

**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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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
<b>Water Resources Regions</b>													
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 <sup>1</sup>						
			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	7,930 8,382	1,648,789 1,729,358	1,912 2,087	479,350 440,327	630 325	153,271 66,653	4,169 4,329	1,005,446 1,164,020	1,431 1,309	320,085 306,772	3,581 4,318	606,782 562,021
<b>2018 DATA</b>													
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 .....	-	-	2	(D)	-	-	-	-	-	-	-	-	
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	
<b>Water Resources Regions</b>													
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.

--continued

**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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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	-	-	-	-	-
<b>Water Resources Regions</b>													
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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
<b>Water Resources Regions</b>													
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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 .....	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Water Resources Regions</b>													
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
Alabama .....		50	425	-	(D)	-	-	25	375	25	50	-	-
Alaska .....		4	713	1	(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
<b>Water Resources Regions</b>													
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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 .....		-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Resources Regions</b>													
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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 .....		-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Resources Regions</b>													
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 <sup>1</sup>					
			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	23,087	3,127,705	3,695	1,251,019	1,456	605,283	13,757	1,709,434	5,542	437,063	6,069	1,135,408
..... 2013	24,157	2,993,600	3,366	1,045,264	1,192	574,574	15,012	1,843,498	5,427	433,528	6,375	1,062,561
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>					
			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	285,749 321,992	708 582	110,117 101,058	234 151	41,535 30,281	3,058 3,335	167,972 198,173	1,562 1,704	32,385 54,934	1,060 1,283	87,579 83,306
<b>2018 DATA</b>												
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 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Resources Regions</b>												
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>					
			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 4,589	277,616	581	155,144	98	53,276	2,801	156,588	1,070	40,288	959	98,421
	2013 5,052	264,154	373	96,254	60	43,498	3,306	151,658	768	8,094	1,158	109,915
<b>2018 DATA</b>												
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	-	-
Wisconsin .....	196	65	-	-	-	-	178	63	18	2	-	-
Wyoming .....	1	(D)	-	-	-	-	1	(D)	-	-	-	-
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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
<b>2018 DATA</b>													
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)	-	-	-	-
<b>Water Resources Regions</b>													
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 <sup>1</sup>						
			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	11,562 12,763	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
<b>2018 DATA</b>													
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 .....		-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Resources Regions</b>													
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	2
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 <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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)
<b>2018 DATA</b>													
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	-	-	-	-	-	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)	-	-	-	-
<b>Water Resources Regions</b>													
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 <sup>2</sup> (see text)											
	Farms	Irrigated acres harvested	Chemigation				Water source <sup>1</sup>					
			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
<b>2018 DATA</b>												
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
<b>Water Resources Regions</b>												
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 <sup>1</sup>						
			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	51,644 42,733	4,004,854 3,034,409	1,792 658	112,226 63,553	510 108	14,626 6,557	10,964 9,860	807,532 585,071	7,836 5,619	1,038,599 931,158	35,358 29,526	2,241,043 1,655,905
<b>2018 DATA</b>													
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	-	-	-	-
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
<b>Water Resources Regions</b>													
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)

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

<sup>2</sup> 2013 data include nursery and other horticultural crops grown in the open.