

**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023**

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

Geographic area	Total energy expenses for pumping <sup>1</sup>						Expenses (\$1,000)
	Farms	Pumps powered	Acres in the open by water source <sup>2</sup>		Square feet under protection by water source <sup>2</sup>		
			Water from wells	Surface water	Water from wells	Surface water	
United States .....	157,530	608,288	36,092,779	13,030,215	1,183,998,473	363,639,012	3,260,634
Alabama .....	1,068	2,220	79,890	72,770	10,503,770	(D)	6,343
Alaska .....	295	430	1,270	119	949,796	179,449	339
Arizona .....	1,420	5,001	444,418	159,100	12,289,290	5,379,680	82,372
Arkansas .....	2,691	48,235	4,120,110	541,993	3,582,438	909,556	187,695
California .....	27,879	100,089	3,987,589	3,816,261	273,691,571	94,350,845	1,122,896
Colorado .....	6,129	17,194	893,417	770,799	5,370,305	6,519,175	76,657
Connecticut .....	544	969	1,498	2,169	13,722,349	3,648,248	1,239
Delaware .....	408	1,979	126,563	10,803	1,235,772	-	9,313
Florida .....	7,161	20,889	692,760	520,174	348,536,036	47,726,704	83,342
Georgia .....	4,048	14,519	1,023,028	229,200	13,581,411	(D)	54,397
Hawaii .....	332	531	3,822	19,039	4,410,984	6,348,520	1,406
Idaho .....	7,195	24,921	1,186,778	1,471,045	1,932,118	115,805	183,827
Illinois .....	2,010	8,092	671,605	9,246	13,450,430	3,364,404	24,941
Indiana .....	2,092	6,767	552,257	47,595	9,747,510	4,543,340	16,737
Iowa .....	1,032	2,790	224,255	7,784	1,875,081	7,892,540	9,669
Kansas .....	3,986	19,582	2,269,852	110,887	1,643,150	3,675,840	123,526
Kentucky .....	666	1,241	45,593	21,364	2,274,896	1,882,517	2,562
Louisiana .....	1,717	11,563	1,123,411	179,500	9,411,076	4,262,018	39,561
Maine .....	451	859	8,260	8,648	1,043,577	3,715,967	1,291
Maryland .....	833	2,460	109,048	23,655	7,832,696	7,072,082	7,280
Massachusetts .....	1,050	2,450	2,993	16,520	6,751,616	717,090	4,331
Michigan .....	4,186	12,255	627,061	117,259	62,303,871	27,337,752	39,194
Minnesota .....	2,368	6,669	530,609	22,541	13,426,880	775,044	17,211
Mississippi .....	1,528	16,016	1,700,611	57,017	4,873,038	232,100	46,994
Missouri .....	2,082	15,918	1,469,688	41,707	7,272,928	1,075,464	52,220
Montana .....	4,278	10,703	56,070	937,187	2,118,070	333,168	32,950
Nebraska .....	12,752	70,757	6,933,127	375,398	2,720,932	101,760	362,879
Nevada .....	851	2,451	235,174	172,406	345,092	70,788	18,819
New Hampshire .....	324	496	603	1,307	4,290,631	1,089,608	396
New Jersey .....	1,105	2,591	64,528	16,936	40,100,123	3,061,494	10,564
New Mexico .....	3,436	8,566	319,831	131,116	1,831,584	229,764	32,984
New York .....	1,817	3,230	23,522	18,197	22,944,528	16,668,716	4,234
North Carolina .....	2,548	5,809	75,737	62,903	12,688,296	14,705,206	9,962
North Dakota .....	548	2,213	183,277	56,195	290,900	219,590	7,911
Ohio .....	1,462	2,720	38,627	19,403	13,569,586	30,205,984	4,156
Oklahoma .....	1,504	5,686	526,329	34,098	2,867,300	844,528	32,686
Oregon .....	10,075	21,454	573,118	618,609	50,191,498	27,118,756	72,844
Pennsylvania .....	2,062	3,304	10,025	14,634	35,743,453	9,179,582	6,676
Rhode Island .....	180	274	2,126	1,905	1,220,936	291,438	451
South Carolina .....	1,369	3,435	163,741	23,457	5,876,839	226,168	8,249
South Dakota .....	1,176	3,170	300,349	78,219	1,525,311	200,000	9,790
Tennessee .....	1,071	2,432	157,662	15,046	5,076,360	1,856,334	6,589
Texas .....	8,974	70,223	3,189,488	283,218	102,547,048	8,573,358	285,544
Utah .....	4,157	7,588	243,021	330,247	2,089,200	2,308,550	31,902
Vermont .....	437	669	841	1,597	2,492,041	208,727	317
Virginia .....	1,267	2,277	8,093	44,709	13,789,059	4,403,018	3,736
Washington .....	8,089	21,601	557,322	1,065,264	8,499,092	3,149,563	82,633
West Virginia .....	413	536	883	713	1,268,115	650,720	330
Wisconsin .....	2,605	7,615	454,624	43,381	18,051,630	2,548,546	21,729
Wyoming .....	1,859	4,849	78,275	406,815	148,260	(D)	16,964
<b>Water Resource Regions</b>							
Region 01 New England .....	2,681	5,262	15,832	31,509	27,510,567	9,532,619	7,792
Region 02 Mid-Atlantic .....	6,228	13,754	335,757	116,581	114,820,863	27,944,811	40,345
Region 03 South Atlantic-Gulf .....	16,383	47,367	2,020,083	890,199	396,071,247	66,954,912	161,870
Region 04 Great Lakes .....	6,777	17,245	832,755	145,363	81,801,144	62,434,485	48,157
Region 05 Ohio .....	3,941	8,555	420,776	52,975	24,991,508	17,300,706	17,524
Region 06 Tennessee .....	862	1,552	35,730	45,473	3,685,630	(D)	3,923
Region 07 Upper Mississippi .....	7,456	24,185	1,761,570	107,097	39,383,011	5,963,236	68,473
Region 08 Lower Mississippi .....	5,945	81,964	7,740,159	711,536	10,889,830	4,916,048	295,283
Region 09 Souris-Red-Rainy .....	469	1,857	154,304	25,734	1,357,840	270,650	6,058
Region 10 Missouri .....	23,463	103,837	8,767,995	2,004,443	14,576,930	15,559,672	489,943
Region 11 Arkansas-White-Red .....	7,248	47,379	4,474,908	470,409	8,623,878	3,041,798	297,621
Region 12 Texas-Gulf .....	7,217	53,412	1,826,254	131,599	94,141,036	8,573,358	163,213
Region 13 Rio Grande .....	3,579	9,089	415,206	78,923	9,726,464	144,700	40,277
Region 14 Upper Colorado .....	3,847	6,476	4,154	517,043	865,420	1,364,909	15,505
Region 15 Lower Colorado .....	1,665	5,713	480,205	206,741	12,453,630	5,531,688	88,685
Region 16 Great Basin .....	4,374	8,887	500,502	387,143	2,301,300	(D)	50,079
Region 17 Pacific Northwest .....	26,509	69,827	2,266,997	3,276,956	61,526,872	30,528,272	338,426
Region 18 California .....	28,259	100,966	4,034,500	3,811,333	273,910,523	94,350,845	1,125,713
Region 19 Alaska .....	295	430	1,270	119	949,796	179,449	339
Region 20 Hawaii .....	332	531	3,822	19,039	4,410,984	6,348,520	1,406

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Total energy expenses for pumping <sup>1</sup> - con.					
	Expenses per irrigated acre for operations with only acres in the open <sup>2</sup> (dollars)		Expenses per irrigated acre for operations with only horticulture in the open <sup>2</sup> (dollars)		Expenses per 10,000 sq ft for operations with only irrigated horticulture under protection <sup>2</sup> (dollars)	
	Water from wells only	Surface water only	Water from wells only	Surface water only	Water from wells only	Surface water only
United States .....	61.95	56.56	142.95	101.06	493.26	164.53
Alabama .....	42.74	29.44	8.85	63.75	1,076.12	-
Alaska .....	59.66	96.17	117.90	51.56	643.54	2,709.10
Arizona .....	150.97	39.29	149.32	-	1,280.12	538.63
Arkansas .....	35.33	39.84	135.35	177.66	206.88	479.97
California .....	197.25	110.04	453.12	246.70	459.90	231.90
Colorado .....	56.21	40.35	85.50	105.56	855.79	898.98
Connecticut .....	189.40	74.87	259.24	36.45	459.38	-
Delaware .....	49.06	53.97	122.85	-	1,548.62	-
Florida .....	119.33	9.75	362.52	30.85	215.43	4.08
Georgia .....	42.95	31.16	80.50	202.74	644.00	1,025.42
Hawaii .....	50.95	27.76	(D)	(D)	466.60	802.08
Idaho .....	71.51	56.53	161.37	237.51	1,263.22	-
Illinois .....	33.79	70.26	42.02	66.26	739.90	267.65
Indiana .....	27.56	27.79	44.16	(D)	1,161.62	560.00
Iowa .....	39.95	17.88	60.10	-	79.92	109.79
Kansas .....	54.15	29.68	284.76	32.10	2,245.81	188.09
Kentucky .....	31.32	37.68	(D)	358.62	2,709.32	176.39
Louisiana .....	30.85	36.34	112.15	192.00	224.87	-
Maine .....	91.86	87.53	163.20	(D)	3,193.16	155.22
Maryland .....	49.70	64.38	268.48	36.17	628.39	(D)
Massachusetts .....	258.76	163.65	287.70	150.34	2,242.35	9,823.53
Michigan .....	53.49	29.49	39.40	77.27	356.73	22.07
Minnesota .....	29.54	12.12	73.12	250.00	160.61	833.33
Mississippi .....	25.91	39.36	70.31	12.38	481.38	125.00
Missouri .....	33.96	35.10	73.17	59.59	1,214.98	342.92
Montana .....	42.02	31.80	384.06	28.01	1,307.81	(D)
Nebraska .....	50.65	34.50	128.72	-	739.89	-
Nevada .....	79.12	7.11	354.50	-	826.45	-
New Hampshire .....	203.03	64.71	269.00	(D)	654.09	129.50
New Jersey .....	93.68	71.77	179.01	(D)	959.86	-
New Mexico .....	98.89	33.05	45.19	488.85	1,821.58	897.32
New York .....	101.82	86.57	156.08	201.38	415.56	18.27
North Carolina .....	63.09	59.29	79.96	155.53	1,338.71	139.99
North Dakota .....	35.03	26.12	59.94	60.00	654.17	(D)
Ohio .....	35.35	86.70	94.32	191.49	2,288.53	189.85
Oklahoma .....	60.19	26.96	53.39	123.75	380.71	-
Oregon .....	62.93	44.06	136.00	157.00	701.30	211.75
Pennsylvania .....	84.52	59.29	263.73	17.22	781.08	91.99
Rhode Island .....	35.97	68.56	17.08	78.72	1,604.15	(D)
South Carolina .....	35.91	96.76	31.95	246.67	6,333.41	-
South Dakota .....	20.86	31.31	97.52	(D)	3,326.59	(D)
Tennessee .....	33.92	32.15	67.31	58.47	1,646.31	447.76
Texas .....	86.92	39.48	66.49	88.88	199.81	249.38
Utah .....	73.07	46.10	102.44	91.22	333.33	(D)
Vermont .....	113.12	8.56	297.41	-	2,182.63	(D)
Virginia .....	102.90	43.10	68.15	59.44	874.81	15.98
Washington .....	50.90	49.70	234.02	112.58	5,680.19	1,503.29
West Virginia .....	23.82	28.13	(D)	20.45	1,199.02	167.48
Wisconsin .....	33.09	146.92	32.52	380.00	250.57	354.57
Wyoming .....	53.59	31.40	-	-	4,737.47	362.32
<b>Water Resource Regions</b>						
Region 01 New England .....	122.68	127.19	83.79	78.34	1,045.10	157.65
Region 02 Mid-Atlantic .....	62.34	56.19	166.05	83.75	702.64	73.92
Region 03 South Atlantic-Gulf .....	67.86	20.63	222.49	74.60	288.85	30.67
Region 04 Great Lakes .....	46.55	45.81	39.84	184.41	379.04	102.69
Region 05 Ohio .....	31.85	39.99	77.02	152.61	1,643.91	80.27
Region 06 Tennessee .....	67.81	28.13	159.66	27.31	2,617.23	(D)
Region 07 Upper Mississippi .....	32.21	80.94	54.57	70.48	601.11	207.81
Region 08 Lower Mississippi .....	32.16	34.63	72.44	313.95	1,118.22	625.58
Region 09 Souris-Red-Rainy .....	33.35	23.65	106.25	60.00	(D)	(D)
Region 10 Missouri .....	48.15	34.47	82.97	42.21	1,107.02	152.90
Region 11 Arkansas-White-Red .....	64.95	27.79	70.36	136.63	439.25	361.76
Region 12 Texas-Gulf .....	86.68	40.20	66.47	88.88	334.64	249.38
Region 13 Rio Grande .....	92.52	54.89	41.63	(D)	99.89	902.78
Region 14 Upper Colorado .....	235.94	33.47	(D)	111.47	(D)	650.17
Region 15 Lower Colorado .....	148.18	40.56	149.32	-	1,276.64	538.63
Region 16 Great Basin .....	75.93	39.79	106.35	101.60	1,594.05	(D)
Region 17 Pacific Northwest .....	63.35	49.60	158.85	156.70	1,356.07	943.00
Region 18 California .....	194.41	111.09	453.72	246.70	459.90	231.90
Region 19 Alaska .....	59.66	96.17	117.90	51.56	643.54	2,709.10
Region 20 Hawaii .....	50.95	27.76	(D)	(D)	466.60	802.08

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Total energy expenses for pumping <sup>1</sup> - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	36,848	22,482	33,672	19,628	16,999	14,592	13,309
Alabama .....	463	179	136	119	115	42	14
Alaska .....	221	48	13	6	7	-	-
Arizona .....	211	229	256	255	82	204	183
Arkansas .....	268	97	217	150	251	555	1,153
California .....	3,202	4,108	5,973	4,031	3,549	3,306	3,710
Colorado .....	1,294	962	1,539	835	551	556	392
Connecticut .....	339	107	49	29	16	1	3
Delaware .....	62	32	87	74	85	42	26
Florida .....	2,013	1,410	1,778	869	395	352	344
Georgia .....	895	320	1,038	533	636	438	188
Hawaii .....	139	62	80	4	39	5	3
Idaho .....	1,575	1,117	1,558	864	751	674	656
Illinois .....	227	282	581	376	267	165	112
Indiana .....	639	293	415	293	214	157	81
Iowa .....	386	155	175	83	117	64	52
Kansas .....	186	297	1,050	535	815	406	697
Kentucky .....	337	55	150	76	23	18	7
Louisiana .....	266	131	183	204	276	442	215
Maine .....	347	51	35	1	7	7	3
Maryland .....	211	176	181	99	82	54	30
Massachusetts .....	464	126	277	102	55	19	7
Michigan .....	1,737	649	660	493	380	97	170
Minnesota .....	632	194	748	403	226	109	56
Mississippi .....	267	195	205	122	256	186	297
Missouri .....	393	247	463	284	248	206	241
Montana .....	1,088	763	1,074	577	411	280	85
Nebraska .....	402	707	2,326	2,217	2,427	2,855	1,818
Nevada .....	90	166	295	113	8	117	62
New Hampshire .....	234	50	26	8	2	2	-
New Jersey .....	322	204	258	89	97	88	47
New Mexico .....	1,323	474	833	289	162	183	172
New York .....	1,239	208	201	83	53	30	3
North Carolina .....	1,079	522	613	144	80	85	25
North Dakota .....	49	56	148	135	99	31	30
Ohio .....	942	158	209	17	69	64	3
Oklahoma .....	357	299	267	226	157	51	147
Oregon .....	3,802	1,389	2,148	1,260	777	445	254
Pennsylvania .....	1,001	421	447	67	75	29	22
Rhode Island .....	107	28	28	9	6	-	2
South Carolina .....	342	244	378	252	76	48	29
South Dakota .....	79	216	365	135	238	138	5
Tennessee .....	421	91	276	116	78	76	13
Texas .....	1,545	1,269	1,844	996	1,061	862	1,397
Utah .....	827	995	955	440	494	399	47
Vermont .....	303	103	30	1	-	-	-
Virginia .....	594	307	215	62	65	15	9
Washington .....	2,241	1,660	1,948	896	562	451	331
West Virginia .....	340	39	28	6	-	-	-
Wisconsin .....	1,030	293	385	377	291	131	98
Wyoming .....	317	298	528	273	266	107	70
<b>Water Resource Regions</b>							
Region 01 New England .....	1,599	378	422	150	88	29	15
Region 02 Mid-Atlantic .....	2,583	1,076	1,264	464	453	254	134
Region 03 South Atlantic-Gulf .....	4,858	2,812	3,922	1,911	1,328	959	593
Region 04 Great Lakes .....	3,222	1,030	1,024	688	452	176	185
Region 05 Ohio .....	2,090	450	676	283	233	134	75
Region 06 Tennessee .....	429	103	181	61	65	10	13
Region 07 Upper Mississippi .....	1,883	972	1,801	1,150	890	468	292
Region 08 Lower Mississippi .....	549	325	705	527	823	1,300	1,716
Region 09 Souris-Red-Rainy .....	92	23	99	127	75	31	22
Region 10 Missouri .....	2,063	2,115	5,363	3,760	3,927	3,885	2,350
Region 11 Arkansas-White-Red .....	981	740	1,225	1,029	1,052	791	1,430
Region 12 Texas-Gulf .....	1,233	1,071	1,680	760	838	621	1,014
Region 13 Rio Grande .....	1,286	489	817	351	239	265	132
Region 14 Upper Colorado .....	1,001	924	1,054	504	253	91	20
Region 15 Lower Colorado .....	305	312	259	255	91	208	235
Region 16 Great Basin .....	789	869	1,146	515	461	474	120
Region 17 Pacific Northwest .....	8,280	4,516	5,857	3,014	2,061	1,543	1,238
Region 18 California .....	3,245	4,167	6,084	4,069	3,624	3,348	3,722
Region 19 Alaska .....	221	48	13	6	7	-	-
Region 20 Hawaii .....	139	62	80	4	39	5	3

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Electricity								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses (\$1,000)	Expenses per irrigated acre for operations with only acres in the open (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells only	Surface water only
United States .....	135,742	470,936	24,952,594	10,228,450	967,619,854	323,323,126	2,530,368	66.83	57.65
Alabama .....	864	1,688	64,029	37,224	(D)	(D)	3,980	40.80	23.53
Alaska .....	248	374	607	13	940,044	(D)	307	189.99	(D)
Arizona .....	1,351	4,488	413,053	101,571	12,289,290	(D)	74,770	147.41	30.61
Arkansas .....	2,095	24,938	2,087,329	194,300	3,582,438	711,928	86,474	32.75	44.65
California .....	26,534	90,710	3,550,631	3,019,750	273,497,213	(D)	1,018,510	207.77	117.87
Colorado .....	5,691	16,192	869,056	724,215	5,370,305	5,911,265	73,251	55.05	41.24
Connecticut .....	491	812	1,288	1,173	13,014,329	(D)	1,016	191.49	38.80
Delaware .....	315	1,317	80,472	4,307	1,124,780	-	7,047	96.45	-
Florida .....	5,425	11,450	337,138	157,472	186,693,915	43,081,138	31,177	86.16	16.08
Georgia .....	3,735	12,762	905,319	195,695	(D)	(D)	46,604	40.70	29.39
Hawaii .....	280	470	1,565	17,478	4,410,984	6,348,520	1,171	93.85	21.14
Idaho .....	7,061	24,621	1,179,737	1,458,479	1,932,118	113,303	183,034	71.97	56.74
Illinois .....	1,310	5,233	357,775	7,596	12,303,050	2,875,510	15,853	39.61	76.08
Indiana .....	1,739	5,100	428,538	19,910	8,890,150	4,480,940	11,394	24.01	29.03
Iowa .....	861	2,284	167,433	5,582	1,845,081	(D)	7,927	43.58	13.79
Kansas .....	2,338	8,013	780,164	30,957	1,643,150	(D)	36,913	47.83	19.65
Kentucky .....	367	724	31,302	11,843	1,679,896	76,808	1,756	33.56	33.84
Louisiana .....	1,271	6,258	497,443	68,431	9,367,876	2,839,838	17,118	31.95	33.82
Maine .....	307	845	374	98	865,577	3,627,967	394	110.57	(D)
Maryland .....	579	1,509	53,879	8,510	7,338,368	6,529,447	4,149	56.74	43.21
Massachusetts .....	544	1,055	1,931	3,014	3,103,596	(D)	1,393	309.55	125.29
Michigan .....	3,677	10,075	514,425	56,945	61,420,479	26,932,752	32,438	55.91	43.83
Minnesota .....	2,203	6,247	488,644	19,690	13,426,880	(D)	15,911	29.93	11.17
Mississippi .....	1,198	7,724	713,807	24,001	4,861,538	205,100	22,106	29.84	40.76
Missouri .....	1,298	7,783	744,786	18,132	6,623,648	277,602	27,461	35.37	27.22
Montana .....	3,912	9,796	45,028	835,119	2,115,070	(D)	28,809	44.59	31.56
Nebraska .....	9,640	47,475	4,709,030	249,669	2,646,016	87,000	228,120	46.78	23.26
Nevada .....	836	2,337	179,935	170,102	345,092	70,788	13,689	72.88	7.11
New Hampshire .....	278	392	573	448	3,684,151	626,768	253	241.44	26.79
New Jersey .....	805	1,387	28,385	1,524	(D)	-	5,742	118.38	54.79
New Mexico .....	3,115	7,510	264,868	58,339	1,831,584	(D)	28,795	106.33	29.90
New York .....	1,322	2,027	10,408	1,448	12,909,047	12,660,644	1,919	121.34	114.32
North Carolina .....	1,861	4,257	70,710	26,816	12,182,296	13,584,370	6,138	55.46	32.00
North Dakota .....	480	2,015	170,860	46,320	(D)	(D)	7,153	34.74	24.57
Ohio .....	1,079	1,830	31,368	6,865	12,829,888	24,886,143	3,188	25.99	180.61
Oklahoma .....	990	3,915	292,925	14,789	2,867,300	844,528	17,785	59.72	11.40
Oregon .....	9,710	20,674	555,790	593,678	50,021,130	27,105,876	71,225	64.68	43.48
Pennsylvania .....	1,276	2,221	6,569	3,886	32,519,053	8,404,219	5,447	55.69	71.41
Rhode Island .....	141	211	728	612	972,296	(D)	295	237.53	(D)
South Carolina .....	1,290	3,190	147,592	16,866	(D)	(D)	7,415	36.08	110.98
South Dakota .....	1,096	2,845	281,413	66,074	1,525,311	200,000	7,967	20.83	26.96
Tennessee .....	930	1,892	116,748	1,497	5,076,360	1,564,900	4,595	32.37	69.75
Texas .....	7,975	63,886	2,513,027	193,929	85,099,311	7,521,915	224,312	86.51	36.13
Utah .....	3,774	6,955	239,833	316,555	2,089,200	(D)	30,635	73.02	44.76
Vermont .....	350	534	661	1,053	2,450,041	(D)	218	127.06	(D)
Virginia .....	1,049	1,727	5,338	12,045	13,598,503	4,292,438	1,953	133.02	22.36
Washington .....	7,727	20,676	528,392	1,032,446	7,892,072	3,148,947	80,954	52.75	49.66
West Virginia .....	401	512	883	134	1,268,115	600,320	311	23.82	(D)
Wisconsin .....	2,183	5,915	406,119	19,623	17,814,702	2,546,170	15,894	32.88	173.62
Wyoming .....	1,740	4,556	74,215	372,227	148,260	(D)	15,401	49.83	30.95
<b>Water Resource Regions</b>									
Region 01 New England .....	1,871	3,018	5,682	6,149	22,121,407	8,215,085	3,422	218.54	92.29
Region 02 Mid-Atlantic .....	4,447	8,843	181,740	27,473	92,760,751	20,052,930	25,503	89.86	38.25
Region 03 South Atlantic-Gulf .....	13,450	33,999	1,509,857	433,103	(D)	59,829,724	95,667	50.30	26.69
Region 04 Great Lakes .....	5,593	13,832	689,469	67,252	78,538,408	56,867,043	38,924	47.56	73.85
Region 05 Ohio .....	2,884	5,783	286,535	19,099	23,590,030	14,402,081	11,968	31.55	38.55
Region 06 Tennessee .....	679	991	27,206	11,776	3,685,630	(D)	1,741	51.13	34.64
Region 07 Upper Mississippi .....	6,103	18,687	1,333,793	58,849	38,163,723	5,290,020	50,274	32.80	66.86
Region 08 Lower Mississippi .....	4,576	42,154	3,746,281	256,832	10,821,370	3,309,006	141,525	32.65	33.87
Region 09 Souris-Red-Rainy .....	426	1,754	150,612	19,596	1,357,840	216,650	5,631	32.84	(D)
Region 10 Missouri .....	18,704	75,177	6,176,425	1,694,278	13,971,994	13,604,210	333,142	44.97	33.07
Region 11 Arkansas-White-Red .....	4,941	27,940	2,136,609	302,048	8,566,278	2,871,088	148,653	67.42	26.54
Region 12 Texas-Gulf .....	6,663	51,414	1,636,385	90,840	76,706,591	7,521,915	142,549	84.71	41.84
Region 13 Rio Grande .....	3,234	8,028	378,371	75,070	(D)	109,500	35,451	89.82	29.17
Region 14 Upper Colorado .....	3,445	5,838	3,174	422,279	865,420	1,239,795	14,361	231.63	33.63
Region 15 Lower Colorado .....	1,568	5,048	436,344	135,774	12,453,630	(D)	80,326	147.90	38.52
Region 16 Great Basin .....	4,025	8,201	442,415	367,861	2,301,300	(D)	43,765	73.23	38.43
Region 17 Pacific Northwest .....	25,685	67,799	2,214,802	3,195,429	60,746,484	30,507,666	334,536	64.75	49.90
Region 18 California .....	26,920	91,586	3,594,722	3,027,251	273,716,165	(D)	1,021,454	204.75	118.36
Region 19 Alaska .....	248	374	607	13	940,044	(D)	307	189.99	(D)
Region 20 Hawaii .....	280	470	1,565	17,478	4,410,984	6,348,520	1,171	93.85	21.14

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Electricity - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	31,973	20,559	30,876	17,077	13,579	11,896	9,782
Alabama .....	362	185	100	101	95	14	7
Alaska .....	186	42	7	6	7	-	-
Arizona .....	175	229	255	236	120	169	167
Arkansas .....	195	117	209	182	323	554	515
California .....	2,983	3,883	5,854	4,025	3,159	3,168	3,462
Colorado .....	1,065	935	1,398	818	555	566	354
Connecticut .....	307	94	49	26	12	1	2
Delaware .....	37	22	97	72	46	28	13
Florida .....	1,876	1,184	1,381	473	190	201	120
Georgia .....	777	347	1,007	507	501	450	146
Hawaii .....	121	48	66	4	36	3	2
Idaho .....	1,507	1,113	1,541	828	745	683	644
Illinois .....	195	194	379	196	190	93	63
Indiana .....	501	217	463	288	102	122	46
Iowa .....	365	114	145	52	103	32	50
Kansas .....	140	290	833	379	260	262	174
Kentucky .....	111	22	138	60	18	15	3
Louisiana .....	255	143	208	188	180	263	34
Maine .....	220	47	37	-	1	2	-
Maryland .....	166	144	130	66	34	19	20
Massachusetts .....	283	54	136	50	15	3	3
Michigan .....	1,527	608	615	445	239	105	138
Minnesota .....	595	162	700	394	199	102	51
Mississippi .....	265	195	208	174	125	129	102
Missouri .....	249	197	290	173	164	125	100
Montana .....	1,086	710	975	513	356	187	85
Nebraska .....	399	597	2,061	1,874	1,894	1,701	1,114
Nevada .....	89	166	295	112	14	117	43
New Hampshire .....	198	49	28	2	1	-	-
New Jersey .....	285	141	211	42	73	23	30
New Mexico .....	1,215	412	768	262	139	180	139
New York .....	986	184	125	3	-	24	-
North Carolina .....	857	404	441	66	41	35	17
North Dakota .....	31	58	136	115	86	26	28
Ohio .....	666	110	180	39	22	59	3
Oklahoma .....	325	221	202	65	64	42	71
Oregon .....	3,637	1,337	2,140	1,152	747	444	253
Pennsylvania .....	518	292	310	51	55	29	21
Rhode Island .....	90	21	25	1	2	-	2
South Carolina .....	317	245	379	205	78	39	27
South Dakota .....	79	216	338	152	238	68	5
Tennessee .....	336	91	268	117	59	54	5
Texas .....	1,379	1,226	1,730	893	824	701	1,222
Utah .....	665	971	912	286	494	399	47
Vermont .....	260	84	5	1	-	-	-
Virginia .....	528	293	173	31	17	4	3
Washington .....	2,078	1,580	1,961	802	535	440	331
West Virginia .....	337	30	28	6	-	-	-
Wisconsin .....	867	271	411	284	180	109	61
Wyoming .....	282	264	528	260	241	106	59
<b>Water Resource Regions</b>							
Region 01 New England .....	1,191	278	278	80	31	6	7
Region 02 Mid-Atlantic .....	1,975	821	945	268	225	126	87
Region 03 South Atlantic-Gulf .....	4,310	2,507	3,318	1,338	925	737	315
Region 04 Great Lakes .....	2,591	894	917	571	297	173	150
Region 05 Ohio .....	1,381	397	558	287	115	108	38
Region 06 Tennessee .....	344	87	146	61	35	4	2
Region 07 Upper Mississippi .....	1,714	739	1,651	858	614	337	190
Region 08 Lower Mississippi .....	498	344	729	633	661	1,023	688
Region 09 Souris-Red-Rainy .....	66	21	99	120	74	26	20
Region 10 Missouri .....	1,828	1,843	4,647	3,249	3,065	2,489	1,583
Region 11 Arkansas-White-Red .....	794	686	1,095	583	563	606	614
Region 12 Texas-Gulf .....	1,184	1,052	1,521	775	638	545	948
Region 13 Rio Grande .....	1,159	427	781	322	217	206	122
Region 14 Upper Colorado .....	825	897	913	452	248	91	19
Region 15 Lower Colorado .....	247	312	258	236	127	191	197
Region 16 Great Basin .....	648	845	1,125	368	467	471	101
Region 17 Pacific Northwest .....	7,885	4,358	5,876	2,803	1,998	1,540	1,225
Region 18 California .....	3,026	3,961	5,946	4,063	3,236	3,214	3,474
Region 19 Alaska .....	186	42	7	6	7	-	-
Region 20 Hawaii .....	121	48	66	4	36	3	2

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Natural gas								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses (\$1,000)	Expenses per irrigated acre for operations with only acres in the open (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells only	Surface water only
United States .....	5,425	21,290	2,524,877	100,102	1,701,008	32,760	169,914	65.77	67.89
Alabama .....	38	61	(D)	513	-	-	18	(D)	6.20
Alaska .....	-	-	-	-	-	-	-	-	-
Arizona .....	32	113	9,437	3,420	-	-	4,071	419.10	33.87
Arkansas .....	149	987	76,981	7,163	-	-	4,577	54.44	53.40
California .....	204	620	81,557	17,573	-	-	8,231	75.64	31.44
Colorado .....	37	138	16,971	240	-	-	1,564	91.46	50.00
Connecticut .....	-	-	-	-	-	-	-	-	-
Delaware .....	2	(D)	(D)	-	-	-	(D)	(D)	-
Florida .....	38	118	5,344	(D)	-	-	572	101.95	128.57
Georgia .....	27	54	8,154	-	-	-	229	28.12	-
Hawaii .....	-	-	-	-	-	-	-	-	-
Idaho .....	-	-	-	-	-	-	-	-	-
Illinois .....	19	19	2,410	-	-	-	61	25.18	-
Indiana .....	40	40	2,504	-	-	-	208	82.99	-
Iowa .....	1	(D)	(D)	-	-	-	(D)	(D)	-
Kansas .....	1,375	7,179	1,044,954	16,041	-	-	61,540	59.69	58.44
Kentucky .....	-	-	-	-	-	-	-	-	-
Louisiana .....	28	76	7,548	-	-	-	597	79.13	-
Maine .....	17	19	(D)	-	-	-	(D)	39.16	-
Maryland .....	18	25	1,564	-	170,448	5,760	207	96.18	-
Massachusetts .....	133	219	(D)	562	1,133,280	-	540	-	195.29
Michigan .....	1	(D)	(D)	(D)	-	-	(D)	-	-
Minnesota .....	8	8	680	-	-	-	11	16.41	-
Mississippi .....	4	21	(D)	-	-	27,000	(D)	(D)	-
Missouri .....	-	-	-	-	-	-	-	-	-
Montana .....	-	-	-	-	-	-	-	-	-
Nebraska .....	1,671	4,637	455,989	6,085	-	-	24,710	53.55	48.09
Nevada .....	-	-	-	-	-	-	-	-	-
New Hampshire .....	2	(D)	(D)	-	-	-	(D)	(D)	-
New Jersey .....	69	113	814	-	(D)	-	572	661.23	-
New Mexico .....	238	546	41,997	-	-	-	2,594	61.76	-
New York .....	36	(D)	18	6,750	-	-	280	177.00	41.00
North Carolina .....	8	8	-	1,200	-	-	95	-	79.27
North Dakota .....	-	-	-	-	-	-	-	-	-
Ohio .....	18	(D)	190	-	167,280	-	(D)	-	-
Oklahoma .....	390	1,353	211,345	-	-	-	13,106	62.01	-
Oregon .....	7	7	49	-	-	-	(D)	138.57	-
Pennsylvania .....	19	19	95	-	-	-	12	126.60	-
Rhode Island .....	-	-	-	-	-	-	-	-	-
South Carolina .....	1	(D)	(D)	-	-	-	(D)	(D)	-
South Dakota .....	-	-	-	-	-	-	-	-	-
Tennessee .....	1	(D)	(D)	-	-	-	(D)	(D)	-
Texas .....	723	4,709	550,362	34,560	(D)	-	45,508	82.38	611.57
Utah .....	22	22	-	110	-	-	11	-	98.00
Vermont .....	27	(D)	21	-	(D)	-	49	(D)	-
Virginia .....	-	-	-	-	-	-	-	-	-
Washington .....	-	-	-	-	-	-	-	-	-
West Virginia .....	-	-	-	-	-	-	-	-	-
Wisconsin .....	3	3	(D)	-	-	-	5	35.49	-
Wyoming .....	19	37	(D)	5,530	-	-	219	-	41.63
<b>Water Resource Regions</b>									
Region 01 New England .....	161	249	1,027	562	(D)	-	577	41.25	195.29
Region 02 Mid-Atlantic .....	126	217	3,553	6,750	220,448	5,760	1,095	200.26	41.00
Region 03 South Atlantic-Gulf .....	89	198	14,148	1,578	-	-	931	57.15	77.66
Region 04 Great Lakes .....	74	76	2,324	(D)	40,000	-	286	94.30	-
Region 05 Ohio .....	18	22	190	-	167,280	-	32	-	-
Region 06 Tennessee .....	23	46	-	345	-	-	3	-	8.00
Region 07 Upper Mississippi .....	34	34	3,738	-	-	-	88	23.48	-
Region 08 Lower Mississippi .....	148	752	65,786	5,963	-	27,000	4,100	58.30	53.40
Region 09 Souris-Red-Rainy .....	-	-	-	-	-	-	-	-	-
Region 10 Missouri .....	2,054	6,250	630,251	13,415	-	-	33,212	52.58	45.11
Region 11 Arkansas-White-Red .....	1,934	11,380	1,598,665	48,561	-	-	107,396	67.70	58.44
Region 12 Texas-Gulf .....	263	614	81,248	-	(D)	-	6,127	75.09	-
Region 13 Rio Grande .....	211	596	20,408	1,440	-	-	3,174	112.39	611.57
Region 14 Upper Colorado .....	3	6	-	240	-	-	(D)	-	50.00
Region 15 Lower Colorado .....	54	201	21,933	3,420	-	-	4,632	205.92	33.87
Region 16 Great Basin .....	22	22	-	(D)	-	-	11	-	98.00
Region 17 Pacific Northwest .....	7	7	49	-	-	-	(D)	138.57	-
Region 18 California .....	204	620	81,557	17,573	-	-	8,231	75.64	31.44
Region 19 Alaska .....	-	-	-	-	-	-	-	-	-
Region 20 Hawaii .....	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Natural gas - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	307	233	961	1,302	1,079	742	801
Alabama .....	37	-	-	-	1	-	-
Alaska .....	-	-	-	-	-	-	-
Arizona .....	-	-	-	19	-	-	13
Arkansas .....	7	19	33	31	21	13	25
California .....	10	25	13	46	60	9	41
Colorado .....	-	-	3	-	4	27	3
Connecticut .....	-	-	-	-	-	-	-
Delaware .....	-	-	-	-	2	-	-
Florida .....	30	-	-	-	-	-	8
Georgia .....	-	-	-	27	-	-	-
Hawaii .....	-	-	-	-	-	-	-
Idaho .....	-	-	-	-	-	-	-
Illinois .....	-	5	14	-	-	-	-
Indiana .....	-	-	36	-	4	-	-
Iowa .....	-	-	1	-	-	-	-
Kansas .....	-	21	228	238	267	236	385
Kentucky .....	-	-	-	-	-	-	-
Louisiana .....	-	-	12	-	-	16	-
Maine .....	16	-	-	-	-	1	-
Maryland .....	3	-	2	6	2	5	-
Massachusetts .....	53	-	36	35	9	-	-
Michigan .....	-	-	-	-	-	1	-
Minnesota .....	-	8	-	-	-	-	-
Mississippi .....	3	-	-	-	-	-	1
Missouri .....	-	-	-	-	-	-	-
Montana .....	-	-	-	-	-	-	-
Nebraska .....	-	58	264	577	457	293	22
Nevada .....	-	-	-	-	-	-	-
New Hampshire .....	2	-	-	-	-	-	-
New Jersey .....	-	-	25	16	24	4	-
New Mexico .....	31	-	146	22	1	23	15
New York .....	18	-	-	-	18	-	-
North Carolina .....	-	-	-	-	8	-	-
North Dakota .....	-	-	-	-	-	-	-
Ohio .....	14	2	-	-	2	-	-
Oklahoma .....	4	58	60	128	63	11	66
Oregon .....	7	-	-	-	-	-	-
Pennsylvania .....	19	-	-	-	-	-	-
Rhode Island .....	-	-	-	-	-	-	-
South Carolina .....	-	-	-	-	1	-	-
South Dakota .....	-	-	-	-	-	-	-
Tennessee .....	-	-	-	-	-	1	-
Texas .....	15	27	74	157	127	102	221
Utah .....	22	-	-	-	-	-	-
Vermont .....	13	-	14	-	-	-	-
Virginia .....	-	-	-	-	-	-	-
Washington .....	-	-	-	-	-	-	-
West Virginia .....	-	-	-	-	-	-	-
Wisconsin .....	-	3	-	-	-	-	-
Wyoming .....	3	7	-	-	8	-	1
<b>Water Resource Regions</b>							
Region 01 New England .....	80	-	36	35	9	1	-
Region 02 Mid-Atlantic .....	22	-	27	22	46	9	-
Region 03 South Atlantic-Gulf .....	44	-	-	27	10	-	8
Region 04 Great Lakes .....	22	-	47	-	4	1	-
Region 05 Ohio .....	14	2	-	-	2	-	-
Region 06 Tennessee .....	23	-	-	-	-	-	-
Region 07 Upper Mississippi .....	-	16	18	-	-	-	-
Region 08 Lower Mississippi .....	3	19	39	31	21	27	8
Region 09 Souris-Red-Rainy .....	-	-	-	-	-	-	-
Region 10 Missouri .....	3	85	346	632	573	344	71
Region 11 Arkansas-White-Red .....	26	83	234	396	308	286	601
Region 12 Texas-Gulf .....	-	3	105	48	45	18	44
Region 13 Rio Grande .....	31	-	93	46	1	25	15
Region 14 Upper Colorado .....	-	-	3	-	-	-	-
Region 15 Lower Colorado .....	-	-	-	19	-	22	13
Region 16 Great Basin .....	22	-	-	-	-	-	-
Region 17 Pacific Northwest .....	7	-	-	-	-	-	-
Region 18 California .....	10	25	13	46	60	9	41
Region 19 Alaska .....	-	-	-	-	-	-	-
Region 20 Hawaii .....	-	-	-	-	-	-	-

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	LP gas, propane, and butane								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses (\$1,000)	Expenses per irrigated acre for operations with only acres in the open (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells only	Surface water only
United States .....	4,010	10,995	743,846	131,447	10,008,580	387,142	39,449	46.27	49.36
Alabama .....	24	24	(D)	-	-	-	117	211.17	-
Alaska .....	-	-	-	-	-	-	-	-	-
Arizona .....	37	38	(D)	4,169	-	-	125	100.00	27.27
Arkansas .....	176	1,536	133,593	11,256	-	(D)	4,563	33.30	48.44
California .....	466	776	35,775	37,090	-	-	4,836	157.64	41.39
Colorado .....	86	86	5,820	1,549	-	-	333	46.22	41.02
Connecticut .....	3	6	(D)	(D)	(D)	-	(D)	(D)	-
Delaware .....	4	(D)	(D)	-	-	-	(Z)	40.00	-
Florida .....	206	523	17,041	3,419	9,813,360	-	3,224	157.01	(D)
Georgia .....	27	27	-	675	-	-	41	-	60.00
Hawaii .....	-	-	-	-	-	-	-	-	-
Idaho .....	2	(D)	(D)	-	-	-	(D)	(D)	-
Illinois .....	45	110	11,997	420	-	-	328	26.13	33.33
Indiana .....	80	107	5,895	297	(D)	-	167	26.16	40.00
Iowa .....	21	(D)	-	1,365	-	-	38	-	27.69
Kansas .....	330	593	49,958	9,243	-	(D)	1,508	29.17	32.89
Kentucky .....	9	18	3,460	-	-	-	51	14.69	-
Louisiana .....	27	174	11,133	(D)	-	-	733	36.67	-
Maine .....	-	-	-	-	-	-	-	-	-
Maryland .....	4	6	(D)	(D)	-	-	20	9.99	(D)
Massachusetts .....	193	463	(D)	5,387	-	(D)	787	33.63	(D)
Michigan .....	6	(D)	552	(D)	-	-	(D)	29.60	-
Minnesota .....	-	-	-	-	-	-	-	-	-
Mississippi .....	209	1,140	124,894	2,985	(D)	-	3,384	25.30	-
Missouri .....	171	1,346	106,398	-	-	-	5,125	48.17	-
Montana .....	131	131	3,014	6,918	-	-	555	12.60	74.73
Nebraska .....	1,432	3,279	198,314	25,713	-	-	11,822	58.75	44.86
Nevada .....	-	-	-	-	-	-	-	-	-
New Hampshire .....	-	-	-	-	-	-	-	-	-
New Jersey .....	16	16	-	80	-	-	19	-	240.00
New Mexico .....	53	97	4,070	(D)	-	-	314	54.38	150.00
New York .....	1	(D)	(D)	-	-	-	(D)	(D)	-
North Carolina .....	3	3	-	60	-	-	24	-	400.00
North Dakota .....	-	-	-	-	-	-	-	-	-
Ohio .....	1	(D)	-	(D)	-	(D)	(D)	-	-
Oklahoma .....	94	173	11,818	5,969	-	-	406	27.77	12.98
Oregon .....	3	(D)	(D)	(D)	-	-	(D)	(D)	-
Pennsylvania .....	19	19	-	-	111,720	-	38	-	-
Rhode Island .....	4	4	(D)	(D)	-	(D)	(D)	(D)	(D)
South Carolina .....	1	(D)	(D)	-	-	-	(D)	(D)	-
South Dakota .....	-	-	-	-	-	-	-	-	-
Tennessee .....	1	(D)	(D)	-	-	-	(D)	(D)	-
Texas .....	23	23	2,300	-	-	-	35	15.03	-
Utah .....	-	-	-	-	-	-	-	-	-
Vermont .....	-	-	-	-	-	-	-	-	-
Virginia .....	-	-	-	-	-	-	-	-	-
Washington .....	53	102	-	(D)	-	120	303	-	133.49
West Virginia .....	-	-	-	-	-	-	-	-	-
Wisconsin .....	29	29	720	105	-	-	47	50.00	100.00
Wyoming .....	20	84	(D)	10,503	-	-	368	-	(D)
<b>Water Resource Regions</b>									
Region 01 New England .....	200	473	637	5,557	(D)	(D)	805	19.71	136.47
Region 02 Mid-Atlantic .....	44	54	(D)	200	111,720	-	96	(D)	116.00
Region 03 South Atlantic-Gulf .....	261	581	18,393	4,154	(D)	-	3,424	152.57	40.75
Region 04 Great Lakes .....	20	36	1,938	(D)	42,000	(D)	74	32.94	-
Region 05 Ohio .....	67	107	9,024	(D)	(D)	-	186	20.43	-
Region 06 Tennessee .....	-	-	-	-	-	-	-	-	-
Region 07 Upper Mississippi .....	131	234	21,502	2,140	-	-	550	22.20	33.79
Region 08 Lower Mississippi .....	515	3,896	352,097	14,759	1,500	-	13,119	35.67	48.44
Region 09 Souris-Red-Rainy .....	-	-	-	-	-	-	-	-	-
Region 10 Missouri .....	1,760	3,712	209,743	48,327	-	(D)	13,181	56.92	46.30
Region 11 Arkansas-White-Red .....	333	808	72,657	10,573	-	(D)	2,207	30.84	12.98
Region 12 Texas-Gulf .....	23	23	(D)	-	-	-	35	15.03	-
Region 13 Rio Grande .....	35	79	(D)	-	-	-	325	52.90	-
Region 14 Upper Colorado .....	60	60	-	1,619	-	-	(D)	-	76.85
Region 15 Lower Colorado .....	37	38	(D)	4,169	-	-	125	100.00	27.27
Region 16 Great Basin .....	-	-	-	-	-	-	-	-	-
Region 17 Pacific Northwest .....	58	118	(D)	2,255	-	120	(D)	(D)	133.49
Region 18 California .....	466	776	35,775	37,090	-	-	4,836	157.64	41.39
Region 19 Alaska .....	-	-	-	-	-	-	-	-	-
Region 20 Hawaii .....	-	-	-	-	-	-	-	-	-

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	LP gas, propane, and butane - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	344	514	1,250	1,036	545	212	109
Alabama .....	-	-	24	-	-	-	-
Alaska .....	-	-	-	-	-	-	-
Arizona .....	18	-	-	19	-	-	-
Arkansas .....	14	10	24	12	58	42	16
California .....	24	25	231	103	28	33	22
Colorado .....	25	22	4	35	-	-	-
Connecticut .....	2	-	-	-	1	-	-
Delaware .....	4	-	-	-	-	-	-
Florida .....	-	8	40	95	32	30	1
Georgia .....	-	27	-	-	-	-	-
Hawaii .....	-	-	-	-	-	-	-
Idaho .....	-	2	-	-	-	-	-
Illinois .....	-	14	19	10	-	-	2
Indiana .....	30	27	21	-	1	1	-
Iowa .....	-	21	-	-	-	-	-
Kansas .....	-	60	181	49	40	-	-
Kentucky .....	-	7	-	-	1	1	-
Louisiana .....	-	-	12	-	-	13	2
Maine .....	-	-	-	-	-	-	-
Maryland .....	-	-	3	-	1	-	-
Massachusetts .....	39	36	75	25	17	-	1
Michigan .....	-	-	5	1	-	-	-
Minnesota .....	-	-	-	-	-	-	-
Mississippi .....	12	9	37	29	77	37	8
Missouri .....	-	19	30	56	20	23	23
Montana .....	-	43	45	43	-	-	-
Nebraska .....	108	134	429	457	244	30	30
Nevada .....	-	-	-	-	-	-	-
New Hampshire .....	-	-	-	-	-	-	-
New Jersey .....	-	16	-	-	-	-	-
New Mexico .....	-	-	31	-	22	-	-
New York .....	-	-	-	-	1	-	-
North Carolina .....	-	-	-	3	-	-	-
North Dakota .....	-	-	-	-	-	-	-
Ohio .....	-	-	-	1	-	-	-
Oklahoma .....	29	9	9	45	-	2	-
Oregon .....	-	-	2	-	-	-	1
Pennsylvania .....	-	-	19	-	-	-	-
Rhode Island .....	2	1	1	-	-	-	-
South Carolina .....	-	-	-	-	1	-	-
South Dakota .....	-	-	-	-	-	-	-
Tennessee .....	-	1	-	-	-	-	-
Texas .....	-	23	-	-	-	-	-
Utah .....	-	-	-	-	-	-	-
Vermont .....	-	-	-	-	-	-	-
Virginia .....	-	-	-	-	-	-	-
Washington .....	-	-	-	53	-	-	-
West Virginia .....	-	-	-	-	-	-	-
Wisconsin .....	21	-	8	-	-	-	-
Wyoming .....	16	-	-	-	1	-	3
<b>Water Resource Regions</b>							
Region 01 New England .....	43	37	76	25	18	-	1
Region 02 Mid-Atlantic .....	4	16	22	-	2	-	-
Region 03 South Atlantic-Gulf .....	-	35	64	98	33	30	1
Region 04 Great Lakes .....	12	-	5	2	-	1	-
Region 05 Ohio .....	18	17	26	5	-	1	-
Region 06 Tennessee .....	-	-	-	-	-	-	-
Region 07 Upper Mississippi .....	21	45	33	29	1	-	2
Region 08 Lower Mississippi .....	26	34	86	73	145	102	49
Region 09 Souris-Red-Rainy .....	-	-	-	-	-	-	-
Region 10 Missouri .....	124	250	578	500	245	30	33
Region 11 Arkansas-White-Red .....	29	30	92	116	51	15	-
Region 12 Texas-Gulf .....	-	23	-	-	-	-	-
Region 13 Rio Grande .....	-	-	-	13	22	-	-
Region 14 Upper Colorado .....	25	-	35	-	-	-	-
Region 15 Lower Colorado .....	18	-	-	19	-	-	-
Region 16 Great Basin .....	-	-	-	-	-	-	-
Region 17 Pacific Northwest .....	-	2	2	53	-	-	1
Region 18 California .....	24	25	231	103	28	33	22
Region 19 Alaska .....	-	-	-	-	-	-	-
Region 20 Hawaii .....	-	-	-	-	-	-	-

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Diesel and biodiesel fuel								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses (\$1,000)	Expenses per irrigated acre for operations with only acres in the open (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells only	Surface water only
United States .....	25,912	95,810	7,741,630	2,482,154	200,346,563	25,425,525	514,152	50.70	51.47
Alabama .....	172	353	14,909	34,581	(D)	-	2,210	39.93	36.45
Alaska .....	26	26	648	55	3,600	-	28	(D)	(D)
Arizona .....	37	273	(D)	49,022	-	(D)	3,040	103.66	54.02
Arkansas .....	1,918	20,281	1,796,329	324,004	-	(D)	91,422	39.71	31.38
California .....	2,447	7,582	308,851	734,755	4,458	(D)	91,044	158.55	81.87
Colorado .....	300	397	1,570	37,218	-	35,200	1,290	51.14	35.25
Connecticut .....	34	78	(D)	545	447,420	(D)	181	(D)	223.44
Delaware .....	154	612	42,342	6,416	89,000	-	2,216	50.22	48.82
Florida .....	2,098	8,528	332,457	358,683	152,028,761	4,645,566	48,214	149.48	8.86
Georgia .....	582	1,524	109,541	32,432	(D)	(D)	7,496	57.49	40.40
Hawaii .....	20	26	2,107	788	-	-	203	38.54	154.39
Idaho .....	101	146	6,950	11,464	-	-	730	17.22	36.10
Illinois .....	903	2,674	298,657	1,120	1,118,880	359,890	8,657	27.26	150.00
Indiana .....	510	1,343	115,089	27,112	(D)	(D)	4,944	39.06	27.85
Iowa .....	215	464	(D)	597	30,000	(D)	1,694	(D)	-
Kansas .....	1,365	3,727	394,716	52,328	-	(D)	23,550	56.15	34.98
Kentucky .....	151	286	10,817	8,936	365,000	90,000	684	30.39	41.95
Louisiana .....	818	4,877	593,580	104,392	43,200	1,422,180	20,548	29.77	32.65
Maine .....	42	355	6,425	8,207	-	-	844	146.59	95.30
Maryland .....	251	680	51,660	14,353	53,952	270,010	2,789	41.03	61.47
Massachusetts .....	251	591	512	7,214	2,514,740	330,500	1,567	219.50	212.27
Michigan .....	750	1,908	111,539	57,571	724,632	405,000	6,613	43.47	27.00
Minnesota .....	242	369	41,177	2,812	-	-	1,276	26.63	64.01
Mississippi .....	784	6,697	821,561	27,869	(D)	(D)	20,167	23.10	24.21
Missouri .....	1,046	6,486	618,433	23,109	578,580	211,497	19,549	29.77	48.16
Montana .....	364	543	6,312	90,465	-	(D)	3,379	102.57	31.00
Nebraska .....	5,551	15,275	1,567,006	91,611	66,516	14,760	98,136	61.00	44.68
Nevada .....	23	(D)	(D)	2,304	(D)	(D)	(D)	(D)	-
New Hampshire .....	27	(D)	(D)	497	(D)	288,600	109	-	89.27
New Jersey .....	356	1,009	33,653	14,832	(D)	(D)	4,149	55.12	100.90
New Mexico .....	67	247	8,741	(D)	-	(D)	1,086	91.50	22.22
New York .....	292	524	12,706	9,272	9,205,333	240,000	1,903	46.66	123.38
North Carolina .....	539	1,037	4,775	34,088	506,000	636	3,414	126.50	81.28
North Dakota .....	90	158	12,410	9,750	-	-	753	37.36	29.75
Ohio .....	187	420	6,110	10,695	222,382	2,671,445	812	105.04	32.55
Oklahoma .....	180	216	10,241	11,455	-	-	1,381	74.97	53.51
Oregon .....	285	438	10,726	17,246	-	-	1,299	19.86	67.56
Pennsylvania .....	349	445	(D)	(D)	2,486,640	59,600	921	139.25	62.60
Rhode Island .....	22	37	(D)	1,143	(D)	(D)	136	(D)	71.06
South Carolina .....	94	189	(D)	6,494	(D)	(D)	770	36.42	41.65
South Dakota .....	118	325	18,936	12,145	-	-	1,823	22.15	68.27
Tennessee .....	91	386	(D)	6,735	-	-	1,860	38.41	46.53
Texas .....	673	1,342	123,682	51,157	(D)	3	15,596	119.51	28.14
Utah .....	240	240	1,870	9,751	-	-	984	100.00	81.69
Vermont .....	13	(D)	133	227	(D)	(D)	16	72.06	41.99
Virginia .....	210	440	2,699	32,108	(D)	76,080	1,762	(D)	52.85
Washington .....	209	367	17,110	24,131	600,000	492	1,040	15.86	31.81
West Virginia .....	12	(D)	-	573	-	-	(D)	-	(D)
Wisconsin .....	604	1,538	46,569	23,047	47,520	2,376	5,744	40.74	138.13
Wyoming .....	99	153	2,130	18,519	-	-	975	158.33	36.86
<b>Water Resource Regions</b>									
Region 01 New England .....	380	1,116	7,635	17,751	3,693,520	(D)	2,839	110.54	149.52
Region 02 Mid-Atlantic .....	1,501	3,520	143,162	76,993	20,405,404	2,554,784	13,106	49.17	68.41
Region 03 South Atlantic-Gulf .....	3,467	11,603	476,558	448,576	154,069,254	6,158,978	61,319	117.98	18.98
Region 04 Great Lakes .....	1,113	2,438	137,353	73,148	2,027,208	3,033,365	8,673	42.04	34.26
Region 05 Ohio .....	643	1,694	123,247	31,420	(D)	290,014	5,095	32.24	38.62
Region 06 Tennessee .....	94	312	8,524	27,059	-	-	2,058	106.77	30.76
Region 07 Upper Mississippi .....	1,941	4,994	402,338	45,500	1,148,880	440,176	17,497	31.70	108.82
Region 08 Lower Mississippi .....	3,702	34,160	3,502,073	422,760	66,960	1,423,142	134,182	32.04	31.31
Region 09 Souris-Red-Rainy .....	27	62	3,692	6,040	-	-	423	(D)	(D)
Region 10 Missouri .....	7,218	18,090	1,748,696	242,541	563,736	978,733	110,042	57.88	40.16
Region 11 Arkansas-White-Red .....	1,633	6,967	662,558	101,811	57,600	-	39,303	51.72	34.29
Region 12 Texas-Gulf .....	567	1,190	106,319	38,797	(D)	3	14,423	129.80	36.49
Region 13 Rio Grande .....	128	232	(D)	1,106	(D)	35,200	1,134	94.58	214.04
Region 14 Upper Colorado .....	156	232	980	85,831	-	(D)	795	240.00	26.36
Region 15 Lower Colorado .....	65	337	(D)	62,460	-	(D)	3,236	103.66	45.34
Region 16 Great Basin .....	196	291	56,767	15,341	-	-	6,031	98.11	70.84
Region 17 Pacific Northwest .....	570	937	31,966	61,851	600,000	5,100	2,848	17.49	33.60
Region 18 California .....	2,465	7,583	311,671	722,326	4,458	(D)	90,918	157.45	83.42
Region 19 Alaska .....	26	26	648	55	3,600	-	28	(D)	(D)
Region 20 Hawaii .....	20	26	2,107	788	-	-	203	38.54	154.39

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Diesel and biodiesel fuel - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	2,197	2,362	5,812	5,243	3,963	4,084	2,251
Alabama .....	23	13	60	12	33	24	7
Alaska .....	13	7	6	-	-	-	-
Arizona .....	-	-	1	4	2	22	8
Arkansas .....	47	73	137	232	310	499	620
California .....	126	185	397	458	402	559	320
Colorado .....	70	5	160	19	41	5	-
Connecticut .....	19	3	3	7	1	-	1
Delaware .....	15	21	32	36	22	23	5
Florida .....	309	343	454	347	214	212	219
Georgia .....	54	42	128	199	122	31	6
Hawaii .....	-	14	-	-	3	2	1
Idaho .....	-	-	21	71	3	6	-
Illinois .....	42	120	308	208	110	81	34
Indiana .....	89	75	106	79	81	73	7
Iowa .....	21	20	71	59	14	28	2
Kansas .....	90	82	382	262	280	144	125
Kentucky .....	89	14	16	22	3	4	3
Louisiana .....	22	11	51	145	220	276	93
Maine .....	23	4	1	1	6	4	3
Maryland .....	8	23	73	56	53	30	8
Massachusetts .....	64	57	70	22	25	9	4
Michigan .....	74	188	178	182	72	37	19
Minnesota .....	20	45	106	50	11	9	1
Mississippi .....	27	38	114	99	208	176	122
Missouri .....	46	52	332	220	120	153	123
Montana .....	23	51	105	83	6	96	-
Nebraska .....	117	242	1,214	1,317	1,082	1,198	381
Nevada .....	-	-	1	-	3	9	10
New Hampshire .....	14	-	4	4	5	-	-
New Jersey .....	57	47	78	66	49	41	18
New Mexico .....	-	31	-	-	5	30	1
New York .....	89	-	79	81	34	6	3
North Carolina .....	114	67	164	93	55	41	5
North Dakota .....	10	5	34	19	18	-	4
Ohio .....	48	49	35	28	22	5	-
Oklahoma .....	-	38	75	55	-	3	9
Oregon .....	2	102	104	64	9	1	3
Pennsylvania .....	115	71	131	15	16	-	1
Rhode Island .....	6	-	4	9	3	-	-
South Carolina .....	-	24	9	50	-	9	2
South Dakota .....	-	-	47	1	-	70	-
Tennessee .....	-	-	18	12	47	6	8
Texas .....	78	3	193	212	46	95	46
Utah .....	43	-	109	88	-	-	-
Vermont .....	5	7	1	-	-	-	-
Virginia .....	49	13	57	25	52	8	6
Washington .....	21	66	56	45	17	4	-
West Virginia .....	3	9	-	-	-	-	-
Wisconsin .....	111	68	86	170	94	52	23
Wyoming .....	1	34	1	16	44	3	-
<b>Water Resource Regions</b>							
Region 01 New England .....	130	64	82	43	40	13	8
Region 02 Mid-Atlantic .....	282	170	409	275	222	105	38
Region 03 South Atlantic-Gulf .....	502	504	793	701	420	313	234
Region 04 Great Lakes .....	165	264	274	255	85	48	22
Region 05 Ohio .....	189	42	174	102	60	63	13
Region 06 Tennessee .....	-	12	31	-	34	6	11
Region 07 Upper Mississippi .....	189	293	480	473	268	174	64
Region 08 Lower Mississippi .....	100	82	389	488	773	1,006	864
Region 09 Souris-Red-Rainy .....	-	2	-	14	8	-	3
Region 10 Missouri .....	254	400	1,902	1,647	1,233	1,399	383
Region 11 Arkansas-White-Red .....	78	116	351	316	311	234	227
Region 12 Texas-Gulf .....	30	3	169	188	46	91	40
Region 13 Rio Grande .....	27	31	24	-	19	26	1
Region 14 Upper Colorado .....	44	5	49	52	5	-	1
Region 15 Lower Colorado .....	22	-	1	4	4	26	8
Region 16 Great Basin .....	-	-	88	83	3	12	10
Region 17 Pacific Northwest .....	46	168	169	144	29	11	3
Region 18 California .....	126	185	421	458	400	555	320
Region 19 Alaska .....	13	7	6	-	-	-	-
Region 20 Hawaii .....	-	14	-	-	3	2	1

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Gasoline, ethanol, and blends								
	Farms	Pumps powered	Acres in the open by water source		Square feet under protection by water source		Expenses (\$1,000)	Expenses per irrigated acre for operations with only acres in the open (dollars)	
			Water from wells	Surface water	Water from wells	Surface water		Water from wells only	Surface water only
United States .....	6,084	9,257	129,832	88,062	4,322,468	14,470,459	6,751	29.96	36.17
Alabama .....	47	94	-	452	-	-	19	-	41.81
Alaska .....	22	30	15	51	6,152	(D)	3	(D)	61.86
Arizona .....	25	89	(D)	918	-	-	366	(D)	53.24
Arkansas .....	122	493	25,878	5,270	-	(D)	660	26.96	46.64
California .....	247	401	10,775	7,093	189,900	35,500	275	138.17	65.63
Colorado .....	249	381	-	7,577	-	572,710	219	-	27.42
Connecticut .....	51	73	23	(D)	(D)	-	(D)	(D)	59.31
Delaware .....	33	40	2,661	80	21,992	-	(D)	7.89	5.00
Florida .....	210	270	780	(D)	-	-	157	184.61	87.40
Georgia .....	125	152	14	398	-	10	26	37.50	57.14
Hawaii .....	32	35	150	773	-	-	33	21.60	38.14
Idaho .....	99	(D)	(D)	1,102	-	2,502	(D)	(D)	75.39
Illinois .....	36	56	766	110	28,500	129,004	43	37.97	(D)
Indiana .....	125	177	231	276	541,600	(D)	24	(D)	24.42
Iowa .....	20	(D)	-	240	-	-	(D)	-	29.17
Kansas .....	47	70	60	2,318	-	-	14	44.59	4.55
Kentucky .....	180	213	14	585	230,000	1,715,709	70	-	107.72
Louisiana .....	43	178	13,707	(D)	-	-	565	31.23	58.60
Maine .....	94	111	(D)	343	178,000	88,000	(D)	75.81	15.58
Maryland .....	118	240	(D)	(D)	269,928	266,865	115	159.84	109.65
Massachusetts .....	106	122	(D)	343	-	-	43	90.25	101.73
Michigan .....	210	263	(D)	(D)	158,760	-	88	64.94	25.27
Minnesota .....	37	45	108	39	-	(D)	12	(D)	133.33
Mississippi .....	69	434	(D)	2,162	-	-	(D)	31.31	42.99
Missouri .....	181	303	71	466	70,700	586,365	84	237.86	70.55
Montana .....	158	233	1,716	4,685	3,000	-	206	6.54	40.99
Nebraska .....	91	91	2,788	2,320	8,400	-	92	27.81	4.73
Nevada .....	2	(D)	(D)	-	-	-	(D)	(D)	-
New Hampshire .....	36	58	(D)	362	(D)	174,240	(D)	(D)	81.18
New Jersey .....	58	66	1,676	500	-	(D)	81	11.33	-
New Mexico .....	166	166	155	(D)	-	-	195	180.00	116.34
New York .....	386	598	(D)	727	830,148	3,768,072	(D)	55.38	35.73
North Carolina .....	331	504	252	739	-	1,120,200	291	249.39	140.86
North Dakota .....	30	40	7	125	(D)	(D)	6	10.00	47.11
Ohio .....	312	447	959	(D)	350,036	(D)	119	22.24	32.13
Oklahoma .....	29	29	-	1,885	-	-	9	-	4.62
Oregon .....	259	(D)	(D)	(D)	170,368	12,880	(D)	(D)	38.91
Pennsylvania .....	501	600	(D)	(D)	626,040	715,763	257	95.90	42.74
Rhode Island .....	20	22	(D)	(D)	(D)	(D)	(D)	(D)	92.00
South Carolina .....	49	(D)	-	97	-	-	(D)	-	257.73
South Dakota .....	-	(D)	-	-	-	-	-	-	-
Tennessee .....	108	(D)	-	6,814	-	291,434	(D)	-	13.27
Texas .....	230	263	117	3,572	(D)	1,051,440	94	40.00	23.98
Utah .....	231	371	1,318	3,831	-	(D)	272	43.32	55.95
Vermont .....	72	84	26	317	-	53,820	33	(D)	36.70
Virginia .....	73	110	56	556	(D)	34,500	21	25.00	35.84
Washington .....	284	456	11,820	(D)	7,020	4	336	10.93	27.13
West Virginia .....	6	(D)	-	6	-	50,400	(D)	-	-
Wisconsin .....	105	130	(D)	606	189,408	-	39	(D)	35.06
Wyoming .....	19	19	-	36	-	(D)	1	-	(D)
<b>Water Resource Regions</b>									
Region 01 New England .....	323	406	851	1,490	(D)	262,240	149	47.96	68.29
Region 02 Mid-Atlantic .....	853	1,120	(D)	5,165	1,322,540	5,331,337	545	21.68	50.29
Region 03 South Atlantic-Gulf .....	733	986	1,127	2,788	-	966,210	528	187.42	74.70
Region 04 Great Lakes .....	643	863	1,671	(D)	1,153,528	(D)	201	25.50	24.61
Region 05 Ohio .....	683	949	1,780	(D)	818,992	2,608,611	243	33.83	32.57
Region 06 Tennessee .....	90	203	-	6,293	-	(D)	121	-	15.29
Region 07 Upper Mississippi .....	154	236	199	608	70,408	233,040	66	(D)	62.69
Region 08 Lower Mississippi .....	191	1,002	73,922	11,222	-	156,900	2,357	30.27	65.04
Region 09 Souris-Red-Rainy .....	31	41	-	98	-	54,000	5	-	61.20
Region 10 Missouri .....	433	608	2,880	5,882	41,200	(D)	366	31.98	40.38
Region 11 Arkansas-White-Red .....	167	284	4,419	7,416	-	(D)	62	13.27	6.41
Region 12 Texas-Gulf .....	161	171	(D)	1,962	(D)	1,051,440	80	-	38.96
Region 13 Rio Grande .....	154	154	270	1,307	-	-	193	120.37	122.74
Region 14 Upper Colorado .....	230	340	-	7,074	-	(D)	213	-	28.22
Region 15 Lower Colorado .....	25	89	(D)	918	-	-	366	(D)	53.24
Region 16 Great Basin .....	233	373	1,320	(D)	-	(D)	272	43.32	55.95
Region 17 Pacific Northwest .....	679	966	(D)	17,421	180,388	15,386	672	10.29	30.36
Region 18 California .....	247	401	10,775	7,093	189,900	35,500	275	138.17	65.63
Region 19 Alaska .....	22	30	15	51	6,152	(D)	3	(D)	61.86
Region 20 Hawaii .....	32	35	150	773	-	-	33	21.60	38.14

See footnote(s) at end of table.

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**Table 16. Energy Expenses for Pumps by Type of Energy Used: 2023 (continued)**

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

Geographic area	Gasoline, ethanol, and blends - con.						
	Farms with energy expenses of-						
	\$1 to \$999	\$1,000 to \$1,999	\$2,000 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$19,999	\$20,000 to \$49,999	\$50,000 or more
United States .....	4,650	821	422	101	37	44	9
Alabama .....	47	-	-	-	-	-	-
Alaska .....	22	-	-	-	-	-	-
Arizona .....	21	-	-	-	3	-	1
Arkansas .....	57	-	22	22	8	13	-
California .....	159	75	-	10	3	-	-
Colorado .....	161	22	66	-	-	-	-
Connecticut .....	44	4	3	-	-	-	-
Delaware .....	27	6	-	-	-	-	-
Florida .....	150	60	-	-	-	-	-
Georgia .....	125	-	-	-	-	-	-
Hawaii .....	18	-	14	-	-	-	-
Idaho .....	76	-	23	-	-	-	-
Illinois .....	20	5	11	-	-	-	-
Indiana .....	115	10	-	-	-	-	-
Iowa .....	20	-	-	-	-	-	-
Kansas .....	43	4	-	-	-	-	-
Kentucky .....	168	12	-	-	-	-	-
Louisiana .....	8	-	12	11	-	10	2
Maine .....	89	5	-	-	-	-	-
Maryland .....	73	29	14	2	-	-	-
Massachusetts .....	98	8	-	-	-	-	-
Michigan .....	190	18	-	-	2	-	-
Minnesota .....	37	-	-	-	-	-	-
Mississippi .....	11	1	18	2	10	21	6
Missouri .....	146	35	-	-	-	-	-
Montana .....	91	24	43	-	-	-	-
Nebraska .....	33	58	-	-	-	-	-
Nevada .....	2	-	-	-	-	-	-
New Hampshire .....	32	2	-	-	2	-	-
New Jersey .....	32	-	25	1	-	-	-
New Mexico .....	103	31	32	-	-	-	-
New York .....	340	46	-	-	-	-	-
North Carolina .....	175	97	59	-	-	-	-
North Dakota .....	30	-	-	-	-	-	-
Ohio .....	284	28	-	-	-	-	-
Oklahoma .....	29	-	-	-	-	-	-
Oregon .....	191	40	8	20	-	-	-
Pennsylvania .....	431	70	-	-	-	-	-
Rhode Island .....	13	7	-	-	-	-	-
South Carolina .....	25	24	-	-	-	-	-
South Dakota .....	-	-	-	-	-	-	-
Tennessee .....	102	-	-	-	6	-	-
Texas .....	202	26	-	-	2	-	-
Utah .....	140	24	45	22	-	-	-
Vermont .....	63	5	4	-	-	-	-
Virginia .....	69	4	-	-	-	-	-
Washington .....	211	41	21	11	-	-	-
West Virginia .....	6	-	-	-	-	-	-
Wisconsin .....	102	-	2	-	1	-	-
Wyoming .....	19	-	-	-	-	-	-
<b>Water Resource Regions</b>							
Region 01 New England .....	288	30	3	-	2	-	-
Region 02 Mid-Atlantic .....	674	133	43	3	-	-	-
Region 03 South Atlantic-Gulf .....	505	161	67	-	-	-	-
Region 04 Great Lakes .....	609	31	-	-	3	-	-
Region 05 Ohio .....	616	58	9	-	-	-	-
Region 06 Tennessee .....	62	22	-	-	6	-	-
Region 07 Upper Mississippi .....	145	5	4	-	-	-	-
Region 08 Lower Mississippi .....	48	1	38	34	18	44	8
Region 09 Souris-Red-Rainy .....	31	-	-	-	-	-	-
Region 10 Missouri .....	274	116	43	-	-	-	-
Region 11 Arkansas-White-Red .....	158	2	6	1	-	-	-
Region 12 Texas-Gulf .....	133	26	-	-	2	-	-
Region 13 Rio Grande .....	91	31	32	-	-	-	-
Region 14 Upper Colorado .....	142	22	66	-	-	-	-
Region 15 Lower Colorado .....	21	-	-	-	3	-	1
Region 16 Great Basin .....	142	24	45	22	-	-	-
Region 17 Pacific Northwest .....	512	84	52	31	-	-	-
Region 18 California .....	159	75	-	10	3	-	-
Region 19 Alaska .....	22	-	-	-	-	-	-
Region 20 Hawaii .....	18	-	14	-	-	-	-

<sup>1</sup> Energy expenses for solar-powered pumps are not included.

<sup>2</sup> The same area may be counted multiple times when irrigated by pumps with different power sources.