

**Table 15. Irrigation Wells Used on Farms: 2003 and 1998**

[Excludes abnormal and horticultural specialty farms. For meaning of abbreviations and symbols, see introductory text]

Geographic area	All wells used		Flowing or artesian wells used		Change in average depth to water <sup>1</sup>			
	Farms	Number	Farms	Number	Increased		Decreased	
					Farms	Number of wells	Farms	Number of wells
U.S. TOTAL . . . . . 2003 . . . . . 1998 . . . . .	104,776 102,291	379,674 374,956	1,895 3,120	3,823 6,010	13,228 (NA)	64,821 (NA)	12,171 (NA)	72,085 (NA)
<b>2003 DATA</b>								
Alabama	292	477	-	-	7	7	11	13
Alaska	54	57	-	-	8	8	-	-
Arizona	1,018	4,424	3	9	485	1,275	67	466
Arkansas	3,912	35,574	12	19	561	5,812	613	6,204
California	25,765	64,423	1,281	2,582	3,860	12,083	1,477	4,847
Colorado	2,331	10,646	68	154	759	3,848	614	3,201
Connecticut	102	146	8	24	-	-	26	26
Delaware	177	709	-	-	2	(D)	5	22
Florida	7,216	16,376	104	339	167	769	264	637
Georgia	1,839	5,083	2	(D)	86	208	97	212
Hawaii	84	127	-	-	9	9	8	16
Idaho	2,528	6,796	27	52	994	2,579	336	1,234
Illinois	1,019	3,204	18	23	9	23	8	55
Indiana	918	2,318	2	(D)	12	40	5	8
Iowa	531	1,223	4	4	14	83	14	36
Kansas	4,400	19,124	-	-	964	4,348	1,151	5,358
Kentucky	149	231	-	-	-	-	7	21
Louisiana	1,738	6,276	-	-	81	295	66	396
Maine	342	420	35	37	-	-	-	-
Maryland	290	588	-	-	10	42	2	(D)
Massachusetts	215	315	32	32	-	-	-	-
Michigan	1,612	4,031	9	11	9	79	28	63
Minnesota	1,409	3,797	18	23	24	56	41	126
Mississippi	1,188	8,518	19	66	60	777	68	663
Missouri	1,584	10,913	-	-	33	433	81	384
Montana	1,022	1,732	17	34	5	12	71	101
Nebraska	15,637	69,583	-	-	2,188	10,972	3,238	17,491
Nevada	616	1,805	2	(D)	130	411	153	464
New Hampshire	81	97	6	6	-	-	3	3
New Jersey	486	844	-	-	7	45	19	70
New Mexico	2,500	8,061	39	97	345	2,029	313	1,943
New York	563	704	6	6	-	-	5	(D)
North Carolina	564	835	-	-	-	-	-	-
North Dakota	336	1,636	-	-	23	103	34	443
Ohio	266	375	3	3	-	-	13	13
Oklahoma	1,288	4,192	-	-	131	425	201	835
Oregon	3,666	7,590	32	74	78	217	79	247
Pennsylvania	746	961	-	-	46	89	8	10
Rhode Island	20	36	4	8	-	-	-	-
South Carolina	702	1,090	2	(D)	2	(D)	3	19
South Dakota	793	1,838	-	-	12	42	66	111
Tennessee	223	320	-	-	2	(D)	-	-
Texas	8,693	59,955	1	(D)	1,380	15,782	2,444	25,276
Utah	1,128	2,316	51	105	230	870	351	500
Vermont	103	119	16	16	5	10	-	-
Virginia	468	704	58	58	-	-	58	58
Washington	2,857	5,070	-	-	437	784	62	223
West Virginia	43	49	-	-	8	8	-	-
Wisconsin	903	3,002	-	-	8	88	8	114
Wyoming	359	964	16	30	37	142	53	167
<b>Water Resources Areas</b>								
WRA 01 New England	830	1,100	101	123	5	10	29	29
WRA 02 Mid-Atlantic	2,537	4,242	64	64	34	118	89	161
WRA 03 South Atlantic-Gulf	10,970	24,193	108	343	262	992	375	881
WRA 04 Great Lakes	2,221	5,338	12	14	13	145	51	95
WRA 05 Ohio	1,007	2,155	6	10	40	(D)	6	9
WRA 06 Tennessee	215	257	-	-	-	-	-	-
WRA 07 Upper Mississippi	3,476	10,023	29	30	50	155	52	259
WRA 08 Lower Mississippi	6,879	53,235	26	80	622	6,367	686	6,651
WRA 09 Souris-Red-Rainy	358	1,618	7	12	17	78	25	381
WRA 10 Missouri	20,893	86,654	16	30	2,932	14,213	4,081	21,357
WRA 11 Arkansas-White-Red	7,504	42,663	9	14	1,630	9,660	1,995	13,275
WRA 12 Texas-Gulf	6,977	46,483	-	-	861	12,146	1,914	19,662
WRA 13 Rio Grande	2,287	7,553	104	245	526	2,618	268	1,261
WRA 14 Upper Colorado	471	532	-	-	1	(D)	76	76
WRA 15 Lower Colorado	1,331	4,953	3	9	490	1,300	219	680
WRA 16 Great Basin	1,387	3,684	60	128	376	1,277	281	697
WRA 17 Pacific Northwest	9,424	20,192	67	137	1,488	3,559	528	1,737
WRA 18 California	25,871	64,615	1,283	2,584	3,864	12,087	1,488	4,858
WRA 19 Alaska	54	57	-	-	8	8	-	-
WRA 20 Hawaii	84	127	-	-	9	9	8	16

See footnote(s) at end of table.

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**Table 15. Irrigation Wells Used on Farms: 2003 and 1998 - Con.**

[Excludes abnormal and horticultural specialty farms. For meaning of abbreviations and symbols, see introductory text]

Geographic area	All pumped wells <sup>2</sup>								
	Farms	Number	Average well depth (feet)	Average depth to water <sup>3</sup> (feet)	Average pumping depth <sup>4</sup> (feet)	Average pumping capacity (gpm)	Average operating pressure (psi)	Average engine size (hp)	Average hours of operation (hours)
U.S. TOTAL . . . . . 2003 . . . . . 1998 . . . . .	104,776 102,291	375,851 368,946	238 238	97 93	158 148	819 844	37 37	78 (NA)	1,039 (NA)
<b>2003 DATA</b>									
Alabama	292	477	155	48	108	431	47	43	477
Alaska	54	57	130	85	106	287	59	20	173
Arizona	1,018	4,415	604	237	355	1,008	33	138	3,024
Arkansas	3,912	35,555	121	47	79	1,335	33	65	691
California	25,765	61,841	328	106	182	895	37	64	1,016
Colorado	2,331	10,492	178	78	120	738	35	63	1,472
Connecticut	102	122	135	69	104	125	35	8	241
Delaware	177	709	127	40	79	725	44	85	175
Florida	7,216	16,037	365	91	152	716	39	71	487
Georgia	1,839	(D)	305	91	153	716	51	90	368
Hawaii	84	127	228	135	180	1,418	50	107	1,188
Idaho	2,528	6,744	295	151	198	1,360	59	167	1,582
Illinois	1,019	3,181	111	34	68	873	43	72	459
Indiana	918	(D)	83	27	56	671	47	67	374
Iowa	531	1,219	115	30	70	738	43	57	318
Kansas	4,400	19,124	222	110	187	680	29	108	1,431
Kentucky	149	231	129	71	98	488	40	36	194
Louisiana	1,738	6,276	134	45	94	1,523	22	90	513
Maine	342	383	193	79	124	531	42	16	194
Maryland	290	588	134	46	84	490	42	52	214
Massachusetts	215	283	64	32	50	210	41	11	292
Michigan	1,612	4,020	121	41	86	556	67	66	467
Minnesota	1,409	3,774	130	37	77	635	49	61	539
Mississippi	1,188	8,452	115	41	68	1,663	35	78	501
Missouri	1,584	10,913	125	24	69	1,175	26	67	356
Montana	1,022	1,698	138	41	90	347	57	38	1,421
Nebraska	15,637	69,583	199	80	143	839	42	88	774
Nevada	616	(D)	344	97	176	1,213	39	119	2,044
New Hampshire	81	91	287	65	170	152	45	6	159
New Jersey	486	844	128	43	77	413	64	50	321
New Mexico	2,500	7,964	253	114	170	718	30	58	1,741
New York	563	698	88	40	62	243	56	37	188
North Carolina	564	835	156	64	112	121	40	10	574
North Dakota	336	1,636	93	36	69	640	46	54	619
Ohio	266	372	123	59	91	244	48	18	459
Oklahoma	1,288	4,192	220	113	182	611	33	130	1,527
Oregon	3,666	7,516	247	108	174	550	58	45	1,152
Pennsylvania	746	961	245	107	172	68	46	5	311
Rhode Island	20	28	213	127	181	22	23	3	1,019
South Carolina	702	(D)	175	49	97	327	41	21	216
South Dakota	793	1,838	132	41	90	713	51	61	786
Tennessee	223	320	158	52	99	760	39	51	181
Texas	8,693	(D)	292	173	244	358	25	80	1,678
Utah	1,128	2,211	317	87	166	904	42	70	1,590
Vermont	103	103	145	58	92	79	38	2	251
Virginia	468	646	256	98	178	155	57	5	161
Washington	2,857	5,070	298	117	207	681	63	88	1,497
West Virginia	43	49	276	68	201	108	48	2	417
Wisconsin	903	3,002	155	44	96	844	62	84	631
Wyoming	359	934	257	99	186	865	41	81	1,220
<b>Water Resources Areas</b>									
WRA 01 New England	830	977	152	63	104	305	41	11	252
WRA 02 Mid-Atlantic	2,537	4,178	169	65	113	343	52	38	248
WRA 03 South Atlantic-Gulf	10,970	23,850	328	86	145	661	42	69	446
WRA 04 Great Lakes	2,221	5,324	123	42	86	575	65	67	457
WRA 05 Ohio	1,007	2,145	102	37	69	667	47	61	360
WRA 06 Tennessee	215	257	147	63	101	394	42	27	423
WRA 07 Upper Mississippi	3,476	9,993	132	39	80	742	49	68	502
WRA 08 Lower Mississippi	6,879	53,155	121	42	78	1,416	31	73	578
WRA 09 Souris-Red-Rainy	358	1,606	93	28	63	646	47	54	632
WRA 10 Missouri	20,893	86,624	196	81	143	812	41	86	878
WRA 11 Arkansas-White-Red	7,504	42,649	264	149	225	661	28	114	1,506
WRA 12 Texas-Gulf	6,977	46,483	257	146	206	328	26	55	1,636
WRA 13 Rio Grande	2,287	7,308	240	82	135	940	31	62	1,330
WRA 14 Upper Colorado	471	532	82	38	59	522	41	12	1,407
WRA 15 Lower Colorado	1,331	4,944	573	222	333	973	34	130	2,813
WRA 16 Great Basin	1,387	3,556	353	97	183	1,126	40	104	1,924
WRA 17 Pacific Northwest	9,424	20,055	266	120	184	819	59	94	1,388
WRA 18 California	25,871	62,031	328	106	182	897	37	64	1,019
WRA 19 Alaska	54	57	130	85	106	287	59	20	173
WRA 20 Hawaii	84	127	228	135	180	1,418	50	107	1,188

<sup>1</sup> Increases and decreases in depth are reported over a five year period.

<sup>2</sup> Data do not include flowing or artesian wells.

<sup>3</sup> Depth at the start of the irrigation season.

<sup>4</sup> Depth to bowls or impellers.