49 Drainage water.....enterprises reporting..	21	.....	12	1	11	6	.....	6
50 acres irrigated..	10,364	.....	8,125	150	7,975	1,534	.....	1,534
51 Sewage.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
52 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
53 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....	.....
54 acres irrigated..	.....	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land: ⁷								
Irrigated land drained:								
55 Enterprises reporting.....enterprises 1949..	53	.....	13	2	11	7	2	5
56 Area supplied primary irrigation.....acres 1949..	157,933	.....	13,066	3,799	9,267	85,298	83,229	2,069
57 Area artificially drained.....acres 1949..	94,143	.....	9,304	3,598	5,706	48,378	47,551	827
58 acres 1939..	(*)	.....	(*)	(*)	(*)	(*)	(*)	.....
Irrigated land in need of drainage:								
59 Enterprises reporting.....enterprises 1949..	53	.....	9	2	7	7	2	5
60 Area supplied primary irrigation.....acres 1949..	132,318	.....	8,811	3,799	5,012	85,963	83,229	2,734
61 Area in need of drainage.....acres 1949..	63,564	.....	6,425	3,568	2,857	48,785	48,229	556
62 acres 1939..	(*)	.....	(*)	(*)	(*)	(*)	(*)	.....

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

IRRIGATION OF AGRICULTURAL LANDS

Drainage Basin Table 1 (Part 1 of 4).--IRRIGATION ENTERPRISES: NUMBER AND 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)	Gulf of California: Colorado River below Lees Ferry (IV-B)						
	Total	Colorado River direct (1b)	Virgin River				White River (3d)
			Total	Direct (3a)	Muddy River (3b)	Pahrnagat Valley (3c)	
ALL ENTERPRISES							
Farms and land irrigated:							
1 All irrigation enterprises.....enterprises 1950..	183	45	138	12	84	13	29
2 1940..	255	122	133	6	96	9	22
3 Interbasin.....enterprises 1950..	1	1	1	1	1	1	1
4 Farms irrigated direct per enterprise ².....farms 1950..	2.5	1.1	3.0	7.9	2.2	5.1	2.4
5 Irrigated land ³.....acres 1949..	33,079	2,731	30,348	2,294	9,143	7,350	11,561
6 1939..	25,909	2,617	23,292	2,304	8,959	6,302	5,727
7 Average per enterprise.....acres 1949..	181	61	220	191	109	565	399
8 Average acreage irrigated direct per enterprise ².....acres 1949..	181	61	220	191	109	565	399
Type of enterprise, 1950:							
9 Single-farm.....enterprises..	169	45	124	9	81	9	25
10 acres irrigated..	21,419	2,731	18,688	227	5,523	4,827	8,111
Mutual:							
11 Unincorporated.....enterprises..	4	4	4	(4)	1	(4)	1
12 acres irrigated..	442	442	442	(4)	2	(4)	2
13 Incorporated.....enterprises..	9	9	9	(4)	2	(4)	2
14 acres irrigated..	10,944	10,944	10,944	(4)	2	(4)	2
15 Commercial.....enterprises..	.....	.....	.....	.....	.....	.....	.....
16 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
17 District.....enterprises..	.....	.....	.....	.....	.....	.....	.....
18 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
19 U. S. Bureau of Reclamation.....enterprises..	.....	.....	.....	.....	.....	.....	.....
20 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
21 U. S. Bureau of Indian Affairs ⁵.....enterprises..	1	1	1	1	1	1	1
22 acres irrigated..	302	302	302	302	302	302	302
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..	112	20	92	7	52	11	22
28 acres irrigated..	28,627	1,251	27,376	2,200	6,956	6,951	11,269
29 Pumped only.....enterprises reporting..	6	6	6	5	1	1	1
30 acres irrigated..	113	113	113	94	19	19	19
31 Gravity and pumped.....enterprises reporting..	2	2	2	2	2	2	2
32 acres irrigated..	226	226	226	226	226	226	226
33 Ground water only (pumped from wells).....enterprises reporting..	39	18	21	12	16	2	3
34 acres irrigated..	1,609	346	1,263	767	399	97	97
35 Surface (gravity or pumped) and ground water.....enterprises reporting..	24	7	17	13	13	13	4
36 acres irrigated..	2,532	1,134	1,398	1,203	1,203	1,203	195
Stored water:							
37 None stored.....enterprises reporting..	159	38	121	12	75	12	22
38 acres irrigated..	22,567	1,838	20,729	2,294	8,359	4,350	5,726
39 Part stored.....enterprises reporting..	18	7	11	6	6	6	5
40 acres irrigated..	7,251	893	6,358	668	668	668	5,690
41 All stored.....enterprises reporting..	6	6	6	6	3	1	2
42 acres irrigated..	3,289	3,289	3,289	3,289	144	3,000	145
Sources of surface water, 1949:⁶							
43 Streams (and lakes).....enterprises reporting..	84	4	80	10	46	6	18
44 acres irrigated..	19,018	72	18,946	2,281	6,961	1,639	8,065
45 Springs.....enterprises reporting..	52	2	50	1	30	8	11
46 acres irrigated..	18,990	67	18,923	7	2,527	6,659	9,730
47 Flowing wells.....enterprises reporting..	24	19	5	1	3	1	1
48 acres irrigated..	1,521	1,226	295	6	281	8	8
49 Drainage water.....enterprises reporting..	2	2	2	2	2	2	2
50 acres irrigated..	127	127	127	127	127	127	127
51 Sewage.....enterprises reporting..	3	3	3	3	3	3	3
52 acres irrigated..	1,022	1,022	1,022	1,022	1,022	1,022	1,022
53 Other sources.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
54 acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Drainage of irrigated land:⁷							
Irrigated land drained:							
55 Enterprises reporting.....enterprises 1949..	6	6	6	6	5	1	1
56 Area supplied primary irrigation.....acres 1949..	4,783	4,783	4,783	4,783	3,899	884	884
57 Area artificially drained.....acres 1949..	1,469	1,469	1,469	1,469	585	884	884
58 acres 1939..	20	20	20	20	20	(*)	20
Irrigated land in need of drainage:							
59 Enterprises reporting.....enterprises 1949..	16	16	16	3	10	3	3
60 Area supplied primary irrigation.....acres 1949..	8,305	8,305	8,305	2,016	4,790	1,499	1,499
61 Area in need of drainage.....acres 1949..	2,938	2,938	2,938	420	2,267	251	251
62 acres 1939..	360	360	360	360	360	(*)	360

*Not available.

¹Drainage basins in which less than 3 enterprises were reported have been combined as follows: Basin I-G-4 (Goose Creek) with Basin I-G-3, Basin III-A-3 (Cowhead and Warner Lakes area) with Basin III-A-5, and Basin III-D-2 (Southwest Great Salt Lake) with Basin III-D-1.

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

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

⁴Data for less than 3 enterprises not shown separately.

⁵Data for less than 3 enterprises shown with permission of the enterprise.

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

⁷For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.

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	Snake River, Weiser, Idaho, to King Hill, Idaho (I-F)						Snake River, King Hill to American Falls, Idaho (I-G): Salmon Falls Creek ¹	
		North Pacific Coast, total	Owyhee River			Bruneau River			
			Total	Total	Direct				South Fork
				(5a)	(5c)	(7)	(3)		
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	891	55	45	34	17	17	11	10
2	dams 1950..	4,065	467	391	251	137	114	140	76
3	dams 1940..	1,896	310	231	153	54	99	78	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	348	27	26	19	8	11	7	1
5	Timber.....dams 1950..	256	6	5	5	3	2	.....	1
6	Earth and rock.....dams 1950..	2,953	426	352	219	126	93	133	74
7	Other, mixed, and not reported.....dams 1950..	508	8	8	.....	.....	8	.....	.....
8	Reservoirs.....enterprises reporting 1950..	139	8	6	3	1	2	3	2
9	reservoirs 1950..	202	12	9	4	1	3	5	3
10	reservoirs 1940..	200	2	2	2	1	1	.....	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	176	9	7	4	1	3	3	2
12	total capacity, acre-feet 1950..	687,179	37,010	36,410	36,135	32,600	3,535	275	600
13	total capacity, acre-feet 1940..	696,005	(*)	(*)	(*)	32,000	(*)	.....	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	135	2	2	1	.....	1	1	.....
15	100-999 acre-feet.....reservoirs 1950..	24	4	2	.....	.....	.....	2	2
16	1,000 acre-feet and over.....reservoirs 1950..	17	3	3	3	1	2	.....	.....
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	8	1	1	1	1	.....	.....	.....
18	Earth and rock.....dams 1950..	174	11	8	3	.....	3	5	3
19	Other, mixed, and not reported.....dams 1950..	20	.....	.....	.....	.....	.....	.....	.....
20	Canals and ditches.....enterprises reporting 1950..	721	25	20	17	2	15	3	5
21	total length, miles 1950..	3,388	212	193	183	94	89	10	19
22	total length, miles 1940..	2,897	449	384	351	93	258	33	(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	75	.....	.....	.....	.....	.....	.....	.....
24	total length, miles 1950..	123	.....	.....	.....	.....	.....	.....	.....
25	total length, miles 1940..	105	1	1	1	.....	1	.....	(*)
26	Tunnels.....enterprises reporting 1950..	12	.....	.....	.....	.....	.....	.....	.....
27	total length, feet 1950..	23,277	.....	.....	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	85	.....	.....	.....	.....	.....	.....	.....
29	wells 1950..	290	.....	.....	.....	.....	.....	.....	.....
30	wells 1940..	322	.....	.....	.....	.....	.....	.....	(*)
31	Pumped wells.....enterprises reporting 1950..	173	.....	.....	.....	.....	.....	.....	.....
32	wells 1950..	254	.....	.....	.....	.....	.....	.....	.....
33	wells 1940..	167	1	1	1	.....	1	.....	(*)
34	Wells for which pumping lift was reported.....wells 1949..	225	.....	.....	.....	.....	.....	.....	.....
35	Average pumping lift.....feet 1949..	51	.....	.....	.....	.....	.....	.....	.....
36	Average pumping lift.....feet 1939..	31	(*)	(*)	(*)	.....	(*)	.....	(*)
37	Irrigation pumps.....enterprises reporting 1950..	200	.....	.....	.....	.....	.....	.....	.....
38	pumps 1950..	289	.....	.....	.....	.....	.....	.....	.....
39	pumps 1940..	196	2	2	2	.....	2	.....	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	97	.....	.....	.....	.....	.....	.....	.....
41	electric motors 1950..	127	.....	.....	.....	.....	.....	.....	.....
42	electric motors 1940..	46	.....	.....	.....	.....	.....	.....	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	99	.....	.....	.....	.....	.....	.....	.....
44	other motors and engines 1950..	153	.....	.....	.....	.....	.....	.....	.....
45	other motors and engines 1940..	146	2	(*)	(*)	.....	(*)	.....	(*)
Season of Irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..	95	4	4	3	1	2	1	.....
47	acres irrigated..	72,993	3,420	3,420	3,270	70	3,200	150	.....
48	Water delivered before and after July 1.....enterprises reporting..	1,046	52	41	31	16	15	10	11
49	acres irrigated..	646,947	34,273	27,162	22,562	10,817	11,745	4,600	7,111
50	Water delivered only after July 1.....enterprises reporting..	14	.....	.....	.....	.....	.....	.....	.....
51	acres irrigated..	3,373	.....	.....	.....	.....	.....	.....	.....
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	16,906,790	960,899	822,673	776,738	686,999	89,739	45,935	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	536	20	17	15	6	9	2	3
54	Amount.....dollars 1950..	3,274,686	507,647	272,647	270,147	170,747	99,400	2,500	235,000
55	Area irrigated direct.....acres 1949..	400,424	18,773	15,988	15,673	5,432	10,241	315	2,785
56	Total capital investment Jan. 1, 1950.....dollars 1950..	20,181,476	1,468,546	1,095,320	1,046,885	857,746	189,139	48,435	(*)
Indebtedness:⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	21	.....	.....	.....	.....	.....	.....	.....
58	Amount.....dollars 1950..	2,973,295	.....	.....	.....	.....	.....	.....	.....
59	Amount.....dollars 1940..	3,934,315	.....	.....	.....	.....	.....	.....	(*)
60	Area irrigated direct.....acres 1949..	121,910	.....	.....	.....	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61	Enterprises reporting.....enterprises 1950..	2	.....	.....	.....	.....	.....	.....	.....
62	Amount.....dollars 1950..	179,154	.....	.....	.....	.....	.....	.....	.....
63	Amount.....dollars 1949..	85,014	.....	.....	.....	.....	.....	.....	.....

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)	Great Basin, total	Northwest Great Basin (III-A)			Humboldt River (III-B)			
		Total	Surprise Valley and Madeline Plains (4)	Central Desert area ¹ (5)	Quinn River (8)	Total	Direct	
							Total	Below Inlay (1a)
ALL ENTERPRISES								
Irrigation works:								
1 Diversion dams.....enterprises reporting 1950..	735	54	4	23	27	263	120	9
2 dams 1950..	3,234	187	6	53	128	1,368	524	11
3 dams 1940..	1,491	72	11	26	35	(*)	(*)	(*)
Diversion dams by material:								
4 Concrete or masonry.....dams 1950..	295	17	.....	2	15	113	67	7
5 Timber.....dams 1950..	217	17	.....	10	7	93	40	.....
6 Earth and rock.....dams 1950..	2,291	151	6	41	104	996	327	4
7 Other, mixed, and not reported.....dams 1950..	431	2	.....	.....	2	166	90	.....
8 Reservoirs.....enterprises reporting 1950..	110	12	2	8	2	28	19	3
9 reservoirs 1950..	159	15	2	11	2	36	22	4
10 reservoirs 1940..	157	10	2	8	.....	(*)	(*)	(*)
11 Reservoirs for which capacity was reported.....reservoirs 1950..	136	14	2	10	2	31	17	4
12 total capacity, acre-feet 1950..	635,238	7,284	160	7,001	123	239,825	238,701	203,206
13 reservoirs 1940..	(*)	(*)	.....	4,341	.....	(*)	(*)	(*)
Reservoirs by capacity:								
14 1-99 acre-feet.....reservoirs 1950..	106	5	1	2	2	23	12	2
15 100-999 acre-feet.....reservoirs 1950..	18	7	1	6	.....	4	1	.....
16 1,000 acre-feet and over.....reservoirs 1950..	12	2	.....	2	.....	4	4	2
Reservoir dams by material:								
17 Concrete or masonry.....dams 1950..	7	1	.....	1	.....	2	2	.....
18 Earth and rock.....dams 1950..	133	11	2	8	1	28	17	4
19 Other, mixed, and not reported.....dams 1950..	19	3	.....	2	1	6	3	.....
20 Canals and ditches.....enterprises reporting 1950..	603	47	3	25	19	198	97	14
21 total length, miles 1950..	2,873	194	9	130	55	841	439	72
22 canals and ditches 1940..	2,267	150	6	89	55	(*)	(*)	(*)
23 Pipelines and siphons ².....enterprises reporting 1950..	69	3	.....	3	.....	10	7	1
24 total length, miles 1950..	115	7	.....	7	.....	20	13	1
25 pipelines and siphons 1940..	93	2	.....	2	.....	(*)	(*)	(*)
26 Tunnels.....enterprises reporting 1950..	10	.....	.....	.....	.....	.....	.....	.....
27 total length, feet 1950..	22,977	.....	.....	.....	.....	.....	.....	.....
28 Flowing wells.....enterprises reporting 1950..	61	14	.....	14	.....	7	6	1
29 wells 1950..	258	98	.....	98	.....	23	22	9
30 wells 1940..	214	103	15	88	.....	(*)	(*)	(*)
31 Pumped wells.....enterprises reporting 1950..	109	7	.....	3	4	20	18	.....
32 wells 1950..	166	12	.....	3	9	25	18	.....
33 wells 1940..	119	26	.....	10	16	(*)	(*)	(*)
34 Wells for which pumping lift was reported.....wells 1949..	152	8	.....	2	6	24	17	.....
35 Average pumping lift.....feet 1949..	54	50	.....	22	60	52	50	.....
36 wells 1939..	(*)	99	.....	56	43	(*)	(*)	(*)
37 Irrigation pumps.....enterprises reporting 1950..	128	7	.....	3	4	21	19	.....
38 pumps 1950..	188	12	.....	3	9	28	21	.....
39 pumps 1940..	145	27	.....	10	17	(*)	(*)	(*)
40 Electric motors used for pumping.....enterprises reporting 1950..	55	.....	.....	.....	.....	16	15	.....
41 electric motors 1950..	68	.....	.....	.....	.....	17	15	.....
42 electric motors 1940..	36	.....	.....	.....	.....	(*)	(*)	(*)
43 Other motors and engines used for pumping.....enterprises reporting 1950..	73	6	.....	3	3	10	8	1
44 other motors and engines 1950..	116	11	.....	3	8	15	10	1
45 other motors and engines 1940..	104	27	.....	10	17	(*)	(*)	(*)
Season of Irrigation, 1949:								
46 Water delivered only before July 1.....enterprises reporting..	91	25	1	3	21	51	20	.....
47 acres irrigated..	69,398	17,277	350	741	16,186	39,600	24,750	.....
48 Water delivered before and after July 1.....enterprises reporting..	823	44	5	31	8	246	132	19
49 acres irrigated..	580,544	13,904	556	9,920	3,428	208,820	109,578	29,030
50 Water delivered only after July 1.....enterprises reporting..	11	1	.....	.....	1	2	1	.....
51 acres irrigated..	3,278	18	.....	.....	18	6	6	.....
Capital investment:								
52 Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	15,210,918	136,279	14,681	80,448	41,150	(*)	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:								
53 Enterprises reporting.....enterprises 1950..	403	23	1	14	8	159	72	4
54 Amount.....dollars 1950..	2,343,701	87,707	100	51,040	36,567	400,376	276,481	114,875
55 Area irrigated direct.....acres 1949..	358,114	13,452	160	2,867	10,425	124,089	50,321	6,290
56 Total capital investment Jan. 1, 1950.....dollars 1950..	17,554,619	223,986	14,781	131,488	77,717	(*)	(*)	(*)
Indebtedness:⁴								
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
57 Enterprises reporting.....enterprises 1950..	16	2	.....	1	1	2	1	1
58 Amount.....dollars 1950..	2,877,679	17,979	.....	4,996	12,983	956,429	949,275	949,275
59 Enterprises reporting.....enterprises 1940..	3,915,616	.....	.....	.....	.....	(*)	(*)	(*)
60 Amount.....dollars 1940..	116,287	3,162	.....	200	2,962	999	.....	.....
61 Area irrigated direct.....acres 1949..	.....	.....	.....	.....	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:								
62 Enterprises reporting.....enterprises 1950..	2	.....	.....	.....	.....	.....	.....	.....
63 Amount.....dollars 1950..	179,154	.....	.....	.....	.....	.....	.....	.....
64 Area irrigated direct.....acres 1949..	84,978	.....	.....	.....	.....	.....	.....	.....

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]

Humboldt River (III-B)—Continued								South Central Great Basin (III-C)									
Direct		Little Humboldt River (2)	Reese River (3)	Pine Creek (4)	South Fork (5)	North Fork (6)	Lamoille Creek (7)	Total	Honey Lake (1)	Truckee River			Carson River				
Inlay to Palisade (1b)	Above Palisade (1c)									Total	Lower Truckee River and Pyramid Lake (2a)	Upper Truckee River direct (2b)	Total	Carson Sink (3a)	Upper Carson River (3b)		
45	66	22	23	18	45	8	31	402	6	80	12	69	108	2	106	1	
160	353	67	171	69	190	162	185	1,532	6	111	17	94	175	2	173	2	
(*)	(*)	133	90	72	77	80	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	91	3
38	22	20	7	10	2	7	.....	161	1	27	2	25	38	1	37	4
12	28	1	15	.....	22	2	13	107	.....	8	1	7	32	.....	32	5
102	221	19	130	43	159	153	165	1,101	5	71	13	58	78	1	77	6	
8	82	27	19	16	7	.....	7	163	.....	5	1	4	27	.....	27	7
10	6	.....	3	2	3	1	.....	64	2	10	3	8	7	2	5	8
10	8	.....	4	5	4	1	.....	98	4	10	5	13	10	3	7	9
(*)	(*)	.....	.....	.....	.....	.....	(*)	(*)	5	(*)	(*)	(*)	(*)	(*)	3	10
10	3	.....	4	5	4	1	.....	87	4	12	5	7	8	1	7	11
5,463	30,038	.....	503	23	595	3	.....	389,053	410	16,134	2,105	14,029	296,621	296,600	21	12
(*)	(*)	.....	.....	.....	.....	.....	(*)	(*)	127	(*)	(*)	(*)	(*)	(*)	3,201	13
8	2	.....	3	5	2	1	.....	74	1	8	2	6	7	.....	7	14
1	.....	.....	1	.....	2	.....	.....	7	3	1	1	.....	.....	.....	.....	15
1	1	.....	.....	.....	.....	.....	.....	6	.....	3	2	1	1	.....	.....	16
1	1	.....	.....	.....	.....	.....	.....	4	.....	2	1	1	.....	.....	.....	17
9	4	.....	3	3	4	1	.....	84	4	12	3	9	10	3	7	18
.....	3	.....	1	2	.....	.....	.....	10	.....	4	1	3	.....	.....	.....	19
33	50	16	17	5	38	2	28	353	5	75	13	63	81	4	77	20	
233	134	61	139	24	78	5	95	1,826	10	359	60	299	538	296	242	21	
(*)	(*)	139	79	10	13	55	(*)	(*)	3	(*)	(*)	(*)	(*)	(*)	134	22	
4	2	.....	2	1	.....	.....	.....	55	1	12	4	8	12	.....	12	23
10	2	.....	6	1	.....	.....	.....	86	2	19	10	9	16	.....	16	24
(*)	(*)	.....	.....	6	.....	.....	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	10	25
.....	.....	.....	.....	.....	.....	.....	.....	10	.....	8	1	7	1	.....	1	26
.....	.....	.....	.....	.....	.....	.....	.....	22,977	.....	17,577	2,500	15,077	1,000	.....	1,000	27
5	.....	.....	1	.....	5	.....	.....	39	.....	5	.....	5	5	.....	5	28
13	.....	.....	1	.....	5	.....	.....	136	.....	7	.....	7	10	.....	10	29
(*)	(*)	.....	1	.....	.....	.....	(*)	(*)	.....	(*)	(*)	(*)	(*)	(*)	1	30
14	4	1	1	.....	.....	.....	.....	77	1	15	3	12	23	.....	23	31
14	4	4	3	.....	.....	.....	.....	123	1	19	3	16	31	.....	31	32
(*)	(*)	2	1	.....	.....	.....	(*)	(*)	7	(*)	(*)	(*)	(*)	(*)	.....	16
13	4	4	3	.....	.....	.....	.....	114	1	16	3	13	31	.....	31	34
54	37	80	25	.....	.....	.....	.....	55	10	39	51	36	65	.....	65	35
(*)	(*)	(*)	(*)	.....	.....	.....	(*)	(*)	36	(*)	(*)	(*)	(*)	(*)	30	36
15	4	1	1	.....	.....	.....	.....	95	1	16	3	13	30	.....	30	37
17	4	4	3	.....	.....	.....	.....	142	1	19	4	15	39	.....	39	38
(*)	(*)	4	1	.....	.....	.....	(*)	(*)	8	(*)	(*)	(*)	(*)	(*)	.....	27
12	3	1	.....	.....	.....	.....	.....	36	1	9	2	7	19	.....	19	40
12	3	2	.....	.....	.....	.....	.....	51	2	9	2	7	20	.....	20	41
(*)	(*)	.....	.....	.....	.....	.....	(*)	(*)	2	(*)	(*)	(*)	(*)	(*)	.....	17
5	2	1	1	.....	.....	.....	.....	52	.....	4	1	3	11	.....	11	43
7	2	2	3	.....	.....	.....	.....	85	.....	6	1	5	15	.....	15	44
(*)	(*)	4	1	.....	.....	.....	(*)	(*)	6	(*)	(*)	(*)	(*)	(*)	10	45
19	1	15	10	6	.....	2	.....	15	1	3	.....	3	3	.....	3	46
24,350	400	7,906	4,549	1,445	.....	950	.....	8,771	30	1,209	.....	1,209	727	.....	727	47
43	70	6	14	12	47	7	32	515	6	105	17	89	126	.....	126	48
29,234	51,314	4,207	17,028	8,384	32,123	10,273	27,227	352,124	494	38,480	5,556	32,924	131,527	83,723	47,804	49	
1	.....	.....	.....	.....	.....	.....	.....	7	.....	1	.....	1	2	.....	2	50
6	.....	.....	.....	.....	.....	.....	.....	624	.....	30	.....	30	2	.....	2	51
(*)	(*)	56,790	41,899	40,018	14,360	136,757	(*)	(*)	27,896	(*)	(*)	(*)	(*)	(*)	388,942	52	
35	33	6	16	4	39	2	23	213	1	38	11	27	49	3	46	53	
107,514	54,092	4,280	66,445	17,600	22,191	4,400	8,979	1,815,981	2,000	528,164	435,111	92,053	432,845	167,247	265,598	54	
22,617	21,414	3,857	16,042	4,305	27,307	3,610	18,647	217,138	12	17,937	5,190	12,747	101,314	83,423	17,891	55	
(*)	(*)	61,070	108,344	57,618	36,551	141,157	(*)	(*)	29,896	(*)	(*)	(*)	(*)	(*)	654,540	56	
.....	.....	.....	1	.....	.....	.....	.....	12	.....	3	2	1	5	2	3	57
(*)	(*)	.....	7,154	.....	.....	.....	.....	1,903,271	.....	393,505	392,005	1,500	1,190,523	1,173,634	16,899	58
.....	.....	.....	999	.....	.....	.....	.....	112,126	.....	7,091	3,981	3,110	84,613	83,229	1,384	59
.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	1	.....	61
.....	.....	.....	.....	.....	.....	.....	.....	179,154	.....	.....	.....	.....	136	136	.....	62
.....	.....	.....	.....	.....	.....	.....	.....	82,051	.....	.....	.....	.....	82,051	82,051	.....	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)		South Central Great Basin (III-C)—Continued							
		Walker River			Dixie, Smith Creek, and Fish Lake Valleys	Big Smoky Valley	Southwest Desert	Ralston, Monitor, and Hot Creek Valleys	
		Total	Lower Walker River and Walker Lake (4a)	West Walker River (4b)					East Walker River (4c)
ALL ENTERPRISES									
Irrigation works:									
1	Diversion dams.....enterprises reporting 1950..	26	12	9	5	12	19	6	11
2	.....dams 1950..	35	12	13	10	36	148	8	51
3	.....dams 1940..	53	(*)	(*)	(*)	73	39	(*)	(*)
Diversion dams by material:									
4	Concrete or masonry.....dams 1950..	10	6	4	.....	.....	24	1	6
5	.....dams 1950..	4	.....	.....	.....	2	7	1	19
6	Earth and rock.....dams 1950..	18	3	9	6	29	112	6	26
7	Other, mixed, and not reported.....dams 1950..	3	3	.....	.....	5	.....	.....	.....
8	Reservoirs.....enterprises reporting 1950..	5	2	4	.....	6	3	6	1
9	.....reservoirs 1950..	7	3	4	.....	7	4	8	2
10	.....reservoirs 1940..	5	(*)	(*)	(*)	24	3	(*)	(*)
11	Reservoirs for which capacity was reported.....reservoirs 1950..	6	3	3	.....	6	4	7	2
12	.....total capacity, acre-feet 1950..	73,090	13,050	60,040	.....	777	207	420	2
13	.....1940..	93,280	(*)	(*)	(*)	358	620	(*)	(*)
Reservoirs by capacity:									
14	1-99 acre-feet.....reservoirs 1950..	3	2	1	.....	5	3	7	2
15	100-999 acre-feet.....reservoirs 1950..	1	.....	1	.....	1	.....	.....	.....
16	1,000 acre-feet and over.....reservoirs 1950..	2	1	1	.....	.....	.....	.....	.....
Reservoir dams by material:									
17	Concrete or masonry.....dams 1950..	1	1	.....	.....	.....	.....	1	.....
18	Earth and rock.....dams 1950..	6	2	4	.....	7	4	7	2
19	Other, mixed, and not reported.....dams 1950..	.....	.....	.....	.....	.....	.....	.....	.....
20	Canals and ditches.....enterprises reporting 1950..	43	20	18	6	20	18	9	6
21	.....total length, miles 1950..	317	163	110	44	82	84	11	16
22	.....1940..	28 ^a	(*)	(*)	(*)	77	60	(*)	(*)
23	Pipelines and siphons ².....enterprises reporting 1950..	3	2	1	.....	9	.....	.....	1
24	.....total length, miles 1950..	2	1	1	.....	20	.....	.....	(3)
25	.....1940..	3	(*)	(*)	(*)	12	1	(*)	(*)
26	Tunnels.....enterprises reporting 1950..	1	.....	2	.....	.....	.....	.....	.....
27	.....total length, feet 1950..	4,400	.....	4,400	.....	.....	.....	.....	.....
28	Flowing wells.....enterprises reporting 1950..	2	.....	2	.....	8	6	6	.....
29	.....wells 1950..	4	.....	4	.....	37	22	19	.....
30	.....1940..	14	(*)	(*)	(*)	41	18	(*)	(*)
31	Pumped wells.....enterprises reporting 1950..	3	1	2	.....	14	2	6	1
32	.....wells 1950..	3	1	2	.....	36	3	10	4
33	.....wells 1940..	3	(*)	(*)	(*)	11	1	(*)	(*)
34	Wells for which pumping lift was reported.....wells 1949..	3	1	2	.....	35	2	10	.....
35	.....Average pumping lift.....feet 1949..	57	10	81	.....	54	30	85	.....
36	.....1939..	5	(*)	(*)	(*)	30	(*)	(*)	(*)
37	Irrigation pumps.....enterprises reporting 1950..	8	4	2	2	15	2	6	1
38	.....pumps 1950..	11	5	2	4	36	3	10	4
39	.....1940..	3	(*)	(*)	(*)	13	1	(*)	(*)
40	Electric motors used for pumping.....enterprises reporting 1950..	6	4	2	.....	1	.....	.....	.....
41	.....electric motors 1950..	7	5	2	.....	7	.....	.....	.....
42	.....1940..	2	(*)	(*)	(*)	.....	.....	(*)	(*)
43	Other motors and engines used for pumping.....enterprises reporting 1950..	2	.....	.....	2	14	2	6	1
44	.....other motors and engines 1950..	4	.....	.....	4	29	3	11	4
45	.....1940..	1	(*)	(*)	(*)	12	1	(*)	(*)
Season of irrigation, 1949:									
46	Water delivered only before July 1.....enterprises reporting..	.....	.....	.....	.....	.....	2	.....	1
47	.....acres irrigated.....	.....	.....	.....	.....	.....	120	.....	150
48	Water delivered before and after July 1.....enterprises reporting..	55	25	23	9	32	19	26	12
49	.....acres irrigated.....	89,658	53,547	25,749	10,362	6,318	6,245	3,430	4,416
50	Water delivered only after July 1.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....
51	.....acres irrigated.....	160	.....	.....	160	.....	.....	.....	.....
Capital investment:									
52	Capital investment in irrigation works and water rights to Jan. 1, 1940.....dollars 1940..	1,696,862	(*)	(*)	(*)	84,608	84,334	(*)	(*)
New capital investment Jan. 1, 1940, to Jan. 1, 1950:									
53	Enterprises reporting.....enterprises 1950..	32	14	12	6	18	9	14	7
54	Amount.....dollars 1950..	215,476	69,520	124,104	21,852	148,170	18,844	108,005	77,700
55	Area irrigated direct.....acres 1949..	57,915	36,359	13,844	7,702	2,195	1,981	2,404	3,470
56	Total capital investment Jan. 1, 1950.....dollars 1950..	1,912,338	(*)	(*)	(*)	232,778	103,178	(*)	(*)
Indebtedness:⁴									
Outstanding bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
57	Enterprises reporting.....enterprises 1950..	5	3	2	1	.....	.....	.....	.....
58	Amount.....dollars 1950..	319,243	297,043	15,000	7,200	.....	.....	.....	.....
59	.....1940..	493,000	(*)	(*)	(*)	.....	.....	(*)	(*)
60	Area irrigated direct.....acres 1949..	20,422	10,105	9,917	400	.....	.....	.....	.....
Arrearage in payment of principal or interest on bonds, construction cost, and other funded obligations, Jan. 1, 1950:									
61	Enterprises reporting.....enterprises 1950..	1	1	.....	.....	.....	.....	.....	.....
62	Amount.....dollars 1950..	179,018	179,018	.....	.....	.....	.....	.....	.....
63	Area irrigated direct.....acres 1949..	2,963	2,963	.....	.....	.....	.....	.....	.....

*Not available.

¹Drainage basins in which less than 3 enterprises were reported have been combined as follows: Basin I-G-4 (Goose Creek) with Basin I-G-3, Basin III-A-3 (Cowhead and Warner Lakes area) with Basin III-A-5, and Basin III-D-2 (Southwest Great Salt Lake) with Basin III-D-1.

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.

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]

Table with columns for drainage basins: South Central Great Basin (III-C), Ponneville Basin (III-D), and Gulf of California: Colorado River below Lees Ferry (IV-F). Sub-columns include Railroad Valley, Crescent, Grass, Diamond, and Newark Valleys, Ruby Valley, Clover Valley, Steptoe and Goshute Valleys, Spring Valley, Total, North-west Great Salt Lake Basin, Snake Valley, Total, Colorado River direct, and Virgin River (Total, Direct, Muddy River, Pahranagat Valley, White River). Rows show census data for 1950 and 1940 across various categories.

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	Snake River, Weiser, Idaho, to King Hill, Idaho (I-F)						Snake River, King Hill to American Falls, Idaho (I-G): Salmon Falls Creek	
		North Pacific Coast, total	Owyhee River			Bruneau River	(3)		
			Total	Direct	South Fork				
			(5a)	(5c)	(7)				
ALL ENTERPRISES									
Cost of water to farms, 1949: ²									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	1,169	57	47	36	17	19	11	10
2	Cost.....dollars..	629,599	3,507	2,907	2,527	1,554	973	380	600
3	Area irrigated direct.....acres..	731,708	40,904	33,793	29,043	10,887	18,156	4,750	7,111
4	Cost per acre irrigated direct.....dollars..	0.86	0.09	0.09	0.09	0.14	0.05	0.08	0.08
5	Total cost per irrigated acre.....dollars..	0.87	0.09	0.09	0.09	0.14	0.05	0.08	0.08
6	Total cost per acre-foot of water ³.....dollars..	0.29	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	878	57	47	36	17	19	11	10
8	acres irrigated..	491,233	40,904	33,793	29,043	10,887	18,156	4,750	7,111
9	\$1.00-\$1.99.....enterprises reporting..	72							
10	acres irrigated..	155,838							
11	\$2.00-\$4.99.....enterprises reporting..	98							
12	acres irrigated..	74,298							
13	\$5.00-\$9.99.....enterprises reporting..	40							
14	acres irrigated..	8,275							
15	\$10.00 and over.....enterprises reporting..	81							
16	acres irrigated..	2,064							
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	1,164	57	47	36	17	19	11	10
18	Cost.....dollars..	616,250	3,507	2,907	2,527	1,554	973	380	600
19	Area supplied primary irrigation.....acres..	722,896	40,904	33,793	29,043	10,887	18,156	4,750	7,111
20	Cost per acre supplied.....dollars..	0.85	0.09	0.09	0.09	0.14	0.05	0.08	0.08
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	23							
22	Cost.....dollars..	13,349							
23	Area supplied supplemental irrigation.....acres..	8,812							
24	Cost per acre supplied.....dollars..	1.51							
Cost to farms for purposes other than operation and maintenance: ⁵									
25	Enterprises reporting.....enterprises..	76							
26	Cost.....dollars..	157,910							
27	Area irrigated direct.....acres..	228,691							
28	Cost per acre irrigated.....dollars..	0.69							
Arrearage in payments by farms, Jan. 1, 1950: ⁵									
29	Enterprises reporting.....enterprises..	7							
30	Amount.....dollars..	47,717							
31	Area irrigated direct.....acres..	104,319							
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	1,021	56	46	35	16	19	11	10
33	Area irrigated.....acres..	445,409	36,227	29,116	24,366	6,210	18,156	4,750	7,111
34	Complete-system enterprises ⁷.....enterprises..	966	56	46	35	16	19	11	10
35	Area irrigated.....acres..	416,905	36,227	29,116	24,366	6,210	18,156	4,750	7,111
Other farms irrigated:									
36	Enterprises reporting.....number..	10							
37	Number of other farms.....farms..	16							
38	Area irrigated in other farms.....acres..	926							
Enterprises by origin of water supply: ⁷									
39	No water from other enterprises.....enterprises reporting..	972	56	46	35	16	19	11	10
40	acres irrigated..	421,102	36,227	29,116	24,366	6,210	18,156	4,750	7,111
41	Part of water from other enterprises.....enterprises reporting..	31							
42	acres irrigated..	20,123							
43	All of water from other enterprises.....enterprises reporting..	18							
44	acres irrigated..	4,184							
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	1,013	56	46	35	16	19	11	10
46	acres irrigated..	443,918	36,227	29,116	24,366	6,210	18,156	4,750	7,111
47	Part primary, part supplemental.....enterprises reporting..	1							
48	Primary irrigation.....acres irrigated..	20							
49	Supplemental irrigation.....acres irrigated..	207							
50	All supplemental.....enterprises reporting..	5							
51	acres irrigated..	1,264							
Enterprises by number of acres irrigated: ⁷									
52	None.....enterprises reporting..	2							
53	1-9 acres.....enterprises reporting..	117							
54	10-29 acres.....enterprises reporting..	109	2	2	2	2			
55	30-59 acres.....enterprises reporting..	120	4	3	2	1	1	1	1
56	60-99 acres.....enterprises reporting..	98	4	4	3	2	1		
57	100-199 acres.....enterprises reporting..	154	7	7	6	4	1		
58	200-499 acres.....enterprises reporting..	213	20	15	10	3	7	5	5
59	500-999 acres.....enterprises reporting..	99	8	7	5	2	3	2	1
60	1,000 acres or more.....enterprises reporting..	109	11	8	7	2	5	1	3

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)	South Central Great Basin (III-C)								
	Total	Honey Lake	Truckee River			Carson River			
			Total	Lower Truckee River and Pyramid Lake	Upper Truckee River direct	Total	Carson Sink	Upper Carson River	
		(1)	(2a)	(2b)	(3a)	(3b)			
ALL ENTERPRISES									
Cost of water to farms, 1949:²									
Total cost of water to farms:									
1	Enterprises reporting.....enterprises..	542	8	111	18	93	130	4	126
2	Cost.....dollars..	429,253	225	66,035	8,674	57,361	188,514	165,557	22,957
3	Area irrigated direct.....acres..	363,279	684	39,826	5,561	34,265	132,40P	83,723	48,685
4	Cost per acre irrigated direct.....dollars..	1.18	0.33	1.66	1.56	1.67	1.42	1.98	0.47
5	Total cost per irrigated acre.....dollars..	1.21	0.33	1.68	1.56	1.70	1.44	1.98	0.4F
6	Total cost per acre-foot of water ³.....dollars..	0.42	(4)	0.49	0.39	0.50	0.46	(4)	0.16
Enterprises by cost per acre:									
7	Less than \$1.00.....enterprises reporting..	381	7	55	10	45	97	1	96
8	acres irrigated..	173,254	644	13,351	1,570	11,781	43,770	300	43,470
9	\$1.00-\$1.99.....enterprises reporting..	60	.....	22	1	21	11	2	9
10	acres irrigated..	149,113	.....	13,478	3,554	9,924	85,265	82,245	3,020
11	\$2.00-\$4.99.....enterprises reporting..	56	.....	20	5	15	13	.....	13
12	acres irrigated..	37,323	.....	12,041	309	11,732	1,867	.....	1,867
13	\$5.00-\$9.99.....enterprises reporting..	14	1	6	2	4	4	1	3
14	acres irrigated..	2,460	40	750	128	622	1,460	1,178	282
15	\$10.00 and over.....enterprises reporting..	31	.....	8	.....	8	5	.....	5
16	acres irrigated..	1,129	.....	206	.....	206	46	.....	46
Cost of water for primary irrigation:									
17	Enterprises reporting.....enterprises..	57	8	109	18	91	127	4	123
18	Cost.....dollars..	416,087	225	65,535	8,674	56,861	186,074	165,557	20,517
19	Area supplied primary irrigation.....acres..	354,541	684	39,282	5,561	33,721	131,326	83,723	47,603
20	Cost per acre supplied.....dollars..	1.17	0.33	1.67	1.56	1.69	1.42	1.98	0.43
Cost of water for supplemental irrigation:									
21	Enterprises reporting.....enterprises..	21	.....	5	.....	5	7	.....	7
22	Cost.....dollars..	13,166	.....	500	.....	500	2,440	.....	2,440
23	Area supplied supplemental irrigation.....acres..	8,738	.....	544	.....	544	1,082	.....	1,082
24	Cost per acre supplied.....dollars..	1.51	.....	0.92	.....	0.92	2.26	.....	2.26
Cost to farms for purposes other than operation and maintenance:⁵									
25	Enterprises reporting.....enterprises..	5P	.....	19	1	18	12	2	10
26	Cost.....dollars..	118,727	.....	12,286	2,621	9,665	64,619	63,083	1,536
27	Area irrigated direct.....acres..	191,871	.....	26,630	3,548	23,082	88,663	83,229	5,434
28	Cost per acre irrigated.....dollars..	0.61	.....	0.46	0.73	0.41	0.72	0.76	0.29
Arrearage in payments by farms, Jan. 1, 1950:⁵									
29	Enterprises reporting.....enterprises..	6	.....	3	1	2	1	.....	.....
30	Amount.....dollars..	42,292	.....	1,773	1,393	380	33,421	33,421	.....
31	Area irrigated direct.....acres..	101,499	.....	5,537	3,548	1,989	82,051	82,051	.....
SINGLE-FARM ENTERPRISES, 1950									
32	Single-farm enterprises.....enterprises..	443	8	83	15	6P	89	2	87
33	Area irrigated.....acres..	142,535	6P4	8,042	1,354	6,688	24,642	(6)	24,148
34	Complete-system enterprises ⁷.....enterprises..	406	8	72	15	57	75	1	74
35	Area irrigated.....acres..	120,452	6P4	7,100	1,354	5,746	10,015	(6)	9,821
Other farms irrigated:									
36	Enterprises reporting.....number..	4	.....	1	.....	1	1	.....	1
37	Number of other farms.....farms..	6	.....	1	.....	1	3	.....	3
38	Area irrigated in other farms.....acres..	558	.....	20	.....	20	78	.....	78
Enterprises by origin of water supply:⁷									
39	No water from other enterprises.....enterprises reporting..	409	8	73	15	58	75	1	74
40	Part of water from other enterprises.....acres irrigated..	121,078	684	7,566	1,354	6,212	10,015	(6)	9,821
41	Part of water from other enterprises.....enterprises reporting..	22	.....	6	.....	6	13	.....	12
42	Part of water from other enterprises.....acres irrigated..	18,843	.....	324	.....	324	13,602	(6)	13,302
43	All of water from other enterprises.....enterprises reporting..	12	.....	4	.....	4	1	.....	1
44	All of water from other enterprises.....acres irrigated..	2,614	.....	152	.....	152	1,025	.....	1,025
Enterprises by primary and supplemental irrigation:									
45	All primary.....enterprises reporting..	436	8	81	15	66	85	2	83
46	Part primary, part supplemental.....acres irrigated..	141,044	684	7,552	1,354	6,198	23,641	(6)	23,147
47	Primary irrigation.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	1
48	Primary irrigation.....acres irrigated..	20	.....	.....	.....	.....	20	.....	20
49	Supplemental irrigation.....acres irrigated..	207	.....	.....	.....	.....	207	.....	207
50	All supplemental.....enterprises reporting..	5	.....	2	.....	2	3	.....	3
51	All supplemental.....acres irrigated..	1,264	.....	490	.....	490	774	.....	774
Enterprises by number of acres irrigated:⁷									
52	None.....enterprises reporting..	1	.....	.....	.....	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	5P	1	26	2	24	15	.....	15
54	10-29 acres.....enterprises reporting..	43	1	9	3	6	8	.....	8
55	30-59 acres.....enterprises reporting..	51	2	11	3	8	5	.....	5
56	60-99 acres.....enterprises reporting..	39	.....	5	2	3	10	.....	10
57	100-199 acres.....enterprises reporting..	99	3	20	3	17	18	1	17
58	200-499 acres.....enterprises reporting..	78	1	10	2	8	23	.....	23
59	500-999 acres.....enterprises reporting..	47	.....	2	.....	2	5	1	4
60	1,000 acres or more.....enterprises reporting..	37	.....	.....	.....	.....	5	.....	5

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 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)	Gulf of California: Colorado River below Lees Ferry (IV-B)							
	Total	Colorado River direct (1b)	Virgin River				White River (3d)	
			Total	Direct (3a)	Muddy River (3b)	Pahrnagat Valley (3c)		
ALL ENTERPRISES								
Cost of water to farms, 1949:²								
Total cost of water to farms:								
1	Enterprises reporting.....enterprises..	183	45	138	12	84	13	29
2	Cost.....dollars..	66,875	7,259	59,616	9,237	32,029	10,448	7,902
3	Area irrigated direct.....acres..	33,107	2,731	30,376	2,294	9,171	7,350	11,561
4	Cost per acre irrigated direct.....dollars..	2.02	2.66	1.96	4.03	3.49	1.42	0.68
5	Total cost per irrigated acre.....dollars..	2.02	2.66	1.96	4.03	3.50	1.42	0.68
6	Total cost per acre-foot of water ³.....dollars..	0.49	(⁴)	0.48	0.88	0.66	0.43	0.22
Enterprises by cost per acre:								
7	Less than \$1.00.....enterprises reporting..	99	19	80	5	48	7	20
8	Cost.....acres irrigated..	21,468	2,212	19,256	244	3,381	4,632	10,999
9	\$1.00-\$1.99.....enterprises reporting..	5	.....	5	.....	4	.....	1
10	Cost.....acres irrigated..	1,021	.....	1,021	.....	971	.....	50
11	\$2.00-\$4.99.....enterprises reporting..	20	3	17	3	10	4	.....
12	Cost.....acres irrigated..	4,243	282	3,961	999	1,044	1,918	.....
13	\$5.00-\$9.99.....enterprises reporting..	22	6	16	1	9	2	4
14	Cost.....acres irrigated..	5,706	138	5,568	1,017	3,426	800	325
15	\$10.00 and over.....enterprises reporting..	37	17	20	3	13	.....	4
16	Cost.....acres irrigated..	669	99	570	34	349	.....	187
Cost of water for primary irrigation:								
17	Enterprises reporting.....enterprises..	183	45	138	12	84	13	29
18	Cost.....dollars..	66,826	7,259	59,567	9,237	31,980	10,448	7,902
19	Area supplied primary irrigation.....acres..	33,079	2,731	30,348	2,294	9,143	7,350	11,561
20	Cost per acre supplied.....dollars..	2.02	2.66	1.96	4.03	3.50	1.42	0.68
Cost of water for supplemental irrigation:								
21	Enterprises reporting.....enterprises..	1	.....	1	.....	1	.....	.....
22	Cost.....dollars..	49	.....	49	.....	49	.....	.....
23	Area supplied supplemental irrigation.....acres..	28	.....	28	.....	28	.....	.....
24	Cost per acre supplied.....dollars..	1.75	.....	1.75	.....	1.75	.....	.....
Cost to farms for purposes other than operation and maintenance:⁵								
25	Enterprises reporting.....enterprises..	4	.....	4	1	1	2	.....
26	Cost.....dollars..	8,600	.....	8,600	990	3,012	4,598	.....
27	Area irrigated direct.....acres..	5,321	.....	5,321	1,017	2,820	1,494	.....
28	Cost per acre irrigated.....dollars..	1.62	.....	1.62	0.97	1.07	3.10	.....
Arrearage in payments by farms, Jan. 1, 1950:⁵								
29	Enterprises reporting.....enterprises..	1	.....	1	.....	1	.....	.....
30	Amount.....dollars..	5,425	.....	5,425	.....	5,425	.....	.....
31	Area irrigated direct.....acres..	2,820	.....	2,820	.....	2,820	.....	.....
SINGLE-FARM ENTERPRISES, 1950								
32	Single-farm enterprises.....enterprises..	169	45	124	9	81	9	25
33	Area irrigated.....acres..	21,419	2,731	18,688	227	5,523	4,827	8,111
34	Complete-system enterprises ⁷.....enterprises..	159	45	114	8	76	9	21
35	Area irrigated.....acres..	21,128	2,731	18,397	205	5,389	4,827	7,976
Other farms irrigated:								
36	Enterprises reporting.....number..	3	3	.....	.....	.....	.....	.....
37	Number of other farms.....farms..	6	6	.....	.....	.....	.....	.....
38	Area irrigated in other farms.....acres..	13	13	.....	.....	.....	.....	.....
Enterprises by origin of water supply:⁷								
39	No water from other enterprises.....enterprises reporting..	160	45	115	9	76	9	21
40	Part of water from other enterprises.....acres irrigated..	21,150	2,731	18,419	227	5,389	4,827	7,976
41	All of water from other enterprises.....enterprises reporting..	7	.....	7	.....	4	.....	3
42	Part of water from other enterprises.....acres irrigated..	219	.....	219	.....	119	.....	100
43	All of water from other enterprises.....enterprises reporting..	2	.....	2	.....	1	.....	1
44	Part of water from other enterprises.....acres irrigated..	50	.....	50	.....	15	.....	35
Enterprises by primary and supplemental irrigation:								
45	All primary.....enterprises reporting..	169	45	124	9	81	9	25
46	Part primary, part supplemental.....acres irrigated..	21,419	2,731	18,688	227	5,523	4,827	8,111
47	Primary irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
48	Supplemental irrigation.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
49	All supplemental.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
50	Part primary, part supplemental.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
51	All supplemental.....acres irrigated..	.....	.....	.....	.....	.....	.....	.....
Enterprises by number of acres irrigated:⁷								
52	None.....enterprises reporting..	.....	.....	.....	.....	.....	.....	.....
53	1-9 acres.....enterprises reporting..	37	23	14	3	9	1	1
54	10-29 acres.....enterprises reporting..	35	11	24	2	18	1	3
55	30-59 acres.....enterprises reporting..	36	4	32	3	24	.....	5
56	60-99 acres.....enterprises reporting..	25	2	23	1	12	2	8
57	100-199 acres.....enterprises reporting..	16	.....	16	.....	13	1	2
58	200-499 acres.....enterprises reporting..	14	4	10	.....	4	2	4
59	500-999 acres.....enterprises reporting..	4	1	3	.....	1	1	1
60	1,000 acres or more.....enterprises reporting..	2	.....	2	.....	.....	1	1

¹ Drainage basins in which less than 3 enterprises were reported have been combined as follows: Basin I-G-4 (Goose Creek) with Basin I-G-3, Basin III-A-3 (Cowhead and Warner Lakes area) with Basin III-A-5, and Basin III-D-2 (Southwest Great Salt Lake) with Basin III-D-1. 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. (Drainage Basin Table 1, Part 4, line 66.) ⁴ Average not given because the number of enterprises reporting quantity of water was not sufficient to provide satisfactory data. ⁵ Not reported by single-farm enterprises. ⁶ Data for less than 3 enterprises not shown separately. ⁷ 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

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

Item (For definitions and explanations, see text)	South Central Great Basin (III-C)					
	Total ¹	Truckee River		Carson River		
		Total	Lower Truckee River and Pyramid Lake (2a)	Upper Truckee River direct (2b)	Total ¹	Upper Carson River (3b)
MULTIPLE-FARM ENTERPRISES, 1950						
1 Multiple-farm enterprises, total number ².....enterprises..	104	29	3	27	43	41
2 Area irrigated direct.....acres..	220,744	31,784	4,207	27,577	107,766	24,537
3 Multiple-purpose enterprises ².....enterprises..	6	3	1	2	4	3
4 Area irrigated direct.....acres..	89,941	6,672	3,546	3,124	83,269	1,218
5 Complete-system enterprises ².....enterprises..	34	7	3	4	23	22
6 Area irrigated direct.....acres..	109,625	7,314	4,207	3,107	96,015	13,964
7 Enterprises by origin of water supply: ²						
8 No water from other enterprises.....enterprises reporting..	34	8	3	6	21	20
9 No water delivered.....acres irrigated..	115,243	7,314	4,207	3,107	94,489	12,438
10 Part of water from other enterprises.....enterprises reporting..	28	19		19	9	9
11 Part of water from other enterprises.....acres irrigated..	30,503	23,746		23,746	6,757	6,757
12 All water from other enterprises.....enterprises reporting..	42	2		2	13	12
12 All water from other enterprises.....acres irrigated..	74,998	724		724	6,520	5,342
13 Enterprises by delivery of irrigation water: ²						
14 No water delivered.....enterprises reporting..						
15 Water delivered direct to farms only.....enterprises reporting..	85	20	2	18	36	35
16 Water delivered to farms and to other enterprises.....acres irrigated..	101,759	15,270	659	14,611	21,075	19,897
17 Water delivered to other enterprises only.....enterprises reporting..	15	8	1	7	5	4
18 Enterprises by primary and supplemental irrigation: ³						
19 All primary.....enterprises reporting..	85	25	3	22	38	36
20 All primary.....acres irrigated..	186,044	30,567	4,207	26,360	106,984	23,755
21 Part primary, part supplemental.....enterprises reporting..	15	3		3	3	3
22 Primary irrigation.....acres irrigated..	27,433	1,163		1,163	681	681
23 Supplemental irrigation.....acres irrigated..	7,267	54		54	101	101
24 All supplemental.....enterprises reporting..						
25 All supplemental.....acres irrigated..						
26 Enterprises by number of farms irrigated direct: ²						
27 None.....enterprises reporting..	4	1		2	2	2
28 1-3.....enterprises reporting..	38	7	1	6	22	22
29 4-9.....enterprises reporting..	33	11		11	14	14
30 10-29.....enterprises reporting..	21	4		4	3	3
31 30-99.....enterprises reporting..	7	5	1	4	1	
32 100-299.....enterprises reporting..						
33 300-999.....enterprises reporting..	1	1	1		1	
34 1,000 or more.....enterprises reporting..						
35 Enterprises by acres irrigated direct: ²						
36 None.....enterprises reporting..	4	1		2	2	2
37 1-99 acres.....enterprises reporting..	6	2		2	3	3
38 100-999 acres.....enterprises reporting..	54	16	2	14	28	28
39 1,000-2,999 acres.....enterprises reporting..	24	6		6	8	7
40 3,000-9,999 acres.....enterprises reporting..	14	3		3	1	1
41 10,000-29,999 acres.....enterprises reporting..	1					
42 30,000 or more.....enterprises reporting..	1	1				
43 Quantities of water reported, 1949: ⁴						
44 Total obtained from all sources ⁴.....enterprises reporting..	104	29	3	27	43	41
45 percent of all enterprises reporting..	19	27	17	28	33	32
46 Surface sources.....acre-feet..	1,067,290	512,215	367,550	150,885	487,032	121,014
47 Pumped wells.....enterprises reporting..	62	27	3	25	30	29
48 Pumped wells.....acre-feet..	774,670	452,754	367,550	91,424	455,728	95,728
49 Other enterprises.....enterprises reporting..	70	21		21	22	21
50 Other enterprises.....acre-feet..	292,620	59,461		59,461	31,304	25,286
51 Conveyance loss ⁴.....enterprises reporting..	95	28	3	26	39	37
52 Conveyance loss ⁴.....acre-feet..	157,679	111,491	89,504	22,387	102,417	13,445
53 Delivered: ⁴						
54 Direct to farms.....enterprises reporting..	100	28	3	25	41	39
55 Direct to farms.....acre-feet..	643,293	364,211	272,028	92,183	341,241	70,213
56 To other enterprises.....enterprises reporting..	19	9	1	9	7	6
57 To other enterprises.....acre-feet..	244,168	16,508	6,018	16,310	41,229	35,211
58 For use other than irrigation.....enterprises reporting..	8	5		5	3	3
59 For use other than irrigation.....acre-feet..	22,150	20,005		20,005	2,145	2,145
60 Delivered direct to farms for primary irrigation: ⁵						
61 Enterprises reporting.....enterprises..	100	28	3	25	41	39
62 Quantity delivered.....acre-feet..	625,596	108,757	16,752	92,005	330,297	69,906
63 Area supplied primary irrigation.....acres..	213,477	31,730	4,207	27,523	107,665	24,436
64 Quantity supplied per acre.....acre-feet..	2.9	3.4	4.0	3.3	3.1	2.9
65 Delivered direct to farms for supplemental irrigation: ⁵						
66 Enterprises reporting.....enterprises..	15	3		3	3	3
67 Quantity delivered.....acre-feet..	17,697	178		178	307	307
68 Area supplied supplemental irrigation.....acres..	7,267	54		54	101	101
69 Quantity supplied per acre.....acre-feet..	2.4	3.3		3.3	3.0	3.0
70 Total quantity per irrigated acre ⁵.....acre-feet..	2.9	3.4	4.0	3.4	3.1	3.0
71 Cost of water to farms for enterprises reporting quantity delivered, 1949: ⁵						
72 Cost for primary irrigation.....dollars..	341,365	59,851	6,973	52,878	174,205	9,340
73 Average cost per acre-foot.....dollars..	0.55	0.55	0.42	0.57	0.53	0.13
74 Cost for supplemental irrigation.....dollars..	10,335	60		60	49	49
75 Average cost per acre-foot.....dollars..	0.58	0.34		0.34	0.16	0.16
76 Measurement of water to farms, 1949: ⁵						
77 No water measured.....enterprises reporting..	76	20	2	19	38	37
78 No water measured.....acres irrigated..	65,686	13,604	659	12,945	21,274	20,096
79 Part of water measured.....enterprises reporting..	6	3		3	2	2
80 Part of water measured.....acres irrigated..	10,905	2,321		2,321	4,122	4,122
81 All water measured.....enterprises reporting..	18	6	1	5	1	
82 All water measured.....acres irrigated..	135,969	15,859	3,548	12,311	82,051	

¹Data for less than 3 enterprises in Basins I-F-5a, I-G-3, III-A-5, III-A-8, III-B-2, III-B-3, III-C-3a, III-C-12, and III-C-16 included only in totals
²For interbasin and interstate enterprises, number of enterprises represents characteristics of the entire enterprise, number of acres represents acreage within the drainage basin or State.
³For interbasin and interstate enterprises, data represent characteristics within the drainage basin or State.
⁴For interbasin and interstate enterprises, data represent characteristics of the entire enterprise.
⁵Calculated average quantity of water per acre for total irrigated land, all irrigation enterprises, primary and supplemental irrigation combined.

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

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

South Central Great Basin (III-C)—Continued				Bonneville Basin (III-D)		Gulf of California: Colorado River below Lees Ferry (IV-B)					
Walker River				Total	Snake Valley (5)	Total	Virgin River				
Total	Lower Walker River and Walker Lake (4a)	West Walker River (4b)	East Walker River (4c)				Total	Direct (3a)	Muddy River (3b)	Pahrangat Valley (3c)	White River (3d)
31	16	14	3	3	3	14	14	3	3	4	4
80,346	52,139	24,035	4,172	900	900	11,688	11,688	2,067	3,648	2,523	3,450
3	1	2	3	3	3	2	2	1	1	1	1
5,448	2,963	2,485	1	900	900	3,704	3,704	3	2,820	884	4
4	2	3	1	3	3	13	13	3	2	4	4
12,592	9,707	2,485	400	900	900	11,162	11,162	2,067	3,122	2,523	3,450
27	14	11	2	3	3	14	14	3	3	4	4
67,754	42,432	21,550	3,772	900	900	11,688	11,688	2,067	3,648	2,523	3,450
27	12	13	2	3	3	12	12	2	2	4	4
64,566	36,759	24,035	3,772	900	900	10,223	10,223	1,128	3,122	2,523	3,450
3	3	1	1	1	1	2	2	1	1	1	1
15,780	15,380	400	400	1,465	1,465	1,465	1,465	939	526	1	1
21	10	10	2	2	2	13	13	3	2	4	4
47,645	27,973	18,925	747	900	900	11,162	11,162	2,067	3,122	2,523	3,450
9	5	3	1	1	1	1	1	1	1	1	1
25,589	20,462	2,285	2,842	498	498	498	498	1	498	1	1
7,112	3,704	2,825	583	28	28	28	28	28	28	28	28
1	1	6	2	2	2	5	5	1	1	1	2
9	1	4	1	1	1	6	6	1	1	3	2
7	4	4	1	3	3	6	6	2	1	1	2
13	9	4	4	3	3	3	3	1	1	1	3
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
8	6	2	2	3	3	2	2	1	2	4	2
10	8	2	1	4	4	8	8	2	1	1	1
10	6	5	1	1	1	4	4	2	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
31	16	14	3	3	3	14	14	3	3	4	4
57	64	61	30	12	18	8	10	25	4	31	14
422,445	340,781	262,854	206,790	15,200	15,200	75,294	75,294	14,469	36,820	9,930	14,075
4	2	3	1	3	3	13	13	3	3	4	3
220,590	213,990	200,590	193,990	15,200	15,200	75,268	75,268	14,469	36,820	9,930	14,049
27	14	11	2	3	3	1	1	1	1	1	1
201,855	126,791	62,264	12,800	26	26	26	26	1	1	1	26
27	14	11	2	3	3	12	12	2	3	4	4
30,720	19,502	8,108	3,110	4,460	4,460	14,592	14,592	3,500	6,281	1,577	3,234
30	15	14	3	3	3	14	14	3	3	4	4
199,276	128,830	79,851	28,785	10,740	10,740	48,445	48,445	10,569	19,078	8,257	10,541
4	4	1	1	2	2	2	2	1	1	1	1
192,449	192,449	174,895	174,895	410	410	410	410	110	300	1	1
30	15	13	3	2	2	7	7	2	2	1	2
182,064	119,297	53,376	9,391	2,740	2,740	11,847	11,847	290	11,161	96	300
73,234	48,435	21,210	3,589	900	900	14	14	3	3	4	4
2.5	2.5	2.5	2.6	3.0	3.0	47,239	47,239	9,408	19,033	8,267	10,541
9	5	3	1	2	2	11,660	11,660	2,067	3,620	2,523	3,450
17,212	8,387	7,380	1,445	4.1	4.1	4.1	4.1	4.6	5.3	3.3	3.1
7,112	3,704	2,825	583	1	1	1	1	1	1	1	1
2.4	2.3	2.6	2.5	45	45	45	45	1	45	1	1
2.7	2.7	2.8	2.8	28	28	28	28	1	28	1	1
106,687	66,893	35,863	3,931	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
0.59	0.56	0.67	0.42	4.1	4.1	4.1	4.1	4.6	5.3	3.3	3.1
10,226	4,939	4,261	1,026	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.59	0.59	0.58	0.71	0	0	0	0	0	0	0	0
16	6	9	1	0	0	37,880	37,880	7,657	18,736	8,168	3,319
29,960	20,570	9,443	347	0.00	0.00	0.80	0.80	0.81	0.98	0.99	0.31
1	1	1	1	49	49	49	49	49	49	49	49
4,462	4,462	1,026	1,026	1,09	1,09	1,09	1,09	1,09	1,09	1,09	1,09
12	9	3	2	3	3	14	14	3	3	4	4
38,059	27,107	7,127	3,825	900	900	11,688	11,688	2,067	3,648	2,523	3,450