

## DRAINAGE OF AGRICULTURAL LANDS

Summary Table 13.—AREA DRAINED BY YEAR DRAINAGE WAS ESTABLISHED, 1960; AND

State	Area drained by year drainage was established, 1960 Census						Drainage projects by year organized		
	Land in drainage projects <sup>1</sup>			Totals of areas of individual projects <sup>2</sup>			1960 Census <sup>2</sup>		
	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Organized, 1950-1959	Organized before 1950
All drainage States.....	8,461	NA	NA	8,461	1,791	7,190	8,461	2,503	5,958
acres...	92,296,864	5,326,593	86,960,271	99,098,430	5,481,823	93,616,607	99,098,430	6,258,852	92,839,578
10 "county-drain" States.....	1,397	NA	NA	1,397	443	1,177	1,397	536	861
acres...	50,835,337	1,787,086	49,048,251	51,909,639	1,795,253	50,114,386	51,909,639	843,095	51,066,544
30 "drainage-district" States.....	7,064	NA	NA	7,064	1,348	6,013	7,064	1,967	5,097
acres...	41,461,527	3,549,507	37,912,020	47,188,791	3,686,570	43,502,221	47,188,791	5,415,757	41,773,034
17 irrigation States.....	3,157	NA	NA	3,157	724	2,594	3,157	1,147	2,010
acres...	26,263,711	2,521,948	23,741,763	30,596,286	2,627,739	27,968,547	30,596,286	3,813,290	26,782,996
Alabama.....	11	NA	NA	11	4	10	11	1	10
acres...	65,901	1,050	64,851	65,901	1,050	64,851	65,901	500	65,401
Arizona.....	...	...	...	...	...	...	...	...	...
acres...	...	...	...	...	...	...	...	...	...
Arkansas.....	598	NA	NA	598	151	484	598	338	260
acres...	4,680,966	233,263	4,447,703	5,765,338	235,521	5,529,817	5,765,338	773,954	4,991,384
California.....	356	NA	NA	356	84	282	356	87	269
acres...	1,911,251	244,352	1,666,899	2,019,547	252,515	1,767,032	2,019,547	267,081	1,752,466
Colorado.....	16	...	NA	16	...	16	16	...	16
acres...	55,496	...	55,496	55,496	...	55,496	55,496	...	55,496
Delaware.....	60	NA	NA	60	2	59	60	10	50
acres...	340,922	856	340,066	341,522	856	340,666	341,522	22,822	318,700
Florida.....	516	NA	NA	516	152	398	516	197	319
acres...	4,855,327	548,956	4,306,371	6,348,491	565,295	5,783,196	6,348,491	828,437	5,520,054
Georgia.....	52	NA	NA	52	38	42	52	14	38
acres...	93,228	25,246	67,982	101,854	25,246	76,608	101,854	34,533	67,321
Idaho.....	33	NA	NA	33	2	32	33	1	32
acres...	110,982	864	110,118	110,982	864	110,118	110,982	704	110,278
Illinois.....	1,496	NA	NA	1,496	74	1,422	1,496	101	1,395
acres...	5,563,426	134,693	5,428,733	5,883,070	134,853	5,748,217	5,883,070	227,957	5,655,113
Indiana.....	292	NA	NA	292	60	265	292	138	154
acres...	11,053,446	73,382	10,980,064	11,267,848	73,382	11,194,466	11,267,848	197,004	11,070,844
Iowa.....	249	NA	NA	249	77	203	249	64	185
acres...	6,871,339	123,235	6,748,104	7,063,570	124,262	6,939,308	7,063,570	75,368	6,988,202
Kansas.....	103	NA	NA	103	26	81	103	27	76
acres...	373,110	63,975	309,135	377,983	64,075	313,908	377,983	68,772	309,211
Kentucky.....	28	NA	NA	28	7	21	28	8	20
acres...	888,799	6,046	882,753	890,799	6,046	884,753	890,799	6,646	884,153
Louisiana.....	915	NA	NA	915	116	835	915	307	608
acres...	7,110,624	965,687	6,144,937	8,457,799	1,032,655	7,425,144	8,457,799	1,521,116	6,936,683
Maryland.....	138	NA	NA	138	10	138	138	22	116
acres...	350,447	8,816	341,631	396,786	8,816	387,970	396,786	36,554	360,432
Michigan.....	86	NA	NA	86	42	83	86	22	64
acres...	9,877,049	123,587	9,753,462	9,900,328	123,587	9,776,741	9,900,328	16,365	9,883,963
Minnesota.....	307	NA	NA	307	161	233	307	160	147
acres...	10,560,808	1,244,237	9,316,571	11,045,146	1,251,377	9,793,769	11,045,146	370,380	10,674,766
Mississippi.....	590	NA	NA	590	137	487	590	197	393
acres...	3,040,607	249,368	2,791,239	3,354,500	252,407	3,102,093	3,354,500	435,318	2,919,182
Missouri.....	425	NA	NA	425	36	402	425	111	314
acres...	3,097,316	38,142	3,059,174	3,670,629	45,839	3,624,790	3,670,629	167,964	3,502,665
Montana.....	20	NA	NA	20	10	11	20	9	11
acres...	60,112	10,456	49,656	60,112	10,456	49,656	60,112	8,847	51,265
Nebraska.....	103	NA	NA	103	9	102	103	4	99
acres...	739,220	41,306	697,914	741,004	41,306	699,698	741,004	33,300	707,704
Nevada.....	2	...	NA	2	...	2	2	...	2
acres...	41,521	...	41,521	41,521	...	41,521	41,521	...	41,521
New Jersey.....	9	NA	NA	9	7	4	9	5	4
acres...	10,956	4,850	6,106	10,956	4,850	6,106	10,956	4,650	6,306
New Mexico.....	5	NA	NA	5	2	4	5	1	4
acres...	31,593	1,300	30,293	31,593	1,300	30,293	31,593	600	30,993
New York.....	19	NA	NA	19	6	13	19	6	13
acres...	49,616	4,451	45,165	49,616	4,451	45,165	49,616	4,451	45,165
North Carolina.....	564	NA	NA	564	153	434	564	186	378
acres...	1,320,503	254,482	1,066,021	1,417,032	254,482	1,162,550	1,417,032	322,432	1,094,600
North Dakota.....	161	NA	NA	161	29	144	161	27	134
acres...	1,641,183	124,160	1,517,023	1,732,183	124,160	1,608,023	1,732,183	55,550	1,676,633
Ohio.....	142	NA	NA	142	38	122	142	63	79
acres...	8,809,415	61,670	8,747,745	8,873,857	61,670	8,812,187	8,873,857	68,803	8,805,054
Oklahoma.....	31	NA	NA	31	19	12	31	20	11
acres...	133,796	18,584	115,212	133,796	18,584	115,212	133,796	19,098	114,698
Oregon.....	110	NA	NA	110	64	64	110	59	59
acres...	270,454	79,585	190,869	314,221	82,370	231,851	314,221	96,592	217,629
South Carolina.....	123	NA	NA	123	88	44	123	82	41
acres...	338,066	108,787	229,279	353,916	124,637	229,279	353,916	119,612	234,304
South Dakota.....	41	NA	NA	41	8	35	41	8	33
acres...	658,580	11,329	647,251	660,590	11,329	649,261	660,590	11,059	649,531
Tennessee.....	179	NA	NA	179	18	164	179	25	154
acres...	590,879	98,054	492,825	597,406	98,054	499,352	597,406	129,430	467,976
Texas.....	243	NA	NA	243	103	156	243	110	133
acres...	5,691,130	318,198	5,372,932	5,938,974	327,376	5,611,598	5,938,974	194,260	5,744,714
Utah.....	9	NA	NA	9	1	9	9	1	8
acres...	66,910	520	66,390	66,910	520	66,390	66,910	1,040	65,870
Virginia.....	66	NA	NA	66	37	36	66	38	28
acres...	92,778	51,971	40,807	101,976	56,497	45,479	101,976	63,717	38,259
Washington.....	122	NA	NA	122	17	112	122	14	108
acres...	241,182	13,486	227,696	242,482	13,486	228,996	242,482	18,587	223,895
Wisconsin.....	235	NA	NA	235	36	209	235	32	203
acres...	584,093	47,649	536,444	588,863	47,649	541,214	588,863	55,549	533,314
Wyoming.....	6	...	NA	6	...	6	6	...	6
acres...	23,833	...	23,833	23,833	...	23,833	23,833	...	23,833

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit; therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, each drain was counted a separate project. See footnote 4 and text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises," enumerated in the Census of Irrigation. See footnote 4 and text.

NA Not available.

<sup>1</sup>Land in two or more projects included only once.

<sup>2</sup>Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included in more than one project.

SUMMARY

DRAINAGE PROJECTS BY YEAR OF ORGANIZATION, CENSUSES OF 1920 TO 1960; BY STATES

Drainage projects by year organized—Continued													
1950 Census <sup>3</sup>				1940 Census <sup>3</sup>			1930 Census <sup>3</sup>			1920 Census <sup>3</sup>			
All projects	Organized, 1940-1949	Organized before 1940	Year not reported <sup>4</sup>	All projects	Organized, 1930-1939	Organized before 1930	All projects	Organized, 1920-1929	Organized before 1920	All projects	Organized, 1910-1919	Organized before 1910	Year not reported
14,533	41,263	43,749	9,521	39,597	NA	NA	67,927	NA	NA	56,949	NA	NA	NA
102,688,331	14,351,738	32,193,879	56,142,714	86,967,039	5,966,247	81,000,792	84,408,093	10,716,605	73,691,488	65,495,038	28,719,717	636,545,774	229,547
457	(4)	(4)	457	34,596	NA	NA	62,391	NA	NA	52,962	NA	NA	NA
52,033,141	(4)	(4)	52,033,141	47,094,801	3,209,164	43,885,637	47,720,374	3,828,049	43,892,325	43,213,765	NA	NA	NA
14,076	1,263	3,749	9,064	5,001	NA	NA	5,536	NA	NA	3,228	NA	NA	NA
50,655,190	14,351,738	32,193,879	4,109,573	39,872,238	2,757,083	37,115,155	36,687,719	6,888,556	29,799,163	22,281,273	NA	NA	NA
10,862	636	1,162	9,064	1,747	NA	NA	2,119	NA	NA	906	NA	NA	NA
35,995,203	13,206,307	18,679,323	4,109,573	26,098,986	2,164,576	23,934,410	23,043,464	4,151,246	18,892,218	12,268,025	NA	NA	NA
10	7	3	...	1	...	NA	...	...	...	...	...	...	...
76,671	40,735	35,936	...	28,045	...	28,045	...	...	...	...	...	...	...
25	...	2	23	5	...	NA	7	...	...	3	NA	NA	...
197,268	...	3,385	193,883	298,633	...	298,633	318,931	24,891	294,040	39,640	(7)	(7)	...
844	32	235	577	250	NA	NA	316	NA	NA	174	NA	NA	...
4,701,095	130,269	4,476,359	94,467	4,592,738	109,297	4,483,441	4,631,155	741,744	3,889,411	3,479,591	2,561,950	869,641	48,000
2,047	21	142	1,884	158	NA	NA	162	NA	NA	145	NA	NA	...
2,554,576	53,454	1,400,083	1,101,039	2,667,194	42,723	2,624,471	2,233,714	479,954	1,753,760	1,108,319	566,114	471,396	70,809
630	3	48	579	56	NA	NA	58	NA	NA	24	NA	NA	...
623,976	12,190	292,174	319,612	468,322	74,959	393,363	366,719	191,233	175,486	171,656	...	...	...
2	(4)	(4)	2	287	NA	NA	...	...	...	...	...	...	...
352,547	(4)	(4)	352,547	395,014	114,382	280,632	...	...	...	...	...	...	...
1,889	131	107	1,651	101	NA	NA	146	NA	NA	94	NA	NA	...
6,083,676	501,908	5,432,410	149,758	5,699,022	20,136	5,678,886	5,954,934	516,448	5,438,486	1,637,073	1,630,103	6,970	...
55	...	39	...	52	...	NA	59	...	...	46	NA	NA	...
96,259	23,488	72,771	...	84,374	...	84,374	84,255	10,158	74,097	65,452	55,452	10,000	...
379	12	32	335	50	NA	NA	50	NA	NA	13	NA	NA	...
436,171	14,246	129,331	292,594	659,136	28,665	630,471	375,464	70,435	305,029	64,642	64,642	...	...
1,433	98	1,335	...	1,695	NA	NA	1,919	NA	NA	1,365	NA	NA	...
5,370,825	238,919	5,131,906	...	5,091,364	201,352	4,890,012	5,032,682	585,394	4,447,288	3,909,049	909,993	2,988,033	11,023
79	(4)	(4)	79	8,893	NA	NA	18,339	NA	NA	12,004	NA	NA	...
11,017,709	(4)	(4)	11,017,709	10,121,952	879,594	9,242,358	10,214,014	658,505	9,555,509	9,087,183	2,220,090	6,861,184	5,909
86	(4)	(4)	86	3,180	NA	NA	3,730	NA	NA	2,883	NA	NA	...
6,734,863	(4)	(4)	6,734,863	6,164,344	71,665	6,092,679	6,137,649	620,617	5,517,032	5,224,478	3,077,143	2,134,524	12,811
121	14	70	37	88	NA	NA	88	NA	NA	54	NA	NA	...
356,988	48,401	306,688	1,899	258,113	13,940	244,173	257,169	42,753	214,416	93,856	47,579	46,277	...
18	(4)	(4)	18	144	NA	NA	216	NA	NA	179	NA	NA	...
959,892	(4)	(4)	959,892	465,270	18,584	446,686	585,625	152,470	433,155	358,480	243,743	112,937	1,800
922	317	94	511	495	NA	NA	741	NA	NA	111	NA	NA	...
12,161,665	10,349,967	1,727,948	83,750	4,219,624	555,502	3,664,122	3,655,483	954,414	2,701,069	2,266,328	1,082,792	1,183,536	...
93	20	73	...	126	...	NA	...	...	...	...	...	...	...
323,815	57,525	266,290	...	183,337	125,865	57,472	...	...	...	...	...	...	...
54	(4)	(4)	54	7,692	NA	NA	10,640	NA	NA	10,453	NA	NA	...
10,194,439	(4)	(4)	10,194,439	8,978,386	701,872	8,276,514	9,180,851	844,770	8,336,081	9,729,171	3,435,274	6,273,912	19,985
82	(4)	(4)	82	2,498	NA	NA	2,885	NA	NA	2,340	NA	NA	...
11,269,962	(4)	(4)	11,269,962	10,990,409	73,384	10,917,025	11,474,683	809,517	10,665,166	9,232,709	5,633,290	3,585,208	14,211
441	178	263	...	271	...	NA	344	NA	NA	167	NA	NA	...
3,023,744	263,245	2,760,499	...	2,890,618	47,483	2,843,135	2,988,496	1,113,630	1,874,866	1,601,444	1,341,552	259,892	...
318	14	304	...	286	...	NA	367	NA	NA	238	NA	NA	...
3,147,484	46,380	3,101,104	...	3,087,063	61,472	3,025,591	3,150,022	474,001	2,676,021	2,596,204	866,151	1,723,317	6,736
404	6	21	377	34	NA	NA	27	NA	NA	17	NA	NA	...
289,189	15,338	84,354	189,497	372,661	17,172	355,489	167,629	133,221	34,408	168,682	134,499	21,533	12,650
473	25	319	...	125	NA	NA	138	NA	NA	123	NA	NA	...
821,088	60,062	657,729	103,297	916,181	31,244	884,937	879,459	126,388	753,071	607,730	184,707	423,023	...
82	...	5	77	...	NA	NA	7	NA	NA	1	NA	NA	...
251,154	...	128,095	123,059	153,373	11,678	141,695	162,980	47,956	115,024	15,940	(7)	(7)	...
5	4	1	...	...	...	NA	...	...	...	...	...	...	...
11,206	6,906	4,300	...	...	...	NA	...	...	...	...	...	...	...
223	...	5	218	7	NA	NA	11	NA	NA	8	NA	NA	...
244,961	...	52,113	192,848	305,885	7,200	298,685	176,292	4,740	171,552	140,219	(7)	(7)	...
14	8	6	...	...	...	NA	...	...	...	...	...	...	...
56,465	26,963	29,502	...	...	...	NA	...	...	...	...	...	...	...
413	190	223	...	246	NA	NA	130	NA	NA	104	NA	NA	...
1,128,509	281,679	846,830	...	825,576	121,365	704,211	679,236	172,079	507,157	542,828	487,118	55,710	...
21	(4)	(4)	21	141	...	NA	152	NA	NA	137	NA	NA	...
1,572,220	(4)	(4)	1,572,220	1,376,041	...	1,376,041	1,094,142	29,719	1,064,423	1,240,328	365,274	875,054	...
63	(4)	(4)	63	11,530	NA	NA	26,191	NA	NA	24,871	NA	NA	...
8,923,362	(4)	(4)	8,923,362	7,729,267	1,324,363	6,404,904	8,165,494	380,508	7,784,986	8,107,204	943,200	7,161,648	2,356
18	(4)	(4)	18	29	NA	NA	33	NA	NA	5	NA	NA	...
300,884	(4)	(4)	300,884	197,646	25,320	172,326	170,158	70,850	99,308	12,150	(7)	(7)	...
1,087	11	44	1,032	63	NA	NA	51	NA	NA	1	NA	NA	...
418,858	20,266	158,227	240,365	348,825	76,543	272,282	211,182	87,681	123,501	4,000	(7)	(7)	...
45	26	19	...	24	...	NA	31	NA	NA	17	NA	NA	...
249,011	68,076	180,935	...	204,366	...	204,366	208,249	131,778	76,471	140,031	140,031	...	...
34	(4)	(4)	34	202	...	NA	205	NA	NA	90	NA	NA	...
707,263	(4)	(4)	707,263	676,472	...	676,472	697,758	261,093	436,665	222,062	162,616	59,446	...
151	19	132	...	155	NA	NA	191	NA	NA	95	NA	NA	...
615,838	22,590	593,248	...	601,592	28,160	573,432	593,560	106,730	486,830	363,671	363,671	...	...
543	38	59	446	81	NA	NA	87	NA	NA	54	NA	NA	...
5,794,786	1,965,642	3,355,505	473,639	4,218,850	1,158,388	3,060,462	2,883,356	516,632	2,366,724	2,166,128	1,272,147	893,981	...
471	8	28	435	36	NA	NA	32	NA	NA	17	NA	NA	...
302,158	7,884	142,309	151,965	202,058	2,303	199,755	156,052	25,564	130,488	113,823	113,073	750	...
30	27	3	...	2	...	NA	3	NA	NA	...	...	...	...
45,460	25,939	19,521	...	15,714	...	15,714	15,042	11,738	3,304	...	...	...	...
533	16	124	393	165	NA	NA	172	NA	NA	52	NA	NA	...
431,613	24,411	248,497	158,705	405,709	14,826	390,883	367,242	78,643	288,599	94,924	45,258	43,166	6,500
206	20	186	...	396	NA	NA	373	NA	NA	290	NA	NA	...
514,700	42,986	471,714	...	761,203	6,810	754,393	892,713	131,802	760,911	794,569	329,526	462,696	2,347
189	2	17	170	25	...	NA	26	NA	NA	15	NA	NA	...
325,981	2,669	84,116	239,196	312,662	...	312,662	245,703	108,549	137,154	95,474	95,474	...	...

<sup>3</sup>Land in two or more projects included only once. For 1950 and 1940, land in two or more projects included only for the project last organized; whereas, for 1930 and 1920, land in two or more projects included for the project first organized. The 1940, 1930, and 1920 reports also show, for the classification by year of organization, totals representing the sum of the areas of individual projects without deduction for land included in more than one project. Number, for 1930 and 1920, refers to the number of reports and includes projects wholly superseded by later projects and, for intercounty projects, the reports for each county. See text.

<sup>4</sup>Year of organization not obtained in 1950 for "irrigation enterprises" with drainage (from Census of Irrigation), or for "county-drain" States. See text.

<sup>5</sup>Number as shown on page 368 of the 1920 report; the sum of the numbers reported for the separate States equals 56,190.

<sup>6</sup>Revised to equal sum of data reported by States.

<sup>7</sup>Data for this and 4 other States not available individually but included in totals for all drainage States.