

Table 29. Gravity Irrigation in Fields in the Open: 2018 and 2013

[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	Above ground pipe (except poly pipe)		Poly pipe (or other single-year use, lay-flat tubing) (see text)		Lined open ditch		Unlined open ditch		Underground pipe	
					Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States2018	85,888	20,187,048	40,394	10,083,296	10,591	1,065,083	11,759	5,650,870	4,599	1,001,984	14,779	1,907,292	3,449	458,067
.....2013	85,159	21,504,684	42,955	10,485,453	14,011	1,889,948	11,441	4,690,174	5,573	1,113,705	15,115	2,235,011	5,577	556,615
2018 DATA														
Alabama	94	12,046	44	2,921	11	(D)	8	2,838	-	-	25	50	11	(D)
Alaska	23	89	23	89	1	(D)	9	(D)	-	-	13	22	-	-
Arizona	2,347	837,762	892	406,113	67	6,434	134	34,123	531	320,641	229	40,595	32	4,320
Arkansas	2,667	3,891,251	2,403	2,633,836	56	54,490	2,297	2,504,906	11	4,050	45	23,486	109	46,904
California	13,717	3,888,723	4,661	1,365,238	602	107,919	521	31,918	336	192,896	2,203	784,177	1,493	248,328
Colorado	11,185	1,098,563	6,330	398,672	1,814	73,298	1,548	81,580	895	85,651	2,376	132,230	489	25,913
Connecticut	115	246	87	134	1	(D)	43	(D)	-	-	43	43	-	-
Delaware	12	(D)	12	(D)	-	-	12	(D)	-	-	-	-	-	-
Florida	455	532,796	356	52,652	108	2,484	84	1,989	-	-	164	32,437	39	15,742
Georgia	210	2,143	187	1,982	48	144	93	366	-	-	-	-	46	1,472
Hawaii	416	2,449	278	1,508	33	132	212	716	-	-	33	99	33	561
Idaho	8,759	836,989	4,356	453,457	1,152	47,835	691	39,868	1,049	202,752	2,162	154,331	167	8,671
Illinois	27	(D)	22	(D)	-	-	21	21	-	-	1	(D)	-	-
Indiana	25	1,188	25	1,188	1	(D)	24	(D)	-	-	18	882	-	-
Iowa	29	50	29	50	-	-	24	(D)	-	-	5	(D)	-	-
Kansas	777	66,053	726	60,817	567	49,340	104	5,690	4	80	111	5,152	30	555
Kentucky	63	2,992	8	(D)	-	-	8	(D)	-	-	-	-	-	-
Louisiana	1,318	975,326	817	681,411	13	9,100	763	655,446	-	-	41	15,669	26	1,196
Maine	55	145	43	52	-	-	16	25	-	-	-	-	27	27
Maryland	92	268	65	213	40	80	25	133	-	-	-	-	-	-
Massachusetts	238	6,593	68	264	-	-	40	208	-	-	28	56	-	-
Michigan	61	81	41	41	-	-	21	21	20	20	-	-	-	-
Minnesota	35	2,829	21	29	4	(D)	15	15	-	-	-	-	2	(D)
Mississippi	1,019	1,373,391	981	1,274,372	16	11,120	934	1,236,828	-	-	38	18,872	29	7,552
Missouri	825	810,544	746	667,171	35	27,678	670	578,773	-	-	81	36,980	71	23,740
Montana	5,415	1,226,780	955	165,408	245	36,874	98	16,050	44	2,076	755	110,408	-	-
Nebraska	5,064	661,385	4,744	610,146	3,557	429,302	534	64,561	132	14,783	767	89,155	113	12,345
Nevada	1,464	449,388	286	45,807	30	2,550	32	(D)	15	(D)	179	41,493	45	1,260
New Hampshire	82	117	29	(D)	21	(D)	8	8	-	-	-	-	-	-
New Jersey	97	3,140	74	3,094	26	728	71	2,366	-	-	-	-	-	-
New Mexico	7,861	266,460	2,261	75,598	143	2,261	157	1,335	570	40,606	1,399	25,406	171	5,990
New York	236	3,225	187	1,827	47	555	140	1,272	-	-	-	-	-	-
North Carolina	133	1,534	106	292	-	-	80	266	-	-	26	26	-	-
North Dakota	152	45,395	90	32,731	32	6,075	-	-	4	4	76	26,652	-	-
Ohio	83	817	52	(D)	48	177	4	(D)	-	-	-	-	-	-
Oklahoma	239	69,649	174	55,909	72	14,155	64	9,569	39	21,440	29	4,930	41	5,815
Oregon	3,727	514,953	1,189	92,347	294	17,053	248	8,375	121	8,873	602	55,080	37	2,966
Pennsylvania	108	9,919	92	9,887	22	22	64	215	-	-	5	7,750	6	1,900
Rhode Island	9	44	4	4	-	-	4	4	-	-	-	-	-	-
South Carolina	120	2,856	95	1,604	-	-	43	777	-	-	52	827	-	-
South Dakota	318	37,027	119	7,090	97	6,538	2	(D)	-	-	22	(D)	-	-
Tennessee	99	11,906	77	11,532	-	-	53	(D)	1	(D)	23	(D)	-	-
Texas	3,092	768,512	1,439	449,255	203	22,249	605	264,053	160	43,493	485	95,771	157	23,689
Utah	6,953	519,157	2,446	141,334	408	16,795	347	22,270	201	16,758	1,700	84,546	101	965
Vermont	39	121	7	(D)	-	-	7	(D)	-	-	-	-	-	-
Virginia	35	1,355	13	1,333	4	1,324	9	9	-	-	-	-	-	-
Washington	1,420	109,225	886	64,387	162	3,523	276	13,673	106	11,095	352	31,893	90	4,203
West Virginia	43	64	41	(D)	3	(D)	38	57	-	-	-	-	-	-
Wisconsin	59	244	59	244	19	76	40	168	-	-	-	-	-	-
Wyoming	4,476	1,140,460	1,748	307,239	589	114,663	518	59,265	360	32,802	691	86,577	84	13,932
Water Resources Regions														
Region 01 New England	502	7,168	232	486	22	24	112	336	-	-	71	99	27	27
Region 02 Mid-Atlantic	398	15,197	309	15,018	117	2,577	209	2,791	-	-	5	7,750	6	1,900
Region 03 South Atlantic-Gulf	1,018	552,869	775	60,539	162	2,748	298	7,161	-	-	264	33,406	90	17,224
Region 04 Great Lakes	329	3,739	244	1,754	47	(D)	177	1,448	20	(D)	-	-	-	-
Region 05 Ohio	222	4,363	121	4,156	27	(D)	72	(D)	-	-	40	904	-	-
Region 06 Tennessee	112	1,173	90	799	11	22	54	716	-	-	25	50	11	11
Region 07 Upper Mississippi	160	17,178	155	17,173	23	80	100	8,860	-	-	14	6,615	18	1,618
Region 08 Lower Mississippi	5,017	6,394,647	4,263	4,889,887	83	92,940	4,121	4,657,275	5	6,814	132	73,825	182	59,033
Region 09 Souris-Red-Rainy	20	2,812	6	12	2	(D)	-	-	4	(D)	-	-	-	-
Region 10 Missouri	16,620	2,796,501	8,926	1,210,249	4,985	621,935	1,402	155,674	819	84,476	2,693	321,887	197	26,277
Region 11 Arkansas-White-Red	3,252	977,653	2,393	615,421	673	89,338	755	364,410	304	54,055	802	76,852	245	30,766
Region 12 Texas-Gulf	2,599	648,791	1,171	340,984	164	11,338	522	237,215	141	35,195	388	45,965	108	11,271
Region 13 Rio Grande	7,010	377,496	1,444	124,708	19	1,520	128	9,517	383	44,280	886	57,867	57	11,524
Region 14 Upper Colorado	9,795	1,075,608	5,882	257,999	1,714	50,988	1,401	53,058	564	23,975	2,392	102,836	510	27,142
Region 15 Lower Colorado	2,786	893,052	989	427,621	94	7,487	150	34,335	554	340,306	260	40,993	47	4,500
Region 16 Great Basin	6,938	910,097	1,995	160,996	171	7,225	295	22,405	201	16,758	1,434	112,563	131	2,045
Region 17 Pacific Northwest	14,792	1,599,329	6,467	608,306	1,631	68,434	1,221	59,798	1,276	222,720	3,146	241,514	294	15,840
Region 18 California	13,879	3,906,837	4,631	1,345,591	602	107,919	521	31,918	328	173,381	2,181	784,045	1,493	248,328
Region 19 Alaska	23	89	23	89	1	(D)	9	(D)	-	-	13	22	-	-
Region 20 Hawaii	416	2,449	278	1,508	33	132	212	716	-	-	33	99	33	561

See footnote(s) at end of table.

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Table 29. Gravity Irrigation in Fields in the Open: 2018 and 2013 (continued)

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

Geographic area	Controlled flooding (between borders or within rows)											
	Farms	Acres irrigated	Above ground pipe (except poly pipe)		Poly pipe (or other single-year use, lay-flat tubing) (see text)		Lined open ditch		Unlined open ditch		Underground pipe	
			Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States 2018	36,020	8,052,277	2,314	230,089	3,234	724,723	5,258	890,721	21,702	4,787,688	5,795	1,419,056
..... 2013	36,603	8,487,054	3,272	635,226	2,682	486,874	4,985	979,114	21,959	4,675,830	8,654	1,710,010
2018 DATA												
Alabama	25	2,000	-	-	-	-	-	-	25	2,000	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,466	428,465	50	1,061	64	2,288	795	321,457	339	91,976	283	11,683
Arkansas	1,673	1,249,300	47	20,803	636	450,408	72	36,778	313	277,275	669	464,036
California	7,352	2,128,406	222	37,031	227	15,392	704	245,572	3,619	1,209,311	3,070	621,100
Colorado	3,652	450,157	512	20,726	457	11,330	175	37,059	2,629	378,053	96	2,989
Connecticut	28	28	-	-	28	28	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	95	445,444	-	-	30	5,925	3	4,500	62	435,019	-	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Idaho	2,949	233,774	87	585	217	11,384	233	8,494	2,462	212,741	22	570
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	82	5,236	60	4,378	-	-	-	-	22	858	-	-
Kentucky	26	(D)	-	-	26	(D)	-	-	-	-	-	-
Louisiana	537	283,569	45	17,212	99	22,606	-	-	158	82,669	275	161,082
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	170	6,329	-	-	-	-	100	2,238	70	4,091	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	14	2,800	-	-	-	-	-	-	14	2,800	-	-
Mississippi	156	98,720	19	1,462	71	64,254	6	2,400	30	16,499	42	14,105
Missouri	179	135,433	31	26,336	88	52,297	-	-	40	18,880	30	37,920
Montana	3,274	739,806	201	12,287	225	9,365	127	26,401	2,956	684,255	18	7,498
Nebraska	302	33,174	111	17,145	-	-	62	3,020	129	11,009	4	2,000
Nevada	960	292,454	37	2,660	22	4,700	197	32,053	712	228,421	128	24,620
New Hampshire	49	84	49	84	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	5,053	155,149	165	6,292	147	8,157	1,901	67,358	2,614	61,178	572	12,164
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	27	1,242	-	-	-	-	-	-	27	1,242	-	-
North Dakota	85	12,664	31	5,735	-	-	-	-	54	6,929	-	-
Ohio	1	(D)	-	-	-	-	-	-	-	-	1	(D)
Oklahoma	48	7,500	7	2,045	29	(D)	-	-	3	(D)	16	(D)
Oregon	1,221	251,933	47	4,400	162	8,378	35	24,046	1,007	201,854	63	13,255
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	199	26,923	67	8,553	22	264	-	-	154	18,106	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1,253	274,590	104	17,793	214	21,795	210	17,097	654	184,822	184	33,083
Utah	3,048	263,136	54	1,539	156	4,737	420	29,691	2,203	218,770	290	8,399
Vermont	25	25	25	25	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	109	27,410	52	182	-	-	-	-	57	27,228	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	1,960	495,884	291	21,755	314	28,067	218	32,557	1,347	410,383	32	3,122
Water Resources Regions												
Region 01 New England	247	6,441	49	84	28	28	100	2,238	70	4,091	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	154	448,798	7	112	30	5,925	3	4,500	114	438,261	-	-
Region 04 Great Lakes	26	(D)	25	(D)	-	-	-	-	-	-	1	(D)
Region 05 Ohio	26	(D)	-	-	26	(D)	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 08 Lower Mississippi	2,153	1,495,364	117	58,981	749	500,471	68	29,744	449	305,393	891	600,775
Region 09 Souris-Red-Rainy	14	2,800	-	-	-	-	-	-	14	2,800	-	-
Region 10 Missouri	6,021	1,094,193	856	72,161	750	35,775	480	57,795	4,498	915,844	52	12,618
Region 11 Arkansas-White-Red	964	313,158	129	12,988	180	92,274	34	14,474	466	111,624	230	81,798
Region 12 Texas-Gulf	1,005	263,140	85	16,653	194	19,795	51	10,526	603	184,824	145	31,342
Region 13 Rio Grande	5,136	186,795	151	(D)	133	(D)	1,931	72,611	2,675	(D)	524	9,425
Region 14 Upper Colorado	2,741	516,898	295	12,539	326	(D)	186	33,320	2,006	456,377	94	(D)
Region 15 Lower Colorado	1,649	454,369	98	2,426	64	2,288	829	343,806	353	92,074	370	13,775
Region 16 Great Basin	3,617	539,880	56	2,510	110	8,018	610	63,742	2,726	434,483	333	31,127
Region 17 Pacific Northwest	4,804	575,176	224	7,312	417	22,813	257	10,580	4,004	529,067	61	5,404
Region 18 California	7,461	2,154,598	222	37,031	227	15,392	709	247,385	3,722	1,225,467	3,094	629,323
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	2	(D)	-	-	-	-	-	-	2	(D)	-	-

See footnote(s) at end of table.

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Table 29. Gravity Irrigation in Fields in the Open: 2018 and 2013 (continued)

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

Geographic area	Uncontrolled flooding		Other gravity systems	
	Farms	Acres irrigated	Farms	Acres irrigated
United States	15,298	1,881,732	3,752	169,743
.....2018				
.....2013	11,765	1,801,259	5,926	730,918
2018 DATA				
Alabama	25	7,125	-	-
Alaska	-	-	-	-
Arizona	224	2,864	16	320
Arkansas	57	8,115	-	-
California	2,858	387,077	526	8,002
Colorado	2,088	229,662	314	20,072
Connecticut	-	-	42	84
Delaware	-	-	-	-
Florida	6	19,800	4	14,900
Georgia	-	-	23	161
Hawaii	66	495	70	(D)
Idaho	1,470	114,047	620	35,711
Illinois	-	-	5	5
Indiana	-	-	-	-
Iowa	-	-	-	-
Kansas	-	-	-	-
Kentucky	26	52	29	29
Louisiana	81	10,346	-	-
Maine	-	-	12	93
Maryland	-	-	27	55
Massachusetts	-	-	-	-
Michigan	-	-	20	40
Minnesota	-	-	-	-
Mississippi	13	299	-	-
Missouri	-	-	19	7,940
Montana	1,553	312,157	238	9,409
Nebraska	204	14,315	33	3,750
Nevada	369	110,842	33	285
New Hampshire	-	-	4	(D)
New Jersey	-	-	23	46
New Mexico	962	31,706	188	4,007
New York	23	46	26	1,352
North Carolina	-	-	-	-
North Dakota	-	-	-	-
Ohio	8	8	22	22
Oklahoma	39	6,240	-	-
Oregon	1,141	159,549	436	11,124
Pennsylvania	-	-	16	32
Rhode Island	5	40	-	-
South Carolina	51	1,252	-	-
South Dakota	66	3,014	-	-
Tennessee	-	-	22	374
Texas	386	24,582	105	20,085
Utah	2,048	100,428	485	14,259
Vermont	5	10	2	(D)
Virginia	-	-	22	22
Washington	235	11,843	276	5,585
West Virginia	-	-	2	(D)
Wisconsin	-	-	-	-
Wyoming	1,289	325,818	92	11,519
Water Resources Regions				
Region 01 New England	5	40	60	201
Region 02 Mid-Atlantic	23	46	66	133
Region 03 South Atlantic-Gulf	94	28,471	27	15,061
Region 04 Great Lakes	13	(D)	46	1,392
Region 05 Ohio	26	(D)	75	(D)
Region 06 Tennessee	-	-	22	374
Region 07 Upper Mississippi	-	-	5	5
Region 08 Lower Mississippi	101	9,396	-	-
Region 09 Souris-Red-Rainy	-	-	-	-
Region 10 Missouri	3,115	466,040	232	26,019
Region 11 Arkansas-White-Red	350	38,924	94	10,150
Region 12 Texas-Gulf	386	24,582	105	20,085
Region 13 Rio Grande	986	65,993	-	-
Region 14 Upper Colorado	1,739	280,021	482	20,690
Region 15 Lower Colorado	401	10,612	42	450
Region 16 Great Basin	1,950	186,246	470	22,975
Region 17 Pacific Northwest	3,135	373,139	1,407	42,708
Region 18 California	2,908	397,657	549	8,991
Region 19 Alaska	-	-	-	-
Region 20 Hawaii	66	495	70	(D)

¹ Multiple systems covering the same acreage are counted each time they cover the acres. This includes multiple systems of the same type.