

Table 32. Gravity Irrigation in Fields in the Open: 2023 and 2018

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Geographic area	Farms	Acres irrigated ¹	Down rows or furrows							
			Farms	Acres irrigated	Unlined open ditch		Lined open ditch		Poly pipe (or other single-year use, lay-flat tubing)	
					Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2023	67,994	18,265,880	31,837	9,968,747	9,402	1,535,559	3,238	690,664	10,052	6,353,571
..... 2018	85,888	20,187,048	40,394	10,083,296	14,779	1,907,292	4,599	1,001,984	11,759	5,650,870
2023 DATA										
Alabama	56	2,645	56	2,645	-	-	-	-	32	2,573
Alaska	22	71	20	(D)	2	(D)	-	-	14	(D)
Arizona	1,867	693,836	537	281,746	109	33,606	307	242,467	19	114
Arkansas	2,259	4,306,198	2,141	3,214,846	89	53,855	7	7,210	2,071	3,077,626
California	10,642	2,948,897	4,275	1,112,022	1,389	491,489	502	186,772	597	87,350
Colorado	9,814	1,121,454	4,528	446,773	1,758	186,314	367	35,534	1,070	64,176
Connecticut	26	76	22	68	4	8	3	9	15	51
Delaware	9	1,260	4	10	-	-	-	-	4	10
Florida	570	447,391	358	35,659	129	29,446	31	31	132	5,270
Georgia	164	1,008	128	243	10	10	-	-	64	98
Hawaii	197	3,093	87	1,021	14	28	-	-	57	227
Idaho	5,925	550,086	2,888	242,902	1,166	94,583	707	86,311	461	15,259
Illinois	104	4,832	92	4,802	14	14	-	-	78	4,778
Indiana	44	4,075	39	(D)	10	(D)	-	-	29	63
Iowa	63	123	41	101	-	-	20	80	21	21
Kansas	598	47,296	576	42,896	100	11,380	2	(D)	41	(D)
Kentucky	47	82	34	48	7	7	-	-	20	27
Louisiana	1,287	1,220,292	832	826,271	69	58,551	35	18,096	743	710,453
Maine	31	31	26	26	-	-	-	-	26	26
Maryland	30	54	30	54	5	5	6	6	13	37
Massachusetts	213	4,855	49	585	24	384	-	-	11	(D)
Michigan	194	392	149	347	19	19	-	-	94	202
Minnesota	84	11,160	56	136	4	4	16	16	32	112
Mississippi	1,085	1,516,326	1,069	1,427,527	46	46,386	6	3,600	1,002	1,344,387
Missouri	881	920,038	800	839,807	26	12,398	13	6,795	736	773,633
Montana	3,945	855,611	680	101,032	432	58,082	52	4,360	127	10,042
Nebraska	3,957	485,241	3,755	455,499	204	9,931	145	6,774	500	49,616
Nevada	1,156	563,060	186	(D)	139	9,692	-	-	15	825
New Hampshire	21	191	10	(D)	3	3	-	-	7	(D)
New Jersey	61	5,115	20	1,216	-	-	-	-	16	16
New Mexico	5,800	290,530	1,877	115,701	990	58,634	413	31,353	218	12,639
New York	264	2,809	226	2,061	-	-	23	460	139	1,537
North Carolina	80	206	80	206	-	-	-	-	80	206
North Dakota	76	19,676	56	14,697	41	13,757	5	165	5	(D)
Ohio	46	792	42	252	14	210	-	-	28	42
Oklahoma	122	20,645	63	14,260	11	9,350	-	-	18	584
Oregon	2,980	309,870	838	65,868	393	31,902	86	15,461	134	4,648
Pennsylvania	113	1,249	99	399	3	24	-	-	91	272
Rhode Island	7	318	2	(D)	-	-	-	-	-	-
South Carolina	138	428	82	332	24	24	33	58	25	250
South Dakota	198	12,410	60	8,508	60	8,508	-	-	-	-
Tennessee	82	2,279	56	2,175	25	50	-	-	31	2,125
Texas	2,568	582,926	1,074	253,847	377	106,740	71	6,129	420	131,507
Utah	5,411	405,148	1,319	45,390	703	28,203	90	722	195	3,112
Vermont	49	847	40	728	-	-	-	-	26	26
Virginia	34	42	25	33	-	-	-	-	25	33
Washington	739	72,791	476	65,632	222	40,703	41	8,283	72	969
West Virginia	39	184	29	(D)	-	-	19	(D)	10	(D)
Wisconsin	313	12,202	101	299	21	42	-	-	40	103
Wyoming	3,583	815,739	1,804	328,416	746	141,205	238	29,914	448	46,922
Water Resource Regions										
Region 01 New England	313	6,174	124	1,712	31	395	3	9	68	272
Region 02 Mid-Atlantic	418	10,476	305	3,588	8	(D)	29	466	234	1,765
Region 03 South Atlantic-Gulf	968	451,758	664	39,165	163	29,480	64	89	285	8,349
Region 04 Great Lakes	395	5,451	311	703	19	19	-	-	184	372
Region 05 Ohio	169	552	125	(D)	31	227	19	38	68	(D)
Region 06 Tennessee	106	131	106	131	25	50	-	-	81	81
Region 07 Upper Mississippi	556	27,153	286	8,896	39	60	36	96	186	8,705
Region 08 Lower Mississippi	4,785	7,330,622	4,263	5,887,588	227	167,806	50	30,806	4,021	5,504,345
Region 09 Souris-Red-Rainy	30	8,469	26	469	5	75	5	165	21	69
Region 10 Missouri	13,005	2,064,836	7,201	968,522	1,827	242,778	524	50,743	1,375	122,213
Region 11 Arkansas-White-Red	2,870	949,276	1,649	649,723	378	64,702	130	29,156	704	424,198
Region 12 Texas-Gulf	1,898	540,081	775	208,247	244	70,811	23	345	368	127,789
Region 13 Rio Grande	5,473	383,624	1,778	144,466	1,020	98,017	428	37,025	146	6,095
Region 14 Upper Colorado	7,889	897,710	3,508	230,066	1,213	139,098	192	1,660	686	28,795
Region 15 Lower Colorado	2,082	786,617	631	327,685	173	46,980	317	267,441	41	7,594
Region 16 Great Basin	5,719	908,247	1,347	37,379	787	21,107	90	722	188	3,673
Region 17 Pacific Northwest	10,272	982,403	4,357	383,883	1,812	174,482	834	110,055	728	21,529
Region 18 California	10,827	2,909,136	4,274	1,075,026	1,384	479,413	494	161,848	597	87,350
Region 19 Alaska	22	71	20	(D)	2	(D)	-	-	14	(D)
Region 20 Hawaii	197	3,093	87	1,021	14	28	-	-	57	227

See footnote(s) at end of table.

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Table 32. Gravity Irrigation in Fields in the Open: 2023 and 2018 (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Geographic area	Down rows or furrows - Con.				Controlled flooding (within borders, levees, or basins)					
	Above ground pipe (except poly pipe)		Underground pipe		Farms	Acres irrigated	Unlined open ditch		Lined open ditch	
	Farms	Acres irrigated	Farms	Acres irrigated			Farms	Acres irrigated	Farms	Acres irrigated
United States 2023	9,560	950,909	3,215	438,044	29,318	6,509,404	18,170	3,635,609	4,649	1,014,997
..... 2018	10,591	1,065,083	3,449	458,067	36,020	8,052,277	21,702	4,787,688	5,258	890,721
2023 DATA										
Alabama	-	-	24	72	-	-	-	-	-	-
Alaska	4	(D)	-	-	-	-	-	-	-	-
Arizona	56	3,161	77	2,398	1,180	395,078	378	74,232	795	315,099
Arkansas	27	6,603	143	69,552	1,436	1,072,651	428	288,315	98	73,098
California	537	84,794	1,548	261,617	5,662	1,725,360	3,064	910,454	663	297,804
Colorado	1,849	144,757	303	15,992	3,744	405,292	2,587	324,152	235	31,866
Connecticut	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-
Florida	62	422	34	490	107	215,263	77	213,703	-	-
Georgia	27	108	27	27	-	-	-	-	-	-
Hawaii	30	766	-	-	61	1,109	16	78	17	121
Idaho	874	42,856	139	3,893	2,168	209,100	1,685	191,480	236	7,184
Illinois	10	10	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	4	4,000	-	-	4	4,000
Iowa	-	-	-	-	-	-	-	-	-	-
Kansas	427	27,486	52	2,628	22	4,400	-	-	-	-
Kentucky	7	14	-	-	7	28	-	-	-	-
Louisiana	23	1,482	89	37,689	575	389,117	180	101,796	23	12,520
Maine	-	-	-	-	-	-	-	-	-	-
Maryland	6	6	-	-	-	-	-	-	-	-
Massachusetts	8	(D)	6	(D)	115	3,944	70	2,518	20	519
Michigan	18	18	18	108	18	18	18	18	-	-
Minnesota	4	4	-	-	28	11,024	12	10,944	-	-
Mississippi	27	12,223	25	20,931	121	88,471	32	40,126	10	5,835
Missouri	47	46,926	11	55	150	79,777	73	29,100	11	8,100
Montana	181	28,548	-	-	2,509	535,329	2,181	488,483	78	12,547
Nebraska	3,288	387,299	116	1,879	116	2,146	58	1,131	29	870
Nevada	35	(D)	-	-	813	413,731	481	282,690	315	97,356
New Hampshire	-	-	-	-	3	(D)	-	-	-	-
New Jersey	-	-	4	1,200	41	3,899	41	3,899	-	-
New Mexico	225	11,182	134	1,893	3,651	154,736	2,136	83,517	937	40,341
New York	64	64	-	-	23	690	-	-	23	690
North Carolina	-	-	-	-	-	-	-	-	-	-
North Dakota	15	750	5	(D)	32	4,979	27	4,679	-	-
Ohio	-	-	-	-	-	-	-	-	-	-
Oklahoma	4	4,296	30	30	30	4,500	30	4,500	-	-
Oregon	299	13,026	75	831	917	132,393	697	109,683	140	10,530
Pennsylvania	3	(D)	2	(D)	6	600	6	600	-	-
Rhode Island	2	(D)	2	(D)	-	-	-	-	-	-
South Carolina	-	-	-	-	8	48	-	-	-	-
South Dakota	-	-	-	-	107	3,304	28	164	-	-
Tennessee	-	-	-	-	26	104	-	-	26	104
Texas	144	7,295	173	2,176	1,153	100,844	536	41,204	234	28,242
Utah	360	11,948	73	1,405	2,982	264,999	2,341	193,079	635	58,404
Vermont	14	702	-	-	4	(D)	-	-	-	-
Virginia	-	-	-	-	9	9	-	-	-	-
Washington	119	12,118	49	3,559	89	1,587	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-
Wisconsin	40	154	-	-	189	11,844	105	5,901	42	4,074
Wyoming	724	101,102	56	9,273	1,212	268,988	883	229,163	78	5,693
Water Resource Regions										
Region 01 New England	16	792	8	244	118	3,962	70	2,518	20	519
Region 02 Mid-Atlantic	28	(D)	6	1,282	79	5,198	47	4,499	23	690
Region 03 South Atlantic-Gulf	97	658	85	589	115	215,311	77	213,703	-	-
Region 04 Great Lakes	90	204	18	108	26	4,042	18	18	4	4,000
Region 05 Ohio	7	(D)	-	-	33	132	-	-	26	104
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	35	35	-	-	235	18,190	124	12,145	42	4,074
Region 08 Lower Mississippi	98	67,074	244	117,557	1,955	1,426,632	598	386,082	117	79,898
Region 09 Souris-Red-Rainy	5	160	-	-	4	8,000	4	8,000	-	-
Region 10 Missouri	4,567	541,321	187	11,467	4,106	694,042	2,979	576,840	275	19,620
Region 11 Arkansas-White-Red	551	113,097	151	18,570	1,248	272,883	796	129,151	131	24,288
Region 12 Texas-Gulf	101	8,585	103	717	774	97,154	330	52,502	133	16,472
Region 13 Rio Grande	130	2,367	150	962	3,465	180,353	1,941	97,661	981	51,624
Region 14 Upper Colorado	1,546	47,443	307	13,070	3,127	399,961	2,371	345,818	79	25,290
Region 15 Lower Colorado	81	3,269	80	2,401	1,256	441,143	416	105,169	802	330,139
Region 16 Great Basin	278	10,700	65	1,177	3,307	649,707	2,344	452,475	967	156,011
Region 17 Pacific Northwest	1,355	69,534	263	8,283	3,644	379,963	2,897	348,774	350	13,083
Region 18 California	541	84,798	1,548	261,617	5,765	1,711,622	3,142	900,176	682	289,064
Region 19 Alaska	4	(D)	-	-	-	-	-	-	-	-
Region 20 Hawaii	30	766	-	-	61	1,109	16	78	17	121

See footnote(s) at end of table.

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Table 32. Gravity Irrigation in Fields in the Open: 2023 and 2018 (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Geographic area	Controlled Flooding (within borders, levees, or basins) - con.						Uncontrolled flooding		Other gravity systems, including water seepage	
	Poly pipe (or other single-year use, lay-flat tubing)		Above ground pipe (except poly pipe)		Underground pipe		Farms	Acres irrigated	Farms	Acres irrigated
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated				
United States 2023	2,339	734,550	2,348	198,389	4,365	925,859	9,997	1,461,036	2,185	326,693
..... 2018	3,234	724,723	2,314	230,089	5,795	1,419,056	15,298	1,881,732	3,752	169,743
2023 DATA										
Alabama	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	2	(D)
Arizona	3	15	57	295	79	5,437	268	16,974	19	38
Arkansas	579	475,541	51	29,177	361	206,520	40	18,694	7	7
California	89	17,575	191	80,174	2,225	419,353	1,214	99,179	324	12,336
Colorado	551	31,727	591	15,652	135	1,895	1,938	241,026	254	28,363
Connecticut	-	-	-	-	-	-	-	-	4	8
Delaware	-	-	-	-	-	-	-	-	5	1,250
Florida	-	-	-	-	30	1,560	60	780	47	195,689
Georgia	-	-	-	-	-	-	-	-	36	765
Hawaii	14	560	14	(D)	14	(D)	17	461	32	502
Idaho	101	4,769	179	2,886	84	2,781	1,021	79,229	194	18,855
Illinois	-	-	-	-	-	-	-	-	12	30
Indiana	-	-	-	-	-	-	-	-	1	(D)
Iowa	-	-	-	-	-	-	-	-	22	22
Kansas	-	-	-	-	22	4,400	-	-	-	-
Kentucky	7	28	-	-	-	-	-	-	6	6
Louisiana	146	90,878	-	-	278	183,923	46	4,904	-	-
Maine	-	-	-	-	-	-	-	-	5	5
Maryland	-	-	-	-	-	-	-	-	-	-
Massachusetts	9	288	1	(D)	26	(D)	11	82	38	244
Michigan	-	-	-	-	-	-	-	-	27	27
Minnesota	-	-	-	-	16	80	-	-	-	-
Mississippi	65	34,280	9	1,350	5	6,880	8	320	8	8
Missouri	39	28,366	11	22	18	14,189	12	120	35	334
Montana	59	7,566	284	21,055	38	5,678	981	217,958	50	1,292
Nebraska	-	-	29	145	-	-	116	8,096	30	19,500
Nevada	34	6,060	9	13,905	123	13,720	272	136,575	8	(D)
New Hampshire	-	-	3	(D)	-	-	-	-	8	153
New Jersey	-	-	-	-	-	-	-	-	-	-
New Mexico	221	1,905	193	3,754	298	25,219	377	19,467	130	626
New York	-	-	-	-	-	-	-	-	38	58
North Carolina	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	15	300	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	4	540
Oklahoma	-	-	-	-	-	-	29	1,885	-	-
Oregon	61	776	80	3,904	3	7,500	1,099	96,367	232	15,242
Pennsylvania	-	-	-	-	-	-	-	-	8	250
Rhode Island	-	-	-	-	-	-	-	-	5	(D)
South Carolina	-	-	-	-	8	48	24	24	24	24
South Dakota	-	-	79	2,022	52	1,118	31	598	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-
Texas	153	20,032	75	593	277	10,773	282	227,237	136	998
Utah	45	2,490	65	473	159	10,553	1,205	84,823	217	9,936
Vermont	-	-	4	(D)	-	-	-	-	5	(D)
Virginia	-	-	-	-	9	9	-	-	-	-
Washington	7	490	82	845	21	252	115	3,734	72	1,838
West Virginia	-	-	-	-	-	-	-	-	10	(D)
Wisconsin	-	-	42	693	42	1,176	-	-	23	59
Wyoming	156	11,204	284	20,662	42	2,266	831	202,503	107	15,832
Water Resource Regions										
Region 01 New England	9	288	4	(D)	26	(D)	11	82	60	418
Region 02 Mid-Atlantic	-	-	-	-	9	9	-	-	57	1,690
Region 03 South Atlantic-Gulf	-	-	-	-	38	1,608	84	804	107	196,478
Region 04 Great Lakes	-	-	4	24	-	-	-	-	58	706
Region 05 Ohio	7	28	-	-	-	-	-	-	11	(D)
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	-	-	53	715	58	1,256	-	-	35	67
Region 08 Lower Mississippi	697	538,392	53	29,967	622	392,293	79	16,394	8	8
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri	373	32,549	882	50,466	201	14,567	2,210	364,546	225	37,726
Region 11 Arkansas-White-Red	176	92,257	157	7,410	71	19,777	167	13,839	110	12,831
Region 12 Texas-Gulf	130	17,732	74	413	206	10,035	267	233,706	112	974
Region 13 Rio Grande	225	4,739	159	1,054	307	25,275	464	58,179	130	626
Region 14 Upper Colorado	336	15,766	289	4,951	139	8,136	1,497	248,588	213	19,095
Region 15 Lower Colorado	35	79	57	295	82	5,461	321	17,394	40	395
Region 16 Great Basin	79	8,550	70	14,827	276	17,844	1,311	214,501	138	6,660
Region 17 Pacific Northwest	167	5,855	344	10,035	88	2,216	2,273	182,390	523	36,167
Region 18 California	91	17,755	188	77,774	2,228	426,853	1,296	110,152	324	12,336
Region 19 Alaska	-	-	-	-	-	-	-	-	2	(D)
Region 20 Hawaii	14	560	14	(D)	14	(D)	17	461	32	502

¹ Different methods can be applied to the same acreage and acreage is counted each time a method is applied.