

Table 7. Estimated Quantity of Water Applied By Source: 2023 and 2018

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

Geographic area	Water applied from all sources									
	Total area ¹				Acres in the open			Area under protection		
	Farms	Acres irrigated	Acre-feet applied ²	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 2023	212,714	53,135,170	81,005,833	1.5	53,076,539	80,937,415	1.5	26,716	1,721,886,383	22,294,226
..... 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
2023 DATA										
Alabama	1,230	157,755	114,953	0.7	(D)	114,339	(D)	260	12,859,190	200,197
Alaska	359	1,677	1,183	0.7	(D)	1,159	(D)	251	1,627,816	7,939
Arizona	3,086	921,013	3,927,853	4.3	920,420	3,927,289	4.3	181	21,992,426	183,734
Arkansas	2,857	4,646,159	5,165,875	1.1	4,645,925	5,165,689	1.1	148	5,447,084	60,762
California	38,033	7,765,348	22,612,479	2.9	7,755,846	22,599,562	2.9	2,047	363,330,842	4,209,171
Colorado	12,865	2,368,208	3,741,792	1.6	2,367,382	3,740,814	1.6	556	18,382,301	318,828
Connecticut	622	4,448	5,527	1.2	3,645	4,646	1.3	368	24,099,129	286,959
Delaware	416	132,106	85,840	0.6	(D)	85,821	(D)	36	1,322,428	6,265
Florida	7,303	1,145,368	1,196,361	1.0	1,135,824	1,177,858	1.0	1,667	378,982,374	6,029,258
Georgia	4,234	1,222,368	1,299,133	1.1	1,221,632	1,298,711	1.1	465	16,878,623	137,489
Hawaii	1,850	36,166	56,495	1.6	(D)	55,589	(D)	519	28,096,748	295,374
Idaho	11,952	3,180,948	5,406,650	1.7	3,180,644	5,406,523	1.7	287	2,421,911	41,237
Illinois	2,141	680,392	410,707	0.6	679,401	409,679	0.6	574	25,293,626	334,917
Indiana	2,298	582,245	304,742	0.5	581,477	303,886	0.5	544	16,455,770	278,972
Iowa	1,176	235,413	126,121	0.5	234,886	125,420	0.5	323	11,172,960	228,548
Kansas	4,188	2,325,264	2,570,702	1.1	2,324,901	2,570,383	1.1	258	6,600,028	104,091
Kentucky	1,321	81,805	44,917	0.5	81,034	44,674	0.6	710	9,170,047	79,314
Louisiana	1,859	1,306,078	1,404,077	1.1	1,305,572	1,403,444	1.1	253	14,312,290	206,357
Maine	559	18,822	5,505	0.3	(D)	5,407	(D)	332	5,257,816	31,813
Maryland	916	130,707	63,301	0.5	(D)	62,740	(D)	335	13,938,928	182,662
Massachusetts	1,311	18,963	13,638	0.7	(D)	13,147	(D)	401	10,798,622	159,903
Michigan	4,602	750,576	422,884	0.6	746,242	417,925	0.6	1,615	141,161,153	1,615,952
Minnesota	2,446	558,507	394,240	0.7	557,770	393,326	0.7	483	16,470,436	297,987
Mississippi	1,671	1,713,436	1,465,904	0.9	1,713,175	1,465,708	0.9	193	5,535,045	64,009
Missouri	2,337	1,487,302	1,192,693	0.8	1,486,605	1,192,401	0.8	573	12,075,602	95,233
Montana	7,013	1,561,373	1,879,594	1.2	1,561,047	1,879,427	1.2	312	2,997,212	54,576
Nebraska	13,128	7,305,801	6,813,963	0.9	7,305,558	6,813,805	0.9	206	3,396,228	51,527
Nevada	1,604	767,374	2,248,818	2.9	767,294	2,248,790	2.9	80	674,134	9,199
New Hampshire	369	2,060	1,166	0.6	1,765	1,013	0.6	245	5,548,723	49,933
New Jersey	1,193	70,616	39,608	0.6	69,373	38,099	0.5	436	41,977,776	491,552
New Mexico	7,718	583,735	1,211,104	2.1	583,414	1,210,959	2.1	287	2,987,464	47,271
New York	2,439	49,251	24,324	0.5	47,118	22,607	0.5	1,446	46,271,926	559,335
North Carolina	2,907	152,023	121,203	0.8	150,265	120,223	0.8	1,202	33,056,546	319,482
North Dakota	601	246,363	167,812	0.7	246,301	167,778	0.7	53	653,150	10,977
Ohio	1,931	56,230	36,762	0.7	53,996	35,017	0.6	1,046	65,745,243	568,670
Oklahoma	1,734	539,181	665,465	1.2	538,934	665,291	1.2	164	5,305,060	56,718
Oregon	12,692	1,447,429	2,481,338	1.7	1,445,030	2,478,499	1.7	1,092	69,493,438	925,065
Pennsylvania	2,362	30,248	20,437	0.7	28,104	19,392	0.7	1,367	53,793,143	340,352
Rhode Island	225	3,931	3,018	0.8	(D)	2,965	(D)	132	1,797,847	17,253
South Carolina	1,572	187,519	147,623	0.8	(D)	147,461	(D)	432	6,301,189	52,817
South Dakota	1,352	379,630	257,779	0.7	379,485	257,704	0.7	116	2,182,771	24,425
Tennessee	1,388	174,162	81,066	0.5	173,528	80,834	0.5	527	10,027,549	75,693
Texas	10,896	3,724,195	4,606,066	1.2	3,720,978	4,599,571	1.2	653	125,179,812	2,116,398
Utah	10,432	986,166	2,221,874	2.3	985,863	2,221,470	2.3	179	7,309,038	131,794
Vermont	486	2,675	2,854	1.1	2,330	2,775	1.2	335	3,389,171	25,750
Virginia	1,350	55,802	35,605	0.6	(D)	34,365	(D)	631	22,777,843	404,177
Washington	9,988	1,706,118	3,637,714	2.1	1,704,878	3,636,947	2.1	878	22,191,094	249,958
West Virginia	505	2,179	1,154	0.5	1,775	1,068	0.6	374	3,062,923	28,095
Wisconsin	2,714	481,845	441,152	0.9	480,561	440,473	0.9	998	21,662,418	221,319
Wyoming	4,483	1,148,190	1,824,757	1.6	1,148,044	1,824,742	1.6	146	421,490	4,913
Water Resource Regions										
Region 01 New England	3,221	49,633	30,956	0.6	47,344	29,267	0.6	1,574	48,060,313	550,221
Region 02 Mid-Atlantic	6,918	444,120	254,441	0.6	438,415	249,422	0.6	3,156	154,628,160	1,635,336
Region 03 South Atlantic-Gulf	17,369	2,829,208	2,864,560	1.0	2,816,046	2,843,508	1.0	4,101	453,114,544	6,859,727
Region 04 Great Lakes	7,846	978,210	560,578	0.6	970,903	553,119	0.6	3,236	219,295,359	2,430,675
Region 05 Ohio	5,317	482,493	273,208	0.6	479,026	271,137	0.6	2,681	60,263,258	674,690
Region 06 Tennessee	1,279	85,450	51,282	0.6	(D)	51,102	(D)	531	7,601,730	58,520
Region 07 Upper Mississippi	7,863	1,846,988	1,285,771	0.7	(D)	1,283,578	(D)	2,079	54,232,136	714,484
Region 08 Lower Mississippi	6,170	8,377,798	8,419,014	1.0	(D)	8,418,276	(D)	383	17,662,010	240,399
Region 09 Souris-Red-Rainy	502	181,264	127,859	0.7	(D)	127,799	(D)	63	1,732,290	19,464
Region 10 Missouri	29,755	11,799,109	12,353,301	1.0	11,797,087	12,351,441	1.0	1,416	40,101,510	606,199
Region 11 Arkansas-White-Red	9,195	4,852,366	6,138,048	1.3	4,851,498	6,137,419	1.3	635	17,229,218	204,830
Region 12 Texas-Gulf	8,603	2,337,508	2,656,502	1.1	2,334,549	2,650,201	1.1	579	115,153,422	2,053,191
Region 13 Rio Grande	6,738	703,913	1,394,898	2.0	703,426	1,394,677	2.0	286	10,149,020	72,089
Region 14 Upper Colorado	10,851	1,293,636	2,174,334	1.7	1,293,341	2,174,034	1.7	274	4,286,644	97,871
Region 15 Lower Colorado	3,632	1,054,139	4,527,976	4.3	1,053,465	4,527,355	4.3	259	22,748,554	202,439
Region 16 Great Basin	10,533	1,609,059	4,053,103	2.5	1,608,762	4,052,734	2.5	179	7,032,422	120,110
Region 17 Pacific Northwest	36,245	6,394,164	11,469,055	1.8	6,390,033	11,465,253	1.8	2,445	95,321,425	1,238,778
Region 18 California	38,468	7,778,269	22,313,271	2.9	7,768,745	22,300,345	2.9	2,069	363,549,794	4,211,888
Region 19 Alaska	359	1,677	1,183	0.7	(D)	1,159	(D)	251	1,627,816	7,939
Region 20 Hawaii	1,850	36,166	56,495	1.6	(D)	55,589	(D)	519	28,096,748	295,374

See footnote(s) at end of table.

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Table 7. Estimated Quantity of Water Applied By Source: 2023 and 2018 (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	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 2023	107,126	35,658,101	43,899,332	90,220	27,890,224	1.2	17,360	1,178,279,052	14,994,073	16,375	993,055,594	13,346,581
..... 2018	111,913	36,158,867	41,503,077	89,956	27,309,018	1.1	16,362	1,025,109,884	9,912,941	15,252	803,985,687	8,098,759
2023 DATA												
Alabama	638	79,578	69,814	583	56,086	0.9	206	9,831,070	139,152	206	9,831,070	139,152
Alaska	154	1,270	1,047	150	1,266	0.8	146	1,008,796	5,305	146	1,008,796	5,305
Arizona	1,287	437,355	1,767,949	1,101	337,748	4.3	106	12,299,790	88,686	105	11,899,790	80,338
Arkansas	2,431	4,120,114	4,539,882	1,779	3,051,474	1.1	71	3,583,038	40,714	68	3,480,138	39,796
California	22,288	3,897,665	8,615,797	16,435	1,613,804	2.4	1,084	275,780,928	3,134,763	895	183,284,789	2,323,382
Colorado	1,977	893,769	1,217,278	1,354	664,994	1.4	166	5,370,305	59,532	143	4,330,805	48,860
Connecticut	279	1,367	822	252	1,094	0.6	305	13,556,129	108,572	300	11,025,209	97,627
Delaware	382	122,843	79,547	342	103,029	0.7	29	1,235,772	5,656	29	1,235,772	5,656
Florida	6,017	681,350	707,596	5,706	508,389	1.1	1,518	339,134,436	5,037,055	1,441	316,502,150	4,702,798
Georgia	3,316	1,010,259	1,078,793	2,686	780,503	1.2	371	13,549,327	113,637	366	13,128,443	111,467
Hawaii	112	3,937	8,408	107	1,695	0.9	24	4,410,984	19,110	24	4,410,984	19,110
Idaho	2,691	1,206,812	2,009,780	1,760	621,345	1.7	161	2,005,318	36,474	155	1,986,218	36,270
Illinois	1,714	668,988	403,092	1,700	666,188	0.6	428	13,450,430	176,280	425	13,427,930	176,153
Indiana	1,748	534,229	262,712	1,589	454,110	0.5	369	9,750,886	105,839	340	9,344,986	105,000
Iowa	849	223,695	118,461	801	220,972	0.5	164	1,875,081	(D)	155	1,552,784	32,951
Kansas	3,605	2,238,851	2,502,416	3,315	2,048,013	1.1	91	1,650,750	26,431	75	1,441,950	24,271
Kentucky	248	45,614	22,612	236	39,554	0.5	189	2,291,096	24,610	170	2,241,096	24,410
Louisiana	1,485	1,123,415	1,190,186	1,278	941,387	1.1	141	9,411,076	137,433	134	8,369,174	119,965
Maine	269	8,348	2,014	259	2,194	0.4	252	1,117,352	9,302	250	1,072,285	9,247
Maryland	596	104,939	48,126	499	79,909	0.5	238	7,747,596	64,367	215	5,285,372	58,176
Massachusetts	359	2,822	1,537	319	1,337	0.6	287	6,715,256	66,050	275	6,120,520	89,736
Michigan	3,036	619,989	342,410	2,596	419,363	0.6	1,182	62,311,471	930,095	1,099	53,012,631	574,048
Minnesota	2,056	530,346	360,031	1,941	498,043	0.7	412	13,491,680	234,174	401	9,457,720	147,796
Mississippi	1,397	1,669,191	1,395,230	1,169	1,354,865	0.8	123	4,873,038	54,707	116	4,520,888	48,316
Missouri	1,567	1,441,727	1,164,966	1,449	1,416,738	0.8	303	7,524,528	59,463	292	7,314,128	59,159
Montana	906	51,347	49,937	477	23,713	0.9	233	2,121,070	39,388	221	1,993,890	37,338
Nebraska	12,023	6,882,216	6,382,707	10,647	5,812,320	0.9	159	2,709,532	36,506	126	2,614,132	36,248
Nevada	579	237,105	707,578	468	170,377	2.9	54	362,692	5,424	52	358,292	5,397
New Hampshire	159	618	253	141	331	0.6	188	4,313,031	43,467	186	4,284,231	43,409
New Jersey	820	51,037	30,028	689	41,134	0.6	325	40,099,142	471,711	324	31,499,142	430,593
New Mexico	2,763	303,337	662,368	2,071	257,355	2.1	162	1,831,584	26,248	140	1,768,240	25,978
New York	795	23,792	11,581	707	22,721	0.5	893	22,826,048	244,316	804	22,379,380	234,856
North Carolina	1,237	75,774	58,126	1,109	66,604	0.8	877	12,865,896	113,132	875	12,793,896	112,470
North Dakota	378	183,085	124,148	341	153,699	0.7	17	290,700	7,739	14	275,300	(D)
Ohio	805	36,969	21,728	739	28,776	0.6	557	13,569,586	79,529	508	11,758,246	79,038
Oklahoma	1,268	502,645	626,680	1,261	483,949	1.2	96	2,867,300	16,383	96	2,867,300	16,383
Oregon	4,923	570,163	914,870	3,988	399,381	1.7	731	50,191,498	546,198	691	33,724,598	454,257
Pennsylvania	979	9,648	5,455	915	8,374	0.6	1,006	35,949,533	270,940	976	35,051,289	264,510
Rhode Island	114	1,817	1,182	109	1,374	0.6	97	1,267,790	13,619	89	1,159,590	13,366
South Carolina	1,040	162,182	130,417	957	133,164	0.8	310	5,881,759	49,675	302	5,705,759	49,275
South Dakota	860	299,333	191,948	805	285,908	0.6	77	1,529,311	16,765	77	1,529,311	16,765
Tennessee	715	157,687	73,418	713	157,407	0.5	290	5,796,480	46,099	272	4,884,760	38,692
Texas	8,029	3,112,664	3,772,259	7,715	2,933,261	1.2	379	102,604,476	1,846,536	346	92,125,236	1,772,872
Utah	1,261	243,868	746,876	1,003	211,936	3.1	25	2,091,200	35,312	24	1,221,200	26,328
Vermont	262	815	658	206	437	0.7	259	2,498,543	13,155	246	2,393,804	12,852
Virginia	729	8,230	5,261	679	6,422	0.7	497	14,430,451	321,199	474	12,297,599	305,834
Washington	3,621	548,572	994,116	3,118	387,355	1.7	572	8,530,792	99,279	569	8,096,092	96,017
West Virginia	134	887	578	128	815	0.7	217	1,268,115	(D)	217	1,268,115	(D)
Wisconsin	1,840	447,562	365,010	1,615	381,930	0.8	881	18,258,130	195,734	829	15,572,304	179,036
Wyoming	385	78,275	111,644	213	37,381	1.8	92	148,260	1,296	92	148,260	1,296
Water Resource Regions												
Region 01 New England	1,250	15,327	6,138	1,132	6,411	0.5	1,206	27,457,466	274,910	1,177	24,149,743	257,287
Region 02 Mid-Atlantic	3,886	314,726	177,174	3,455	257,021	0.6	2,438	115,436,414	1,187,719	2,335	101,160,594	1,113,353
Region 03 South Atlantic-Gulf	12,385	1,994,033	2,036,969	11,179	1,537,519	1.1	3,324	385,969,783	5,547,579	3,228	362,318,713	5,203,704
Region 04 Great Lakes	4,386	814,050	456,279	3,801	567,090	0.6	1,139	81,817,172	874,071	1,983	68,491,009	799,016
Region 05 Ohio	2,223	414,729	223,942	2,049	380,776	0.5	1,321	25,030,068	246,117	1,209	24,321,668	243,964
Region 06 Tennessee	593	35,792	29,663	547	27,112	1.0	342	4,583,350	39,931	324	3,671,630	32,524
Region 07 Upper Mississippi	6,007	1,749,398	1,162,858	5,610	1,641,623	0.7	1,625	39,603,111	531,595	1,562	34,638,104	436,639
Region 08 Lower Mississippi	5,581	7,681,651	7,566,094	4,620	6,272,004	1.0	188	10,889,830	151,229	175	9,742,778	132,838
Region 09 Souris-Red-Rainy	376	154,112	99,806	355	128,469	0.6	40	1,409,040	15,621	39	1,394,640	15,498
Region 10 Missouri	17,082	8,705,033	8,125,406	14,737	7,380,319	0.9	748	14,820,930	176,398	679	13,470,830	165,114
Region 11 Arkansas-White-Red	6,013	4,353,784	5,295,686	5,540	3,872,138	1.2	346	8,632,526	80,435	333	8,423,806	78,248
Region 12 Texas-Gulf	6,478	1,817,286	2,001,294	6,310	1,754,969	1.1	367	94,201,036	1,803,434	334	83,721,796	1,729,769
Region 13 Rio Grande	3,136	411,024	843,272	2,215	278,216	2.1	156	9,723,444	67,764	137	9,673,680	67,534
Region 14 Upper Colorado	186	4,175	4,627	153	1,142	2.6	39	865,420	6,674	34	860,420	6,658
Region 15 Lower Colorado	1,525	468,225	1,864,382	1,332	368,557	4.2	158	12,479,630	92,263	152	12,070,270	83,882
Region 16 Great Basin	1,720	521,358	1,515,268	1,351	422,035	2.9	47	2,305,400	37,399	44	1,431,000	28,388
Region 17 Pacific Northwest	11,555	2,255,235	3,793,641	9,037	1,347,733	1.7	1,600	61,634,772	699,039	1,543	44,591,392	601,651
Region 18 California	22,478	3,942,956	8,687,378	16,540	1,644,129	2.3	1,106	275,999,880	3,137,480	917	183,503,741	2,326,099
Region 19 Alaska	154	1,270	1,047	150	1,266	0.8	146	1,008,796	5,305	146	1,008,796	5,305
Region 20 Hawaii	112	3,937	8,408	107	1,695	0.9	24	4,410,984	19,110	24	4,410,984	19,110

See footnote(s) at end of table.

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Table 7. Estimated Quantity of Water Applied By Source: 2023 and 2018 (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 2023	30,648	5,898,323	8,588,538	21,328	3,101,347	1.5	3,537	271,436,059	2,889,131	2,682	139,115,735	1,871,345
..... 2018	35,179	6,286,005	8,272,467	23,080	3,184,852	1.4	3,564	271,338,773	1,909,476	2,637	109,927,686	1,119,162
2023 DATA												
Alabama	319	66,944	36,209	288	38,699	0.5	-	-	-	-	-	-
Alaska	38	115	79	36	113	0.7	26	197,960	2,089	24	196,760	2,088
Arizona	324	84,945	317,556	234	67,420	3.4	-	-	-	-	-	-
Arkansas	851	531,628	603,787	202	44,670	1.3	24	705,736	6,438	21	419,336	2,493
California	3,315	1,070,618	2,256,263	1,533	316,942	2.5	117	44,889,520	297,258	43	6,701,040	87,629
Colorado	2,462	418,448	697,055	2,000	300,584	1.6	80	1,075,220	23,713	75	1,046,220	23,503
Connecticut	115	1,976	3,601	85	1,288	1.9	22	8,627,760	(D)	19	(D)	(D)
Delaware	56	10,965	6,264	16	830	0.6	-	-	-	-	-	-
Florida	683	250,122	163,909	446	163,983	0.7	152	21,466,166	382,269	75	10,316,600	248,602
Georgia	1,184	228,334	190,452	578	64,865	0.8	34	3,150,360	(D)	29	76,500	(D)
Hawaii	90	8,620	13,183	63	5,768	1.7	54	1,445,980	18,820	53	1,097,500	16,127
Idaho	2,006	522,021	823,460	1,554	322,937	1.6	17	76,180	612	13	65,680	591
Illinois	121	5,242	4,264	111	5,232	0.8	60	6,224,240	119,737	57	6,215,240	119,697
Indiana	332	53,306	27,842	173	8,442	0.3	49	4,697,180	164,100	37	4,337,180	161,368
Iowa	134	7,758	5,188	106	5,822	0.6	40	480,000	(D)	40	480,000	(D)
Kansas	439	74,381	39,468	250	36,621	0.6	37	2,769,320	42,776	31	2,642,120	40,769
Kentucky	321	29,983	14,441	315	23,983	0.5	183	2,498,617	17,770	153	2,056,849	12,895
Louisiana	298	133,692	165,864	122	52,147	1.4	30	3,494,282	44,721	21	1,599,780	16,291
Maine	74	5,891	2,100	66	4,571	0.4	42	3,770,764	20,861	41	3,727,764	20,845
Maryland	243	24,666	13,375	155	7,718	0.4	65	7,821,900	105,055	37	5,367,176	79,588
Massachusetts	564	14,252	10,535	536	12,730	0.7	23	(D)	10,795	20	(D)	(D)
Michigan	1,005	122,106	63,714	600	41,871	0.4	218	19,518,600	119,300	108	531,900	8,544
Minnesota	168	14,541	16,698	86	6,520	1.4	28	2,961,844	26,198	17	(D)	1,970
Mississippi	249	70,659	69,101	47	8,178	0.5	10	308,980	5,268	6	140,880	2,462
Missouri	414	39,147	24,806	304	23,339	0.7	120	2,252,648	17,840	104	2,008,616	17,529
Montana	1,354	490,981	613,523	1,107	436,631	1.3	33	93,228	511	29	89,928	507
Nebraska	835	73,818	50,918	173	11,195	0.8	29	(D)	341	-	-	-
Nevada	299	189,539	473,872	189	117,916	2.3	8	101,240	970	6	88,200	925
New Hampshire	80	968	626	52	559	0.8	24	840,208	(D)	22	811,408	1,029
New Jersey	314	18,809	7,872	183	12,468	0.4	40	2,267,600	12,355	23	66,000	631
New Mexico	471	26,452	54,277	392	23,548	2.2	52	99,920	852	34	72,600	657
New York	629	16,824	6,662	536	14,447	0.4	265	19,083,822	262,506	173	18,433,574	257,255
North Carolina	1,157	72,466	59,196	1,051	59,372	0.9	285	17,422,970	183,609	285	17,422,970	183,609
North Dakota	62	6,577	3,865	44	5,498	0.6	9	203,250	626	7	202,250	608
Ohio	433	15,115	10,388	344	7,149	0.5	300	29,869,738	302,959	249	17,106,458	218,131
Oklahoma	203	16,184	7,144	198	12,932	0.4	13	1,170,520	26,292	3	1,066,520	23,856
Oregon	2,426	328,513	515,885	1,806	205,005	1.7	155	20,052,684	160,884	106	1,364,084	17,922
Pennsylvania	584	12,764	8,984	537	10,945	0.8	275	12,705,200	58,609	248	12,569,324	57,570
Rhode Island	26	1,139	1,189	23	575	1.4	8	292,400	(D)	5	278,400	1,692
South Carolina	312	23,326	15,875	257	8,740	0.3	16	229,360	(D)	16	229,360	(D)
South Dakota	86	13,439	6,605	59	9,524	0.4	-	-	-	-	-	-
Tennessee	196	9,566	5,798	194	8,816	0.6	79	1,873,300	7,405	62	1,852,900	7,301
Texas	992	153,652	184,074	745	76,298	1.5	66	13,579,620	174,600	41	6,481,300	50,238
Utah	904	86,687	113,280	807	76,522	1.2	9	91,630	1,647	9	91,630	1,647
Vermont	113	1,552	2,086	58	990	1.7	54	(D)	1,300	38	171,268	1,252
Virginia	365	38,967	25,018	296	35,279	0.6	96	7,331,930	66,131	75	(D)	14,545
Washington	1,406	179,154	310,659	1,140	116,090	2.1	71	744,670	4,932	60	728,320	4,821
West Virginia	63	714	276	57	654	0.4	101	549,920	(D)	101	549,920	(D)
Wisconsin	656	38,172	72,491	393	20,332	2.7	95	2,647,626	8,134	45	189,192	775
Wyoming	877	292,585	468,761	781	264,589	1.6	23	27,788	129	21	25,988	97
Water Resource Regions												
Region 01 New England	878	25,183	19,806	763	20,380	0.8	138	15,038,290	182,033	126	11,707,410	168,125
Region 02 Mid-Atlantic	1,693	112,334	61,823	1,286	72,561	0.5	407	33,629,872	393,442	303	26,467,912	322,586
Region 03 South Atlantic-Gulf	3,593	627,208	460,877	2,535	335,080	0.7	510	43,092,586	605,060	407	28,191,060	436,448
Region 04 Great Lakes	1,750	147,818	80,404	1,154	54,261	0.4	482	55,725,074	483,931	297	22,052,402	280,852
Region 05 Ohio	1,110	56,744	26,171	940	34,206	0.4	756	23,650,415	322,815	648	21,030,547	305,324
Region 06 Tennessee	231	35,571	17,019	224	21,284	0.4	57	666,800	2,213	40	646,400	2,109
Region 07 Upper Mississippi	1,118	92,966	109,984	754	46,731	1.7	217	6,684,922	73,465	163	3,242,428	47,482
Region 08 Lower Mississippi	1,135	681,277	783,698	212	82,228	1.4	60	3,759,968	45,767	49	1,864,066	17,238
Region 09 Souris-Red-Rainy	53	9,163	8,179	38	3,403	0.7	16	(D)	2,498	16	(D)	2,498
Region 10 Missouri	3,628	857,613	1,152,245	2,425	654,634	1.4	183	3,035,680	27,236	127	2,672,548	26,322
Region 11 Arkansas-White-Red	1,273	292,126	349,730	900	126,693	1.4	55	3,545,190	64,876	35	3,022,270	56,549
Region 12 Texas-Gulf	630	56,664	69,124	473	37,153	1.6	59	13,567,440	174,335	34	6,469,120	49,973
Region 13 Rio Grande	638	64,506	105,887	478	47,076	1.8	44	83,840	(D)	34	72,600	(D)
Region 14 Upper Colorado	1,755	297,006	428,745	1,576	281,176	1.5	67	1,012,530	23,012	67	1,012,530	23,012
Region 15 Lower Colorado	361	98,676	364,927	264	81,036	3.4	7	(D)	(D)	2	(D)	(D)
Region 16 Great Basin	1,160	272,118	612,931	955	190,440	2.1	14	116,440	1,184	12	103,400	1,139
Region 17 Pacific Northwest	6,110	1,090,634	1,695,152	4,684	694,574	1.6	268	20,947,942	166,811	202	2,229,492	23,716
Region 18 California	3,404	1,071,981	2,228,574	1,568	312,550	2.5	117	44,889,520	297,258	43	6,701,040	87,629
Region 19 Alaska	38	115	79	36	113	0.7	26	197,960	2,089	24	196,760	2,088
Region 20 Hawaii	90	8,620	13,183	63	5,768	1.7	54	1,445,980	18,820	53	1,097,500	16,127

See footnote(s) at end of table.

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Table 7. Estimated Quantity of Water Applied By Source: 2023 and 2018 (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 2023	82,710	13,664,899	28,449,545	71,582	9,648,852	2.1	6,985	393,085,107	4,411,022	6,516	316,808,640	3,837,908
..... 2018	98,490	15,923,220	33,557,216	83,643	11,279,603	2.1	6,310	391,322,140	3,881,903	5,671	286,425,822	3,050,366
2023 DATA												
Alabama	200	12,927	8,316	175	12,499	0.6	54	3,028,120	61,046	54	3,028,120	61,046
Alaska	33	(D)	33	27	(D)	0.9	81	422,260	546	79	421,060	545
Arizona	1,614	442,011	1,841,784	1,439	360,425	4.5	76	9,692,636	95,048	75	(D)	(D)
Arkansas	159	14,513	22,020	134	1,027	0.6	57	1,158,310	13,610	55	954,810	11,718
California	18,197	4,118,571	11,727,502	12,944	2,034,159	3.2	1,057	108,234,452	777,150	912	68,096,434	547,666
Colorado	9,180	1,171,854	1,826,481	8,579	943,770	1.5	333	12,127,276	235,583	315	11,941,776	233,859
Connecticut	83	316	223	75	276	0.8	46	4,398,160	(D)	44	4,328,160	31,145
Delaware	3	(D)	10	3	(D)	0.6	7	86,656	608	7	86,656	608
Florida	209	311,831	306,353	131	259,812	1.0	74	26,267,338	609,934	74	26,267,338	609,934
Georgia	209	19,924	29,466	185	19,180	1.5	65	382,020	(D)	65	382,020	(D)
Hawaii	1,413	22,915	33,998	1,383	19,758	1.5	442	22,239,784	257,445	441	20,845,864	246,674
Idaho	8,238	1,489,490	2,573,283	7,495	1,067,391	1.7	117	350,913	4,151	111	336,913	3,983
Illinois	139	5,181	2,323	115	3,197	0.6	89	5,627,956	38,900	89	5,627,956	38,900
Indiana	197	14,931	13,332	129	7,706	0.6	155	2,413,604	9,033	138	2,367,704	8,854
Iowa	105	3,455	1,771	83	3,409	0.5	128	8,817,879	173,016	119	7,923,251	161,091
Kansas	353	45,269	28,499	246	22,311	0.6	147	2,311,158	34,884	136	2,001,986	32,045
Kentucky	322	5,437	7,621	316	5,431	1.4	375	4,380,334	36,934	350	3,142,842	31,114
Louisiana	189	51,725	47,394	147	23,699	1.3	91	1,406,932	24,204	89	1,403,932	24,138
Maine	25	(D)	1,293	23	2,164	0.4	40	379,767	1,651	39	334,100	(D)
Maryland	33	1,669	1,239	11	856	0.8	60	811,656	13,240	55	774,156	12,479
Massachusetts	221	1,609	1,075	209	1,561	0.7	106	(D)	53,059	94	2,448,548	52,232
Michigan	313	23,121	11,801	276	9,498	0.2	325	61,642,102	866,557	298	59,289,862	861,331
Minnesota	60	13,429	16,597	27	8,032	1.6	55	3,402,800	37,616	53	702,080	5,630
Mississippi	148	1,525	1,377	116	423	0.7	67	353,027	4,034	64	347,777	4,023
Missouri	277	5,751	2,629	219	4,308	0.5	168	2,473,426	17,930	159	2,319,586	15,924
Montana	5,170	1,025,696	1,215,967	4,842	963,693	1.1	58	833,914	14,677	50	680,514	11,429
Nebraska	1,653	404,858	380,180	832	136,588	0.9	51	688,696	14,680	47	686,696	14,652
Nevada	867	350,573	1,067,340	797	231,060	2.9	20	210,202	2,805	20	210,202	2,805
New Hampshire	39	416	134	28	28	1.2	35	424,284	(D)	35	424,284	(D)
New Jersey	87	243	199	87	243	0.8	88	1,812,634	7,486	72	1,611,034	6,471
New Mexico	5,142	286,236	494,314	4,451	243,597	1.7	101	1,119,304	20,171	85	1,079,680	20,012
New York	428	6,605	4,364	423	6,555	0.7	380	4,623,824	52,512	377	4,620,224	52,482
North Carolina	216	2,025	2,901	192	1,717	1.5	42	2,767,680	22,741	40	(D)	(D)
North Dakota	184	56,639	39,765	150	46,473	0.7	30	(D)	2,613	29	(D)	2,489
Ohio	281	10,254	2,901	225	2,519	0.4	241	35,154,199	186,182	238	23,996,759	169,550
Oklahoma	178	23,105	31,467	175	19,593	1.5	65	1,371,240	14,043	55	1,267,240	13,613
Oregon	6,136	604,365	1,047,744	5,517	458,009	1.7	260	12,620,061	217,983	242	2,809,672	28,372
Pennsylvania	166	5,765	4,953	141	5,611	0.9	116	5,166,810	10,803	113	4,942,050	9,203
Rhode Island	34	830	594	32	828	0.7	35	(D)	(D)	30	239,657	(D)
South Carolina	151	2,603	1,169	123	778	0.3	114	366,070	(D)	106	190,070	1,902
South Dakota	407	66,728	59,151	379	65,667	0.9	39	653,460	7,660	39	653,460	7,660
Tennessee	163	6,275	1,618	163	6,275	0.3	176	2,357,769	22,188	175	2,029,469	20,329
Texas	1,883	564,172	643,238	1,789	505,562	1.2	244	12,145,924	95,262	233	12,015,236	92,969
Utah	8,563	657,536	1,361,314	8,308	629,055	2.1	146	5,996,208	94,835	145	3,996,208	75,539
Vermont	22	(D)	31	13	18	0.9	39	796,999	11,296	34	717,440	11,130
Virginia	116	(D)	4,086	85	6,688	0.5	80	1,015,462	16,846	40	(D)	2,095
Washington	5,366	1,010,793	2,332,172	5,012	803,031	2.2	247	12,916,682	145,747	237	12,688,032	143,975
West Virginia	38	174	214	38	174	1.2	56	(D)	(D)	56	(D)	(D)
Wisconsin	122	4,043	2,972	55	1,609	1.0	74	2,989,096	17,452	72	2,988,096	17,446
Wyoming	3,378	785,651	1,244,337	3,238	702,544	1.6	33	245,442	3,488	31	243,042	3,439
Water Resource Regions												
Region 01 New England	406	7,342	3,323	371	4,861	0.6	262	8,184,304	93,278	242	7,774,749	91,671
Region 02 Mid-Atlantic	472	15,157	10,425	419	13,405	0.7	439	10,230,018	54,174	390	9,520,916	49,187
Region 03 South Atlantic-Gulf	948	342,534	345,662	759	287,183	1.0	380	32,316,825	707,087	353	31,558,825	693,500
Region 04 Great Lakes	767	33,959	16,436	673	17,918	0.4	804	99,076,104	1,072,672	768	85,484,185	1,050,629
Region 05 Ohio	824	24,259	21,024	708	(D)	1.2	736	12,120,675	105,758	692	10,729,383	99,130
Region 06 Tennessee	285	(D)	4,420	246	13,469	0.3	150	2,351,580	16,375	149	2,023,280	14,516
Region 07 Upper Mississippi	397	18,238	10,736	281	10,854	0.5	301	11,648,241	109,424	290	8,052,893	65,514
Region 08 Lower Mississippi	243	62,857	68,484	185	23,962	1.3	150	3,012,212	43,403	144	2,815,462	41,638
Region 09 Souris-Red-Rainy	53	(D)	19,814	37	14,477	1.2	8	(D)	1,345	7	(D)	1,222
Region 10 Missouri	11,106	2,386,895	3,073,790	9,582	1,858,970	1.3	563	22,695,900	402,566	532	22,190,400	397,189
Region 11 Arkansas-White-Red	2,093	333,222	492,003	1,954	256,056	1.5	259	5,289,422	59,520	243	4,988,110	57,108
Region 12 Texas-Gulf	1,405	493,092	579,783	1,375	469,752	1.2	189	10,535,164	75,422	178	10,404,476	73,129
Region 13 Rio Grande	3,874	271,299	445,518	3,035	181,289	1.6	111	391,500	(D)	90	(D)	3,389
Region 14 Lower Colorado	9,090	1,005,312	1,740,662	8,883	960,007	1.7	173	2,413,694	68,185	168	2,408,694	68,138
Region 15 Upper Colorado	1,878	530,460	2,298,046	1,703	448,874	4.6	100	(D)	(D)	99	9,588,924	96,117
Region 16 Great Basin	8,087	827,416	1,924,535	7,760	674,482	2.2	121	5,480,582	81,527	120	3,480,582	62,231
Region 17 Pacific Northwest	20,868	3,171,925	5,976,460	19,072	2,403,653	1.8	659	26,172,066	372,927	619	16,008,027	178,715
Region 18 California	18,468	4,086,571	11,384,393	13,129	1,979,279	3.1	1,057	108,234,452	777,150	912	68,096,434	547,666
Region 19 Alaska	33	(D)	33	27	(D)	0.9	81	422,260	546	79	421,060	545
Region 20 Hawaii	1,413	22,915	33,998	1,383	19,758	1.5	442	22,239,784	257,445	441	20,845,864	246,674

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

² Total gallons were converted to acre-feet. May not add due to rounding.