

Data release date: June 2023

**CE5.8.ST Detailed household natural gas, propane, and fuel oil or kerosene end-use expenditures in the United States by state—averages, 2020**

Average site energy expenditures  
(dollars per household using the end use)

	Natural gas				Propane			Fuel oil or kerosene			
	Space heating <sup>a</sup>	Water heating	Clothes dryers <sup>b</sup>	Cooking <sup>c</sup>	Pool heaters	Hot tub heaters	Space heating <sup>a</sup>	Water heating	Cooking <sup>c</sup>	Space heating <sup>a</sup>	Water heating
<b>All homes</b>	474	222	24	30	427	48	698	383	52	1,023	356
Alabama	452	253	Q	39	Q	Q	334	Q	63	Q	N
Alaska	1,116	387	27	27	N	Q	Q	564	74	1,581	488
Arizona	248	225	31	32	365	54	380	364	34	Q	Q
Arkansas	565	214	27	27	Q	Q	395	297	45	N	N
California	267	273	30	29	459	61	743	491	53	N	Q
Colorado	360	135	20	16	N	Q	902	287	Q	N	Q
Connecticut	708	342	26	48	N	Q	683	436	75	1,159	312
Delaware	543	218	Q	27	Q	Q	566	372	56	1,020	Q
District of Columbia	379	215	25	37	Q	Q	N	Q	N	Q	Q
Florida	192	302	57	49	Q	Q	Q	359	68	N	N
Georgia	582	281	41	43	Q	Q	437	440	44	Q	N
Hawaii	Q	719	Q	112	N	Q	Q	585	84	N	N
Idaho	356	161	14	15	Q	Q	949	Q	46	Q	N
Illinois	555	156	16	21	Q	Q	1,131	262	47	Q	N
Indiana	541	168	19	21	Q	Q	876	334	64	Q	Q
Iowa	406	116	14	15	N	Q	918	229	25	Q	N
Kansas	496	176	16	18	N	Q	554	245	25	N	N
Kentucky	488	197	26	24	Q	Q	394	Q	90	Q	N
Louisiana	249	218	33	26	Q	Q	Q	Q	Q	N	N
Maine	696	257	Q	42	N	N	878	370	78	967	329

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	Natural gas				Propane			Fuel oil or kerosene			
	Space heating <sup>a</sup>	Water heating	Clothes dryers <sup>b</sup>	Cooking <sup>c</sup>	Pool heaters	Hot tub heaters	Space heating <sup>a</sup>	Water heating	Cooking <sup>c</sup>	Space heating <sup>a</sup>	Water heating
<b>All homes</b>	474	222	24	30	427	48	698	383	52	1,023	356
Maryland	565	234	24	29	Q	Q	Q	Q	57	1,089	Q
Massachusetts	700	275	32	37	Q	Q	1,014	523	49	1,159	353
Michigan	583	134	16	16	Q	Q	1,110	316	45	1,044	Q
Minnesota	496	142	16	16	Q	Q	777	267	29	Q	N
Mississippi	379	214	Q	18	N	Q	543	385	47	Q	N
Missouri	578	173	26	24	N	Q	457	Q	31	N	N
Montana	415	171	Q	15	N	Q	671	Q	26	Q	Q
Nebraska	414	159	Q	16	N	Q	537	Q	Q	N	N
Nevada	276	214	19	25	264	35	785	538	Q	N	N
New Hampshire	633	252	Q	39	N	Q	1,088	506	72	1,258	361
New Jersey	524	206	17	21	420	Q	Q	Q	54	958	387
New Mexico	306	146	14	18	Q	Q	882	433	43	N	N
New York	675	394	31	72	Q	66	1,248	452	67	1,024	396
North Carolina	460	219	35	26	Q	Q	489	437	35	604	N
North Dakota	416	115	Q	12	N	Q	883	218	26	1,049	Q
Ohio	595	167	18	16	Q	Q	1,008	286	33	1,121	Q
Oklahoma	387	192	24	21	Q	Q	470	441	58	N	N
Oregon	430	228	20	21	N	Q	438	Q	62	Q	N
Pennsylvania	645	205	24	23	Q	Q	654	443	56	923	286
Rhode Island	926	310	45	35	N	Q	Q	Q	120	1,038	306

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	Space heating <sup>a</sup>	Water heating	Clothes dryers <sup>b</sup>	Cooking <sup>c</sup>	Pool heaters	Hot tub heaters	Space heating <sup>a</sup>	Water heating	Cooking <sup>c</sup>	Space heating <sup>a</sup>	Water heating
<b>All homes</b>	474	222	24	30	427	48	698	383	52	1,023	356
South Carolina	380	207	Q	29	Q	Q	344	Q	68	Q	N
South Dakota	383	131	Q	10	N	N	719	234	Q	Q	N
Tennessee	401	168	25	24	Q	Q	394	386	47	Q	N
Texas	286	194	24	22	309	39	414	319	37	N	Q
Utah	452	201	26	22	Q	Q	Q	Q	Q	N	N
Vermont	659	277	33	33	N	Q	1,009	427	71	1,026	343
Virginia	546	242	28	30	Q	Q	455	541	52	739	Q
Washington	498	262	21	26	N	Q	436	446	55	Q	N
West Virginia	580	164	14	20	Q	Q	526	Q	71	Q	N
Wisconsin	452	117	12	18	Q	Q	921	227	37	Q	Q
Wyoming	551	169	18	17	N	Q	1,430	Q	Q	N	N

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for the definitions of terms used in these tables. Differences in estimates between states may not be statistically significant.

<sup>a</sup> Includes main (primary) and secondary space heating.

<sup>b</sup> *Clothes dryers* excludes electricity used for controls and spinning the drum.

<sup>c</sup> *Cooking* includes ranges (units with both a cooktop and an oven), separate cooktops, and separate ovens. Microwaves, small kitchen appliances, and outdoor cooking are excluded.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

Data release date: June 2023

**Relative standard errors (RSEs) for CE5.8.ST Detailed household natural gas, propane, and fuel oil or kerosene end-use expenditures in the United States by state—averages, 2020**

RSEs for average site energy expenditures

	Natural gas			Propane			Fuel oil or kerosene				
	Space heating <sup>a</sup>	Water heating	Clothes dryers <sup>b</sup>	Cooking <sup>c</sup>	Pool heaters	Hot tub heaters	Space heating <sup>a</sup>	Water heating	Cooking <sup>c</sup>	Space heating <sup>a</sup>	Water heating
<b>All homes</b>	0.78	0.90	2.22	1.88	6.28	7.59	2.94	2.44	2.46	2.60	2.03
Alabama	7.55	6.54	32.08	16.84	48.33	32.78	27.62	17.04	20.67	48.73	0.00
Alaska	3.96	4.69	10.93	5.93	0.00	40.62	27.26	15.00	13.29	7.19	7.88
Arizona	4.38	2.96	9.64	9.34	18.73	22.41	21.06	7.87	21.26	0.00	0.00
Arkansas	6.02	3.82	15.71	12.99	0.00	0.00	20.10	17.99	17.54	0.00	0.00
California	3.17	1.78	5.14	2.66	13.98	17.79	18.71	6.42	12.60	0.00	0.00
Colorado	2.86	3.07	41.92	9.50	0.00	0.00	26.26	13.26	30.62	0.00	0.00
Connecticut	6.36	6.57	13.06	14.47	0.00	0.00	18.49	15.21	21.38	6.66	5.32
Delaware	7.06	5.64	40.80	12.33	0.00	0.00	20.18	13.71	13.87	16.48	17.39
District of Columbia	8.37	3.93	16.46	7.46	0.00	0.00	0.00	0.00	0.00	46.16	25.04
Florida	10.78	6.24	16.44	18.27	25.81	26.95	66.77	21.11	16.42	0.00	0.00
Georgia	4.69	3.94	13.60	11.38	18.07	37.67	15.72	17.15	16.02	122.16	0.00
Hawaii	0.00	7.67	34.27	15.47	0.00	0.00	0.00	19.78	22.53	0.00	0.00
Idaho	3.54	4.40	23.32	9.17	19.33	14.55	24.13	18.79	23.15	53.50	0.00
Illinois	3.10	3.20	6.50	8.56	17.23	49.89	12.67	7.94	11.98	87.18	0.00
Indiana	3.05	4.25	8.64	7.58	56.71	39.15	12.07	10.85	17.12	130.55	35.54
Iowa	3.56	3.25	9.18	11.90	0.00	32.45	7.04	4.72	15.33	0.00	0.00
Kansas	3.50	4.38	16.78	8.88	0.00	0.00	16.61	8.43	14.05	0.00	0.00
Kentucky	3.28	3.54	20.95	10.70	3.40	0.00	19.83	22.16	12.35	35.49	0.00
Louisiana	8.11	3.42	12.83	8.48	41.07	51.28	74.92	23.54	15.71	0.00	0.00
Maine	8.31	7.50	0.00	25.06	0.00	0.00	10.22	6.80	10.11	5.33	4.20

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	Natural gas				Propane			Fuel oil or kerosene			
	Space heating <sup>a</sup>	Water heating	Clothes dryers <sup>b</sup>	Cooking <sup>c</sup>	Pool heaters	Hot tub heaters	Space heating <sup>a</sup>	Water heating	Cooking <sup>c</sup>	Space heating <sup>a</sup>	Water heating
<b>All homes</b>	0.78	0.90	2.22	1.88	6.28	7.59	2.94	2.44	2.46	2.60	2.03
Maryland	5.07	4.18	9.06	9.71	0.00	35.02	50.65	33.03	18.99	8.43	15.08
Massachusetts	3.47	3.41	8.90	6.43	0.00	35.17	17.16	7.98	14.45	4.96	3.72
Michigan	2.66	2.90	7.50	6.50	14.65	109.86	9.86	10.53	13.03	26.44	42.58
Minnesota	3.14	3.25	10.65	8.74	0.00	38.39	10.03	12.02	18.07	23.31	0.00
Mississippi	8.64	8.41	21.50	11.98	0.00	0.00	19.87	17.64	17.76	0.00	0.00
Missouri	3.28	3.71	13.59	9.16	0.00	84.49	11.36	14.24	27.09	0.00	0.00
Montana	5.88	6.57	34.93	10.86	0.00	0.00	13.78	6.23	16.43	104.42	0.00
Nebraska	4.76	4.71	36.23	18.31	0.00	0.00	26.31	27.37	26.81	0.00	0.00
Nevada	6.73	3.93	6.92	8.65	14.47	15.65	30.28	18.89	16.12	0.00	0.00
New Hampshire	12.28	7.38	26.16	19.26	0.00	47.92	12.91	9.79	12.15	6.00	7.82
New Jersey	3.51	2.59	5.30	5.14	9.40	37.78	30.49	16.98	21.66	10.61	7.57
New Mexico	4.66	4.61	24.97	9.60	48.38	78.56	25.36	14.45	20.17	0.00	0.00
New York	3.62	5.35	9.75	7.55	18.97	42.48	10.01	8.97	8.90	6.92	3.99
North Carolina	4.72	4.08	34.62	12.43	0.00	0.00	19.66	17.90	24.77	20.15	0.00
North Dakota	4.06	4.23	24.79	16.00	0.00	40.49	8.98	11.42	14.26	15.01	0.00
Ohio	2.96	3.94	17.21	8.16	16.94	87.57	13.39	7.49	47.50	20.48	0.00
Oklahoma	3.58	4.19	24.52	13.14	59.00	21.62	30.47	11.19	13.28	0.00	0.00
Oregon	4.49	6.62	13.43	10.36	0.00	41.31	32.36	16.76	14.92	24.47	0.00
Pennsylvania	3.72	3.04	7.98	7.16	20.82	54.09	12.13	11.02	10.82	7.64	8.13
Rhode Island	6.96	6.29	14.17	9.86	0.00	0.00	24.07	14.28	30.64	6.83	6.89

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<b>All homes</b>	0.78	0.90	2.22	1.88	6.28	7.59	2.94	2.44	2.46	2.60	2.03
South Carolina	4.60	6.24	24.89	13.49	117.01	0.00	20.09	29.20	27.02	0.00	0.00
South Dakota	6.39	5.33	53.47	16.60	0.00	0.00	10.89	15.80	23.18	55.51	0.00
Tennessee	5.41	4.31	22.10	14.54	66.24	41.30	19.26	13.96	11.99	82.19	0.00
Texas	3.22	2.20	7.62	3.98	13.48	9.63	16.77	5.59	10.58	0.00	14.83
Utah	5.33	3.40	14.96	9.77	41.86	82.99	0.00	51.61	68.26	0.00	0.00
Vermont	8.47	6.05	18.64	14.16	0.00	109.00	10.53	5.08	9.37	4.76	6.16
Virginia	4.85	3.93	20.23	7.85	23.18	65.69	18.35	10.32	14.48	18.62	18.50
Washington	3.40	4.23	15.34	10.98	0.00	21.17	22.61	14.13	16.74	0.00	0.00
West Virginia	5.19	6.49	24.83	16.24	0.00	0.00	34.42	24.35	19.74	30.46	0.00
Wisconsin	2.64	4.09	8.88	9.04	18.11	103.31	9.93	16.66	26.20	38.99	0.00
Wyoming	4.46	4.13	18.32	12.17	0.00	132.61	22.48	10.54	26.96	0.00	0.00

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for the definitions of terms used in these tables.

<sup>a</sup> Includes main (primary) and secondary space heating.

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