

Table 39. Water Management Practices Used by Operators with Gravity Systems for Acres in the Open: 2013 and 2008

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

Geographic area	All farms ¹	Acres irrigated	Any conservation technique used ²		Conservation technique used ²	
			Farms	Acres irrigated	Tailwater pits, diking, time limits, or alternative row irrigation ³	
					Farms	Acres irrigated
United States 2013 2008 ⁴	85,159 90,453	21,504,684 22,217,750	33,629 45,458	9,851,730 12,891,634	20,990 34,234	4,205,281 9,044,133
2013 DATA						
Alabama	97	4,419	18	526	12	(D)
Alaska	11	69	-	-	-	-
Arizona	3,005	748,012	1,429	580,931	566	192,359
Arkansas	3,356	4,296,734	1,221	1,934,866	716	764,424
California	15,231	4,539,426	6,192	2,790,804	3,421	1,229,078
Colorado	9,044	1,196,805	2,620	333,292	1,846	219,264
Connecticut	41	336	8	16	8	16
Delaware	9	18	-	9	-	-
Florida	363	573,147	68	99,157	38	25,383
Georgia	256	4,866	7	14	7	14
Hawaii	228	11,788	31	345	28	273
Idaho	7,902	757,753	2,900	305,506	1,962	145,878
Illinois	65	8,523	18	6,382	15	1,697
Indiana	62	4,585	10	515	10	515
Iowa	75	1,564	11	366	9	(D)
Kansas	1,100	106,984	816	68,667	678	46,717
Kentucky	66	428	17	62	17	34
Louisiana	1,416	969,325	483	369,991	167	87,592
Maine	22	34	2	(D)	-	-
Maryland	44	646	9	135	6	30
Massachusetts	61	2,091	13	(D)	13	(D)
Michigan	135	1,998	12	24	12	12
Minnesota	95	21,741	4	3,052	2	(D)
Mississippi	1,064	1,265,091	457	488,787	201	99,429
Missouri	918	760,732	402	438,686	135	95,646
Montana	5,350	1,144,584	1,899	338,131	1,307	195,312
Nebraska	7,191	1,251,630	4,178	620,428	3,099	415,550
Nevada	1,607	469,556	688	147,428	425	82,264
New Hampshire	36	160	17	23	9	15
New Jersey	41	2,704	19	314	16	175
New Mexico	7,112	289,732	2,772	119,965	1,221	40,510
New York	76	1,069	15	91	4	80
North Carolina	173	1,841	12	24	12	24
North Dakota	140	28,108	77	18,306	41	5,991
Ohio	78	695	15	25	7	13
Oklahoma	138	14,010	54	7,881	40	4,184
Oregon	3,975	571,531	1,543	164,637	1,440	110,675
Pennsylvania	141	1,206	6	6	-	-
Rhode Island	9	163	1	(D)	1	(D)
South Carolina	88	5,577	-	-	-	-
South Dakota	371	51,774	85	13,321	71	7,663
Tennessee	76	8,419	25	3,556	17	1,024
Texas	3,246	560,944	1,195	339,495	856	151,582
Utah	5,431	592,225	1,720	206,583	1,303	96,913
Vermont	60	177	11	19	3	(D)
Virginia	29	162	-	-	-	-
Washington	1,259	169,489	488	84,221	327	30,559
West Virginia	7	106	-	-	-	-
Wisconsin	149	8,034	18	3,178	18	(D)
Wyoming	3,710	1,053,673	2,034	360,680	904	150,059
Water Resources Regions						
Region 01 New England	179	2,797	44	1,327	34	892
Region 02 Mid-Atlantic	314	4,912	58	555	26	285
Region 03 South Atlantic-Gulf	1,039	593,083	110	100,187	70	25,883
Region 04 Great Lakes	266	3,576	28	52	12	12
Region 05 Ohio	189	4,528	36	690	36	662
Region 06 Tennessee	72	395	26	108	18	92
Region 07 Upper Mississippi	367	37,496	97	14,899	44	(D)
Region 08 Lower Mississippi	5,733	6,483,957	2,160	2,707,057	1,031	900,241
Region 09 Souris-Red-Rainy	50	17,431	12	3,832	4	(D)
Region 10 Missouri	17,663	3,491,310	8,789	1,415,449	5,812	830,543
Region 11 Arkansas-White-Red	3,226	1,135,891	1,280	661,248	744	206,364
Region 12 Texas-Gulf	2,594	474,752	843	256,545	534	112,769
Region 13 Rio Grande	7,223	366,462	2,833	158,315	1,624	68,911
Region 14 Upper Colorado	7,297	1,035,080	2,204	234,277	1,586	154,823
Region 15 Lower Colorado	3,440	797,472	1,529	599,544	585	192,501
Region 16 Great Basin	5,504	871,799	1,806	318,923	1,326	152,972
Region 17 Pacific Northwest	14,308	1,573,577	5,386	591,128	3,907	311,158
Region 18 California	15,456	4,598,309	6,357	2,787,249	3,569	1,239,293
Region 19 Alaska	11	69	-	-	-	-
Region 20 Hawaii	228	11,788	31	345	28	273

See footnote(s) at end of table.

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Table 39. Water Management Practices Used by Operators with Gravity Systems for Acres in the Open: 2013 and 2008 (continued)

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

Geographic area	Conservation technique used ² - con.							
	Surge flow or cablegation ⁵		Precision-leveling or zero-grading ⁶		Shorter furrow length, PAM, ⁷ or special furrow practices			
	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated	Farms	Acres irrigated
United States2013 2008 ⁴	3,227 4,556	506,395 566,941	10,157 11,590	3,898,913 3,985,596	6,435 10,030	1,241,141 1,738,079		
2013 DATA								
Alabama	-	-	1	(D)	5	280		
Alaska	-	-	-	-	-	-		
Arizona	24	55,614	1,002	273,245	110	59,713		
Arkansas	70	22,286	785	965,703	262	182,453		
California	553	78,805	3,804	1,207,014	767	275,907		
Colorado	249	20,700	122	18,103	691	75,225		
Connecticut	-	-	-	-	-	-		
Delaware	9	9	-	-	-	-		
Florida	4	2,502	35	66,552	5	4,720		
Georgia	-	-	-	-	-	-		
Hawaii	-	-	10	72	-	-		
Idaho	10	800	366	34,416	1,265	124,412		
Illinois	13	849	5	2,270	4	1,566		
Indiana	-	-	-	-	-	-		
Iowa	-	-	2	(D)	-	-		
Kansas	59	4,886	85	8,940	164	8,124		
Kentucky	7	14	7	14	-	-		
Louisiana	-	-	381	262,118	46	20,281		
Maine	-	-	-	-	2	(D)		
Maryland	6	30	3	75	-	-		
Massachusetts	-	-	5	425	-	-		
Michigan	6	6	6	6	-	-		
Minnesota	-	-	2	(D)	-	-		
Mississippi	5	730	360	349,924	82	38,704		
Missouri	112	27,679	272	257,309	92	58,052		
Montana	16	3,920	379	91,222	416	47,677		
Nebraska	644	84,864	314	31,666	796	88,348		
Nevada	9	1,440	297	62,524	13	1,200		
New Hampshire	8	8	-	-	-	-		
New Jersey	-	-	3	64	15	75		
New Mexico	218	18,070	1,166	46,591	431	14,794		
New York	5	(D)	-	-	6	(D)		
North Carolina	-	-	-	-	-	-		
North Dakota	-	-	34	7,390	26	4,925		
Ohio	8	8	-	-	4	4		
Oklahoma	14	633	7	1,051	16	2,013		
Oregon	20	1,865	79	10,801	150	41,296		
Pennsylvania	6	6	-	-	-	-		
Rhode Island	-	-	-	-	-	-		
South Carolina	-	-	-	-	-	-		
South Dakota	-	-	21	3,768	9	1,890		
Tennessee	10	776	3	878	3	878		
Texas	79	17,532	237	131,247	321	39,134		
Utah	157	28,690	308	48,978	220	32,002		
Vermont	8	(D)	-	-	8	8		
Virginia	-	-	-	-	-	-		
Washington	6	6	30	3,282	206	50,374		
West Virginia	-	-	-	-	-	-		
Wisconsin	-	-	2	(D)	-	-		
Wyoming	892	133,654	24	9,889	300	67,078		
Water Resources Regions								
Region 01 New England	8	(D)	5	425	2	(D)		
Region 02 Mid-Atlantic	26	50	6	139	21	81		
Region 03 South Atlantic-Gulf	4	2,502	40	66,802	10	5,000		
Region 04 Great Lakes	22	(D)	6	6	12	(D)		
Region 05 Ohio	7	14	7	14	-	-		
Region 06 Tennessee	8	16	-	-	-	-		
Region 07 Upper Mississippi	64	2,082	12	(D)	4	1,566		
Region 08 Lower Mississippi	87	45,503	1,546	1,491,238	405	270,075		
Region 09 Souris-Red-Rainy	-	-	2	(D)	6	180		
Region 10 Missouri	1,600	189,632	780	152,850	1,793	242,424		
Region 11 Arkansas-White-Red	127	16,440	339	369,805	536	68,639		
Region 12 Texas-Gulf	67	9,654	132	98,834	256	35,288		
Region 13 Rio Grande	192	12,472	1,241	63,452	106	13,480		
Region 14 Upper Colorado	186	49,900	130	8,298	478	21,256		
Region 15 Lower Colorado	24	55,614	1,100	291,716	110	59,713		
Region 16 Great Basin	110	29,570	505	107,933	142	28,448		
Region 17 Pacific Northwest	142	14,111	474	46,789	1,787	219,070		
Region 18 California	553	78,805	3,822	1,193,244	767	275,907		
Region 19 Alaska	-	-	-	-	-	-		
Region 20 Hawaii	-	-	10	72	-	-		

¹ The subirrigation category was dropped as a separate category in 2013 and is now reported as Other Gravity Systems.

² More than one technique may have been used on an irrigated acre during the survey year.

³ The 2008 data equal the sum of irrigation water captured (tailwater pits), water restricted from running off the field, limited irrigation set times or number of irrigations, and alternative row irrigation.

⁴ 2008 data do not include non-horticultural field crops and pasture acreage on horticulture operations.

⁵ The 2008 data equal the sum of surge-flow or cablegation and applying mulch or other row covers.

⁶ The 2008 data equal gravity systems with laser leveling.

⁷ The 2008 data equal the sum of the use of polyacrylamide (PAM), shortening of furrow lengths, and special furrowing techniques.