

**Table 4. Estimated Quantity of Water Applied By Source: 2018 and 2013**

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

Geographic area	Water applied from all sources									
	Total area <sup>1</sup>				Acres in the open			Area under protection		
	Farms	Acres irrigated	Acre-feet applied <sup>2</sup>	Average acre-feet per acre	Acres irrigated	Acre-feet applied	Average acre-feet per acre	Farms	Square feet irrigated	Gallons applied (1,000)
United States .....	2018 231,474	55,938,795	83,380,955	1.5	55,886,470	83,332,760	1.5	24,876	1,525,130,873	15,704,320
	2013 229,237	55,319,417	88,510,811	1.6	55,283,340	88,455,968	1.6	24,829	1,405,381,805	17,870,533
<b>2018 DATA</b>										
Alabama .....	1,069	163,338	96,231	0.6	162,612	95,915	0.6	313	22,691,124	103,119
Alaska .....	308	1,721	1,251	0.7	(D)	1,207	0.8	208	2,112,835	14,418
Arizona .....	3,054	945,570	4,410,437	4.7	945,236	4,409,708	4.7	127	11,974,228	237,527
Arkansas .....	3,173	4,246,491	5,071,730	1.2	4,246,295	5,071,653	1.2	157	4,050,788	25,230
California .....	42,093	8,408,282	24,505,123	2.9	8,399,881	24,490,687	2.9	1,697	328,881,801	4,703,858
Colorado .....	14,529	2,458,742	3,841,308	1.6	2,458,120	3,840,763	1.6	380	14,421,673	177,729
Connecticut .....	669	6,104	4,142	0.7	4,936	2,906	0.6	455	37,531,652	402,831
Delaware .....	521	201,305	79,762	0.4	201,224	79,744	0.4	44	2,339,000	5,908
Florida .....	7,615	1,331,739	1,359,050	1.0	1,324,471	1,352,233	1.0	1,346	286,871,042	2,221,415
Georgia .....	3,861	1,163,038	818,459	0.7	1,162,380	817,940	0.7	334	20,312,514	169,196
Hawaii .....	1,863	26,700	36,520	1.4	(D)	35,530	1.4	569	30,119,031	322,731
Idaho .....	14,867	3,393,063	6,614,948	1.9	3,392,674	6,614,755	1.9	336	4,346,935	62,808
Illinois .....	1,807	566,024	333,081	0.6	564,575	332,220	0.6	434	50,054,950	280,622
Indiana .....	2,039	582,661	247,882	0.4	582,102	247,555	0.4	435	9,841,976	106,681
Iowa .....	1,061	166,193	61,239	0.4	165,621	60,983	0.4	379	11,823,816	83,257
Kansas .....	4,249	2,386,816	2,459,175	1.0	2,386,483	2,458,994	1.0	210	8,776,130	58,944
Kentucky .....	1,188	58,234	22,157	0.4	57,506	21,991	0.4	686	9,068,660	53,949
Louisiana .....	1,862	1,072,033	1,020,121	1.0	1,071,564	1,019,977	1.0	274	12,058,977	46,973
Maine .....	990	35,695	15,639	0.4	(D)	15,535	0.4	558	6,785,654	33,875
Maryland .....	959	125,024	68,447	0.5	124,486	68,096	0.5	383	10,812,493	114,299
Massachusetts .....	1,335	19,311	22,791	1.2	18,834	22,588	1.2	434	6,586,132	66,158
Michigan .....	3,886	827,010	457,523	0.6	824,218	454,261	0.6	1,205	86,902,965	1,062,814
Minnesota .....	2,367	554,605	249,004	0.4	553,858	248,126	0.4	420	18,144,370	286,126
Mississippi .....	1,621	1,667,023	1,168,393	0.7	(D)	1,168,359	0.7	203	4,289,424	11,034
Missouri .....	2,705	1,429,074	1,109,427	0.8	1,428,310	1,109,102	0.8	639	10,912,436	105,773
Montana .....	8,887	2,140,162	2,548,942	1.2	2,139,878	2,548,878	1.2	265	2,265,336	20,871
Nebraska .....	13,013	7,666,152	4,856,160	0.6	7,665,880	4,856,075	0.6	236	3,026,039	27,541
Nevada .....	1,857	693,520	1,920,222	2.8	693,466	1,920,216	2.8	54	358,536	1,873
New Hampshire .....	731	3,218	1,967	0.6	(D)	1,688	0.6	431	8,274,578	90,784
New Jersey .....	1,585	89,941	51,653	0.6	88,604	50,318	0.6	574	45,713,398	434,989
New Mexico .....	10,093	675,330	1,337,807	2.0	675,092	1,337,721	2.0	179	4,076,540	27,991
New York .....	2,148	47,974	34,109	0.7	45,847	33,011	0.7	1,244	52,378,469	357,639
North Carolina .....	2,451	132,870	55,669	0.4	131,631	54,315	0.4	807	28,491,080	441,111
North Dakota .....	720	297,001	189,930	0.6	(D)	189,921	0.6	37	526,745	2,892
Ohio .....	1,601	39,258	17,136	0.4	37,740	15,877	0.4	905	37,618,396	410,236
Oklahoma .....	1,835	601,492	662,063	1.1	(D)	661,996	1.1	234	4,338,472	21,774
Oregon .....	13,794	1,579,108	2,719,424	1.7	1,577,008	2,716,564	1.7	1,020	64,333,453	931,860
Pennsylvania .....	2,766	40,596	39,135	1.0	37,849	38,272	1.0	1,568	72,735,326	281,214
Rhode Island .....	227	3,231	979	0.3	(D)	936	0.3	134	1,855,229	14,047
South Carolina .....	1,489	252,720	203,411	0.8	252,409	203,351	0.8	241	5,365,322	19,596
South Dakota .....	1,219	378,413	261,443	0.7	378,309	261,342	0.7	73	2,325,959	32,841
Tennessee .....	1,452	190,746	81,382	0.4	190,003	80,824	0.4	617	10,823,843	181,752
Texas .....	11,997	4,085,754	5,345,738	1.3	4,083,451	5,343,356	1.3	686	81,189,374	776,321
Utah .....	12,575	1,181,700	2,326,630	2.0	1,181,301	2,326,069	2.0	226	11,147,052	182,962
Vermont .....	573	3,022	2,135	0.7	2,613	2,025	0.8	389	4,577,962	35,866
Virginia .....	1,377	48,248	14,106	0.3	47,136	13,542	0.3	696	24,913,206	183,681
Washington .....	11,259	1,866,110	4,072,575	2.2	1,864,760	4,071,696	2.2	856	29,307,707	286,518
West Virginia .....	482	6,525	1,788	0.3	6,188	1,740	0.3	306	2,804,956	15,518
Wisconsin .....	2,127	518,312	293,908	0.6	517,394	293,431	0.6	783	13,742,493	155,444
Wyoming .....	5,525	1,561,596	2,268,804	1.5	1,561,506	2,268,768	1.5	89	1,230,796	11,722
<b>Water Resources Regions</b>										
Region 01 New England .....	4,164	69,036	46,422	0.7	66,062	44,532	0.7	2,110	62,320,465	615,776
Region 02 Mid-Atlantic .....	7,317	524,394	266,968	0.5	518,002	263,819	0.5	3,378	179,232,386	1,025,976
Region 03 South Atlantic-Gulf .....	16,770	3,042,488	2,530,310	0.8	3,032,227	2,521,236	0.8	3,119	363,677,616	2,956,783
Region 04 Great Lakes .....	7,093	1,129,500	579,597	0.5	1,124,241	574,437	0.5	2,801	138,040,985	1,681,343
Region 05 Ohio .....	4,904	444,046	209,970	0.5	441,080	208,453	0.5	2,423	50,237,208	494,258
Region 06 Tennessee .....	1,250	71,536	45,334	0.6	(D)	45,012	0.6	635	14,692,612	105,058
Region 07 Upper Mississippi .....	6,691	1,627,970	862,439	0.5	1,624,769	860,160	0.5	1,773	81,170,356	742,500
Region 08 Lower Mississippi .....	6,595	7,625,812	7,423,134	1.0	(D)	7,422,885	1.0	471	15,576,031	81,105
Region 09 Souris-Red-Rainy .....	587	207,655	116,955	0.6	207,595	116,902	0.6	47	1,004,028	17,185
Region 10 Missouri .....	32,856	13,107,678	11,266,945	0.9	13,105,909	11,265,893	0.9	1,220	36,318,201	342,827
Region 11 Arkansas-White-Red .....	9,554	4,877,419	5,714,278	1.2	4,876,728	5,714,078	1.2	594	10,134,679	65,123
Region 12 Texas-Gulf .....	9,986	2,695,393	3,511,259	1.3	2,693,245	3,509,476	1.3	649	75,432,738	581,124
Region 13 Rio Grande .....	8,740	709,642	1,484,099	2.1	709,230	1,483,424	2.1	199	11,098,640	220,081
Region 14 Upper Colorado .....	13,188	1,472,632	2,558,675	1.7	1,472,320	2,558,532	1.7	273	3,879,584	46,753
Region 15 Lower Colorado .....	8,740	1,035,373	4,727,131	4.6	1,035,023	4,726,392	4.6	140	12,175,428	240,813
Region 16 Great Basin .....	11,322	1,763,616	3,942,604	2.2	1,763,271	3,942,124	2.2	186	10,055,408	156,393
Region 17 Pacific Northwest .....	41,905	7,014,019	13,595,585	1.9	7,010,052	13,591,647	1.9	2,370	97,211,841	1,283,271
Region 18 California .....	42,543	8,492,165	24,461,478	2.9	8,483,718	24,447,021	2.9	1,711	330,640,801	4,710,802
Region 19 Alaska .....	308	1,721	1,251	0.7	(D)	1,207	0.8	208	2,112,835	14,418
Region 20 Hawaii .....	1,863	26,700	36,520	1.4	(D)	35,530	1.4	569	30,119,031	322,731

See footnote(s) at end of table.

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**Table 4. Estimated Quantity of Water Applied By Source: 2018 and 2013 (continued)**

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

Geographic area	Ground water from wells												
	Applied in the open						Applied under protection						
	Total			Only source			Total			Only source			
	Farms	Acres irrigated	Acres-foot applied	Farms	Acres irrigated	Average acre-foot applied	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)	
United States	2018 2013	111,913 115,674	36,158,867 37,199,644	41,503,077 48,482,419	89,956 92,587	27,309,018 27,182,385	1.1 1.2	16,362 14,661	1,025,109,884 841,607,093	9,912,941 10,474,182	15,252 13,544	803,985,687 676,370,353	8,098,759 8,034,222
<b>2018 DATA</b>													
Alabama		533	89,753	42,391	442	40,257	0.4	204	9,085,280	44,064	165	5,125,120	26,466
Alaska		124	1,375	1,109	121	1,365	0.8	152	1,871,024	12,900	150	1,636,704	11,897
Arizona		1,182	339,817	1,144,070	964	187,395	4.1	59	9,841,648	212,410	56	9,837,988	212,396
Arkansas		2,780	3,866,663	4,391,548	1,976	2,616,810	1.1	71	1,596,374	6,463	63	1,582,774	6,446
California		24,048	4,510,064	10,598,738	16,926	2,210,718	2.5	927	214,405,436	2,974,859	763	140,659,075	1,931,537
Colorado		2,799	1,150,142	1,586,391	2,002	863,617	1.3	155	7,558,640	77,744	141	7,363,240	75,278
Connecticut		363	2,615	751	311	2,092	0.3	361	27,518,772	206,145	343	25,022,812	195,241
Delaware		501	181,061	70,439	470	152,219	0.9	40	2,313,800	5,876	40	2,313,800	5,876
Florida		6,503	722,062	686,228	6,217	621,121	0.4	1,286	249,560,584	2,034,909	1,240	239,859,504	1,971,071
Georgia		3,177	990,162	709,375	2,584	706,851	0.7	219	14,758,376	72,284	212	9,683,792	61,078
Hawaii		81	2,969	3,002	74	1,695	1.1	8	844,960	16,723	8	844,960	16,723
Idaho		2,929	1,046,997	1,858,993	1,646	480,680	1.7	191	3,282,207	45,320	164	3,004,307	44,270
Illinois		1,438	543,763	320,207	1,368	524,934	0.6	335	44,174,850	113,847	301	12,606,150	95,356
Indiana		1,605	522,902	221,794	1,486	459,246	0.4	325	5,899,208	46,412	314	5,728,408	46,331
Iowa		715	156,950	58,136	669	154,015	0.4	237	2,439,586	19,464	175	1,084,586	11,714
Kansas		3,729	2,296,164	2,382,812	3,409	2,091,587	1.1	188	4,199,616	20,745	74	4,087,616	19,697
Kentucky		154	33,504	11,870	143	29,111	0.4	88	1,561,148	12,036	161	1,394,528	11,910
Louisiana		1,510	973,312	895,925	1,302	814,750	1.0	190	5,651,525	14,827	170	4,446,565	10,846
Maine		518	12,024	4,615	383	1,060	0.6	484	5,596,579	28,438	473	5,452,319	28,055
Maryland		615	103,754	57,327	545	77,539	0.6	347	10,400,373	94,646	319	8,545,573	84,919
Massachusetts		419	4,497	1,714	363	2,865	0.2	294	4,920,332	54,094	283	4,789,432	53,957
Michigan		2,853	682,008	373,837	2,276	496,157	0.5	938	59,476,501	749,642	922	42,403,101	598,488
Minnesota		1,901	529,079	232,219	1,802	507,445	0.4	326	14,749,002	196,133	317	9,686,602	154,449
Mississippi		1,291	1,572,017	1,089,944	1,068	1,134,135	0.7	141	3,342,204	8,458	135	3,285,804	8,081
Missouri		1,823	1,355,453	1,058,913	1,630	1,285,198	0.8	447	6,570,676	52,832	379	6,063,676	50,424
Montana		1,213	67,696	60,731	941	43,863	0.9	205	1,531,904	14,174	193	1,402,304	13,680
Nebraska		11,744	7,009,795	4,217,362	9,561	5,595,375	0.6	208	2,477,408	23,536	199	2,476,454	23,528
Nevada		749	308,472	893,058	461	208,526	3.0	30	218,236	1,636	30	218,236	1,636
New Hampshire		390	1,217	806	355	737	0.6	258	6,325,538	74,423	251	6,280,734	74,258
New Jersey		1,081	65,673	36,742	920	54,123	0.6	472	43,064,140	356,670	428	32,110,260	314,950
New Mexico		4,069	390,452	735,421	2,589	328,327	1.7	91	2,186,260	8,403	84	2,144,260	7,796
New York		796	18,023	8,197	653	14,734	0.5	836	32,546,325	120,754	747	23,012,808	104,376
North Carolina		834	23,956	8,960	705	15,841	0.4	581	10,301,998	84,829	541	9,033,012	81,035
North Dakota		415	189,038	104,039	371	155,672	0.5	15	240,712	1,008	15	240,712	1,008
Ohio		550	17,343	7,732	427	15,124	0.5	550	16,454,359	161,468	531	15,840,839	157,748
Oklahoma		1,235	498,442	563,515	1,174	395,576	1.2	146	1,277,066	5,951	131	685,316	3,943
Oregon		4,280	435,962	690,098	3,597	297,682	1.6	656	37,775,643	548,039	623	34,604,423	499,016
Pennsylvania		1,293	29,000	36,045	1,133	25,108	1.3	1,219	51,321,360	207,822	1,164	43,005,000	197,759
Rhode Island		151	1,623	659	134	1,095	0.5	102	1,504,969	9,812	87	1,271,209	9,460
South Carolina		1,109	216,564	175,732	983	142,008	0.8	195	5,281,636	16,637	174	4,046,836	14,322
South Dakota		719	208,416	102,336	657	180,897	0.5	28	1,330,000	13,763	26	1,314,000	13,745
Tennessee		644	176,428	66,176	628	176,132	0.4	154	2,702,136	24,099	145	2,173,136	20,572
Texas		8,834	3,393,200	3,988,113	8,194	3,183,716	1.2	401	46,335,471	618,478	361	28,879,590	428,729
Utah		1,496	242,386	513,797	760	139,000	2.2	11	4,902,932	108,897	10	3,902,932	77,940
Vermont		196	862	748	144	424	1.0	237	2,212,126	16,324	231	2,162,126	16,107
Virginia		594	9,877	3,362	553	5,876	0.4	497	12,547,674	67,365	493	8,796,574	52,728
Washington		3,809	525,576	1,028,759	3,051	326,032	1.8	598	16,921,227	145,110	571	10,670,627	90,493
West Virginia		86	516	217	55	126	0.9	129	685,480	5,973	123	657,880	5,944
Wisconsin		1,432	475,100	269,659	1,300	416,060	0.5	710	13,093,293	153,398	706	12,654,693	152,373
Wyoming		603	164,143	188,465	433	124,102	1.1	20	253,290	3,103	20	253,290	3,103
<b>Water Resources Regions</b>													
Region 01 New England		1,995	22,649	9,092	1,664	8,108	0.4	1,565	46,913,610	379,760	1,502	43,853,926	367,781
Region 02 Mid-Atlantic		4,182	398,249	209,484	3,687	324,856	0.5	2,737	143,261,007	774,469	2,545	109,743,599	684,730
Region 03 South Atlantic-Gulf		12,384	2,025,357	1,614,723	11,159	1,522,753	0.8	2,506	291,773,408	2,260,270	2,357	271,533,398	2,162,703
Region 04 Great Lakes		4,344	929,856	462,982	3,525	704,400	0.5	2,013	79,172,157	950,881	1,953	60,698,176	795,476
Region 05 Ohio		1,717	373,035	178,441	1,498	351,108	0.5	1,134	19,932,413	184,167	1,071	18,745,205	177,097
Region 06 Tennessee		400	31,350	15,074	333	14,186	0.6	311	5,447,518	32,505	299	3,740,918	30,793
Region 07 Upper Mississippi		5,033	1,518,509	806,317	4,765	1,408,620	0.5	1,391	66,935,704	403,633	1,276	28,747,004	334,882
Region 08 Lower Mississippi		6,045	7,163,415	6,662,259	4,980	5,471,170	0.9	294	7,518,989	22,629	254	6,221,229	(D)
Region 09 Souris-Red-Rainy		352	176,631	93,756	300	153,874	0.5	10	675,520	15,317	10	675,520	15,317
Region 10 Missouri		18,073	9,092,442	6,242,956	14,642	7,318,379	0.7	782	17,461,354	159,437	726	17,212,600	157,059
Region 11 Arkansas-White-Red		6,527	4,424,026	5,160,842	5,916	3,848,036	1.2	347	3,807,652	25,538	310	(D)	22,452
Region 12 Texas-Gulf		7,264	2,134,675	3,444,968	6,775	2,018,669	1.1	356	40,566,835	423,271	316	23,110,954	233,521
Region 13 Rio Grande		3,826	381,861	879,725	2,209	255,825	2.4	123	10,553,440	205,824	116	10,511,440	205,218
Region 14 Upper Colorado		422	32,814	36,299	264	23,068	1.0	15	195,040	1,632	8	(D)	(D)
Region 15 Lower Colorado		1,460	376,905	1,236,055	1,242	224,483	3.8	62	9,976,648	215,002	59	9,972,988	214,988
Region 16 Great Basin		2,159	609,069	1,495,532	1,119	371,324	2.6	41	5,121,168	110,533	40	4,121,168	79,576
Region 17 Pacific Northwest		11,305	1,936,058	3,448,812	8,628	1,067,073	1.8	1,591	58,811,001	746,184	1,492	48,981,681	641,000
Region 18 California		24,220	4,527,622	10,601,649	17,055	2,220,026	2.5	924	214,270,436	2,972,267	760	140,524,075	1,928,945
Region 19 Alaska		124	1,375	1,109	121	1,365	0.8	152	1,871,024	12,900	150	1,636,704	11,897
Region 20 Hawaii		81	2,969	3,002	74	1,695	1.1	8	844,960	16,723	8	844,960	16,723

See footnote(s) at end of table.

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**Table 4. Estimated Quantity of Water Applied By Source: 2018 and 2013 (continued)**

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

Geographic area	On-farm surface water												
	Applied in the open						Applied under protection						
	Total			Only source			Total			Only source			
	Farms	Acres irrigated	Acre-feet applied	Farms	Acres irrigated	Average acre-feet applied	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)	
United States .....	2018 2013	35,179 34,322	6,286,005 6,369,961	8,272,467 9,193,479	23,080 19,917	3,184,852 2,961,176	1.4 1.6	3,564 3,114	271,338,773 318,948,518	1,909,476 3,493,459	2,637 2,082	109,927,686 168,533,862	1,119,162 1,831,371
<b>2018 DATA</b>													
Alabama .....		331	66,019	40,571	275	43,875	0.6	58	5,976,264	14,144	27	983,704	4,594
Alaska .....		18	109	78	16	100	0.7	53	233,331	1,286	37	111,011	1,217
Arizona .....		189	61,325	150,643	50	(D)	(D)	-	-	-	-	-	-
Arkansas .....		985	586,004	661,339	190	44,953	0.9	22	964,440	2,011	15	743,840	1,842
California .....		4,070	1,053,393	2,150,327	1,596	273,008	2.9	139	37,924,545	242,883	70	4,237,340	50,801
Colorado .....		2,222	321,482	415,599	1,609	235,976	1.3	44	347,600	3,873	32	177,200	2,776
Connecticut .....		186	2,470	(D)	133	1,172	1.0	85	8,894,320	(D)	66	(D)	(D)
Delaware .....		26	8,703	3,301	1	(D)	(D)	-	-	-	-	-	-
Florida .....		575	292,031	170,304	383	144,413	0.7	77	24,370,720	67,394	32	9,624,720	25,170
Georgia .....		1,048	155,095	97,385	489	44,251	0.4	61	7,713,270	85,400	54	2,119,570	38,308
Hawaii .....		162	2,733	4,424	161	2,716	1.6	65	1,230,360	14,825	61	213,400	1,056
Idaho .....		2,168	472,739	920,349	1,636	295,995	2.1	35	155,480	691	32	143,480	687
Illinois .....		238	14,960	7,101	168	9,497	0.5	85	35,962,000	159,758	51	4,393,300	16,140
Indiana .....		306	50,899	22,698	207	23,239	0.4	32	1,488,400	32,642	21	1,317,600	(D)
Iowa .....		114	5,105	1,433	90	4,003	0.3	69	2,076,620	17,105	26	247,620	7,458
Kansas .....		414	51,278	25,351	187	18,417	0.7	38	1,950,470	8,274	13	1,830,770	7,205
Kentucky .....		397	24,730	8,652	364	20,559	0.3	175	3,932,720	13,782	130	2,050,020	8,595
Louisiana .....		371	102,104	97,788	163	37,098	1.4	36	6,476,912	25,282	24	5,292,400	21,334
Maine .....		353	23,197	10,062	188	12,649	0.5	66	818,987	(D)	55	648,227	(D)
Maryland .....		234	24,817	10,592	164	7,106	(D)	41	1,893,680	19,319	13	112,320	337
Massachusetts .....		668	13,365	20,196	613	11,430	1.4	80	1,323,140	(D)	39	292,240	(D)
Michigan .....		948	142,566	77,302	395	40,348	0.5	58	3,178,680	27,100	56	2,978,680	27,023
Minnesota .....		262	20,362	11,000	169	12,496	0.6	60	1,494,768	33,920	52	838,416	23,557
Mississippi .....		376	135,050	77,959	158	43,153	0.5	4	(D)	(D)	4	(D)	(D)
Missouri .....		648	104,774	48,275	432	48,124	0.4	148	1,909,520	10,786	96	1,480,520	6,706
Montana .....		1,512	578,622	743,711	1,275	514,951	1.3	18	286,060	2,190	12	24,700	(D)
Nebraska .....		1,371	134,363	62,526	280	35,100	0.6	-	-	-	-	-	-
Nevada .....		461	178,917	392,846	310	77,850	1.9	-	-	-	-	-	-
New Hampshire .....		128	1,072	797	116	852	0.7	98	1,134,540	5,423	96	1,107,640	5,299
New Jersey .....		382	25,088	13,094	221	16,887	0.6	93	11,995,638	76,144	49	1,124,258	13,632
New Mexico .....		1,124	28,843	29,712	982	19,320	1.2	34	51,000	(D)	34	51,000	(D)
New York .....		587	21,780	19,585	463	17,154	1.0	265	5,704,820	14,258	222	3,430,130	8,397
North Carolina .....		1,235	108,355	45,193	1,089	97,608	0.4	177	17,462,094	327,950	137	15,694,958	314,411
North Dakota .....		97	20,839	18,590	68	4,423	1.1	3	(D)	(D)	2	(D)	(D)
Ohio .....		473	17,977	6,654	372	14,427	0.4	189	14,766,722	151,932	145	14,068,322	146,100
Oklahoma .....		269	42,914	37,727	220	33,082	0.9	30	2,136,426	10,724	14	480,500	252
Oregon .....		2,690	332,419	489,566	2,137	207,414	1.5	153	9,031,010	96,267	128	3,194,520	29,030
Pennsylvania .....		605	9,910	1,880	425	5,284	0.2	233	13,962,402	26,435	185	3,789,510	19,248
Rhode Island .....		23	924	(D)	5	356	0.3	27	248,520	311	12	(D)	52
South Carolina .....		272	43,332	26,313	167	14,219	0.4	22	1,237,136	2,385	8	19,136	104
South Dakota .....		121	23,317	22,588	79	16,832	1.2	13	51,984	442	11	39,984	337
Tennessee .....		257	13,102	14,301	228	12,306	1.1	192	3,388,944	68,293	170	2,836,944	64,383
Texas .....		1,127	232,125	297,901	661	137,523	1.6	117	19,939,439	60,323	62	6,229,020	26,908
Utah .....		1,451	118,611	226,030	1,185	89,236	2.1	-	-	-	-	-	-
Vermont .....		180	1,034	1,049	130	754	1.1	66	1,350,886	13,219	61	1,310,886	13,040
Virginia .....		476	38,215	10,093	436	31,953	0.2	126	14,678,372	101,400	122	8,714,672	43,802
Washington .....		1,373	115,267	218,746	1,065	76,769	1.7	43	2,545,360	9,737	37	1,323,760	6,199
West Virginia .....		147	5,545	1,437	139	(D)	0.3	84	223,248	2,041	78	207,648	1,988
Wisconsin .....		433	40,832	21,334	304	23,026	0.7	23	666,600	1,610	19	228,000	1,175
Wyoming .....		1,076	417,292	535,786	886	350,877	1.3	27	151,120	1,517	27	151,120	1,517
<b>Water Resources Regions</b>													
Region 01 New England .....		1,399	41,330	33,585	1,062	26,581	0.9	359	12,479,507	161,457	271	8,163,107	152,140
Region 02 Mid-Atlantic .....		1,700	115,645	47,273	1,239	66,730	0.4	538	40,550,382	190,876	393	10,500,050	51,335
Region 03 South Atlantic-Gulf .....		3,542	690,938	389,495	2,465	372,864	0.5	371	53,131,804	488,243	245	28,114,408	378,508
Region 04 Great Lakes .....		1,763	183,312	100,470	964	59,317	0.5	330	19,812,860	188,331	264	18,670,770	186,090
Region 05 Ohio .....		1,400	62,537	26,055	1,166	51,834	0.4	547	17,496,414	150,160	452	13,626,714	122,239
Region 06 Tennessee .....		340	29,444	25,160	299	21,125	0.9	188	6,219,552	29,783	177	2,919,552	24,833
Region 07 Upper Mississippi .....		918	101,433	45,569	692	58,676	0.5	206	35,899,812	207,733	112	2,163,160	45,068
Region 08 Lower Mississippi .....		1,273	683,065	725,743	208	60,344	1.2	38	6,847,552	26,329	24	5,660,240	22,334
Region 09 Souris-Red-Rainy .....		197	29,184	18,602	149	(D)	(D)	22	80,400	121	22	80,400	121
Region 10 Missouri .....		4,379	1,048,264	1,152,559	2,495	766,496	1.2	174	4,188,699	20,975	125	3,437,274	15,639
Region 11 Arkansas-White-Red .....		1,337	280,581	222,442	854	111,289	1.0	79	3,007,926	14,240	31	976,500	2,398
Region 12 Texas-Gulf .....		927	128,675	188,485	553	56,063	2.0	117	19,939,439	60,323	62	6,229,020	26,908
Region 13 Rio Grande .....		1,095	98,040	142,468	936	82,403	1.5	34	51,000	867	34	51,000	867
Region 14 Upper Colorado .....		1,956	343,959	466,346	1,499	297,896	1.3	59	241,200	2,363	52	101,200	1,628
Region 15 Lower Colorado .....		314	66,353	160,510	175	(D)	(D)	-	-	-	-	-	-
Region 16 Great Basin .....		1,549	250,670	518,434	1,164	125,021	1.9	-	-	-	-	-	-
Region 17 Pacific Northwest .....		6,794	1,047,015	1,818,946	5,379	705,535	1.8	245	12,003,990	108,680	205	4,672,540	35,982
Region 18 California .....		4,116	1,082,718	2,185,823	1,604	285,088	2.8	139	37,924,545	242,883	70	4,237,340	50,801
Region 19 Alaska .....		18	109	78	16	100	0.7	53	233,331	1,286	37	111,011	1,217
Region 20 Hawaii .....		162	2,733	4,424	161	2,716	1.6	65	1,230,360	14,825	61	213,400	1,056

See footnote(s) at end of table.

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**Table 4. Estimated Quantity of Water Applied By Source: 2018 and 2013 (continued)**

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

Geographic area	Off-farm water from all suppliers												
	Applied in the open						Applied under protection						
	Total			Only source			Total			Only source			
	Farms	Acres irrigated	Acres-foot applied	Farms	Acres irrigated	Average acre-foot applied	Farms	Square feet irrigated	Gallons applied (1,000)	Farms	Square feet irrigated	Gallons applied (1,000)	
United States	2018 2013	98,490 96,646	15,923,220 14,448,939	33,557,216 30,780,070	83,643 78,901	11,279,603 9,434,701	2.1 2.2	6,310 8,490	391,322,140 368,339,216	3,881,903 3,902,891	5,671 7,824	286,425,822 283,422,445	3,050,366 3,114,107
<b>2018 DATA</b>													
Alabama		142	19,899	12,953	97	12,423	0.8	98	9,490,140	44,912	74	9,202,140	44,269
Alaska		18	27	20	17	25	0.8	20	132,800	233	4	10,800	115
Arizona		1,923	658,483	3,114,995	1,723	503,595	5.1	71	2,136,240	25,117	68	2,132,580	25,104
Arkansas		147	18,635	18,766	118	9,826	1.2	77	1,721,374	16,756	66	1,492,774	16,623
California		21,415	4,235,756	11,741,622	15,316	2,143,046	3.1	812	148,161,234	1,486,116	687	93,108,716	909,868
Colorado		10,532	1,094,638	1,838,773	9,710	861,291	1.7	202	6,845,433	96,111	193	6,685,433	95,820
Connecticut		5	115	(D)	3	62	(D)	28	3,793,160	(D)	27	3,023,160	46,501
Delaware		10	12,460	6,004	4	16	0.3	4	25,200	32	4	25,200	32
Florida		236	333,586	495,701	140	309,658	1.5	29	14,408,458	119,113	28	13,885,738	118,129
Georgia		132	35,184	11,180	98	10,564	0.3	61	1,975,308	11,512	61	1,975,308	11,512
Hawaii		1,293	20,369	28,104	1,285	16,770	1.4	500	28,363,711	291,183	496	26,141,311	275,599
Idaho		11,145	1,885,411	3,835,413	10,012	1,410,601	2.0	140	1,161,248	16,798	110	908,748	15,991
Illinois		89	6,581	4,912	79	6,096	0.8	48	1,486,800	7,017	48	1,486,800	7,017
Indiana		94	8,309	3,063	74	7,134	0.4	89	2,625,168	27,626	89	2,625,168	27,626
Iowa		94	5,023	1,414	70	3,211	0.3	136	9,174,610	46,688	115	8,594,610	45,057
Kansas		396	78,312	50,831	235	24,765	0.9	109	2,738,044	29,925	98	2,668,744	29,727
Kentucky		296	2,479	1,469	270	2,443	0.6	373	4,959,812	28,131	345	3,716,312	26,900
Louisiana		96	24,794	26,264	83	15,694	1.6	68	635,500	6,864	60	627,500	6,801
Maine		78	3,089	858	48	2,546	0.3	19	383,348	(D)	19	383,348	(D)
Maryland		23	1,443	177	19	643	0.2	23	299,800	335	23	299,800	335
Massachusetts		98	2,243	678	97	2,044	0.3	101	1,373,560	(D)	71	473,560	(D)
Michigan		84	9,861	3,122	60	5,077	0.3	225	24,447,784	286,072	211	18,071,704	235,882
Minnesota		91	6,773	4,907	85	4,893	0.5	43	3,105,080	56,073	42	2,551,800	55,651
Mississippi		74	675	456	68	365	1.0	64	940,020	(D)	58	756,420	2,262
Missouri		240	5,157	1,914	167	2,873	0.3	116	2,663,840	42,155	94	2,560,640	41,903
Montana		6,500	1,496,472	1,744,436	6,081	1,376,878	1.1	54	576,972	4,507	48	567,372	4,256
Nebraska		2,142	653,634	576,187	884	250,865	1.0	37	549,585	(D)	28	548,460	(D)
Nevada		920	230,939	634,312	757	153,960	3.0	24	140,300	237	24	140,300	237
New Hampshire		82	561	85	39	98	(D)	82	858,700	10,939	77	841,300	10,919
New Jersey		121	911	482	121	911	0.5	53	1,510,000	2,174	53	1,510,000	2,174
New Mexico		6,404	309,874	572,588	4,957	243,485	2.0	61	1,867,280	(D)	54	1,839,280	18,115
New York		401	6,979	5,229	299	4,937	0.4	232	19,644,841	222,628	186	13,345,345	218,532
North Carolina		145	835	162	67	172	0.4	89	839,924	28,332	89	839,924	28,332
North Dakota		236	91,229	67,292	219	77,220	0.7	20	283,633	(D)	19	283,000	(D)
Ohio		222	2,564	1,491	188	2,387	0.6	210	7,095,715	96,835	185	6,983,715	95,676
Oklahoma		288	65,532	60,754	248	48,732	1.1	85	2,108,256	5,100	62	912,080	3,190
Oregon		7,390	814,713	1,536,900	6,970	642,470	1.8	245	17,544,800	287,554	236	13,172,840	205,467
Pennsylvania		189	879	347	156	691	0.4	192	9,927,316	46,957	164	9,448,548	46,436
Rhode Island		20	1,065	(D)	19	990	0.1	20	335,500	3,923	20	335,500	3,923
South Carolina		186	1,488	1,306	164	1,225	0.7	45	81,350	575	38	64,550	563
South Dakota		427	151,658	136,418	369	130,512	0.7	34	943,975	18,636	34	943,975	18,636
Tennessee		203	531	347	181	443	0.7	301	5,471,763	89,359	272	4,473,763	82,739
Texas		2,355	523,490	1,057,342	2,141	404,378	2.1	236	22,340,874	97,519	196	8,216,784	72,098
Utah		10,447	854,766	1,586,242	9,688	744,514	1.8	216	6,374,120	74,065	215	6,244,120	71,633
Vermont		54	733	228	49	671	0.2	97	1,104,950	6,323	91	1,054,950	6,196
Virginia		87	105	87	86	104	0.8	78	2,174,760	14,916	76	954,160	(D)
Washington		6,671	1,236,367	2,824,191	6,073	947,442	2.3	248	13,343,440	131,670	218	7,141,120	94,138
West Virginia		84	150	86	61	127	0.5	99	1,908,828	7,505	99	1,908,828	7,505
Wisconsin		75	8,431	2,438	36	2,214	0.6	54	421,200	436	54	421,200	436
Wyoming		4,090	1,000,012	1,544,517	3,912	888,516	1.5	42	826,386	7,102	42	826,386	7,102
<b>Water Resources Regions</b>													
Region 01 New England		314	7,479	1,855	235	6,144	0.3	280	6,934,068	74,558	243	5,236,668	67,968
Region 02 Mid-Atlantic		464	15,673	7,062	378	2,239	0.4	316	18,886,165	60,631	248	12,542,821	57,461
Region 03 South Atlantic-Gulf		869	378,749	517,018	613	324,788	1.5	399	28,019,460	208,270	360	26,572,740	204,963
Region 04 Great Lakes		522	22,864	10,985	416	16,001	0.4	546	40,401,429	542,131	501	33,501,309	489,437
Region 05 Ohio		690	8,941	3,957	612	8,420	0.4	852	16,232,181	159,932	790	13,874,801	143,245
Region 06 Tennessee		191	13,048	4,778	158	9,974	0.4	148	3,198,542	42,770	147	2,466,542	39,689
Region 07 Upper Mississippi		293	19,259	8,274	205	9,712	0.6	291	12,479,020	131,134	270	11,865,740	130,539
Region 08 Lower Mississippi		135	26,552	34,883	115	18,072	1.6	179	2,007,250	32,147	153	1,909,250	31,923
Region 09 Souris-Red-Rainy		74	3,697	4,544	70	1,937	1.0	15	248,108	1,746	15	248,108	1,746
Region 10 Missouri		13,817	3,193,098	3,870,378	11,520	2,468,543	1.2	324	15,320,127	162,414	309	14,766,377	160,831
Region 11 Arkansas-White-Red		2,135	323,493	330,794	1,878	230,290	1.1	235	4,880,177	25,344	188	3,384,901	23,084
Region 12 Texas-Gulf		1,942	476,611	976,023	1,814	362,314	2.2	244	22,352,874	97,530	204	8,228,784	72,108
Region 13 Rio Grande		5,471	309,766	461,231	3,899	190,888	1.7	49	522,200	13,390	42	494,200	12,783
Region 14 Upper Colorado		11,291	1,106,586	2,055,887	10,825	1,023,790	1.9	213	3,723,344	42,758	206	3,583,344	42,513
Region 15 Lower Colorado		2,301	706,154	3,329,827	2,101	551,266	5.1	81	2,202,440	25,811	78	2,198,780	25,797
Region 16 Great Basin		8,719	962,238	1,928,158	7,869	763,878	2.0	146	5,064,240	45,861	145	4,934,240	43,429
Region 17 Pacific Northwest		26,252	4,053,506	8,323,889	24,061	3,110,232	2.0	643	30,298,770	428,408	568	19,462,390	307,731
Region 18 California		21,699	4,275,110	11,659,549	15,572	2,164,320	3.0	829	150,055,234	1,495,652	704	95,002,716	919,404
Region 19 Alaska		18	27	20	17	25	0.8	20	132,800	233	4	10,800	115
Region 20 Hawaii		1,293	20,369	28,104	1,285	16,770	1.4	500	28,363,711	291,183	496	26,141,311	275,599

<sup>1</sup> Irrigated square feet under protection were converted to acres for each operation, rounded to nearest whole acre, and added to acres irrigated for the Total area column.

<sup>2</sup> Total gallons were converted to acre-feet. May not add due to rounding.