

Data release date: June 2023

**CE5.4.ST Detailed household natural gas, propane, and fuel oil or kerosene end-use consumption in the United States by state—averages, 2020**

Average site energy consumption  
(million Btu 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>	44.90	18.15	2.06	2.02	39.34	3.93	35.70	16.67	2.09	58.50	19.97
Alabama	28.59	14.99	Q	2.13	Q	Q	14.30	Q	2.51	Q	N
Alaska	94.50	32.80	2.22	2.25	N	Q	Q	18.10	2.42	83.07	23.85
Arizona	16.06	14.21	1.92	1.88	27.92	4.06	13.96	13.86	1.28	Q	Q
Arkansas	44.29	16.07	1.85	2.10	Q	Q	18.23	15.63	2.05	N	N
California	17.60	18.79	2.14	2.00	31.48	3.88	24.36	16.43	1.81	N	Q
Colorado	52.59	19.16	3.23	2.13	N	Q	55.48	17.29	Q	N	Q
Connecticut	48.84	20.78	1.69	2.48	N	Q	30.21	19.67	2.36	70.78	19.76
Delaware	40.58	16.85	Q	1.83	Q	Q	21.32	14.36	2.06	49.09	Q
District of Columbia	28.87	15.60	1.63	2.36	Q	Q	N	Q	N	Q	Q
Florida	8.45	12.81	2.58	1.46	Q	Q	Q	9.66	1.90	N	N
Georgia	36.96	17.49	2.86	2.08	Q	Q	17.76	16.78	1.72	Q	N
Hawaii	Q	14.93	Q	2.16	N	Q	Q	11.91	1.64	N	N
Idaho	51.10	23.15	1.86	2.07	Q	Q	51.23	Q	2.52	Q	N
Illinois	66.30	17.41	1.95	2.05	Q	Q	69.87	15.66	2.80	Q	N
Indiana	59.31	17.55	2.04	2.14	Q	Q	50.11	18.17	3.53	Q	Q
Iowa	56.85	16.12	2.08	2.16	N	Q	71.72	17.67	1.89	Q	N
Kansas	50.93	17.77	1.68	1.77	N	Q	40.68	17.99	1.87	N	N
Kentucky	42.97	17.16	2.35	1.95	Q	Q	19.34	Q	3.61	Q	N
Louisiana	20.76	17.02	2.48	1.84	Q	Q	Q	Q	Q	N	N
Maine	49.30	17.85	Q	2.32	N	N	32.86	13.61	2.62	61.11	21.25

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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>	44.90	18.15	2.06	2.02	39.34	3.93	35.70	16.67	2.09	58.50	19.97
Maryland	43.78	18.06	1.79	2.16	Q	Q	Q	Q	1.98	51.94	Q
Massachusetts	48.86	19.07	2.21	2.40	Q	Q	35.69	18.41	1.66	68.33	21.06
Michigan	72.66	16.57	2.00	1.97	Q	Q	67.62	18.74	2.54	56.80	Q
Minnesota	64.11	18.07	2.04	2.07	Q	Q	56.34	18.97	2.08	Q	N
Mississippi	34.23	18.85	Q	1.59	N	Q	20.63	16.10	1.90	Q	N
Missouri	56.75	16.52	2.46	2.15	N	Q	32.36	Q	2.09	N	N
Montana	60.52	24.53	Q	2.12	N	Q	43.27	Q	1.70	Q	Q
Nebraska	51.37	18.51	Q	1.94	N	Q	39.87	Q	Q	N	N
Nevada	25.10	18.88	1.63	2.11	27.35	3.27	34.11	20.60	Q	N	N
New Hampshire	44.04	17.74	Q	2.42	N	Q	44.74	18.36	2.37	71.55	20.25
New Jersey	60.58	23.31	1.92	2.25	49.36	Q	Q	Q	1.75	51.85	19.99
New Mexico	38.70	18.35	1.83	2.14	Q	Q	37.62	17.48	1.70	N	N
New York	46.19	19.53	1.98	2.20	Q	3.52	53.10	17.11	2.14	54.36	19.79
North Carolina	35.73	17.04	2.17	1.73	Q	Q	20.77	15.28	1.42	30.64	N
North Dakota	69.13	19.39	Q	2.00	N	Q	65.44	16.35	1.94	65.41	Q
Ohio	62.26	17.03	1.88	1.79	Q	Q	49.75	15.63	1.75	63.16	Q
Oklahoma	42.59	19.86	2.50	1.79	Q	Q	23.84	21.60	2.88	N	N
Oregon	43.16	22.86	2.01	2.00	N	Q	15.25	Q	2.09	Q	N
Pennsylvania	57.19	17.52	1.99	1.86	Q	Q	31.19	20.58	2.27	58.36	18.35
Rhode Island	64.33	21.54	3.03	2.42	N	Q	Q	Q	3.20	65.20	18.98

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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>	44.90	18.15	2.06	2.02	39.34	3.93	35.70	16.67	2.09	58.50	19.97
South Carolina	29.11	15.59	Q	1.88	Q	Q	11.92	Q	2.18	Q	N
South Dakota	53.53	18.23	Q	1.48	N	N	51.58	14.08	Q	Q	N
Tennessee	43.75	18.19	2.59	2.64	Q	Q	16.69	17.39	2.03	Q	N
Texas	23.51	15.36	1.96	1.60	34.25	3.97	18.71	14.48	1.69	N	Q
Utah	46.26	20.60	2.65	2.20	Q	Q	Q	Q	Q	N	N
Vermont	47.12	19.67	2.54	2.33	N	Q	41.27	16.73	2.54	61.96	20.88
Virginia	44.03	19.13	2.26	2.13	Q	Q	17.83	19.07	1.87	39.45	Q
Washington	46.43	24.16	1.91	2.16	N	Q	18.30	17.45	2.16	Q	N
West Virginia	59.89	16.90	1.51	2.14	Q	Q	20.70	Q	2.53	Q	N
Wisconsin	59.67	14.93	1.59	2.25	Q	Q	64.08	15.96	2.46	Q	Q
Wyoming	63.02	18.82	2.22	1.90	N	Q	83.35	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.

Btu = British thermal units

<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.

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Average site energy consumption

	Natural gas (hundred cubic feet per household using the end use)						Propane (gallons per household using the end use)			Fuel oil or kerosene (gallons per household using the end use)	
	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>	446	181	20	20	391	39	390	182	23	426	145
Alabama	283	148	Q	21	Q	Q	156	Q	27	Q	N
Alaska	969	336	23	23	N	Q	Q	198	26	605	174
Arizona	172	149	20	20	289	43	153	152	14	Q	Q
Arkansas	443	161	19	21	Q	Q	199	171	22	N	N
California	174	185	21	20	313	39	266	180	20	N	Q
Colorado	599	218	37	24	N	Q	607	189	Q	N	Q
Connecticut	477	203	17	24	N	Q	330	215	26	515	144
Delaware	392	163	Q	18	Q	Q	233	157	23	357	Q
District of Columbia	281	152	16	23	Q	Q	N	Q	N	Q	Q
Florida	83	125	25	14	Q	Q	Q	106	21	N	N
Georgia	371	175	29	21	Q	Q	194	184	19	Q	N
Hawaii	Q	158	Q	23	N	Q	Q	130	18	N	N
Idaho	557	252	21	23	Q	Q	560	Q	28	Q	N
Illinois	655	172	19	20	Q	Q	764	171	31	Q	N
Indiana	578	171	20	21	Q	Q	548	199	39	Q	Q

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**Average site energy consumption**

	Natural gas (hundred cubic feet per household using the end use)						Propane (gallons per household using the end use)			Fuel oil or kerosene (gallons per household using the end use)	
	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>	446	181	20	20	391	39	390	182	23	426	145
Iowa	550	156	20	21	N	Q	784	193	21	Q	N
Kansas	515	180	17	18	N	Q	445	197	20	N	N
Kentucky	419	167	23	19	Q	Q	211	Q	39	Q	N
Louisiana	204	167	24	18	Q	Q	Q	Q	Q	N	N
Maine	477	173	Q	22	N	N	359	149	29	445	155
Maryland	426	176	17	21	Q	Q	Q	Q	22	378	Q
Massachusetts	478	186	22	23	Q	Q	390	201	18	497	153
Michigan	705	161	19	19	Q	Q	739	205	28	413	Q
Minnesota	628	177	20	20	Q	Q	616	207	23	Q	N
Mississippi	336	185	Q	16	N	Q	226	176	21	Q	N
Missouri	570	166	25	22	N	Q	354	Q	23	N	N
Montana	648	261	Q	23	N	Q	473	Q	19	Q	Q
Nebraska	510	183	Q	19	N	Q	436	Q	Q	N	N
Nevada	274	202	17	23	285	34	373	225	Q	N	N
New Hampshire	430	173	Q	24	N	Q	489	201	26	521	147
New Jersey	586	225	19	22	479	Q	Q	Q	19	377	146
New Mexico	460	217	22	25	Q	Q	411	191	19	N	N
New York	453	191	19	21	Q	34	581	187	23	396	144
North Carolina	354	169	22	17	Q	Q	227	167	15	223	N
North Dakota	681	191	Q	20	N	Q	716	179	21	476	Q

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	Natural gas (hundred cubic feet per household using the end use)						Propane (gallons per household using the end use)			Fuel oil or kerosene (gallons per household using the end use)	
	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>	446	181	20	20	391	39	390	182	23	426	145
Ohio	602	165	18	17	Q	Q	544	171	19	460	Q
Oklahoma	429	200	25	18	Q	Q	261	236	31	N	N
Oregon	422	223	20	19	N	Q	167	Q	23	Q	N
Pennsylvania	566	173	20	18	Q	Q	341	225	25	425	134
Rhode Island	628	210	30	24	N	Q	Q	Q	35	475	138
South Carolina	288	154	Q	19	Q	Q	130	Q	24	Q	N
South Dakota	531	181	Q	15	N	N	564	154	Q	Q	N
Tennessee	435	181	26	26	Q	Q	183	190	22	Q	N
Texas	239	155	20	16	340	39	205	158	18	N	Q
Utah	525	233	30	25	Q	Q	Q	Q	Q	N	N
Vermont	458	191	25	23	N	Q	451	183	28	451	152
Virginia	424	184	22	21	Q	Q	195	209	20	287	Q
Washington	437	227	18	20	N	Q	200	191	24	Q	N
West Virginia	572	162	14	20	Q	Q	226	Q	28	Q	N
Wisconsin	589	147	16	22	Q	Q	701	175	27	Q	Q
Wyoming	722	216	26	21	N	Q	911	Q	Q	N	N

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**Average site energy consumption**

	Natural gas (hundred cubic feet per household using the end use)						Propane (gallons per household using the end use)			Fuel oil or kerosene (gallons per household using the end use)	
	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>	446	181	20	20	391	39	390	182	23	426	145

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*

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<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.

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**Relative standard errors (RSEs) for CE5.4.ST Detailed household natural gas, propane, and fuel oil or kerosene end-use consumption in the United States by state—averages, 2020**

	RSEs for average site energy consumption										
	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>	0.83	0.58	1.90	1.10	5.90	6.25	3.09	1.73	2.32	2.48	1.58
Alabama	8.00	6.16	43.41	16.59	88.48	36.98	27.61	19.26	15.94	48.73	0.00
Alaska	4.19	4.88	10.77	5.69	0.00	40.79	32.05	14.10	12.40	7.80	6.03
Arizona	5.33	3.56	10.09	8.10	20.39	24.60	23.25	9.79	20.78	0.00	0.00
Arkansas	6.81	4.65	13.43	14.77	0.00	0.00	20.05	16.05	14.94	0.00	0.00
California	2.87	1.61	5.29	2.76	14.32	15.33	18.49	5.83	13.42	0.00	0.00
Colorado	3.26	2.83	45.47	6.76	0.00	0.00	28.86	11.75	26.18	0.00	0.00
Connecticut	7.63	5.98	13.91	10.43	0.00	0.00	21.16	18.25	13.98	6.31	5.54
Delaware	8.30	6.00	47.87	10.54	0.00	0.00	18.41	13.77	13.82	14.35	18.76
District of Columbia	9.40	4.21	19.73	6.28	0.00	0.00	0.00	0.00	0.00	46.16	25.04
Florida	11.46	7.38	20.53	12.32	24.32	28.19	63.09	15.93	12.51	0.00	0.00
Georgia	5.33	3.65	16.40	7.32	19.65	31.18	16.16	15.43	15.91	122.16	0.00
Hawaii	0.00	8.45	31.40	15.16	0.00	0.00	0.00	14.12	17.54	0.00	0.00
Idaho	3.68	4.82	25.05	8.07	20.45	37.78	18.26	10.87	20.56	54.29	0.00
Illinois	3.12	2.27	6.01	5.03	20.63	43.87	12.54	7.28	11.35	87.18	0.00
Indiana	3.53	4.02	8.92	7.73	64.47	16.42	13.04	8.18	11.81	130.55	35.54
Iowa	4.18	3.69	10.28	12.30	0.00	28.73	6.64	4.30	14.79	0.00	0.00
Kansas	4.37	4.60	16.30	8.16	0.00	0.00	16.72	8.41	14.28	0.00	0.00
Kentucky	3.93	3.67	18.83	9.75	18.16	0.00	20.28	15.88	10.73	35.32	0.00
Louisiana	9.27	3.78	13.82	7.49	52.03	69.93	79.84	18.01	17.04	0.00	0.00
Maine	9.24	8.06	0.00	17.84	0.00	0.00	11.74	7.22	9.23	5.49	4.29



**Relative standard errors (RSEs) for CE5.4.ST Detailed household natural gas, propane, and fuel oil or kerosene end-use consumption in the United States by state—averages, 2020**

RSEs for average site energy consumption

	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>	0.83	0.58	1.90	1.10	5.90	6.25	3.09	1.73	2.32	2.48	1.58
Maryland	5.21	4.82	9.15	9.97	0.00	38.18	51.96	31.89	20.05	8.59	12.95
Massachusetts	3.53	3.73	9.44	5.78	0.00	31.85	17.26	6.66	14.36	4.76	3.56
Michigan	3.05	3.12	7.83	6.68	14.28	110.87	10.53	9.10	12.94	24.49	42.19
Minnesota	3.53	3.41	11.43	8.54	0.00	39.12	10.47	11.74	18.52	15.26	0.00
Mississippi	9.63	9.03	17.05	13.24	0.00	0.00	18.41	16.12	17.38	0.00	0.00
Missouri	4.28	4.36	15.33	10.23	0.00	93.91	11.91	15.64	26.34	0.00	0.00
Montana	6.27	6.69	18.43	10.59	0.00	0.00	15.26	3.79	16.82	104.42	0.00
Nebraska	5.13	5.25	24.05	21.28	0.00	0.00	26.40	25.22	25.93	0.00	0.00
Nevada	6.72	4.48	7.47	7.91	16.32	18.18	30.88	13.30	13.52	0.00	0.00
New Hampshire	12.65	8.20	27.22	18.99	0.00	48.22	13.81	8.53	8.40	5.58	7.82
New Jersey	3.86	3.18	5.13	4.95	8.62	41.27	32.12	14.16	17.43	10.78	6.92
New Mexico	6.02	5.93	24.68	9.30	39.32	81.01	23.95	12.47	17.12	0.00	0.00
New York	3.19	2.35	6.15	4.25	26.34	40.09	9.57	6.51	8.16	6.45	3.41
North Carolina	5.18	4.44	18.87	8.97	0.00	0.00	21.86	12.44	23.54	20.41	0.00
North Dakota	4.97	4.83	28.81	14.91	0.00	41.74	8.88	11.41	13.65	17.60	0.00
Ohio	3.57	4.05	12.28	8.15	17.53	98.30	10.42	6.20	46.11	20.72	0.00
Oklahoma	4.81	4.74	20.97	7.91	75.23	51.24	28.39	12.19	14.10	0.00	0.00
Oregon	4.60	6.89	14.44	7.74	0.00	43.60	32.39	18.86	14.49	24.00	0.00
Pennsylvania	4.26	3.04	7.09	5.43	21.60	58.44	13.24	11.23	8.54	7.61	7.90
Rhode Island	7.55	7.05	14.27	10.35	0.00	0.00	29.17	17.93	20.00	7.53	6.34

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RSEs for average site energy consumption

	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>	0.83	0.58	1.90	1.10	5.90	6.25	3.09	1.73	2.32	2.48	1.58
South Carolina	5.59	6.74	24.13	12.56	124.29	0.00	19.96	27.00	23.11	0.00	0.00
South Dakota	7.33	6.44	48.57	17.82	0.00	0.00	11.17	9.69	26.21	55.51	0.00
Tennessee	6.45	5.43	18.12	16.14	60.75	36.18	19.28	11.21	10.98	82.19	0.00
Texas	3.87	2.01	8.44	3.45	15.25	10.22	16.65	6.14	10.57	0.00	14.83
Utah	5.71	3.86	14.73	9.86	41.10	90.97	0.00	38.20	60.36	0.00	0.00
Vermont	9.54	6.82	20.73	14.29	0.00	108.60	10.15	4.69	8.05	4.87	5.78
Virginia	5.49	4.54	22.15	7.84	14.75	70.27	18.88	8.26	14.75	18.19	18.07
Washington	3.71	4.37	15.90	9.95	0.00	20.71	21.54	10.16	18.83	0.00	0.00
West Virginia	5.98	6.71	25.81	16.98	0.00	0.00	36.25	24.35	17.51	31.28	0.00
Wisconsin	3.01	4.14	8.25	9.87	12.78	105.39	9.61	17.01	24.40	39.70	0.00
Wyoming	5.48	5.10	23.61	11.93	0.00	139.19	22.54	12.14	22.45	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.

<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.