

Table 18. Irrigation Pumps on Farms for Wells: 2003 and 1998

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

Geographic area	Farms	Pumps ¹	Average pumping capacity (see text) for -				Well pumps with average pumping capacity of -						
			All pumped wells (gpm)	Farms with one well (gpm)	Farms with two wells (gpm)	Farms with three wells (gpm)	Less than 499 gpm	500 to 749 gpm	750 to 999 gpm	1,000 to 1,499 gpm	1,500 to 1,999 gpm	2,000 or more gpm	
												Well pumps	Average gpm
U.S. TOTAL 2003 1998	104,776 102,291	375,851 368,946	819 844	623 (NA)	694 (NA)	825 (NA)	116,414 (NA)	63,720 (NA)	79,669 (NA)	65,311 (NA)	25,725 (NA)	25,012 (NA)	2,401 (NA)
2003 DATA													
Alabama	292	477	431	262	180	611	317	43	24	65	23	5	2,000
Alaska	54	57	287	283	305	350	53	-	2	2	-	-	-
Arizona	1,018	4,415	1,008	740	802	838	527	1,613	506	1,016	236	517	2,511
Arkansas	3,912	35,555	1,335	1,633	1,528	1,458	3,982	1,617	4,087	11,115	7,888	6,866	2,380
California	25,765	61,841	895	772	619	734	19,297	4,961	11,144	16,780	4,166	5,493	2,183
Colorado	2,331	10,492	738	1,015	574	804	2,684	2,402	2,849	1,858	461	238	2,390
Connecticut	102	122	122	151	-	46	122	-	-	-	-	-	-
Delaware	177	709	725	664	419	862	128	179	346	50	-	6	2,700
Florida	7,216	16,037	716	395	663	638	5,971	4,827	1,488	1,637	862	1,252	2,580
Georgia	1,839	(D)	716	408	507	745	1,712	733	880	1,447	261	48	2,671
Hawaii	84	127	1,418	603	755	968	41	-	63	-	4	19	6,207
Idaho	2,528	6,744	1,360	780	1,246	1,584	1,233	268	454	2,125	1,140	1,524	2,470
Illinois	1,019	3,181	873	707	911	936	212	688	1,188	940	106	47	2,623
Indiana	918	(D)	671	570	742	701	570	620	678	428	12	8	2,275
Iowa	531	1,219	738	581	690	792	273	163	480	267	28	8	2,550
Kansas	4,400	19,124	680	547	673	697	5,927	5,677	5,116	1,561	778	65	2,500
Kentucky	149	231	488	368	276	290	128	39	28	29	-	7	3,000
Louisiana	1,738	6,276	1,523	1,410	1,730	1,868	662	497	860	1,238	1,003	2,016	2,647
Maine	342	383	531	617	134	-	308	-	-	5	4	66	2,000
Maryland	290	588	490	352	575	402	269	158	126	35	-	-	-
Massachusetts	215	283	210	94	60	-	232	12	19	20	-	-	-
Michigan	1,612	4,020	556	419	344	568	1,339	1,247	1,089	309	36	-	-
Minnesota	1,409	3,774	635	548	582	585	854	1,489	1,247	168	16	-	-
Mississippi	1,188	8,452	1,663	215	1,750	1,894	596	261	297	2,441	1,663	3,194	2,445
Missouri	1,584	10,913	1,175	608	1,194	997	702	516	2,991	4,136	1,366	1,202	2,507
Montana	1,022	1,698	347	451	145	461	1,266	132	98	159	12	31	2,661
Nebraska	15,637	69,583	839	825	774	834	4,420	17,390	33,862	10,496	3,340	75	2,496
Nevada	616	(D)	1,213	828	1,064	1,211	207	150	322	590	261	273	2,460
New Hampshire	81	91	152	193	8	-	82	3	6	-	-	-	-
New Jersey	486	844	413	336	484	400	481	299	32	27	3	2	3,700
New Mexico	2,500	7,964	718	430	654	1,306	3,147	2,531	475	629	728	454	2,368
New York	563	698	243	188	442	302	604	87	4	3	-	-	-
North Carolina	564	835	121	70	272	188	806	13	16	-	-	-	-
North Dakota	336	1,636	640	832	798	646	471	365	689	93	6	12	3,000
Ohio	266	372	244	243	133	103	309	42	8	12	1	-	-
Oklahoma	1,288	4,192	611	444	604	898	1,847	1,109	681	244	235	76	2,389
Oregon	3,666	7,516	550	236	498	705	4,222	1,146	479	1,295	261	113	2,416
Pennsylvania	746	961	68	46	63	95	937	24	-	-	-	-	-
Rhode Island	20	28	22	45	5	-	28	-	-	-	-	-	-
South Carolina	702	(D)	327	166	391	348	896	65	49	78	-	-	-
South Dakota	793	1,838	713	678	629	718	321	493	795	210	19	-	-
Tennessee	223	320	760	413	1,033	800	88	107	19	71	16	19	2,511
Texas	8,693	(D)	358	559	524	535	44,272	9,769	3,447	1,371	311	782	2,554
Utah	1,128	2,211	904	810	1,034	978	548	312	350	712	47	242	2,304
Vermont	103	103	79	79	-	-	103	-	-	-	-	-	-
Virginia	468	646	155	129	150	-	638	-	8	-	-	-	-
Washington	2,857	5,070	681	516	797	657	2,255	999	637	515	354	310	2,457
West Virginia	43	49	108	139	10	-	49	-	-	-	-	-	-
Wisconsin	903	3,002	844	618	820	883	219	432	1,292	1,020	33	6	2,000
Wyoming	359	934	865	817	687	1,217	59	242	438	114	45	36	2,000
Water Resources Areas													
WRA 01 New England	830	977	305	327	80	46	842	15	25	25	4	66	2,000
WRA 02 Mid-Atlantic	2,537	4,178	343	187	265	396	2,817	728	510	112	3	8	2,950
WRA 03 South Atlantic-Gulf	10,970	23,850	661	335	598	630	10,051	5,676	2,461	3,216	1,146	1,300	2,584
WRA 04 Great Lakes	2,221	5,324	575	410	402	578	1,759	1,461	1,488	564	48	4	2,200
WRA 05 Ohio	1,007	2,145	667	447	584	543	638	455	541	437	64	10	2,320
WRA 06 Tennessee	215	257	394	351	211	391	144	86	2	20	-	5	2,000
WRA 07 Upper Mississippi	3,476	9,993	742	598	724	773	1,770	2,489	3,509	2,053	95	77	2,571
WRA 08 Lower Mississippi	6,879	53,155	1,416	1,413	1,562	1,598	3,899	2,570	6,871	17,192	10,384	12,239	2,449
WRA 09 Souris-Red-Rainy	358	1,606	646	750	730	647	445	452	609	77	11	12	3,000
WRA 10 Missouri	20,893	86,624	812	789	752	799	9,063	21,574	38,806	13,054	3,894	233	2,501
WRA 11 Arkansas-White-Red	7,504	42,649	661	509	697	846	17,127	11,473	7,169	3,149	2,539	1,192	2,397
WRA 12 Texas-Gulf	6,977	46,483	328	530	535	489	37,179	4,665	2,490	1,047	487	615	2,531
WRA 13 Rio Grande	2,287	7,308	940	571	708	1,299	1,251	2,375	1,134	1,224	564	760	2,456
WRA 14 Upper Colorado	471	532	522	439	1,000	-	150	223	-	155	1	3	2,200
WRA 15 Lower Colorado	1,331	4,944	973	638	771	838	730	1,674	605	1,154	252	529	2,513
WRA 16 Great Basin	1,387	3,556	1,126	1,036	1,077	1,027	523	423	598	1,149	350	513	2,400
WRA 17 Pacific Northwest	9,424	20,055	819	448	613	913	8,613	2,420	1,637	3,842	1,661	1,882	2,454
WRA 18 California	25,871	62,031	897	775	633	736	19,319	4,961	11,149	16,839	4,218	5,545	2,187
WRA 19 Alaska	54	57	287	283	305	350	53	-	2	2	-	-	-
WRA 20 Hawaii	84	127	1,418	603	755	968	41	-	63	-	4	19	6,207

See footnote(s) at end of table.

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Table 18. Irrigation Pumps on Farms for Wells: 2003 and 1998 - Con.

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

Geographic area	Farms	Pumps ¹	Average operating pressure (see text) for -				Well pumps with average operating pressure of -					
			All pumped wells (psi)	Farms with one well (psi)	Farms with two wells (psi)	Farms with three wells (psi)	Under 30 psi	30 to 59 psi	60 to 79 psi	80 to 99 psi	100 or more psi	
											Well pumps	Average psi
U.S. TOTAL 2003 1998	104,776 102,291	375,851 368,946	37 (NA)	43 (NA)	39 (NA)	41 (NA)	131,087 (NA)	186,826 (NA)	46,713 (NA)	5,722 (NA)	5,503 (NA)	116 (NA)
2003 DATA												
Alabama	292	477	47	46	39	54	93	200	160	20	4	100
Alaska	54	57	59	60	50	50	5	30	8	6	8	130
Arizona	1,018	4,415	33	28	40	36	1,738	2,671	6	-	-	-
Arkansas	3,912	35,555	33	28	27	31	14,870	16,782	3,838	65	-	-
California	25,765	61,841	37	37	28	39	18,292	33,580	9,655	18	296	117
Colorado	2,331	10,492	35	40	35	37	3,099	6,437	886	70	-	-
Connecticut	102	122	35	35	-	36	77	32	10	3	-	-
Delaware	177	709	44	50	45	40	121	461	104	15	8	104
Florida	7,216	16,037	39	35	31	37	4,728	8,597	2,068	115	529	114
Georgia	1,839	(D)	51	47	47	53	528	2,526	1,462	427	138	113
Hawaii	84	127	50	46	44	46	13	85	4	16	9	119
Idaho	2,528	6,744	59	52	52	62	519	2,061	3,316	758	90	103
Illinois	1,019	3,181	43	50	46	45	523	2,091	503	44	20	127
Indiana	918	(D)	47	52	46	54	303	1,441	443	86	43	121
Iowa	531	1,219	43	50	41	41	255	741	155	51	17	134
Kansas	4,400	19,124	29	32	30	32	9,688	8,961	475	-	-	-
Kentucky	149	231	40	43	29	48	55	148	12	9	7	100
Louisiana	1,738	6,276	22	24	20	17	4,475	1,082	654	4	61	139
Maine	342	383	42	46	29	-	137	171	38	37	-	-
Maryland	290	588	42	42	44	34	147	304	125	6	6	143
Massachusetts	215	283	41	43	31	-	36	189	52	-	6	100
Michigan	1,612	4,020	67	60	53	70	278	1,585	960	460	737	119
Minnesota	1,409	3,774	49	57	51	54	419	2,261	692	195	207	110
Mississippi	1,188	8,452	35	56	36	41	2,917	4,047	1,399	17	72	164
Missouri	1,584	10,913	26	37	35	28	8,052	2,557	174	130	-	-
Montana	1,022	1,698	57	77	45	60	109	1,286	44	93	166	150
Nebraska	15,637	69,583	42	54	43	45	14,028	43,404	10,260	372	1,519	102
Nevada	616	(D)	39	37	37	38	373	1,188	208	34	-	-
New Hampshire	81	91	45	43	50	-	1	69	21	-	-	-
New Jersey	486	844	64	53	72	76	54	330	251	60	149	122
New Mexico	2,500	7,964	30	32	36	25	2,614	5,169	169	-	12	199
New York	563	698	56	50	81	57	18	456	118	25	81	105
North Carolina	564	835	40	35	40	40	295	319	211	-	10	127
North Dakota	336	1,636	46	44	50	46	248	1,044	168	174	2	105
Ohio	266	372	48	49	33	63	47	211	68	30	16	109
Oklahoma	1,288	4,192	33	41	29	33	1,663	2,334	133	39	23	112
Oregon	3,666	7,516	58	58	52	67	95	2,934	3,292	817	378	112
Pennsylvania	746	961	46	46	44	53	87	663	192	18	1	100
Rhode Island	20	28	23	18	26	-	16	12	-	-	-	-
South Carolina	702	(D)	41	40	35	74	35	930	91	32	-	-
South Dakota	793	1,838	51	56	56	49	222	990	301	290	35	102
Tennessee	223	320	39	40	37	34	36	257	4	20	3	150
Texas	8,693	(D)	25	38	28	34	38,821	19,898	969	151	113	154
Utah	1,128	2,211	42	50	30	36	272	1,620	319	-	-	-
Vermont	103	103	38	38	-	-	34	43	24	-	2	100
Virginia	468	646	57	57	60	56	2	382	245	4	13	100
Washington	2,857	5,070	63	59	55	56	297	2,310	1,428	643	392	137
West Virginia	43	49	48	48	50	-	-	41	6	2	-	-
Wisconsin	903	3,002	62	70	77	60	165	1,312	831	366	328	122
Wyoming	359	934	41	35	38	51	187	584	161	-	2	100
Water Resources Areas												
WRA 01 New England	830	977	41	42	32	36	289	500	140	40	8	100
WRA 02 Mid-Atlantic	2,537	4,178	52	49	56	55	432	2,408	987	127	224	117
WRA 03 South Atlantic-Gulf	10,970	23,850	42	39	35	42	5,677	12,559	4,339	594	681	114
WRA 04 Great Lakes	2,221	5,324	65	58	54	72	377	2,202	1,290	589	866	119
WRA 05 Ohio	1,007	2,145	47	51	43	58	284	1,311	434	68	48	114
WRA 06 Tennessee	215	257	42	38	45	57	38	167	40	9	3	150
WRA 07 Upper Mississippi	3,476	9,993	49	58	52	49	1,418	5,711	1,784	595	485	117
WRA 08 Lower Mississippi	6,879	53,155	31	26	26	28	26,168	21,700	5,015	139	133	153
WRA 09 Souris-Red-Rainy	358	1,606	47	44	50	50	166	1,027	254	151	8	106
WRA 10 Missouri	20,893	86,624	41	53	42	43	19,774	52,343	11,860	923	1,724	107
WRA 11 Arkansas-White-Red	7,504	42,649	28	34	29	30	23,779	17,640	1,117	40	73	118
WRA 12 Texas-Gulf	6,977	46,483	26	39	29	36	28,839	16,461	969	151	63	180
WRA 13 Rio Grande	2,287	7,308	31	30	35	30	2,211	4,966	119	-	12	199
WRA 14 Upper Colorado	471	532	41	42	17	-	8	372	150	-	2	100
WRA 15 Lower Colorado	1,331	4,944	34	36	38	36	1,792	3,097	55	-	-	-
WRA 16 Great Basin	1,387	3,556	40	43	35	37	605	2,485	432	34	-	-
WRA 17 Pacific Northwest	9,424	20,055	59	56	51	61	909	8,103	8,044	2,184	815	123
WRA 18 California	25,871	62,031	37	37	29	39	18,303	33,659	9,672	56	341	117
WRA 19 Alaska	54	57	59	60	50	50	5	30	8	6	8	130
WRA 20 Hawaii	84	127	50	46	44	46	13	85	4	16	9	119

¹ Data include only well pumps for wells used.