

Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 2018 and 2013

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

Geographic area	Corn for grain or seed												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	31,828 37,247	11,610,238 13,289,247	7,107 7,331	2,870,237 2,778,547	1,469 1,246	551,291 480,359	26,697 31,048	10,280,942 11,932,951	3,747 5,067	514,594 682,720	5,125 5,948	1,062,051 994,518
2018 DATA													
Alabama		124	32,857	7	4,225	-	-	19	11,065	102	20,184	12	4,758
Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Arizona		41	13,340	24	13,000	16	1,920	41	13,340	-	-	18	440
Arkansas		1,089	447,403	44	8,088	21	4,975	1,066	418,019	164	35,743	5	2,285
California		337	134,945	35	10,235	14	3,860	156	63,206	71	23,506	170	62,642
Colorado		1,646	642,494	556	270,041	229	89,338	1,126	556,849	134	14,250	646	112,857
Connecticut		-	-	-	-	-	-	-	-	-	-	-	-
Delaware		417	111,849	68	27,644	38	14,116	411	101,295	12	3,769	6	7,200
Florida		79	33,481	45	18,945	3	3,192	76	32,221	-	-	3	1,260
Georgia		662	135,101	116	20,450	73	9,690	449	100,832	320	22,701	53	13,232
Hawaii		15	4,720	11	2,954	1	(D)	1	(D)	3	1,194	12	3,526
Idaho		862	112,975	130	29,767	47	11,440	158	30,699	86	11,414	726	73,022
Illinois		996	313,408	194	68,828	18	2,160	925	303,576	24	5,395	58	4,437
Indiana		1,098	317,229	72	16,187	-	-	1,034	282,300	111	33,228	18	1,800
Iowa		461	109,131	101	18,807	52	6,230	425	104,631	18	(D)	54	4,860
Kansas		3,065	1,275,781	714	414,446	77	44,844	2,829	1,231,566	217	24,803	207	41,088
Kentucky		59	29,337	8	3,426	-	-	49	19,887	14	11,811	-	-
Louisiana		534	285,780	7	10,150	7	10,150	508	278,933	76	9,317	13	5,460
Maine		33	2,283	-	-	-	-	27	27	6	2,256	-	-
Maryland		287	51,602	65	6,598	4	496	208	45,525	109	7,487	-	-
Massachusetts		-	-	-	-	-	-	-	-	-	-	-	-
Michigan		1,157	378,664	132	47,221	29	28,800	1,046	317,147	439	62,225	19	4,575
Minnesota		1,421	280,391	315	81,139	67	13,775	1,327	271,910	109	8,091	22	2,060
Mississippi		454	283,200	9	5,315	-	-	402	265,826	112	22,137	1	(D)
Missouri		934	351,031	95	28,260	9	9,180	791	321,250	176	41,037	39	3,648
Montana		139	24,055	26	6,680	8	2,080	6	720	4	480	133	22,855
Nebraska		10,581	4,522,575	2,660	1,214,968	436	204,265	9,977	4,199,365	815	63,189	1,539	360,592
Nevada		26	1,828	23	1,067	7	812	16	575	-	-	25	1,328
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		88	8,895	-	-	-	-	75	6,899	15	1,996	-	-
New Mexico		231	48,130	35	15,079	-	-	63	7,259	-	-	168	40,871
New York		5	1,446	-	-	-	-	3	(D)	2	(D)	-	-
North Carolina		145	12,127	-	-	-	-	59	5,742	87	6,385	-	-
North Dakota		336	104,053	162	44,576	5	2,500	274	88,968	23	3,504	67	12,331
Ohio		60	8,045	17	2,080	11	1,465	15	3,276	35	3,310	10	1,459
Oklahoma		197	130,878	93	31,776	33	17,168	188	126,948	5	1,930	4	2,000
Oregon		211	47,757	90	27,304	21	9,476	77	13,103	72	5,849	66	28,805
Pennsylvania		37	1,621	16	1,600	-	-	37	1,621	16	1,600	-	-
Rhode Island		-	-	-	-	-	-	-	-	-	-	-	-
South Carolina		281	94,386	76	26,918	25	325	241	86,294	40	9,167	25	325
South Dakota		656	179,472	144	40,866	5	5,037	512	120,552	47	7,393	131	52,862
Tennessee		291	70,957	90	16,750	21	4,725	284	66,097	7	4,860	-	-
Texas		1,218	672,323	426	207,581	62	19,660	1,059	601,772	48	14,760	131	58,295
Utah		199	13,215	7	1,762	11	2,002	24	840	27	135	148	12,240
Vermont		-	-	-	-	-	-	-	-	-	-	-	-
Virginia		78	11,466	10	500	-	-	31	1,780	68	10,686	-	-
Washington		493	119,019	256	61,519	84	18,489	146	20,495	60	7,125	375	92,029
West Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin		484	142,895	209	61,900	25	9,036	447	139,484	50	4,226	19	(D)
Wyoming		301	48,093	19	1,585	10	(D)	89	17,758	23	5,801	202	26,324
Water Resources Regions													
Region 01 New England		33	2,283	-	-	-	-	27	27	6	2,256	-	-
Region 02 Mid-Atlantic		877	183,223	149	35,842	42	14,612	732	155,390	200	24,058	6	7,200
Region 03 South Atlantic-Gulf		1,337	307,666	253	73,428	101	13,207	877	231,847	592	65,458	83	16,375
Region 04 Great Lakes		1,612	514,095	306	80,873	63	38,501	1,461	437,161	509	75,083	47	7,834
Region 05 Ohio		788	207,304	42	12,565	-	-	691	177,559	101	30,216	18	(D)
Region 06 Tennessee		43	23,014	9	6,570	-	-	9	7,195	30	13,819	10	3,200
Region 07 Upper Mississippi		3,069	760,729	570	167,994	87	16,735	2,873	731,683	218	30,007	77	4,632
Region 08 Lower Mississippi		2,630	1,254,247	168	39,723	49	19,850	2,582	1,221,105	293	57,649	1	(D)
Region 09 Souris-Red-Rainy		255	94,411	130	52,853	-	-	218	87,263	47	5,808	22	2,060
Region 10 Missouri		14,922	5,915,979	3,722	1,651,066	707	321,889	13,235	5,347,520	1,194	127,322	2,675	591,837
Region 11 Arkansas-White-Red		3,046	1,648,999	1,016	568,359	142	67,832	2,867	1,600,386	147	21,443	196	53,588
Region 12 Texas-Gulf		605	203,779	84	26,485	17	6,300	450	136,288	43	11,700	127	57,791
Region 13 Rio Grande		87	18,593	20	2,500	-	-	21	4,707	-	-	66	13,886
Region 14 Upper Colorado		399	30,782	64	5,931	64	5,931	33	(D)	48	(D)	318	30,131
Region 15 Lower Colorado		41	13,340	24	13,000	16	1,920	41	13,340	-	-	18	440
Region 16 Great Basin		190	13,511	26	1,229	14	(D)	40	1,415	27	(D)	138	12,036
Region 17 Pacific Northwest		1,542	278,618	478	118,630	152	39,405	383	64,337	218	24,388	1,141	192,683
Region 18 California		337	134,945	35	10,235	14	3,860	156	63,206	71	23,506	170	62,642
Region 19 Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii		15	4,720	11	2,954	1	(D)	1	(D)	3	1,194	12	3,526

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Corn for silage or greenchop											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 7,930	1,648,789	1,912	479,350	630	153,271	4,169	1,005,446	1,431	320,085	3,581	606,782
	2013 8,382	1,729,358	2,087	440,327	325	66,653	4,329	1,164,020	1,309	306,772	4,318	562,021
2018 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	159	65,219	76	27,808	34	4,696	63	26,979	9	5,460	127	46,881
Arkansas	5	400	-	-	-	-	-	-	5	400	-	-
California	1,515	454,607	254	80,989	128	38,922	813	284,445	520	166,079	841	201,804
Colorado	730	133,455	246	45,026	93	10,650	424	90,725	130	21,468	381	50,958
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	9	780	-	-	-	-	9	780	-	-	-	-
Florida	12	13,130	4	(D)	-	-	12	10,550	3	6,300	-	-
Georgia	37	2,888	6	1,200	6	1,200	37	2,888	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	985	235,357	150	45,813	46	27,510	240	73,854	101	36,263	707	127,036
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	98	8,504	-	-	-	-	98	8,504	9	144	-	-
Iowa	18	720	-	-	-	-	-	-	18	720	-	-
Kansas	301	72,418	92	32,479	16	2,345	287	70,681	47	5,388	7	4,160
Kentucky	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	14	2,800	-	-	-	-	14	2,800	-	-	-	-
Massachusetts	29	58	-	-	-	-	-	-	29	58	-	-
Michigan	170	14,790	30	2,500	-	-	99	6,650	101	7,440	10	700
Minnesota	174	17,807	37	1,973	19	893	174	17,807	-	-	-	-
Mississippi	7	665	-	-	-	-	-	-	7	665	-	-
Missouri	16	2,720	-	-	-	-	-	-	16	2,720	-	-
Montana	216	31,210	42	5,300	8	1,580	2	(D)	8	(D)	206	30,490
Nebraska	825	109,372	190	43,036	17	643	675	102,273	104	11,632	103	4,465
Nevada	98	9,501	24	5,115	7	2,940	16	2,311	-	-	96	9,052
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	316	80,893	108	30,781	4	4,400	276	72,631	5	(D)	45	8,737
New York	2	(D)	-	-	-	-	-	-	2	(D)	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	45	3,279	-	-	-	-	14	1,200	31	1,829	9	(D)
Ohio	10	750	-	-	10	60	-	-	10	750	-	-
Oklahoma	14	7,124	13	858	-	-	13	(D)	1	(D)	-	-
Oregon	205	17,515	42	1,360	7	(D)	55	(D)	31	(D)	119	12,063
Pennsylvania	24	(D)	-	-	-	-	2	(D)	22	22	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	52	5,200	-	-	-	-	26	2,860	26	2,340	-	-
South Dakota	46	5,250	4	2,800	-	-	-	-	-	-	46	5,250
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	378	166,040	216	92,164	98	43,820	378	161,040	44	19,000	-	-
Utah	653	61,833	124	21,070	86	9,394	160	21,726	73	6,926	454	34,081
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	71	5,122	24	312	-	-	24	672	47	4,450	-	-
Washington	318	62,858	108	19,153	1	(D)	87	(D)	1	(D)	231	49,031
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	146	24,703	65	10,393	29	1,579	146	24,703	-	-	-	-
Wyoming	230	30,802	55	8,070	21	2,184	23	1,622	31	8,156	199	21,524
Water Resources Regions												
Region 01 New England	29	58	2	(D)	-	-	-	-	29	58	-	-
Region 02 Mid-Atlantic	118	9,174	24	(D)	-	-	49	4,702	69	4,472	-	-
Region 03 South Atlantic-Gulf	101	21,218	10	2,250	6	1,200	75	16,298	29	8,640	-	-
Region 04 Great Lakes	299	34,097	64	6,540	20	860	216	24,680	113	8,717	10	700
Region 05 Ohio	19	139	-	-	-	-	19	139	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	269	29,865	68	8,326	38	1,672	269	29,865	9	144	-	-
Region 08 Lower Mississippi	7	665	-	-	-	-	-	-	7	665	-	-
Region 09 Souris-Red-Rainy	15	3,000	-	-	-	-	15	3,000	-	-	-	-
Region 10 Missouri	1,998	293,910	516	105,741	92	14,182	1,151	195,513	293	40,170	826	92,986
Region 11 Arkansas-White-Red	553	159,271	186	67,610	68	17,189	475	145,336	122	33,089	42	7,392
Region 12 Texas-Gulf	402	138,842	178	63,383	70	29,000	402	133,842	25	6,500	-	-
Region 13 Rio Grande	101	34,101	61	22,889	4	4,400	62	26,339	-	-	44	8,237
Region 14 Upper Colorado	140	24,419	47	2,851	27	1,251	4	1,200	-	-	140	23,919
Region 15 Lower Colorado	191	66,440	78	27,928	34	4,696	63	26,979	9	5,460	159	48,102
Region 16 Great Basin	731	73,315	131	25,095	96	12,844	192	25,837	73	6,926	510	42,614
Region 17 Pacific Northwest	1,447	306,538	295	65,456	47	27,055	364	87,271	133	39,165	1,014	181,898
Region 18 California	1,510	453,737	252	80,869	128	38,922	813	284,445	520	166,079	836	200,934
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Sorghum for grain or seed												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	1,594 3,923	286,851 809,579	193 486	37,603 123,473	54 80	10,597 39,232	1,307 3,396	232,714 722,623	128 170	11,277 25,804	241 489	50,682 86,863
2018 DATA													
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	41	22,346	-	-	-	-	-	34	5,346	-	-	24	20,026
Arkansas	38	2,865	-	-	-	-	-	26	2,105	17	835	-	-
California	7	1,750	-	-	-	-	-	7	1,750	-	-	-	-
Colorado	174	15,935	31	1,180	45	5,940	77	8,145	24	648	97	7,790	
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	30	3,419	23	2,898	-	-	30	3,419	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	5	250	-	-	-	-	5	250	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	490	86,970	35	4,577	1	(D)	475	86,640	18	615	14	3,360	
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	24	3,681	3	300	-	-	24	3,681	-	-	-	-	-
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	16	1,824	-	-	-	-	-	-	-	-	-	16	1,824
Nebraska	110	5,077	5	465	-	-	94	4,755	-	-	30	350	
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	73	5,982	5	1,000	-	-	66	5,954	7	28	-	-	
New York	-	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	92	12,353	4	748	-	-	66	12,327	26	26	-	-	
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	484	123,669	87	26,435	8	(D)	393	97,612	36	9,125	60	17,332	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	10	730	-	-	-	-	10	730	-	-	-	-	
Water Resources Regions													
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	30	3,419	23	2,898	-	-	30	3,419	-	-	-	-	
Region 04 Great Lakes	24	3,681	3	300	-	-	24	3,681	-	-	-	-	
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-	
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	
Region 07 Upper Mississippi	5	250	-	-	-	-	5	250	-	-	-	-	
Region 08 Lower Mississippi	16	955	-	-	-	-	16	955	5	75	-	-	
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-	
Region 10 Missouri	243	22,975	5	465	-	-	211	20,829	-	-	46	2,174	
Region 11 Arkansas-White-Red	911	181,709	118	25,590	46	6,797	797	172,243	92	2,774	64	10,985	
Region 12 Texas-Gulf	225	48,474	39	7,350	8	3,800	145	23,142	24	8,400	60	17,332	
Region 13 Rio Grande	45	1,127	5	1,000	-	-	38	1,099	7	28	-	-	
Region 14 Upper Colorado	47	165	-	-	-	-	-	-	-	-	47	165	
Region 15 Lower Colorado	41	22,346	-	-	-	-	34	5,346	-	-	24	20,026	
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-	
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-	
Region 18 California	7	1,750	-	-	-	-	7	1,750	-	-	-	-	
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-	
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Wheat for grain or seed											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 8,760	2,311,703	1,859	619,104	562	241,876	5,042	1,423,482	712	165,315	3,669	826,783
	2013 12,974	3,197,501	2,290	732,345	413	147,167	8,296	2,176,732	1,203	265,325	4,430	873,083
2018 DATA												
Alabama	26	2,915	-	-	-	-	26	2,915	-	-	-	-
Alaska	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Arizona	170	76,229	72	33,066	37	9,853	63	21,149	4	2,040	126	64,507
Arkansas	5	5,000	-	-	-	-	5	5,000	-	-	-	-
California	674	207,599	107	28,349	35	9,544	313	87,395	126	41,205	399	142,588
Colorado	521	75,935	114	13,612	13	1,716	368	63,210	27	354	185	17,283
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	101	10,572	5	1,000	5	1,000	95	8,172	-	-	6	2,400
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	102	22,020	24	4,200	-	-	102	22,020	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,906	597,386	370	158,668	125	52,350	625	305,475	207	54,725	1,318	241,006
Illinois	65	5,904	18	1,260	-	-	47	5,004	18	900	-	-
Indiana	25	5,150	-	-	-	-	25	5,150	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	976	261,493	184	51,207	17	3,588	947	258,848	17	1,928	30	1,665
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	29	4,719	-	-	-	-	28	(D)	1	(D)	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	125	17,673	-	-	-	-	125	(D)	2	(D)	-	-
Minnesota	51	10,040	-	-	-	-	51	10,040	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	122	40,257	-	-	-	-	106	36,577	16	3,680	-	-
Montana	555	145,394	149	45,160	45	13,600	48	7,053	43	16,657	488	121,972
Nebraska	370	64,530	114	32,598	5	12,500	333	62,275	-	-	39	2,255
Nevada	28	19,698	16	833	-	-	7	4,323	-	-	21	15,375
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	12	2,217	-	-	-	-	11	(D)	1	(D)	-	-
New Mexico	177	41,372	41	12,590	34	10,540	108	25,838	34	102	40	15,952
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	28	1,850	-	-	-	-	28	1,850	-	-	-	-
North Dakota	167	41,094	6	(D)	5	(D)	74	8,380	-	-	97	33,914
Ohio	14	1,370	-	-	-	-	1	(D)	13	(D)	-	-
Oklahoma	325	103,858	96	45,347	68	39,419	286	87,378	14	7,730	25	8,750
Oregon	269	53,972	41	15,065	21	6,373	81	11,520	81	14,260	162	32,316
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	19	3,650	-	-	-	-	19	3,650	7	1,225	-	-
South Dakota	47	7,434	19	2,470	-	-	42	5,434	-	-	5	2,000
Tennessee	14	700	-	-	-	-	14	700	-	-	-	-
Texas	832	260,803	226	74,528	58	21,392	792	257,623	55	11,980	24	2,024
Utah	434	30,674	8	880	4	3,664	8	1,760	31	1,286	403	28,588
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	4	1,324	-	-	-	-	-	-	4	1,324	-	-
Washington	445	166,293	213	93,138	78	53,427	207	86,635	5	2,360	242	77,298
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	21	1,189	2	(D)	2	(D)	21	1,189	-	-	-	-
Wyoming	100	21,380	34	3,933	10	2,010	35	2,999	6	1,491	59	16,890
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	146	18,832	5	(D)	5	(D)	134	(D)	6	1,874	6	(D)
Region 03 South Atlantic-Gulf	149	27,520	24	4,200	-	-	149	27,520	7	1,225	-	-
Region 04 Great Lakes	143	20,543	-	-	-	-	133	19,475	12	1,068	-	-
Region 05 Ohio	31	3,122	-	-	-	-	28	2,672	3	450	-	-
Region 06 Tennessee	26	2,915	-	-	-	-	26	2,915	-	-	-	-
Region 07 Upper Mississippi	120	13,253	20	1,860	2	(D)	94	11,681	26	1,572	-	-
Region 08 Lower Mississippi	117	40,997	-	-	-	-	117	40,997	-	-	-	-
Region 09 Souris-Red-Rainy	17	6,070	1	(D)	-	-	17	6,070	-	-	-	-
Region 10 Missouri	1,593	342,703	362	91,828	62	28,110	873	159,434	48	18,878	712	166,471
Region 11 Arkansas-White-Red	1,778	570,204	423	157,929	115	58,679	1,645	539,053	56	19,530	138	23,585
Region 12 Texas-Gulf	431	56,317	86	11,720	28	5,720	391	53,797	40	1,320	20	1,200
Region 13 Rio Grande	120	21,022	82	17,080	34	10,540	86	20,920	34	102	9	4,360
Region 14 Upper Colorado	83	(D)	17	2,196	13	1,716	-	-	-	-	83	(D)
Region 15 Lower Colorado	173	79,858	75	36,695	38	12,242	65	22,389	4	2,040	127	66,896
Region 16 Great Basin	581	86,093	20	1,233	4	3,664	82	32,036	31	1,286	483	53,731
Region 17 Pacific Northwest	2,580	804,426	640	268,343	227	112,450	890	383,801	319	74,765	1,693	354,092
Region 18 California	671	203,970	104	24,720	34	7,155	311	86,155	126	41,205	398	140,199
Region 19 Alaska	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Soybeans for beans												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	21,316 21,755	8,215,031 7,413,276	1,224 1,173	383,511 263,701	597 569	204,007 187,665	19,508 20,080	7,594,411 6,858,900	2,970 2,739	604,100 613,234	1,428 1,510	224,447 175,358
2018 DATA													
Alabama		119	21,199	-	-	-	-	61	13,710	54	6,419	10	3,000
Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Arizona		-	-	-	-	-	-	-	-	-	-	-	-
Arkansas		2,367	2,154,112	79	42,877	59	39,219	2,277	1,979,431	623	283,064	22	9,040
California		-	-	-	-	-	-	-	-	-	-	-	-
Colorado		84	13,428	38	5,376	1	(D)	84	13,428	-	-	-	-
Connecticut		-	-	-	-	-	-	-	-	-	-	-	-
Delaware		314	62,087	12	9,036	13	9,079	313	57,770	17	3,453	6	1,614
Florida		30	3,060	-	-	-	-	27	2,700	-	-	3	360
Georgia		153	26,770	47	14,345	-	-	126	24,860	52	1,910	-	-
Hawaii		7	250	4	199	1	(D)	-	-	3	(D)	4	(D)
Idaho		2	(D)	-	-	-	-	-	-	-	-	2	(D)
Illinois		618	184,406	-	-	-	-	565	175,888	58	6,410	17	2,108
Indiana		848	175,327	18	450	9	450	783	158,253	85	14,124	37	2,950
Iowa		201	45,974	50	5,510	34	5,510	201	45,974	-	-	-	-
Kansas		1,683	390,288	177	51,224	98	18,151	1,464	360,473	151	13,690	180	20,710
Kentucky		54	21,848	1	(D)	1	(D)	43	12,956	14	9,636	-	-
Louisiana		638	418,548	7	9,100	21	12,544	622	388,658	115	34,320	13	3,640
Maine		-	-	-	-	-	-	-	-	-	-	-	-
Maryland		247	44,447	26	3,269	26	3,269	226	36,509	73	12,423	4	800
Massachusetts		-	-	-	-	-	-	-	-	-	-	-	-
Michigan		809	192,450	50	18,362	49	17,320	760	161,011	259	32,202	19	2,760
Minnesota		891	104,194	60	10,284	-	-	839	97,762	56	4,238	23	2,821
Mississippi		993	1,053,930	21	17,185	19	13,255	949	1,006,770	184	64,630	-	-
Missouri		1,139	640,311	11	12,900	11	6,900	1,025	614,258	162	36,013	-	-
Montana		23	4,078	8	2,040	8	2,040	-	-	4	520	19	3,558
Nebraska		7,821	2,202,453	451	147,652	205	55,219	7,445	2,096,348	623	32,081	814	109,379
Nevada		-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		143	12,269	-	-	-	-	79	6,304	68	6,265	-	-
New Mexico		10	(D)	-	-	-	-	-	-	-	-	10	(D)
New York		-	-	-	-	-	-	-	-	-	-	-	-
North Carolina		103	6,614	-	-	-	-	31	2,850	72	3,764	-	-
North Dakota		248	58,653	41	8,818	5	2,500	177	40,434	55	7,498	31	11,471
Ohio		42	4,745	-	-	-	-	14	2,246	27	(D)	1	(D)
Oklahoma		166	62,313	30	8,436	30	8,436	121	48,043	29	6,520	29	7,750
Oregon		-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania		16	80	16	(D)	-	-	16	80	16	80	-	-
Rhode Island		-	-	-	-	-	-	-	-	-	-	-	-
South Carolina		148	18,156	25	250	-	-	113	15,228	17	3,553	25	250
South Dakota		420	97,467	20	8,956	2	(D)	332	60,230	23	3,055	70	34,382
Tennessee		312	80,717	6	2,520	-	-	305	77,297	7	3,420	-	-
Texas		133	29,032	9	2,320	-	-	83	23,694	20	2,000	30	3,338
Utah		-	-	-	-	-	-	-	-	-	-	-	-
Vermont		-	-	-	-	-	-	-	-	-	-	-	-
Virginia		67	9,749	-	-	-	-	-	-	67	9,749	-	-
Washington		-	-	-	-	-	-	-	-	-	-	-	-
West Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin		445	73,832	17	2,046	5	576	427	71,246	36	720	37	1,866
Wyoming		22	2,200	-	-	-	-	-	-	-	-	22	2,200
Water Resources Regions													
Region 01 New England		-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic		787	128,632	54	12,385	39	12,348	634	100,663	241	31,970	10	2,414
Region 03 South Atlantic-Gulf		536	71,995	72	14,595	-	-	335	52,521	212	19,983	28	610
Region 04 Great Lakes		1,138	255,751	71	18,848	52	17,356	1,069	220,317	287	34,190	38	4,767
Region 05 Ohio		568	142,249	1	(D)	10	726	521	126,935	67	15,808	1	(D)
Region 06 Tennessee		67	17,009	6	(D)	-	-	35	9,365	27	(D)	10	3,000
Region 07 Upper Mississippi		2,089	385,280	52	7,542	2	(D)	1,880	351,552	219	29,153	91	7,135
Region 08 Lower Mississippi		4,595	3,951,114	107	69,162	99	65,018	4,499	3,727,613	799	335,892	12	6,045
Region 09 Souris-Red-Rainy		230	42,570	56	10,898	-	-	145	31,802	105	10,835	4	(D)
Region 10 Missouri		9,518	2,564,114	593	175,281	256	75,414	8,791	2,365,791	811	59,959	1,107	179,254
Region 11 Arkansas-White-Red		1,701	651,431	208	71,805	138	32,587	1,561	606,598	199	59,905	81	16,831
Region 12 Texas-Gulf		68	4,592	-	-	-	-	38	1,254	-	-	30	3,338
Region 13 Rio Grande		10	(D)	-	-	-	-	-	-	-	-	10	(D)
Region 14 Upper Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin		-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest		2	(D)	-	-	-	-	-	-	-	-	2	(D)
Region 18 California		-	-	-	-	-	-	-	-	-	-	-	-
Region 19 Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii		7	250	4	199	1	(D)	-	-	3	(D)	4	(D)

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Beans, dry edible											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2,275	416,608	546	115,139	198	38,593	1,053	209,978	211	17,040	1,265	204,990
2013	2,793	433,590	356	109,391	137	50,067	903	222,123	292	38,259	1,836	204,574
2018 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	9	7,274	1	(D)	-	-	3	(D)	-	-	8	3,072
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	244	40,176	112	21,781	19	5,679	155	16,858	38	1,922	148	30,101
Colorado	141	18,913	49	8,148	5	(D)	83	15,913	14	(D)	44	(D)
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Florida	27	270	27	270	-	-	27	270	-	-	-	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	641	77,397	57	(D)	26	7,245	43	5,857	52	4,731	559	66,809
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	13	8,210	-	-	4	1,440	13	8,210	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	32	32	-	-	-	-	29	29	32	32	-	-
Maryland	4	420	4	420	-	-	4	420	-	-	-	-
Massachusetts	28	28	-	-	-	-	-	-	-	-	28	28
Michigan	111	18,223	-	-	-	-	102	14,758	12	2,124	9	1,665
Minnesota	130	49,311	34	23,944	4	4,000	126	46,846	27	2,705	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Montana	24	3,089	16	2,080	-	-	-	-	4	477	20	2,612
Nebraska	414	103,771	96	25,950	26	4,840	241	50,484	14	(D)	237	56,517
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	2	(D)	1	(D)	-	-	-	-	-	-	2	(D)
New York	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	63	21,260	-	-	-	-	59	20,540	-	-	4	720
Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	35	4,827	1	(D)	-	-	2	(D)	7	(D)	26	4,320
Pennsylvania	24	24	-	-	-	-	22	(D)	-	-	2	(D)
Rhode Island	9	9	-	-	-	-	9	9	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	1	(D)	-	-	1	(D)	-	-	1	(D)	-	-
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	11	1,110	5	620	-	-	6	(D)	-	-	5	(D)
Utah	4	208	-	-	-	-	-	-	-	-	4	208
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	202	27,673	120	13,133	92	12,007	61	(D)	1	(D)	140	20,326
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	11	8,548	2	(D)	-	-	11	8,548	-	-	-	-
Wyoming	95	19,440	21	1,302	21	1,302	57	6,628	9	2,781	29	10,031
Water Resources Regions												
Region 01 New England	69	69	-	-	-	-	38	38	32	32	28	28
Region 02 Mid-Atlantic	6	422	4	420	-	-	4	(D)	-	-	2	(D)
Region 03 South Atlantic-Gulf	27	270	27	(D)	-	-	27	270	-	-	-	-
Region 04 Great Lakes	133	18,245	-	-	-	-	124	14,780	12	2,124	9	(D)
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	129	51,899	32	23,539	4	4,000	129	51,234	19	665	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	71	26,500	4	2,800	-	-	67	24,700	8	2,040	-	-
Region 10 Missouri	675	154,416	182	37,480	57	9,662	393	81,205	39	5,244	321	71,897
Region 11 Arkansas-White-Red	2	(D)	-	-	-	-	2	(D)	-	-	-	-
Region 12 Texas-Gulf	10	920	5	620	-	-	5	300	-	-	5	620
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-
Region 14 Upper Colorado	15	(D)	1	(D)	-	-	-	-	-	-	15	(D)
Region 15 Lower Colorado	9	7,274	1	(D)	-	-	3	(D)	-	-	8	3,072
Region 16 Great Basin	4	208	-	-	-	-	-	-	-	-	4	208
Region 17 Pacific Northwest	881	110,047	178	25,622	118	19,252	106	13,579	63	5,013	725	91,455
Region 18 California	244	40,176	112	21,781	19	5,679	155	16,858	38	1,922	148	30,101
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Rice												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018	3,813	2,370,113	279	143,997	134	78,359	2,812	1,689,334	902	378,735	958	500,941
	2013	5,613	3,132,894	464	179,944	381	147,285	3,529	1,843,682	1,367	544,887	2,103	998,106
2018 DATA													
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	1,715	1,190,434	74	25,392	53	20,368	1,635	1,054,205	518	232,505	34	5,910	
California	837	393,275	154	70,039	66	33,961	178	66,860	142	66,352	723	322,658	
Colorado	-	-	-	-	-	-	-	-	-	-	-	-	
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-	
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	
Florida	16	(D)	-	-	-	-	-	-	8	(D)	8	18,999	
Georgia	-	-	-	-	-	-	-	-	-	-	-	-	
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	
Illinois	1	(D)	-	-	-	-	1	(D)	-	-	-	-	
Indiana	-	-	-	-	-	-	-	-	-	-	-	-	
Iowa	-	-	-	-	-	-	-	-	-	-	-	-	
Kansas	-	-	-	-	-	-	-	-	-	-	-	-	
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-	
Louisiana	561	282,375	26	3,536	-	-	473	232,287	153	45,759	26	15,002	
Maine	-	-	-	-	-	-	-	-	-	-	-	-	
Maryland	-	-	-	-	-	-	-	-	-	-	-	-	
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-	
Michigan	-	-	-	-	-	-	-	-	-	-	-	-	
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-	
Mississippi	148	99,888	-	-	-	-	146	96,228	49	(D)	-	-	
Missouri	257	173,652	10	21,000	-	-	257	173,636	8	16	-	-	
Montana	-	-	-	-	-	-	-	-	-	-	-	-	
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-	
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-	
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	
New York	-	-	-	-	-	-	-	-	-	-	-	-	
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-	
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	
Ohio	-	-	-	-	-	-	-	-	-	-	-	-	
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-	
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-	
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-	
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	
Tennessee	1	(D)	-	-	-	-	1	(D)	-	-	-	-	
Texas	277	206,790	15	24,030	15	24,030	121	(D)	24	19,000	167	138,372	
Utah	-	-	-	-	-	-	-	-	-	-	-	-	
Vermont	-	-	-	-	-	-	-	-	-	-	-	-	
Virginia	-	-	-	-	-	-	-	-	-	-	-	-	
Washington	-	-	-	-	-	-	-	-	-	-	-	-	
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-	
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-	
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	
Water Resources Regions													
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	-	-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf	16	(D)	-	-	-	-	-	-	8	4,000	8	(D)	
Region 04 Great Lakes	-	-	-	-	-	-	-	-	-	-	-	-	
Region 05 Ohio	-	-	-	-	-	-	-	-	-	-	-	-	
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-	
Region 07 Upper Mississippi	1	(D)	-	-	-	-	1	(D)	-	-	-	-	
Region 08 Lower Mississippi	2,279	1,456,107	100	28,928	53	20,368	2,128	1,282,463	634	237,280	50	19,432	
Region 09 Souris-Red-Rainy	-	-	-	-	-	-	-	-	-	-	-	-	
Region 10 Missouri	-	-	-	-	-	-	-	-	-	-	-	-	
Region 11 Arkansas-White-Red	403	290,592	10	21,000	-	-	384	274,243	94	52,103	10	(D)	
Region 12 Texas-Gulf	277	206,790	15	24,030	15	24,030	121	(D)	24	19,000	167	138,372	
Region 13 Rio Grande	-	-	-	-	-	-	-	-	-	-	-	-	
Region 14 Upper Colorado	-	-	-	-	-	-	-	-	-	-	-	-	
Region 15 Lower Colorado	-	-	-	-	-	-	-	-	-	-	-	-	
Region 16 Great Basin	-	-	-	-	-	-	-	-	-	-	-	-	
Region 17 Pacific Northwest	-	-	-	-	-	-	-	-	-	-	-	-	
Region 18 California	837	393,275	154	70,039	66	33,961	178	66,860	142	66,352	723	322,658	
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-	
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Other small grains (barley, oats, rye, etc.)											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States 2018 2013	5,767 6,258	1,026,289 1,209,527	677 801	147,936 167,846	289 203	68,478 63,353	1,621 2,125	370,265 487,333	948 812	157,088 140,103	3,606 3,903	566,757 640,456
2018 DATA												
Alabama	4	8	-	-	-	-	-	-	4	4	4	8
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	130	13,912	19	3,115	17	(D)	41	2,442	17	1,680	89	11,470
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
California	551	127,718	50	5,009	45	4,645	177	46,361	143	43,400	426	88,956
Colorado	366	81,378	82	25,818	45	21,628	211	66,491	29	1,332	151	16,283
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	10	1,300	-	-	-	-	4	100	-	-	6	1,200
Florida	56	9,630	-	-	-	-	53	9,270	-	-	3	360
Georgia	25	732	-	-	-	-	25	732	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	1,580	388,697	167	34,628	102	20,014	388	115,859	272	59,732	1,017	214,166
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	35	2,342	-	-	-	-	17	2,288	18	54	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	10	4,135	6	2,535	-	-	10	4,135	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	31	1,351	-	-	-	-	31	1,351	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	11	507	-	-	-	-	2	(D)	9	(D)	-	-
Minnesota	27	2,020	-	-	-	-	27	2,020	-	-	-	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Missouri	-	-	-	-	-	-	-	-	-	-	-	-
Montana	537	141,966	57	33,322	10	9,292	2	(D)	65	(D)	490	130,147
Nebraska	84	7,930	18	4,380	-	-	68	6,718	-	-	20	2,232
Nevada	137	13,163	36	3,716	7	966	57	7,880	-	-	80	5,283
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	79	9,507	11	5,358	-	-	12	7,158	34	204	33	2,145
New York	3	9	-	-	-	-	-	-	3	9	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota	15	4,100	5	1,100	5	1,100	10	3,100	5	750	5	1,000
Ohio	23	690	-	-	-	-	-	-	23	690	-	-
Oklahoma	22	22,590	-	-	-	-	22	22,590	-	-	-	-
Oregon	181	18,081	-	-	-	-	37	5,215	79	5,516	65	7,350
Pennsylvania	22	176	-	-	-	-	-	-	22	176	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	28	4,091	19	2,356	-	-	27	(D)	-	-	1	(D)
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	168	46,444	39	4,580	-	-	117	38,044	51	8,400	-	-
Utah	947	45,301	92	5,640	20	(D)	108	14,415	93	11,196	777	27,250
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	210	22,136	12	2,727	9	1,767	111	6,330	32	1,652	67	14,154
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	33	1,777	-	-	-	-	33	1,777	-	-	-	-
Wyoming	442	54,598	64	13,652	29	7,560	31	1,727	49	11,124	372	43,747
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	66	2,836	-	-	-	-	35	1,451	25	185	6	1,200
Region 03 South Atlantic-Gulf	85	10,370	-	-	-	-	78	10,002	4	4	7	368
Region 04 Great Lakes	21	(D)	-	-	-	-	12	(D)	9	315	-	-
Region 05 Ohio	58	3,032	-	-	-	-	17	2,288	41	744	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	49	2,697	-	-	-	-	49	2,697	-	-	-	-
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Region 10 Missouri	1,156	213,627	161	51,266	62	18,900	236	25,063	79	21,144	864	171,210
Region 11 Arkansas-White-Red	137	42,669	26	4,940	-	-	90	35,115	-	-	60	7,554
Region 12 Texas-Gulf	94	32,755	20	2,300	-	-	54	29,855	40	2,900	-	-
Region 13 Rio Grande	153	67,629	51	25,593	18	17,080	107	61,355	49	6,948	9	2,054
Region 14 Upper Colorado	377	17,247	79	7,322	-	-	23	2,645	51	752	303	13,850
Region 15 Lower Colorado	159	14,980	21	4,075	17	(D)	43	3,402	44	1,788	89	11,470
Region 16 Great Basin	941	80,846	81	7,076	34	(D)	188	32,495	69	11,178	718	44,733
Region 17 Pacific Northwest	1,893	406,196	190	41,315	113	25,241	513	117,204	390	66,850	1,100	223,202
Region 18 California	577	129,798	48	4,049	45	4,645	175	45,401	147	44,280	450	91,116
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 48,697	6,165,406	4,191	822,568	1,516	422,141	12,313	2,154,456	6,460	828,537	32,974	3,469,156
.....	2013 46,181	5,512,871	3,213	620,206	1,514	277,656	14,257	2,216,445	5,276	817,582	29,652	2,927,186
2018 DATA												
Alabama	25	2,000	-	-	-	-	-	-	-	-	25	2,000
Alaska	1	(D)	-	-	-	-	-	(D)	-	-	-	-
Arizona	824	304,152	100	86,115	44	30,894	255	102,494	58	15,411	622	231,572
Arkansas	10	360	-	-	-	-	-	10	360	-	-	-
California	2,544	701,813	232	126,065	147	85,328	1,322	334,150	458	109,835	1,336	375,011
Colorado	6,749	592,838	619	51,029	147	21,640	985	168,049	832	70,336	5,245	385,884
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Delaware	28	162	6	30	-	-	22	132	-	-	6	30
Florida	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	57	1,145	-	-	-	-	23	575	34	570	-	-
Hawaii	3	27	-	-	-	-	-	-	3	27	-	-
Idaho	7,361	856,511	466	55,029	125	27,702	1,236	267,817	970	106,128	5,520	498,002
Illinois	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	55	2,966	-	-	-	-	55	2,966	-	-	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	646	156,569	89	35,768	82	49,323	589	150,239	32	2,490	52	9,404
Kentucky	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	5	350	-	-	-	-	4	(D)	1	(D)	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Michigan	228	12,180	40	1,920	-	-	146	8,410	102	3,870	-	-
Minnesota	302	21,055	-	-	-	-	261	19,355	-	-	41	1,700
Mississippi	12	222	-	-	-	-	-	-	6	132	6	90
Missouri	23	476	-	-	-	-	-	-	16	464	7	14
Montana	4,836	872,353	255	77,922	41	1,958	446	42,942	752	233,332	3,858	598,776
Nebraska	2,584	325,052	136	29,865	30	15,230	1,998	223,004	197	22,524	621	85,682
Nevada	1,090	332,309	230	100,572	63	37,194	443	210,865	196	28,134	549	108,425
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	7	175	-	-	-	-	-	-	7	175	-	-
New Mexico	3,712	135,448	267	23,344	101	10,718	768	60,119	474	5,909	2,788	80,989
New York	2	(D)	-	-	-	-	-	(D)	2	(D)	-	-
North Carolina	12	84	-	-	-	-	-	-	12	84	-	-
North Dakota	176	9,538	31	2,170	-	-	99	4,915	2	(D)	79	4,827
Ohio	26	1,110	-	-	-	-	3	420	23	690	-	-
Oklahoma	243	34,640	51	9,430	-	-	177	18,727	66	15,913	25	8,000
Oregon	2,634	331,194	153	31,913	41	9,777	680	136,198	434	44,425	1,678	154,715
Pennsylvania	23	288	-	-	-	-	1	(D)	22	(D)	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	347	45,734	-	-	-	-	120	15,347	23	2,760	204	27,627
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	621	56,268	143	16,341	79	7,241	436	48,497	58	(D)	223	7,156
Utah	7,724	611,229	617	50,284	349	67,283	813	160,460	872	53,107	6,295	408,334
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	2,569	278,089	423	63,903	121	23,150	833	76,982	333	14,315	1,561	192,254
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	224	23,936	29	1,396	-	-	224	23,936	-	-	-	-
Wyoming	2,994	454,316	304	59,472	146	34,703	373	77,262	465	95,250	2,233	288,664
Water Resources Regions												
Region 01 New England	-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic	63	975	6	30	-	-	27	(D)	30	(D)	6	30
Region 03 South Atlantic-Gulf	106	3,451	-	-	-	-	23	575	52	786	31	2,090
Region 04 Great Lakes	371	27,192	50	2,670	-	-	287	22,702	104	4,590	-	-
Region 05 Ohio	23	(D)	-	-	-	-	-	-	23	(D)	-	-
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	399	26,174	19	646	-	-	373	25,400	-	-	26	774
Region 08 Lower Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
Region 09 Souris-Red-Rainy	121	17,607	-	-	-	-	83	9,867	16	6,800	22	940
Region 10 Missouri	11,483	1,680,634	751	171,032	299	59,403	3,708	449,224	1,333	283,444	7,084	967,192
Region 11 Arkansas-White-Red	1,754	305,005	187	51,337	124	54,012	792	193,667	231	26,083	834	104,299
Region 12 Texas-Gulf	476	34,330	159	14,251	94	6,458	357	30,340	20	900	119	3,090
Region 13 Rio Grande	3,218	172,691	172	21,512	85	14,040	813	112,273	469	16,482	2,336	75,511
Region 14 Upper Colorado	7,082	430,590	692	40,645	54	8,500	149	3,740	893	68,810	6,179	362,575
Region 15 Lower Colorado	1,093	337,052	118	97,103	45	37,807	336	110,739	142	15,987	726	255,651
Region 16 Great Basin	6,776	849,809	680	137,003	368	94,462	1,210	372,089	791	66,206	5,142	436,221
Region 17 Pacific Northwest	13,080	1,574,264	1,099	164,512	296	64,049	2,831	487,332	1,891	222,784	9,029	887,540
Region 18 California	2,648	704,820	258	121,827	151	83,410	1,323	335,781	462	114,635	1,440	373,243
Region 19 Alaska	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Region 20 Hawaii	3	27	-	-	-	-	-	-	3	27	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	All other hay (dry hay, greenchop, and silage)												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	25,402 28,142	3,263,946 3,300,889	2,348 2,167	408,310 394,785	667 340	111,137 58,107	7,074 7,966	1,077,251 1,123,754	4,672 5,578	750,536 803,159	15,157 16,207	1,611,602 1,604,734
2018 DATA													
Alabama		50	425	-	(D)	-	-	25	375	25	50	-	-
Alaska		4	713	-	(D)	-	-	4	713	-	-	-	-
Arizona		251	44,101	56	14,170	1	(D)	119	14,597	35	3,586	155	30,412
Arkansas		93	7,205	5	(D)	-	-	27	1,285	66	5,920	-	-
California		1,961	557,566	208	93,873	129	48,195	777	260,095	392	99,482	1,248	314,691
Colorado		3,917	362,160	150	22,659	1	(D)	499	58,803	770	115,774	2,776	199,708
Connecticut		-	-	-	-	-	-	-	-	-	-	-	-
Delaware		-	-	-	-	-	-	-	-	-	-	-	-
Florida		179	35,676	-	-	-	-	109	6,489	62	7,737	8	21,450
Georgia		214	20,251	-	-	-	-	108	15,655	83	4,276	24	720
Hawaii		-	-	-	-	-	-	-	-	-	-	-	-
Idaho		1,701	156,806	81	6,892	43	1,030	123	33,570	400	27,074	1,236	98,379
Illinois		12	1,800	-	-	-	-	12	1,800	-	-	-	-
Indiana		9	540	-	-	-	-	9	(D)	9	(D)	-	-
Iowa		-	-	-	-	-	-	-	-	-	-	-	-
Kansas		355	47,827	8	4,020	-	-	325	45,697	33	3,675	19	3,450
Kentucky		-	-	-	-	-	-	-	-	-	-	-	-
Louisiana		49	2,506	-	-	-	-	14	280	35	2,226	-	-
Maine		-	-	-	-	-	-	-	-	-	-	-	-
Maryland		41	1,133	-	-	-	-	-	-	41	1,133	-	-
Massachusetts		-	-	-	-	-	-	-	-	-	-	-	-
Michigan		-	-	-	-	-	-	-	-	-	-	-	-
Minnesota		-	-	-	-	-	-	-	-	-	-	-	-
Mississippi		31	2,284	-	-	-	-	12	120	19	2,164	-	-
Missouri		72	4,160	-	-	-	-	24	1,328	48	2,832	8	480
Montana		2,035	332,932	192	23,780	57	2,065	106	7,297	462	122,311	1,474	203,324
Nebraska		829	94,336	80	14,736	14	3,052	690	85,572	90	6,331	99	5,630
Nevada		417	150,331	72	16,142	15	8,327	155	39,799	167	82,675	186	33,671
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		2	(D)	-	-	-	-	2	(D)	2	(D)	-	-
New Mexico		1,957	101,446	143	19,704	71	8,055	751	70,756	112	7,126	1,251	32,120
New York		-	-	-	-	-	-	-	-	-	-	-	-
North Carolina		92	3,036	-	-	-	-	-	-	92	3,036	-	-
North Dakota		63	3,707	-	-	-	-	63	3,707	-	-	-	-
Ohio		-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma		280	44,201	68	10,225	-	-	226	39,595	28	3,306	26	1,300
Oregon		3,363	276,496	237	14,945	70	538	476	47,604	676	75,456	2,272	154,312
Pennsylvania		-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island		-	-	-	-	-	-	-	-	-	-	-	-
South Carolina		76	1,445	-	-	-	-	51	1,045	-	-	25	400
South Dakota		84	20,349	19	8,569	-	-	1	(D)	-	-	84	19,737
Tennessee		21	1,680	-	-	-	-	21	1,680	-	-	-	-
Texas		2,341	275,863	480	70,470	121	18,800	1,676	245,446	221	22,564	529	13,233
Utah		1,924	133,745	152	14,382	27	(D)	174	16,930	255	10,403	1,650	109,565
Vermont		-	-	-	-	-	-	-	-	-	-	-	-
Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Washington		1,204	149,317	231	53,489	97	19,851	327	40,049	204	10,973	764	99,017
West Virginia		20	(D)	-	-	-	-	20	(D)	-	-	-	-
Wisconsin		4	1,440	1	(D)	-	-	4	1,440	-	-	-	-
Wyoming		1,751	428,427	164	18,284	21	420	144	34,403	345	130,251	1,323	270,003
Water Resources Regions													
Region 01 New England		-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic		43	1,155	-	-	-	-	2	(D)	43	1,155	-	-
Region 03 South Atlantic-Gulf		617	63,067	-	-	-	-	305	23,684	256	17,213	57	22,570
Region 04 Great Lakes		-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio		32	1,820	-	-	-	-	32	1,820	-	-	-	-
Region 06 Tennessee		25	50	-	-	-	-	-	-	25	50	-	-
Region 07 Upper Mississippi		29	2,220	1	(D)	-	-	21	1,875	17	345	-	-
Region 08 Lower Mississippi		84	3,276	-	-	-	-	49	2,210	35	1,066	-	-
Region 09 Souris-Red-Rainy		31	2,077	-	-	-	-	31	2,077	-	-	-	-
Region 10 Missouri		4,788	710,252	396	62,389	68	4,889	1,380	145,095	726	202,602	2,806	368,903
Region 11 Arkansas-White-Red		1,475	233,157	198	58,168	32	3,240	845	193,929	225	22,756	424	22,682
Region 12 Texas-Gulf		2,040	219,664	361	40,555	89	15,560	1,434	194,767	250	27,874	450	7,673
Region 13 Rio Grande		1,630	71,023	124	9,178	38	3,930	601	31,373	71	1,333	1,135	51,348
Region 14 Upper Colorado		3,185	364,806	96	(D)	1	(D)	143	(D)	656	127,496	2,518	221,173
Region 15 Lower Colorado		409	52,440	89	18,295	34	(D)	186	20,082	50	3,766	231	33,086
Region 16 Great Basin		2,117	297,058	219	29,159	42	8,678	329	68,724	429	73,623	1,593	165,298
Region 17 Pacific Northwest		6,818	667,792	650	84,935	234	22,067	865	102,234	1,492	169,480	4,639	396,977
Region 18 California		2,075	573,376	213	95,238	129	48,195	847	267,165	397	101,777	1,304	321,892
Region 19 Alaska		4	713	1	(D)	-	-	4	713	-	-	-	-
Region 20 Hawaii		-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Peanuts												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	1,701 1,605	460,155 371,634	126 106	27,220 20,650	108 67	29,124 12,623	1,427 1,342	417,239 329,190	428 379	60,826 51,821	6 23	600 2,889
2018 DATA													
Alabama		85	18,150	-	-	-	-	70	15,585	29	10,360	-	-
Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Arizona		-	-	-	-	-	-	-	-	-	-	-	-
Arkansas		43	18,553	5	(D)	-	-	43	17,503	7	1,050	-	-
California		3	3	3	3	-	-	3	3	-	-	-	-
Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Connecticut		-	-	-	-	-	-	-	-	-	-	-	-
Delaware		-	-	-	-	-	-	-	-	-	-	-	-
Florida		164	55,617	33	4,362	3	3,615	164	55,617	-	-	-	-
Georgia		849	247,135	12	6,822	55	13,343	692	213,792	279	39,498	6	600
Hawaii		-	-	-	-	-	-	-	-	-	-	-	-
Idaho		-	-	-	-	-	-	-	-	-	-	-	-
Illinois		-	-	-	-	-	-	-	-	-	-	-	-
Indiana		-	-	-	-	-	-	-	-	-	-	-	-
Iowa		-	-	-	-	-	-	-	-	-	-	-	-
Kansas		-	-	-	-	-	-	-	-	-	-	-	-
Kentucky		-	-	-	-	-	-	-	-	-	-	-	-
Louisiana		19	3,040	-	-	-	-	6	960	13	2,080	-	-
Maine		-	-	-	-	-	-	-	-	-	-	-	-
Maryland		-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts		-	-	-	-	-	-	-	-	-	-	-	-
Michigan		-	-	-	-	-	-	-	-	-	-	-	-
Minnesota		-	-	-	-	-	-	-	-	-	-	-	-
Mississippi		11	1,425	-	-	-	-	11	1,425	-	-	-	-
Missouri		-	-	-	-	-	-	-	-	-	-	-	-
Montana		-	-	-	-	-	-	-	-	-	-	-	-
Nebraska		-	-	-	-	-	-	-	-	-	-	-	-
Nevada		-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		-	-	-	-	-	-	-	-	-	-	-	-
New Mexico		24	4,272	1	(D)	-	-	24	4,272	-	-	-	-
New York		-	-	-	-	-	-	-	-	-	-	-	-
North Carolina		54	2,306	-	-	-	-	-	-	54	2,306	-	-
North Dakota		-	-	-	-	-	-	-	-	-	-	-	-
Ohio		-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma		17	2,265	-	-	-	-	17	2,265	-	-	-	-
Oregon		-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania		-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island		-	-	-	-	-	-	-	-	-	-	-	-
South Carolina		124	17,791	-	-	-	-	111	16,241	13	1,550	-	-
South Dakota		-	-	-	-	-	-	-	-	-	-	-	-
Tennessee		22	22	-	-	-	-	-	-	22	22	-	-
Texas		286	89,576	72	14,306	50	12,166	286	89,576	11	3,960	-	-
Utah		-	-	-	-	-	-	-	-	-	-	-	-
Vermont		-	-	-	-	-	-	-	-	-	-	-	-
Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Washington		-	-	-	-	-	-	-	-	-	-	-	-
West Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin		-	-	-	-	-	-	-	-	-	-	-	-
Wyoming		-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions													
Region 01 New England		-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic		-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf		1,276	340,999	45	11,184	58	16,958	1,037	301,235	375	53,714	6	600
Region 04 Great Lakes		-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio		-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee		22	22	-	-	-	-	-	-	22	22	-	-
Region 07 Upper Mississippi		-	-	-	-	-	-	-	-	-	-	-	-
Region 08 Lower Mississippi		56	19,265	5	(D)	-	-	43	17,185	13	2,080	-	-
Region 09 Souris-Red-Rainy		-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri		-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red		54	(D)	-	-	-	-	54	(D)	7	1,050	-	-
Region 12 Texas-Gulf		289	91,251	72	14,306	50	12,166	289	91,251	11	3,960	-	-
Region 13 Rio Grande		1	(D)	1	(D)	-	-	1	(D)	-	-	-	-
Region 14 Upper Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Region 16 Great Basin		-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest		-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California		3	3	3	3	-	-	3	3	-	-	-	-
Region 19 Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii		-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Cotton												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	6,918 6,804	3,697,167 2,954,457	1,394 1,663	751,823 595,950	498 284	302,550 84,809	5,766 5,856	3,181,982 2,558,510	896 716	242,212 163,429	951 971	469,060 380,937
2018 DATA													
Alabama		199	52,608	-	-	-	-	137	34,438	55	13,882	39	8,994
Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Arizona		277	164,846	116	71,957	58	31,640	121	67,130	45	25,286	177	109,754
Arkansas		410	386,089	17	10,541	17	10,541	396	375,049	31	11,440	-	-
California		461	254,785	165	92,049	82	37,890	284	154,592	107	40,526	293	168,912
Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Connecticut		-	-	-	-	-	-	-	-	-	-	-	-
Delaware		-	-	-	-	-	-	-	-	-	-	-	-
Florida		31	(D)	4	4,068	-	-	31	(D)	-	-	-	-
Georgia		1,041	463,450	107	37,664	78	23,760	840	398,273	330	51,745	24	18,600
Hawaii		-	-	-	-	-	-	-	-	-	-	-	-
Idaho		-	-	-	-	-	-	-	-	-	-	-	-
Illinois		1	(D)	-	-	-	-	1	(D)	-	-	-	-
Indiana		-	-	-	-	-	-	-	-	-	-	-	-
Iowa		-	-	-	-	-	-	-	-	-	-	-	-
Kansas		127	40,974	15	7,036	4	3,872	124	40,254	-	-	3	720
Kentucky		-	-	-	-	-	-	-	-	-	-	-	-
Louisiana		75	33,908	7	2,450	7	2,450	75	31,248	14	2,660	-	-
Maine		-	-	-	-	-	-	-	-	-	-	-	-
Maryland		-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts		-	-	-	-	-	-	-	-	-	-	-	-
Michigan		-	-	-	-	-	-	-	-	-	-	-	-
Minnesota		-	-	-	-	-	-	-	-	-	-	-	-
Mississippi		235	209,107	-	-	-	-	203	193,449	43	29,094	-	-
Missouri		204	208,092	-	-	-	-	204	208,092	10	12,000	-	-
Montana		-	-	-	-	-	-	-	-	-	-	-	-
Nebraska		-	-	-	-	-	-	-	-	-	-	-	-
Nevada		-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		-	-	-	-	-	-	-	-	-	-	-	-
New Mexico		230	51,304	37	5,442	-	-	140	39,967	-	-	91	11,588
New York		-	-	-	-	-	-	-	-	-	-	-	-
North Carolina		101	14,202	-	-	-	-	11	3,100	92	11,102	-	-
North Dakota		-	-	-	-	-	-	-	-	-	-	-	-
Ohio		-	-	-	-	-	-	-	-	-	-	-	-
Oklahoma		250	113,902	85	36,775	3	540	185	83,382	4	1,280	65	29,240
Oregon		-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania		-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island		-	-	-	-	-	-	-	-	-	-	-	-
South Carolina		199	39,558	-	-	-	-	187	33,598	16	6,095	-	-
South Dakota		-	-	-	-	-	-	-	-	-	-	-	-
Tennessee		93	23,539	-	-	-	-	71	23,517	22	22	-	-
Texas		2,974	1,632,965	841	483,841	249	191,857	2,746	1,488,265	117	36,870	259	121,252
Utah		-	-	-	-	-	-	-	-	-	-	-	-
Vermont		-	-	-	-	-	-	-	-	-	-	-	-
Virginia		10	400	-	-	-	-	10	190	10	210	-	-
Washington		-	-	-	-	-	-	-	-	-	-	-	-
West Virginia		-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin		-	-	-	-	-	-	-	-	-	-	-	-
Wyoming		-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions													
Region 01 New England		-	-	-	-	-	-	-	-	-	-	-	-
Region 02 Mid-Atlantic		-	-	-	-	-	-	-	-	-	-	-	-
Region 03 South Atlantic-Gulf		1,504	570,825	111	41,732	78	23,760	1,154	466,416	495	89,340	27	21,228
Region 04 Great Lakes		-	-	-	-	-	-	-	-	-	-	-	-
Region 05 Ohio		-	-	-	-	-	-	-	-	-	-	-	-
Region 06 Tennessee		131	(D)	-	-	-	-	68	(D)	56	7,634	36	6,366
Region 07 Upper Mississippi		1	(D)	-	-	-	-	1	(D)	-	-	-	-
Region 08 Lower Mississippi		950	844,580	24	12,991	24	12,991	930	829,140	72	41,276	-	-
Region 09 Souris-Red-Rainy		-	-	-	-	-	-	-	-	-	-	-	-
Region 10 Missouri		-	-	-	-	-	-	-	-	-	-	-	-
Region 11 Arkansas-White-Red		1,059	522,693	302	129,051	71	22,362	991	491,453	28	7,680	68	29,960
Region 12 Texas-Gulf		2,309	1,270,679	621	386,684	180	173,307	2,105	1,147,051	74	30,280	216	100,028
Region 13 Rio Grande		226	47,646	55	17,359	5	600	112	15,237	19	190	134	32,812
Region 14 Upper Colorado		-	-	-	-	-	-	-	-	-	-	-	-
Region 15 Lower Colorado		285	169,313	121	75,287	58	31,640	121	67,130	45	25,286	185	114,221
Region 16 Great Basin		-	-	-	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest		-	-	-	-	-	-	-	-	-	-	-	-
Region 18 California		453	250,318	160	88,719	82	37,890	284	154,592	107	40,526	285	164,445
Region 19 Alaska		-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii		-	-	-	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Land in vegetables												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	23,087 24,157	3,127,705 2,993,600	3,695 3,366	1,251,019 1,045,264	1,456 1,192	605,283 574,574	13,757 15,012	1,709,434 1,843,498	5,542 5,427	437,063 433,528	6,069 6,375	1,135,408 1,062,561
2018 DATA													
Alabama		229	14,532	8	8	25	125	151	5,278	53	9,129	25	125
Alaska		70	375	2	(D)	-	-	55	365	5	11	11	4
Arizona		202	133,733	7	74,486	22	44,915	58	32,014	39	8,797	139	112,181
Arkansas		143	14,993	15	161	-	-	81	14,786	28	161	38	46
California		2,015	975,424	765	529,867	242	188,181	1,153	506,090	256	87,631	997	486,039
Colorado		475	52,390	12	24,376	8	5,724	230	48,010	94	2,886	222	4,324
Connecticut		191	693	4	80	4	80	104	388	90	311	-	-
Delaware		79	14,293	10	747	5	401	76	13,643	5	928	-	-
Florida		741	172,039	189	40,558	157	34,280	727	119,187	37	38,561	36	14,475
Georgia		467	77,134	23	8,694	-	-	366	55,846	123	21,158	29	1,710
Hawaii		337	5,055	50	648	9	334	35	(D)	7	(D)	297	4,221
Idaho		945	317,115	254	109,882	95	47,766	370	116,473	159	31,767	534	169,807
Illinois		379	22,988	38	2,457	-	-	336	22,661	75	707	5	8
Indiana		404	37,099	123	15,290	30	9,188	319	33,308	71	(D)	18	(D)
Iowa		214	4,727	29	211	5	20	158	2,758	43	1,934	18	40
Kansas		172	3,036	-	-	-	-	114	2,945	11	22	58	(D)
Kentucky		493	3,821	162	852	36	334	43	181	309	2,521	163	1,119
Louisiana		101	18,798	10	20	-	-	57	18,715	13	26	31	57
Maine		462	15,979	23	2,000	7	1,930	299	548	249	13,085	12	2,417
Maryland		408	19,262	22	814	13	724	323	15,865	114	5,672	-	-
Massachusetts		364	2,971	39	51	-	-	225	1,699	136	2,229	44	44
Michigan		974	121,194	102	3,148	1	(D)	787	98,471	230	23,495	39	122
Minnesota		418	55,436	39	22,638	8	4,020	329	53,858	97	1,899	14	28
Mississippi		198	5,602	11	28	6	18	150	5,324	34	252	35	(D)
Missouri		608	6,848	131	680	52	272	334	4,836	235	1,606	120	568
Montana		271	7,532	10	1,142	8	82	141	307	73	674	105	6,621
Nebraska		201	21,317	42	20,642	15	20,484	184	21,264	-	-	17	53
Nevada		34	3,622	4	(D)	4	(D)	8	(D)	14	35	12	(D)
New Hampshire		219	1,313	4	40	-	-	172	525	46	514	41	505
New Jersey		737	31,376	93	4,087	28	273	530	24,951	231	7,240	59	562
New Mexico		764	14,459	8	10,230	5	1,250	363	7,622	100	387	446	11,712
New York		713	18,612	52	737	3	45	377	6,496	311	10,062	159	3,588
North Carolina		648	53,854	102	512	45	198	314	3,901	324	49,774	109	687
North Dakota		62	22,404	1	(D)	-	-	23	16,058	6	8,858	39	61
Ohio		654	10,557	59	1,265	32	1,025	279	5,427	314	4,490	145	728
Oklahoma		336	7,041	15	15	-	-	224	6,304	75	688	37	49
Oregon		1,220	117,103	106	35,919	85	36,039	661	40,321	222	9,530	406	67,252
Pennsylvania		1,131	26,369	259	1,997	119	539	714	21,851	376	4,333	126	620
Rhode Island		99	1,348	8	48	-	-	84	401	17	55	15	902
South Carolina		496	42,781	79	8,338	4	4	407	37,209	49	6,632	59	143
South Dakota		94	355	-	-	-	-	62	(D)	7	28	34	262
Tennessee		335	3,929	50	210	22	154	86	(D)	134	245	115	(D)
Texas		705	128,652	174	77,318	86	69,690	450	66,029	99	48,446	161	16,758
Utah		402	4,302	81	513	54	486	75	482	34	(D)	392	3,942
Vermont		232	1,505	34	61	-	-	111	295	106	594	37	637
Virginia		468	12,751	45	603	23	115	209	4,333	192	8,400	67	18
Washington		1,244	292,946	211	144,465	122	119,228	744	70,184	87	8,516	489	216,076
West Virginia		149	5,798	3	6	50	44	34	388	83	5,405	40	6
Wisconsin		703	200,869	114	96,807	16	13,980	597	195,638	119	5,131	21	304
Wyoming		81	1,372	10	1,250	10	1,250	28	36	10	1,250	53	1,336
Water Resources Regions													
Region 01 New England		1,434	23,068	78	2,219	11	2,010	953	3,793	551	16,332	137	4,269
Region 02 Mid-Atlantic		2,826	113,785	407	7,974	142	1,833	1,908	82,191	938	34,953	204	1,004
Region 03 South Atlantic-Gulf		2,754	361,043	396	57,863	248	34,572	2,143	222,436	557	124,957	303	17,198
Region 04 Great Lakes		2,064	165,170	252	13,794	26	2,367	1,358	129,656	675	33,496	262	4,552
Region 05 Ohio		1,619	42,465	308	11,221	162	10,244	579	32,487	811	5,565	356	4,538
Region 06 Tennessee		372	1,493	89	600	34	322	109	425	165	859	98	209
Region 07 Upper Mississippi		1,524	261,276	195	116,378	26	16,438	1,246	252,815	284	8,545	63	416
Region 08 Lower Mississippi		273	45,308	23	(D)	-	-	194	45,008	38	193	45	107
Region 09 Souris-Red-Rainy		105	10,108	4	7,529	-	-	34	9,528	23	822	51	88
Region 10 Missouri		1,150	66,341	190	42,252	74	23,007	681	52,866	273	12,163	353	5,341
Region 11 Arkansas-White-Red		732	27,964	23	8,172	5	7,793	494	25,966	119	770	154	1,274
Region 12 Texas-Gulf		672	63,080	146	20,418	64	13,900	429	48,448	79	446	169	16,766
Region 13 Rio Grande		590	83,729	35	58,921	29	54,010	298	35,051	141	51,197	310	5,543
Region 14 Upper Colorado		323	6,596	2	(D)	-	-	24	(D)	30	(D)	276	6,526
Region 15 Lower Colorado		244	144,729	75	85,031	22	44,915	93	32,824	39	8,797	146	122,366
Region 16 Great Basin		407	17,489	91	7,149	64	5,922	83	2,341	41	278	375	15,235
Region 17 Pacific Northwest		3,581	724,193	569	286,528	298	199,435	1,890	227,122	510	49,963	1,465	449,896
Region 18 California		2,010	964,439	760	519,322	242	188,181	1,151	505,290	256	87,631	994	475,854
Region 19 Alaska		70	375	2	(D)	-	-	55	365	5	11	11	4
Region 20 Hawaii		337	5,055	50	648	9	334	35	(D)	7	(D)	297	4,221

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Sweet corn											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 5,476	285,749	708	110,117	234	41,535	3,058	167,972	1,562	32,385	1,060	87,579
	2013 5,923	321,992	582	101,058	151	30,281	3,335	198,173	1,704	54,934	1,283	83,306
2018 DATA												
Alabama	66	629	-	-	-	-	41	(D)	25	(D)	-	-
Alaska	10	1	-	-	-	-	10	1	-	-	-	-
Arizona	16	16	-	-	-	-	-	-	-	-	16	16
Arkansas	9	18	4	8	-	-	5	10	4	8	-	-
California	205	19,166	72	11,595	13	2,939	154	7,420	10	1,546	57	11,973
Colorado	144	3,050	-	-	8	(D)	84	758	-	-	64	2,292
Connecticut	71	92	-	-	-	-	1	(D)	70	(D)	-	-
Delaware	55	10,184	7	1,160	7	1,160	52	9,584	4	878	-	-
Florida	141	20,610	54	2,165	27	5	131	(D)	1	(D)	9	10,000
Georgia	114	23,965	47	8,790	24	24	114	23,965	-	-	-	-
Hawaii	1	(D)	-	-	-	-	1	(D)	-	-	-	-
Idaho	196	3,178	-	-	-	-	50	(D)	67	(D)	79	2,291
Illinois	64	6,268	1	(D)	-	-	64	6,268	-	-	-	-
Indiana	94	5,461	9	1,201	8	1,200	74	5,253	19	(D)	1	(D)
Iowa	45	1,676	-	-	-	-	45	1,676	-	-	-	-
Kansas	49	86	-	-	-	-	45	86	-	-	4	(D)
Kentucky	59	306	2	(D)	2	(D)	6	8	31	278	22	20
Louisiana	63	168	-	-	-	-	37	141	13	26	13	1
Maine	126	1,163	3	(Z)	-	-	47	10	113	1,156	-	-
Maryland	175	12,555	62	4,896	-	-	121	9,966	82	2,589	-	-
Massachusetts	77	482	-	-	-	-	-	-	77	482	-	-
Michigan	233	1,469	-	-	-	-	169	(D)	64	(D)	-	-
Minnesota	181	17,942	23	5,028	-	-	162	17,752	19	190	-	-
Mississippi	75	164	-	-	-	-	56	148	23	23	12	8
Missouri	86	228	11	66	11	66	36	119	42	101	8	8
Montana	57	83	10	34	6	9	25	35	13	4	25	44
Nebraska	61	233	-	-	-	-	57	229	-	-	4	4
Nevada	17	5	3	2	3	2	-	-	14	3	3	2
New Hampshire	9	152	-	-	-	-	-	-	8	(D)	1	(D)
New Jersey	158	3,617	50	560	-	-	50	1,687	50	1,473	59	457
New Mexico	176	120	-	-	-	-	33	3	33	17	110	101
New York	238	3,504	22	18	-	-	102	454	134	2,996	26	117
North Carolina	170	347	26	3	-	-	89	61	81	281	27	8
North Dakota	40	18	-	-	-	-	5	8	-	-	35	10
Ohio	201	2,815	23	230	-	-	102	1,599	57	1,198	43	36
Oklahoma	53	2,343	26	2,340	-	-	53	2,343	-	-	-	-
Oregon	344	21,363	1	(D)	1	(D)	207	6,981	41	3,038	107	11,344
Pennsylvania	292	2,684	16	401	3	313	150	1,490	141	1,081	3	117
Rhode Island	13	77	-	-	-	-	12	(D)	-	-	1	(D)
South Carolina	144	948	-	-	-	-	114	869	30	79	-	-
South Dakota	36	257	-	-	-	-	-	-	7	14	29	243
Tennessee	136	679	29	(D)	22	33	1	(D)	85	(D)	50	42
Texas	69	2,881	19	13	-	-	8	2,700	39	162	22	19
Utah	95	341	27	27	27	27	34	28	27	27	61	313
Vermont	25	97	4	6	-	-	4	24	16	(D)	5	9
Virginia	124	4,638	22	110	-	-	31	35	71	4,601	22	2
Washington	432	60,256	83	(D)	54	(D)	277	(D)	19	(D)	142	47,960
West Virginia	3	3	-	-	-	-	3	3	-	-	-	-
Wisconsin	228	49,107	52	26,200	18	4,518	196	47,472	32	1,635	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	304	2,011	3	(Z)	-	-	64	(D)	272	1,828	2	(D)
Region 02 Mid-Atlantic	819	34,844	177	7,125	10	1,473	432	22,820	357	11,731	62	574
Region 03 South Atlantic-Gulf	727	46,747	127	10,958	51	29	545	29,153	183	7,602	42	10,011
Region 04 Great Lakes	469	11,335	33	3,370	15	(D)	286	8,069	172	3,179	35	150
Region 05 Ohio	388	6,581	36	1,453	10	1,204	138	5,675	169	883	82	41
Region 06 Tennessee	116	74	29	34	22	33	22	11	43	27	51	36
Region 07 Upper Mississippi	492	69,485	47	28,864	3	(D)	446	67,642	37	1,810	9	33
Region 08 Lower Mississippi	61	744	4	8	-	-	38	704	17	34	6	6
Region 09 Souris-Red-Rainy	37	10	-	-	-	-	2	(D)	-	-	35	10
Region 10 Missouri	324	3,821	19	76	17	75	188	1,150	51	116	89	2,555
Region 11 Arkansas-White-Red	144	2,429	26	2,340	8	1	107	2,404	-	-	37	25
Region 12 Texas-Gulf	69	2,881	19	13	-	-	8	2,700	39	162	22	19
Region 13 Rio Grande	76	(D)	-	-	-	-	-	-	33	17	43	(D)
Region 14 Upper Colorado	80	81	-	-	-	-	-	-	-	-	80	81
Region 15 Lower Colorado	49	19	-	-	-	-	33	3	-	-	16	16
Region 16 Great Basin	112	346	30	29	30	29	34	28	41	30	64	315
Region 17 Pacific Northwest	993	84,827	86	44,251	55	31,233	550	19,813	138	3,420	328	61,595
Region 18 California	205	19,166	72	11,595	13	2,939	154	7,420	10	1,546	57	11,973
Region 19 Alaska	10	1	-	-	-	-	10	1	-	-	-	-
Region 20 Hawaii	1	(D)	-	-	-	-	1	(D)	-	-	-	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Tomatoes in the open											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 8,879	288,114	1,246	162,695	433	40,017	4,984	147,928	2,269	45,702	2,061	128,300
	2013 10,496	358,985	1,487	154,006	380	101,448	6,929	193,759	1,990	36,394	2,172	187,987
2018 DATA												
Alabama	104	1,174	-	-	25	125	79	174	25	1,000	-	-
Alaska	12	2	-	-	-	-	3	1	-	-	9	1
Arizona	16	2	-	-	-	-	-	-	16	2	-	-
Arkansas	63	170	9	48	-	-	33	124	18	43	12	3
California	1,007	240,734	247	147,449	45	27,628	550	109,718	93	37,965	516	126,734
Colorado	186	104	-	-	-	-	79	13	23	7	84	84
Connecticut	127	73	-	-	-	-	71	65	56	8	-	-
Delaware	8	5	4	4	-	-	8	5	-	-	-	-
Florida	181	21,795	56	7,281	56	7,276	181	21,795	-	-	-	-
Georgia	98	141	-	-	-	-	94	41	4	100	-	-
Hawaii	34	(D)	-	-	-	-	-	-	-	-	34	(D)
Idaho	151	49	-	-	-	-	95	36	24	2	34	11
Illinois	135	157	20	95	-	-	112	151	38	17	-	-
Indiana	160	2,427	67	75	22	2	116	2,292	29	136	16	2
Iowa	83	(D)	5	5	-	-	65	(D)	-	-	18	2
Kansas	73	81	-	-	-	-	44	56	11	11	29	(D)
Kentucky	264	346	143	243	31	49	15	22	205	286	44	38
Louisiana	60	69	10	10	-	-	37	53	-	-	23	16
Maine	105	23	7	7	-	-	82	9	51	(D)	3	(D)
Maryland	170	503	29	128	29	128	86	378	93	125	-	-
Massachusetts	261	226	39	39	-	-	137	103	96	118	28	6
Michigan	509	5,508	43	781	-	-	418	2,540	91	2,968	-	-
Minnesota	100	76	-	-	-	-	81	73	19	4	-	-
Mississippi	135	209	6	12	11	10	98	144	29	55	24	52
Missouri	267	204	71	82	26	26	139	141	112	48	32	(D)
Montana	102	38	4	4	6	2	39	4	51	19	35	27
Nebraska	73	37	-	-	-	-	73	37	-	-	-	-
Nevada	21	4	3	3	3	2	2	(D)	14	(D)	5	2
New Hampshire	16	14	8	11	7	7	14	(D)	1	(D)	1	(D)
New Jersey	333	1,905	109	555	28	195	227	1,431	93	435	36	41
New Mexico	323	163	-	-	-	-	140	(D)	67	(D)	190	103
New York	337	500	55	129	22	2	163	105	145	360	29	35
North Carolina	204	550	30	354	12	168	131	69	73	478	27	5
North Dakota	38	9	-	-	-	-	5	2	-	-	33	7
Ohio	325	1,029	47	127	-	-	81	653	156	312	111	63
Oklahoma	227	296	36	36	25	13	165	116	50	175	12	5
Oregon	372	271	-	-	-	-	194	191	84	35	94	45
Pennsylvania	344	761	49	478	7	17	181	391	95	356	72	14
Rhode Island	30	100	9	54	-	-	29	(D)	1	(D)	1	(D)
South Carolina	176	4,808	12	4,320	12	4,320	151	4,758	-	-	25	50
South Dakota	41	13	-	-	-	-	31	12	-	-	12	1
Tennessee	262	277	42	42	22	4	85	227	106	32	71	18
Texas	250	204	20	20	-	-	114	108	40	60	96	36
Utah	106	186	-	-	-	-	7	1	27	27	72	158
Vermont	25	16	5	5	-	-	16	(D)	14	15	-	-
Virginia	235	1,755	22	220	-	-	33	(D)	135	(D)	67	11
Washington	285	111	-	-	-	-	199	92	3	(Z)	83	19
West Virginia	92	32	3	3	27	14	2	(D)	50	25	40	(D)
Wisconsin	310	273	36	75	17	31	279	239	31	35	-	-
Wyoming	43	46	-	-	-	-	-	-	-	-	43	46
Water Resources Regions												
Region 01 New England	543	439	63	111	7	7	335	236	207	185	33	21
Region 02 Mid-Atlantic	1,125	5,001	217	1,384	62	335	633	3,659	439	1,287	89	57
Region 03 South Atlantic-Gulf	856	28,215	92	11,631	99	11,730	698	26,934	109	1,230	92	96
Region 04 Great Lakes	1,006	6,652	159	1,000	37	23	670	3,342	253	3,251	88	64
Region 05 Ohio	811	2,722	238	433	82	69	183	1,935	440	702	211	85
Region 06 Tennessee	274	732	54	378	34	172	74	221	124	495	76	16
Region 07 Upper Mississippi	557	943	25	108	12	11	458	834	97	112	26	(D)
Region 08 Lower Mississippi	132	325	19	58	5	1	87	271	15	15	30	40
Region 09 Souris-Red-Rainy	35	7	-	-	-	-	2	(D)	-	-	33	7
Region 10 Missouri	470	304	70	81	19	25	277	162	96	48	130	111
Region 11 Arkansas-White-Red	365	398	39	39	28	14	250	155	70	220	56	33
Region 12 Texas-Gulf	238	187	20	20	-	-	102	91	40	60	96	36
Region 13 Rio Grande	223	109	-	-	-	-	107	(D)	67	51	123	52
Region 14 Upper Colorado	154	(D)	-	-	-	-	-	-	23	7	131	(D)
Region 15 Lower Colorado	53	605	2	(D)	-	-	35	603	16	2	2	(D)
Region 16 Great Basin	125	190	3	(D)	3	2	9	2	41	28	75	160
Region 17 Pacific Northwest	861	441	-	-	-	-	513	322	139	45	211	75
Region 18 California	1,005	240,134	245	146,849	45	27,628	548	109,118	93	37,965	516	126,734
Region 19 Alaska	12	2	-	-	-	-	3	1	-	-	9	1
Region 20 Hawaii	34	(D)	-	-	-	-	-	-	-	-	34	(D)

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Lettuce and romaine												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	4,589 5,052	277,616 264,154	581 373	155,144 96,254	98 60	53,276 43,498	2,801 3,306	156,588 151,658	1,070 768	40,288 8,094	959 1,158	98,421 109,915
2018 DATA													
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	33	49	-	-	-	-	-	22	48	3	(D)	9	1
Arizona	43	44,363	31	33,462	21	19,523	9	1,041	-	-	-	38	44,362
Arkansas	20	26	8	21	4	(D)	-	-	-	6	22	14	4
California	563	198,895	144	119,244	33	33,726	370	148,537	57	15,598	-	185	49,124
Colorado	134	33	-	-	-	-	-	80	15	23	2	31	15
Connecticut	88	28	-	-	-	-	-	45	24	46	7	-	-
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	112	25,620	-	-	-	-	-	104	435	3	22,545	5	2,640
Georgia	67	14	-	-	-	-	-	67	14	-	-	-	-
Hawaii	85	328	-	-	-	-	-	1	(D)	7	35	77	288
Idaho	87	18	-	-	-	-	-	57	13	26	3	6	2
Illinois	79	99	-	-	-	-	-	62	98	32	23	-	-
Indiana	76	94	43	12	-	-	-	43	12	17	80	16	2
Iowa	18	2	-	-	-	-	-	-	-	-	-	18	2
Kansas	19	2	-	-	-	-	-	15	2	-	-	4	(D)
Kentucky	76	57	44	28	-	-	-	-	-	46	30	30	27
Louisiana	36	5	-	-	-	-	-	13	1	-	-	23	3
Maine	177	55	14	26	3	9	153	36	55	20	3	(D)	-
Maryland	80	36	-	-	-	-	-	41	14	39	22	-	-
Massachusetts	203	1,055	39	7	-	-	-	107	32	68	1,018	28	6
Michigan	101	2,012	-	-	-	-	-	101	2,012	-	-	-	-
Minnesota	52	21	-	-	-	-	-	34	18	18	4	-	-
Mississippi	55	45	-	-	-	-	-	49	44	16	16	6	1
Missouri	62	25	-	-	-	-	-	42	22	12	2	8	1
Montana	103	33	6	1	6	1	40	5	55	23	33	22	-
Nebraska	58	14	9	(D)	-	-	58	14	-	-	-	-	-
Nevada	19	2	3	1	3	1	-	-	-	14	1	5	1
New Hampshire	7	7	7	-	-	-	-	-	-	-	-	7	7
New Jersey	145	2,052	51	619	-	-	-	109	1,978	45	572	13	52
New Mexico	101	1,653	5	1,635	-	-	-	55	1,647	-	-	58	1,645
New York	185	93	44	4	-	-	-	94	45	88	42	3	6
North Carolina	127	32	7	1	-	-	-	81	24	46	7	27	5
North Dakota	9	5	-	-	-	-	-	5	4	-	-	4	(Z)
Ohio	89	37	2	(D)	-	-	-	18	16	16	16	71	21
Oklahoma	29	4	-	-	-	-	-	27	(D)	-	-	2	(D)
Oregon	360	200	-	-	-	-	-	178	49	87	20	95	131
Pennsylvania	73	48	8	5	2	(D)	57	34	12	13	6	3	-
Rhode Island	29	41	8	24	-	-	-	29	41	-	-	-	-
South Carolina	48	8	-	-	-	-	-	34	7	-	-	14	1
South Dakota	12	2	-	-	-	-	-	9	1	-	-	12	2
Tennessee	49	5	28	3	-	-	-	-	-	42	4	7	1
Texas	113	90	20	20	-	-	-	62	49	20	20	31	22
Utah	27	27	-	-	-	-	-	-	-	27	27	-	-
Vermont	57	59	-	-	-	-	-	40	28	19	32	2	(D)
Virginia	143	90	22	4	-	-	-	32	13	89	75	22	2
Washington	314	155	9	5	-	-	-	256	132	12	6	46	17
West Virginia	29	14	29	14	26	13	23	12	6	2	2	-	-
Wisconsin	196	65	-	-	-	-	-	178	63	18	2	-	-
Wyoming	1	(D)	-	-	-	-	-	1	(D)	-	-	-	-
Water Resources Regions													
Region 01 New England	521	1,203	68	64	3	9	346	135	178	1,060	38	16	-
Region 02 Mid-Atlantic	493	2,234	104	631	2	(D)	312	2,068	188	663	17	55	-
Region 03 South Atlantic-Gulf	377	25,686	7	1	-	-	303	491	65	22,568	52	2,648	-
Region 04 Great Lakes	294	2,117	46	5	-	-	211	2,065	55	34	28	18	-
Region 05 Ohio	289	235	75	42	26	13	63	39	146	173	96	39	-
Region 06 Tennessee	62	17	28	3	-	-	12	12	21	2	29	3	-
Region 07 Upper Mississippi	316	183	18	9	-	-	251	176	62	27	18	2	-
Region 08 Lower Mississippi	52	45	4	20	-	-	33	23	4	20	15	3	-
Region 09 Souris-Red-Rainy	24	4	-	-	-	-	2	(D)	18	4	4	(Z)	-
Region 10 Missouri	226	65	15	2	6	(D)	160	41	25	12	73	25	-
Region 11 Arkansas-White-Red	93	20	4	1	4	1	67	(D)	2	(D)	24	6	-
Region 12 Texas-Gulf	113	90	20	20	-	-	62	49	20	20	31	22	-
Region 13 Rio Grande	101	1,653	5	1,635	-	-	55	1,647	-	-	58	1,645	-
Region 14 Upper Colorado	36	12	-	-	-	-	-	-	23	2	13	10	-
Region 15 Lower Colorado	45	44,363	31	33,462	21	19,523	9	1,041	-	-	40	44,362	-
Region 16 Great Basin	44	29	3	1	3	1	-	-	41	28	3	1	-
Region 17 Pacific Northwest	822	388	9	5	-	-	522	199	155	39	149	156	-
Region 18 California	563	198,895	144	119,244	33	33,726	370	148,537	57	15,598	185	49,124	-
Region 19 Alaska	33	49	-	-	-	-	22	48	3	(D)	9	1	-
Region 20 Hawaii	85	328	-	-	-	-	1	(D)	7	35	77	288	-

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Potatoes, excluding sweet potatoes												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	5,361 5,596	866,288 903,297	914 864	417,732 446,114	466 492	211,425 256,388	3,095 3,727	457,307 592,169	1,220 1,054	66,273 100,654	1,371 1,406	352,375 282,442
2018 DATA													
Alabama		22	33	-	-	-	-	22	33	-	-	-	-
Alaska		41	203	-	-	-	-	30	202	-	-	11	2
Arizona		22	3,109	16	1,808	-	-	21	(D)	-	-	-	(D)
Arkansas		12	5	8	3	4	1	-	-	4	2	8	3
California		252	25,442	72	20,733	47	14,793	96	2,739	25	22	157	23,430
Colorado		171	46,579	12	23,724	8	5,724	102	46,488	16	2,800	67	91
Connecticut		13	4	-	-	-	-	-	-	13	4	-	-
Delaware		1	(D)	-	-	-	-	1	(D)	1	(D)	-	-
Florida		81	4,608	27	5	27	5	81	4,608	-	-	-	-
Georgia		99	113	-	-	-	-	99	113	-	-	-	-
Hawaii		33	17	-	-	-	-	-	-	-	-	33	17
Idaho		576	296,665	231	119,252	65	49,606	261	110,519	88	30,894	318	155,762
Illinois		82	(D)	1	(D)	-	-	65	(D)	32	(D)	-	-
Indiana		69	(D)	1	(D)	-	-	19	6	33	20	17	(D)
Iowa		40	21	-	-	-	-	22	18	-	-	18	4
Kansas		50	2,381	-	-	-	-	36	2,377	-	-	14	4
Kentucky		42	68	5	7	3	3	7	5	31	60	4	2
Louisiana		13	1	-	-	-	-	13	1	-	-	-	-
Maine		238	9,195	12	1,904	4	1,900	112	18	125	6,777	3	2,400
Maryland		77	364	4	4	4	4	27	14	50	350	-	-
Massachusetts		67	359	28	(D)	-	-	28	(D)	39	(D)	-	-
Michigan		232	46,712	2	(D)	-	-	171	43,668	65	3,044	-	-
Minnesota		89	18,783	8	13,518	-	-	52	17,512	40	1,601	-	-
Mississippi		13	10	-	-	-	-	13	10	-	-	-	-
Missouri		104	2,028	20	3	2	(D)	61	2,016	35	12	8	1
Montana		152	6,923	12	1,083	6	31	50	15	34	500	91	6,420
Nebraska		79	20,530	24	20,485	15	20,484	79	20,530	-	-	-	-
Nevada		21	(D)	4	(D)	4	(D)	1	(D)	14	1	6	3
New Hampshire		-	-	-	-	-	-	-	-	-	-	-	-
New Jersey		86	1,272	13	4	-	-	62	740	4	530	23	2
New Mexico		141	(D)	1	(D)	-	-	66	10	33	17	42	(D)
New York		177	3,140	-	-	-	-	55	1,139	123	1,881	2	(D)
North Carolina		132	54	-	-	-	-	105	40	27	8	27	8
North Dakota		48	22,294	6	6,529	5	1,250	17	16,005	4	8,852	31	9
Ohio		99	170	2	(D)	-	-	43	147	18	20	54	19
Oklahoma		65	31	11	1	-	-	63	(D)	-	-	2	(D)
Oregon		344	41,695	18	15,436	18	15,436	183	3,786	47	42	120	37,867
Pennsylvania		143	1,078	50	50	48	50	102	336	40	538	9	256
Rhode Island		17	812	-	-	-	-	12	12	-	-	5	800
South Carolina		60	(D)	1	(D)	-	-	60	(D)	1	(D)	-	-
South Dakota		19	5	-	-	-	-	9	1	-	-	12	4
Tennessee		72	12	29	7	22	7	-	-	43	4	29	7
Texas		134	22,010	49	13,284	30	13,280	110	22,001	19	4	5	5
Utah		102	145	27	54	27	54	34	55	27	81	68	64
Vermont		60	71	2	(D)	-	-	45	(D)	13	(D)	5	3
Virginia		145	3,378	-	-	-	-	39	2,193	83	1,183	23	2
Washington		480	166,613	144	96,292	91	82,521	329	46,943	35	5,822	158	115,671
West Virginia		50	17	23	9	23	9	26	12	24	5	-	-
Wisconsin		295	84,234	51	46,251	13	(D)	265	83,968	34	266	-	-
Wyoming		1	(D)	-	-	-	-	1	(D)	-	-	-	-
Water Resources Regions													
Region 01 New England		346	10,391	40	1,907	4	1,900	159	62	181	7,129	8	3,200
Region 02 Mid-Atlantic		459	7,084	69	59	52	54	263	3,836	181	3,291	27	8
Region 03 South Atlantic-Gulf		422	22,887	28	(D)	27	5	372	22,805	51	577	27	8
Region 04 Great Lakes		487	58,728	29	12,417	12	12	286	53,941	185	4,398	27	628
Region 05 Ohio		265	(D)	31	19	26	12	95	(D)	126	106	60	(D)
Region 06 Tennessee		97	27	29	7	22	7	23	15	22	2	52	10
Region 07 Upper Mississippi		410	97,644	30	58,282	1	(D)	313	96,703	97	942	18	4
Region 08 Lower Mississippi		36	2,011	4	2	-	-	30	2,008	4	(D)	2	(D)
Region 09 Souris-Red-Rainy		57	9,942	4	7,529	-	-	8	9,479	21	784	31	9
Region 10 Missouri		373	56,182	65	40,734	32	22,730	234	49,230	43	9,349	125	(D)
Region 11 Arkansas-White-Red		123	18,854	17	7,792	6	7,791	115	18,850	-	-	8	4
Region 12 Texas-Gulf		131	5,556	47	5,494	28	5,490	107	5,547	19	4	5	5
Region 13 Rio Grande		103	26,782	4	(D)	4	(D)	63	26,763	47	2,817	7	3
Region 14 Upper Colorado		68	(D)	1	(D)	-	-	-	-	-	-	68	(D)
Region 15 Lower Colorado		55	3,112	16	1,808	-	-	54	(D)	-	-	1	(D)
Region 16 Great Basin		132	11,583	37	6,688	37	5,488	35	(D)	41	(D)	83	9,666
Region 17 Pacific Northwest		1,471	501,719	391	227,231	168	143,963	812	161,256	177	36,767	621	306,030
Region 18 California		252	25,442	72	20,733	47	14,793	96	2,739	25	22	157	23,430
Region 19 Alaska		41	203	-	-	-	-	30	202	-	-	11	2
Region 20 Hawaii		33	17	-	-	-	-	-	-	-	-	33	17

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	All berries											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 2013	219,254 227,651	1,859 2,307	61,560 68,040	955 1,040	41,033 41,018	6,929 7,830	136,303 126,613	3,002 3,480	70,367 87,666	2,256 2,514	27,230 24,769
2018 DATA												
Alabama	144	549	25	3	-	-	119	524	25	25	-	-
Alaska	50	14	3	1	-	-	38	12	4	1	9	1
Arizona	16	832	16	832	-	-	16	832	-	-	-	-
Arkansas	125	417	14	60	4	4	74	286	19	48	37	93
California	934	50,685	401	39,287	224	28,115	645	41,866	51	820	350	9,334
Colorado	158	208	8	11	-	-	40	6	26	48	94	153
Connecticut	128	176	-	-	-	-	71	50	57	126	-	-
Delaware	9	32	-	-	-	-	9	32	1	(D)	-	-
Florida	668	13,328	210	3,851	81	3,132	615	13,274	53	54	-	-
Georgia	532	16,859	116	2,854	-	-	470	15,425	127	2,122	4	2
Hawaii	52	42	-	-	-	-	-	-	17	17	35	25
Idaho	166	190	24	30	-	-	39	11	62	122	67	57
Illinois	93	1,023	41	96	-	-	57	935	32	86	4	2
Indiana	168	721	27	381	7	1	101	561	67	160	-	-
Iowa	94	464	-	-	-	-	76	462	-	-	18	2
Kansas	39	34	-	-	-	-	15	27	10	2	14	5
Kentucky	107	140	23	3	5	1	59	114	42	24	6	3
Louisiana	107	333	13	65	-	-	94	305	13	26	13	(D)
Maine	355	8,460	6	(D)	-	-	229	(D)	161	5,814	59	472
Maryland	93	145	13	40	13	40	54	63	48	83	-	-
Massachusetts	530	11,642	156	2,230	287	5,509	31	(D)	466	9,665	47	1,898
Michigan	582	12,096	41	795	-	-	502	11,883	100	513	-	-
Minnesota	63	436	-	-	-	-	26	375	37	61	-	-
Mississippi	102	619	7	14	7	14	83	607	-	-	19	13
Missouri	277	398	28	52	17	31	200	351	42	(D)	46	42
Montana	151	106	-	-	-	-	126	99	23	(D)	2	(D)
Nebraska	77	161	-	-	-	-	77	161	-	-	-	-
Nevada	3	(Z)	3	(Z)	3	(Z)	-	-	-	-	3	(Z)
New Hampshire	190	535	11	75	7	(D)	113	232	74	287	3	17
New Jersey	243	15,473	59	3,512	8	1,260	182	13,086	5	2,337	59	51
New Mexico	90	44	-	-	-	-	49	8	-	-	41	36
New York	197	1,800	8	111	25	71	81	253	68	1,424	75	155
North Carolina	373	12,768	7	4	7	4	142	850	219	11,906	39	39
North Dakota	35	21	-	-	-	-	4	2	-	-	31	19
Ohio	200	350	15	153	9	135	77	108	75	231	48	11
Oklahoma	66	146	11	1	-	-	36	4	-	-	30	142
Oregon	1,360	20,229	145	4,516	70	1,151	699	10,588	219	3,867	478	5,850
Pennsylvania	341	783	77	183	5	33	202	485	138	300	6	8
Rhode Island	39	159	9	(D)	1	(D)	38	57	8	(D)	-	-
South Carolina	94	210	26	26	26	26	94	210	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	193	230	42	6	-	-	22	44	107	66	64	121
Texas	369	1,380	59	182	-	-	264	1,147	63	310	62	24
Utah	99	234	41	200	-	-	41	200	-	-	68	214
Vermont	136	568	2	(D)	-	-	85	438	77	(D)	-	-
Virginia	214	438	44	198	22	22	147	214	45	222	22	2
Washington	999	14,766	64	1,236	80	1,253	570	11,223	157	1,740	327	2,378
West Virginia	126	185	39	58	42	40	28	6	58	97	40	82
Wisconsin	375	28,825	25	369	5	25	189	1,005	206	27,496	36	5,976
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Water Resources Regions												
Region 01 New England	1,301	21,380	182	2,424	295	5,674	537	8,597	796	16,031	109	2,387
Region 02 Mid-Atlantic	844	17,238	176	3,868	48	1,355	599	14,016	222	3,162	65	99
Region 03 South Atlantic-Gulf	1,911	44,325	391	6,751	121	3,176	1,524	30,914	421	14,075	62	54
Region 04 Great Lakes	1,019	17,026	110	1,411	44	223	712	12,771	270	4,692	98	124
Region 05 Ohio	587	876	107	167	47	41	161	283	313	495	113	98
Region 06 Tennessee	124	198	21	2	-	-	11	(D)	69	(D)	44	112
Region 07 Upper Mississippi	539	27,853	42	462	2	(D)	321	2,534	179	24,740	58	5,980
Region 08 Lower Mississippi	188	452	4	30	-	-	154	414	9	33	25	5
Region 09 Souris-Red-Rainy	70	79	-	-	-	-	2	(D)	37	61	31	19
Region 10 Missouri	333	328	28	40	9	7	245	269	41	(D)	58	47
Region 11 Arkansas-White-Red	305	966	42	120	12	28	200	619	72	222	72	244
Region 12 Texas-Gulf	334	1,010	59	182	-	-	232	807	40	180	62	24
Region 13 Rio Grande	51	256	-	-	-	-	28	242	-	-	23	14
Region 14 Upper Colorado	97	163	-	-	-	-	-	-	-	-	97	163
Region 15 Lower Colorado	53	843	16	832	-	-	49	839	-	-	4	4
Region 16 Great Basin	98	230	44	200	3	(D)	41	200	-	-	67	210
Region 17 Pacific Northwest	2,672	35,290	233	5,782	150	2,404	1,430	21,920	461	5,733	874	8,287
Region 18 California	934	50,685	401	39,287	224	28,115	645	41,866	51	820	350	9,334
Region 19 Alaska	50	14	3	1	-	-	38	12	4	1	9	25
Region 20 Hawaii	52	42	-	-	-	-	-	-	17	17	35	25

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Land in orchards, vineyards, and nut trees											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 52,959	5,021,860	15,498	2,637,957	4,489	992,013	31,660	3,245,887	4,809	360,275	23,685	2,136,981
	2013 52,018	3,662,131	8,646	1,457,326	2,795	573,598	29,106	2,446,547	3,747	307,541	26,282	1,463,421
2018 DATA												
Alabama	111	681	-	-	-	-	61	306	25	300	25	75
Alaska	30	12	-	(D)	-	-	29	(D)	2	(D)	-	-
Arizona	761	77,091	208	33,652	39	7,881	308	32,567	51	237	421	44,325
Arkansas	93	3,668	4	40	-	-	29	1,940	49	1,663	20	65
California	30,750	3,703,045	12,862	2,295,643	3,574	851,889	19,191	2,494,486	2,124	246,261	14,979	1,630,376
Colorado	908	3,849	8	11	-	-	104	257	84	444	722	3,148
Connecticut	125	330	-	-	-	-	112	238	13	92	-	-
Delaware	5	(D)	-	-	-	-	5	(D)	1	(D)	-	-
Florida	3,102	411,470	843	146,771	243	60,418	2,853	338,747	217	43,331	153	45,385
Georgia	867	116,664	158	40,236	29	4,361	821	111,879	71	4,785	-	-
Hawaii	746	8,780	74	(D)	5	(D)	39	1,659	109	571	599	6,550
Idaho	506	1,675	4	(Z)	20	540	182	192	68	300	261	1,184
Illinois	17	5	-	-	-	-	17	5	-	-	-	-
Indiana	29	1,227	4	110	-	-	27	(D)	2	(D)	-	-
Iowa	65	140	-	-	-	-	26	79	18	54	21	7
Kansas	40	61	-	-	-	-	15	3	10	28	15	30
Kentucky	28	(D)	-	-	-	-	-	-	26	(D)	2	(D)
Louisiana	121	495	13	13	-	-	121	495	-	-	-	-
Maine	76	296	3	21	-	-	67	(D)	40	191	6	(D)
Maryland	36	241	-	-	-	-	16	201	20	40	-	-
Massachusetts	92	1,534	-	-	-	-	48	1,336	38	196	6	2
Michigan	367	24,360	21	1,134	-	-	347	24,276	21	84	-	-
Minnesota	96	751	-	-	-	-	96	751	-	-	-	-
Mississippi	57	3,634	5	2	5	2	51	3,632	6	12	6	(D)
Missouri	176	3,768	-	-	-	-	154	3,725	16	54	15	15
Montana	421	1,684	-	-	23	(D)	201	557	71	139	172	1,034
Nebraska	56	229	-	-	-	-	56	229	-	-	-	-
Nevada	57	157	-	-	-	-	33	118	17	37	10	4
New Hampshire	19	269	-	-	-	-	8	224	12	164	-	-
New Jersey	81	2,861	-	-	-	-	51	1,599	7	1,260	23	2
New Mexico	2,900	61,630	243	6,334	100	2,231	2,065	56,304	133	199	1,661	31,327
New York	239	8,050	51	1,150	9	255	104	2,718	81	2,813	57	2,519
North Carolina	203	1,566	27	(D)	-	-	150	1,305	53	261	-	-
North Dakota	33	14	-	-	-	-	-	-	2	(D)	31	(D)
Ohio	106	1,295	9	180	-	-	26	611	67	621	33	62
Oklahoma	86	129	11	4	-	-	86	129	-	-	-	-
Oregon	2,228	90,320	250	13,791	40	2,989	938	24,440	353	8,078	960	57,804
Pennsylvania	281	4,164	-	-	-	-	165	1,877	144	2,308	-	-
Rhode Island	18	81	-	-	-	-	18	81	4	4	-	-
South Carolina	200	8,552	52	754	26	52	148	4,622	29	6,172	25	50
South Dakota	31	85	-	-	-	-	24	78	-	-	9	8
Tennessee	66	416	-	-	22	374	22	374	44	42	-	-
Texas	2,413	80,157	285	26,883	129	19,522	1,662	32,228	238	1,909	653	47,396
Utah	517	13,980	12	3,808	4	392	82	9,354	68	5,571	391	5,885
Vermont	44	356	-	-	-	-	3	(D)	39	225	2	(D)
Virginia	47	218	-	-	-	-	46	(D)	1	(D)	-	-
Washington	3,594	381,210	330	62,928	203	39,859	1,020	90,414	374	31,332	2,386	259,619
West Virginia	2	(D)	2	(D)	-	-	2	(D)	-	-	-	-
Wisconsin	67	291	18	90	18	90	31	111	36	180	-	-
Wyoming	46	48	-	-	-	-	-	-	25	37	21	11
Water Resources Regions												
Region 01 New England	383	2,662	3	21	-	-	278	2,030	135	752	12	5
Region 02 Mid-Atlantic	490	10,370	4	(D)	-	-	322	6,516	174	3,958	23	(D)
Region 03 South Atlantic-Gulf	4,478	540,314	1,080	187,788	298	64,831	4,022	458,237	401	54,861	209	45,512
Region 04 Great Lakes	569	29,327	71	1,703	24	270	353	24,287	138	2,439	82	2,601
Region 05 Ohio	156	2,248	30	921	3	(D)	55	938	109	1,249	12	61
Region 06 Tennessee	103	687	-	-	22	374	81	676	22	11	-	-
Region 07 Upper Mississippi	280	2,398	-	-	-	-	226	2,250	37	146	18	4
Region 08 Lower Mississippi	176	6,819	22	55	5	2	157	6,682	14	123	5	15
Region 09 Souris-Red-Rainy	35	15	-	-	-	-	2	(D)	2	(D)	31	(D)
Region 10 Missouri	409	1,028	8	11	-	-	229	805	37	(D)	155	149
Region 11 Arkansas-White-Red	645	4,424	11	4	-	-	369	2,224	43	1,544	238	656
Region 12 Texas-Gulf	2,044	64,074	266	25,496	110	19,512	1,493	29,133	199	1,651	434	34,309
Region 13 Rio Grande	2,846	65,622	262	7,721	119	2,241	2,033	47,967	172	457	1,658	43,756
Region 14 Upper Colorado	783	3,726	-	-	-	-	27	(D)	70	(D)	686	3,234
Region 15 Lower Colorado	883	94,269	232	40,316	39	7,881	375	49,450	78	264	449	44,594
Region 16 Great Basin	476	14,054	12	3,808	4	392	81	9,384	58	5,581	364	5,922
Region 17 Pacific Northwest	6,699	474,713	584	76,720	286	43,434	2,300	115,501	885	39,869	3,751	319,545
Region 18 California	30,728	3,696,321	12,838	2,288,979	3,574	851,889	19,189	2,488,086	2,124	246,261	14,959	1,630,052
Region 19 Alaska	30	12	1	(D)	-	-	29	(D)	2	(D)	-	-
Region 20 Hawaii	746	8,780	74	(D)	5	(D)	39	1,659	109	571	599	6,550

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Nursery and other horticultural crops (see text)												
	Farms	Irrigated acres harvested	Chemigation				Water source ¹						
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers		
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	
United States	2018 2013	15,623 (NA)	581,936 (NA)	1,443 (NA)	70,297 (NA)	497 (NA)	36,335 (NA)	10,044 (NA)	360,058 (NA)	2,752 (NA)	119,916 (NA)	4,260 (NA)	131,836 (NA)
2018 DATA													
Alabama		185	21,002	15	111	4	40	103	12,872	71	7,006	39	1,637
Alaska		85	199	14	45	-	-	66	148	13	40	9	14
Arizona		87	5,457	8	1,702	2	(D)	64	3,680	1	(D)	29	2,597
Arkansas		97	6,157	-	-	-	-	58	4,644	26	355	23	1,170
California		1,951	74,259	624	44,477	221	26,742	1,027	34,096	155	6,152	977	42,361
Colorado		417	12,869	39	914	29	496	100	8,496	44	1,850	290	3,131
Connecticut		146	3,294	15	90	30	210	102	2,180	91	1,771	4	95
Delaware		22	1,665	1	(D)	1	(D)	15	1,587	4	(D)	4	8
Florida		2,039	85,141	109	1,109	32	773	1,913	69,510	193	8,771	17	9,091
Georgia		356	21,221	18	579	-	-	297	17,256	49	3,402	31	648
Hawaii		483	1,582	61	316	4	35	7	80	32	79	448	1,423
Idaho		401	28,628	11	3,026	13	2,822	115	2,526	45	2,434	266	23,695
Illinois		217	10,815	15	28	-	-	128	8,780	77	2,354	27	24
Indiana		159	3,469	27	50	6	3	110	1,812	31	1,585	21	90
Iowa		122	2,692	1	(D)	1	(D)	53	1,279	40	1,315	40	110
Kansas		120	3,388	15	1,332	4	4	74	2,434	22	1,097	40	47
Kentucky		167	1,092	34	43	5	5	29	37	25	253	117	802
Louisiana		152	3,446	-	-	-	-	127	2,344	23	832	13	(D)
Maine		141	3,069	8	14	-	-	120	1,255	44	1,675	10	139
Maryland		149	9,875	9	(D)	1	(D)	119	8,368	16	906	19	641
Massachusetts		219	1,960	-	-	-	-	193	1,057	19	593	19	310
Michigan		453	22,221	2	(D)	-	-	408	16,235	133	6,767	26	39
Minnesota		197	4,480	2	(D)	4	11	163	4,214	22	554	17	162
Mississippi		82	5,273	-	-	-	-	45	755	36	4,507	6	11
Missouri		217	3,955	30	91	1	(D)	139	2,763	65	1,338	32	101
Montana		77	766	-	-	-	-	52	172	-	-	29	597
Nebraska		122	2,476	4	168	-	-	108	2,255	-	-	30	222
Nevada		17	671	8	112	4	100	7	520	-	-	12	191
New Hampshire		212	385	40	42	-	-	130	221	45	126	38	38
New Jersey		492	17,831	1	(D)	-	-	408	13,116	115	6,103	62	62
New Mexico		159	1,570	9	630	-	-	41	1,283	66	231	69	746
New York		556	11,663	46	1,174	24	1,020	298	7,465	122	3,722	195	498
North Carolina		462	8,611	-	-	-	-	291	3,661	202	4,987	16	82
North Dakota		6	(D)	-	-	-	-	2	(D)	1	(D)	4	19
Ohio		333	9,272	20	246	9	9	223	5,091	80	4,235	57	75
Oklahoma		171	14,794	6	113	4	8	98	10,427	31	2,916	50	1,455
Oregon		1,079	53,291	41	3,352	13	(D)	638	28,365	281	13,585	293	11,583
Pennsylvania		542	1,999	68	191	11	24	409	1,359	72	456	89	196
Rhode Island		34	1,426	-	-	-	-	25	1,075	5	690	5	(D)
South Carolina		260	18,039	24	1,880	17	130	182	14,181	64	4,043	52	311
South Dakota		40	893	1	(D)	1	(D)	27	556	4	6	11	331
Tennessee		207	8,145	2	(D)	2	(D)	83	3,617	95	4,425	66	161
Texas		532	46,750	29	2,235	9	249	413	35,651	93	10,331	87	8,776
Utah		141	2,518	13	184	1	(D)	21	(D)	9	288	130	1,353
Vermont		60	141	5	5	5	5	34	85	18	46	15	(D)
Virginia		325	3,806	11	(D)	10	10	217	2,201	60	1,613	64	53
Washington		738	27,845	35	4,055	7	(D)	429	9,973	51	2,282	311	15,908
West Virginia		62	152	-	-	-	-	32	103	9	28	44	44
Wisconsin		322	11,485	22	1,256	22	1,256	298	9,215	52	2,572	7	8
Wyoming		10	(D)	-	-	-	-	3	(D)	-	-	-	-
Water Resources Regions													
Region 01 New England		769	10,178	63	146	30	210	581	5,805	206	4,877	82	749
Region 02 Mid-Atlantic		1,658	44,340	86	1,538	45	1,065	1,233	33,571	312	12,284	278	1,070
Region 03 South Atlantic-Gulf		3,337	155,435	166	3,679	49	903	2,794	115,084	577	31,835	174	11,758
Region 04 Great Lakes		974	31,314	38	1,476	15	1,255	771	19,443	247	12,756	162	343
Region 05 Ohio		720	13,490	111	595	23	49	302	5,256	200	7,214	269	1,141
Region 06 Tennessee		261	7,454	1	(D)	5	60	149	5,995	94	1,527	49	139
Region 07 Upper Mississippi		830	27,924	38	(D)	18	27	612	23,172	179	5,408	74	308
Region 08 Lower Mississippi		170	6,675	-	-	-	-	149	5,599	22	814	12	(D)
Region 09 Souris-Red-Rainy		15	92	-	-	-	-	10	78	2	(D)	3	(D)
Region 10 Missouri		554	16,326	47	1,063	11	458	375	12,263	80	3,750	164	1,193
Region 11 Arkansas-White-Red		451	23,077	12	1,438	4	(D)	216	16,526	109	3,709	149	2,861
Region 12 Texas-Gulf		509	46,205	29	2,235	6	240	388	35,311	90	10,121	92	8,781
Region 13 Rio Grande		93	1,732	9	630	3	9	49	1,534	35	(D)	26	702
Region 14 Upper Colorado		294	3,230	28	113	23	46	11	11	12	52	271	3,167
Region 15 Lower Colorado		112	5,907	25	2,140	16	(D)	68	3,684	1	(D)	50	3,043
Region 16 Great Basin		116	3,230	19	296	3	123	28	1,405	9	288	100	1,585
Region 17 Pacific Northwest		2,260	109,730	87	10,433	33	4,486	1,212	41,002	377	18,301	886	51,017
Region 18 California		1,932	73,817	609	44,039	209	26,418	1,023	34,092	155	6,152	962	41,923
Region 19 Alaska		85	199	14	45	-	-	66	148	13	40	9	14
Region 20 Hawaii		483	1,582	61	316	4	35	7	80	32	79	448	1,423

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	All other crops ² (see text)											
	Farms	Irrigated acres harvested	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 7,006	1,783,325	1,178	311,472	485	116,943	3,368	624,442	1,435	366,646	2,781	861,828
	2013 26,309	2,320,822	2,789	329,982	884	140,989	15,576	1,113,366	5,029	351,632	8,450	1,006,583
2018 DATA												
Alabama	-	-	-	-	-	-	-	-	-	-	-	-
Alaska	2	(D)	-	-	-	-	1	(D)	2	(D)	-	-
Arizona	132	30,180	31	4,405	-	-	69	24,551	7	362	85	19,691
Arkansas	16	53	2	(D)	-	-	7	44	-	-	9	9
California	590	179,469	123	35,129	6	2,139	331	65,225	121	35,745	280	113,079
Colorado	456	36,649	163	15,280	66	6,816	191	20,250	27	54	238	16,345
Connecticut	93	817	-	-	-	-	87	432	5	(D)	1	(D)
Delaware	5	(D)	1	(D)	-	-	1	(D)	-	-	4	8
Florida	183	419,337	-	-	-	-	145	(D)	14	(D)	25	204,431
Georgia	37	9,808	-	-	-	-	33	9,804	4	4	-	-
Hawaii	102	201	-	-	-	-	-	-	3	3	99	198
Idaho	664	207,665	98	39,821	23	15,767	240	64,964	49	9,875	494	134,046
Illinois	69	23,587	34	18,622	-	-	69	23,587	-	-	-	-
Indiana	132	30,639	18	1,710	-	-	114	29,479	1	(D)	18	(D)
Iowa	21	1,734	17	1,462	-	-	21	1,734	-	-	-	-
Kansas	102	44,828	18	12,489	-	-	102	44,828	-	-	-	-
Kentucky	76	1,126	2	(D)	-	-	21	(D)	29	398	27	(D)
Louisiana	13	13	-	-	-	-	-	-	-	-	13	13
Maine	38	210	3	3	-	-	30	69	8	141	-	-
Maryland	36	1,242	-	-	-	-	7	523	29	719	-	-
Massachusetts	136	772	-	-	10	380	58	88	50	656	28	28
Michigan	113	3,756	30	555	21	105	93	2,998	31	1,208	-	-
Minnesota	17	7,900	-	-	-	-	3	5,100	14	2,800	-	-
Mississippi	16	(D)	-	-	-	-	10	10	-	-	6	(D)
Missouri	46	612	20	(D)	18	36	21	(D)	25	(D)	-	-
Montana	369	67,616	26	10,102	13	2,476	33	592	8	3,525	333	63,504
Nebraska	427	106,368	125	36,001	20	10,300	406	100,816	16	(D)	33	9,552
Nevada	58	21,962	20	4,625	5	6,075	23	18,312	-	-	35	3,650
New Hampshire	32	36	-	-	-	-	32	36	-	-	-	-
New Jersey	81	1,311	7	350	-	-	61	727	7	350	13	234
New Mexico	222	8,234	36	6,662	34	2,040	45	2,539	33	33	144	5,662
New York	222	2,623	32	225	-	-	93	328	123	2,220	6	75
North Carolina	253	10,072	-	-	-	-	20	1,307	237	9,957	8	8
North Dakota	81	28,698	-	-	-	-	5	5,040	-	-	80	26,298
Ohio	23	276	23	276	23	276	-	-	23	276	-	-
Oklahoma	65	12,605	14	5,480	-	-	52	7,925	-	-	13	4,680
Oregon	773	205,147	49	22,209	74	17,930	383	64,408	244	76,994	220	65,105
Pennsylvania	192	2,270	81	1,580	46	(D)	69	1,503	128	772	-	-
Rhode Island	11	14	-	-	-	-	11	14	-	-	-	-
South Carolina	66	1,730	-	-	-	-	52	1,716	-	-	14	14
South Dakota	24	5,564	1	(D)	1	(D)	22	(D)	1	(D)	1	(D)
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	223	59,826	13	15,320	3	2,400	160	24,660	19	760	48	34,650
Utah	114	3,271	27	135	27	135	28	1,285	27	27	87	2,694
Vermont	7	51	-	-	-	-	6	8	5	(D)	-	-
Virginia	92	1,803	-	-	-	-	22	418	70	1,385	-	-
Washington	444	196,991	144	73,884	75	45,220	177	61,593	37	21,919	307	119,749
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	10	(D)	10	50	10	50	10	50	10	50	-	-
Wyoming	122	45,491	10	3,030	10	3,030	4	1,892	28	10,600	112	34,979
Water Resources Regions												
Region 01 New England	315	1,896	3	3	10	380	222	643	68	1,209	29	(D)
Region 02 Mid-Atlantic	387	6,548	71	2,261	46	98	183	3,397	192	2,914	17	242
Region 03 South Atlantic-Gulf	647	442,766	-	-	-	-	282	45,678	325	193,829	53	204,459
Region 04 Great Lakes	230	5,121	69	(D)	31	155	152	3,334	93	2,212	6	75
Region 05 Ohio	212	24,142	64	2,078	23	276	73	22,475	95	867	45	900
Region 06 Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi	150	36,537	51	20,084	-	-	133	(D)	18	(D)	-	-
Region 08 Lower Mississippi	30	(D)	2	(D)	-	-	21	(D)	-	-	9	(D)
Region 09 Souris-Red-Rainy	15	4,400	-	-	-	-	1	(D)	14	(D)	-	-
Region 10 Missouri	1,319	292,550	330	67,732	101	23,680	694	140,405	50	15,515	629	145,570
Region 11 Arkansas-White-Red	253	65,891	17	16,304	-	-	179	59,788	8	40	70	6,307
Region 12 Texas-Gulf	166	42,936	13	15,320	3	2,400	103	7,770	19	760	44	34,406
Region 13 Rio Grande	189	4,298	35	2,529	34	2,040	45	2,539	33	33	111	1,726
Region 14 Upper Colorado	140	5,560	25	(D)	24	48	-	-	27	54	113	5,506
Region 15 Lower Colorado	134	30,680	33	4,905	-	-	69	24,551	7	362	87	20,191
Region 16 Great Basin	152	27,294	47	4,760	32	6,210	58	19,947	27	27	102	8,055
Region 17 Pacific Northwest	1,975	612,779	297	135,920	175	79,517	821	190,689	333	109,388	1,089	321,557
Region 18 California	588	178,969	121	34,629	6	2,139	331	65,225	121	35,745	278	112,579
Region 19 Alaska	2	(D)	-	-	-	-	1	(D)	2	(D)	-	-
Region 20 Hawaii	102	201	-	-	-	-	-	-	3	3	99	198

See footnote(s) at end of table.

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Table 37. Chemigation and Water Source for Selected Crops in the Open and Irrigated Pastureland: 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	Irrigated pastureland, all types											
	Farms	Irrigated acres	Chemigation				Water source ¹					
			Commercial fertilizer		Pesticide application		Ground water from wells		On-farm surface water		Water from off-farm suppliers	
			Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres	Farms	Acres
United States	2018 51,644	4,004,854	1,792	112,226	510	14,626	10,964	807,532	7,836	1,038,599	35,358	2,241,043
	2013 42,733	3,034,409	658	63,553	108	6,557	9,860	585,071	5,619	931,158	29,526	1,655,905
2018 DATA												
Alabama	7	128	-	-	-	-	3	120	-	-	4	8
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	1,117	28,650	82	1,915	-	-	423	18,380	32	1,056	711	10,877
Arkansas	57	10,456	-	-	-	-	23	886	29	9,560	5	10
California	5,237	699,056	106	4,124	23	92	1,875	217,865	793	196,118	3,197	331,518
Colorado	5,243	407,293	110	12,514	24	120	385	40,518	902	89,454	4,188	288,337
Connecticut	3	60	-	-	-	-	3	(D)	3	(D)	-	-
Delaware	22	110	-	-	-	-	22	110	-	-	-	-
Florida	583	33,841	8	1,200	-	-	518	16,048	53	393	15	17,580
Georgia	164	7,751	-	-	-	-	86	3,284	78	4,467	-	-
Hawaii	213	3,895	-	-	-	-	-	-	3	(D)	210	(D)
Idaho	8,552	450,482	136	6,073	42	266	1,106	59,428	1,239	132,440	6,651	263,165
Illinois	17	85	-	-	-	-	17	85	-	-	-	-
Indiana	36	162	-	-	-	-	18	54	18	108	-	-
Iowa	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	33	9,271	14	868	-	-	33	9,271	-	-	-	-
Kentucky	26	52	-	-	-	-	-	-	26	52	-	-
Louisiana	27	4,910	-	-	-	-	13	3,510	14	1,400	-	-
Maine	59	59	-	-	-	-	59	59	29	29	-	-
Maryland	8	(D)	-	-	-	-	8	(D)	-	-	-	-
Massachusetts	28	336	-	-	-	-	-	-	28	336	-	-
Michigan	50	5,550	20	5,200	-	-	10	250	40	5,300	-	-
Minnesota	19	228	-	-	-	-	19	228	-	-	-	-
Mississippi	26	525	-	-	-	-	7	(D)	6	(D)	13	(D)
Missouri	125	16,576	18	108	-	-	51	12,900	58	3,348	16	328
Montana	4,090	507,345	88	6,428	101	2,497	391	6,948	612	189,565	3,156	310,901
Nebraska	772	73,612	60	11,295	16	96	506	50,599	60	805	225	22,536
Nevada	776	137,136	29	1,440	30	2,400	219	18,614	234	68,175	376	53,474
New Hampshire	11	18	-	-	-	-	11	18	-	-	-	-
New Jersey	58	760	22	616	-	-	58	760	-	-	-	-
New Mexico	3,216	99,552	223	6,157	68	238	775	27,233	444	12,874	2,174	60,106
New York	23	23	-	-	-	-	23	23	-	-	-	-
North Carolina	94	5,796	-	-	-	-	27	1,080	67	4,716	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Oklahoma	229	69,960	25	125	25	125	151	61,890	27	1,145	51	6,925
Oregon	5,949	344,462	232	5,505	48	480	1,069	52,811	1,079	75,388	3,952	216,263
Pennsylvania	24	376	-	-	-	-	-	-	24	376	-	-
Rhode Island	10	(D)	-	-	-	-	10	(D)	-	-	-	-
South Carolina	140	4,669	-	-	-	-	115	3,469	51	2,552	-	-
South Dakota	108	8,681	-	-	-	-	-	-	41	4,215	86	4,466
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Texas	2,193	223,515	176	25,319	99	7,770	1,530	132,409	176	34,879	546	58,227
Utah	6,324	255,176	162	2,079	-	-	480	11,645	680	28,126	5,420	217,987
Vermont	2	(D)	-	-	-	-	-	-	2	(D)	-	-
Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Washington	3,545	139,408	241	12,953	30	522	808	36,562	437	12,715	2,518	95,517
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin	19	399	-	-	-	-	19	399	-	-	-	-
Wyoming	2,407	454,414	40	8,307	4	20	93	20,017	549	157,737	1,844	279,591
Water Resources Regions												
Region 01 New England	111	483	-	-	-	-	83	117	60	395	-	-
Region 02 Mid-Atlantic	135	1,277	22	616	-	-	111	901	24	376	-	-
Region 03 South Atlantic-Gulf	984	52,584	8	1,200	-	-	726	23,886	255	(D)	32	(D)
Region 04 Great Lakes	52	5,606	20	5,200	-	-	10	250	42	5,356	-	-
Region 05 Ohio	28	54	-	-	-	-	-	-	28	54	-	-
Region 06 Tennessee	23	115	-	-	-	-	23	115	-	-	-	-
Region 07 Upper Mississippi	99	1,194	-	-	-	-	73	766	26	428	-	-
Region 08 Lower Mississippi	58	5,357	-	-	-	-	39	3,947	14	1,400	5	10
Region 09 Souris-Red-Rainy	23	437	-	-	-	-	23	437	-	-	-	-
Region 10 Missouri	6,420	789,649	217	37,010	73	1,725	1,075	102,726	1,002	262,836	4,550	429,719
Region 11 Arkansas-White-Red	1,178	212,768	83	13,057	45	2,125	494	128,841	216	41,824	488	44,103
Region 12 Texas-Gulf	1,913	165,828	132	13,255	79	5,770	1,347	103,243	121	6,259	484	56,326
Region 13 Rio Grande	2,618	113,609	189	6,055	34	204	722	21,898	450	18,281	1,652	80,841
Region 14 Upper Colorado	6,703	570,461	139	1,249	34	34	92	3,571	997	152,020	5,867	417,173
Region 15 Lower Colorado	1,469	37,676	82	1,915	-	-	491	21,835	142	5,193	885	12,311
Region 16 Great Basin	5,004	295,090	110	1,926	30	2,400	657	38,906	626	85,185	3,929	178,527
Region 17 Pacific Northwest	19,000	959,158	684	26,619	192	2,276	2,989	119,955	2,995	228,214	13,830	618,766
Region 18 California	5,613	789,613	106	4,124	23	92	2,009	236,138	835	217,468	3,426	382,452
Region 19 Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Region 20 Hawaii	213	3,895	-	-	-	-	-	-	3	(D)	210	(D)

¹ Column totals may exceed total farms and acres of crop because more than one water source could be reported.

² 2013 data include nursery and other horticultural crops grown in the open.