

Table CE5.4 Detailed household natural gas and propane end-use consumption—averages, 2015

Average site energy consumption (million Btu per household using the end use)										
	Natural gas						Propane			
	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	44.97	18.09	2.08	2.90	10.09	3.41	31.05	17.83	2.36	3.13
Census region and division										
Northeast	55.85	20.01	2.18	3.22	Q	Q	37.97	17.19	2.05	3.39
New England	50.85	20.99	2.52	2.92	N	N	35.13	17.08	2.20	3.46
Middle Atlantic	56.98	19.78	2.13	3.28	Q	Q	40.31	17.29	Q	3.32
Midwest	60.83	18.60	2.07	2.96	6.96	4.04	42.78	19.59	2.78	3.40
East North Central	64.23	18.95	2.15	3.02	7.12	Q	45.08	18.76	2.61	3.35
West North Central	52.65	17.77	1.59	2.69	Q	Q	40.04	21.30	Q	3.47
South	34.01	16.49	2.35	2.88	13.72	3.34	24.52	18.08	2.36	2.95
South Atlantic	36.70	17.39	2.41	2.87	Q	4.42	26.86	21.76	Q	2.79
East South Central	34.84	17.80	1.87	3.00	Q	N	17.10	17.23	Q	2.97
West South Central	30.28	15.14	2.42	2.86	13.31	2.77	28.99	14.76	Q	3.14
West	26.34	17.62	1.90	2.56	9.42	3.53	20.90	16.68	2.34	2.94
Mountain	39.01	19.05	2.12	2.86	Q	Q	20.79	16.64	Q	2.21
Mountain North	44.66	21.66	1.86	3.18	Q	Q	29.30	Q	Q	Q
Mountain South	29.85	15.66	2.25	2.60	Q	Q	Q	17.39	Q	2.15
Pacific	18.68	16.94	1.84	2.48	9.77	3.24	21.00	16.71	2.86	3.51
Census urban/rural classification⁴										
Urban	44.22	17.92	2.03	2.84	10.08	3.43	28.27	20.07	2.10	3.01
Urbanized area	44.18	17.99	2.01	2.83	10.45	3.43	32.25	22.28	Q	3.09
Urban cluster	44.48	17.40	2.34	2.95	Q	Q	20.71	13.55	Q	2.75
Rural	52.62	20.42	2.74	3.62	Q	Q	31.94	17.14	2.42	3.19

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	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	44.97	18.09	2.08	2.90	10.09	3.41	31.05	17.83	2.36	3.13
Metropolitan or micropolitan statistical area										
In metropolitan statistical area	44.58	18.10	2.04	2.86	10.22	3.55	33.96	18.71	2.46	2.82
In micropolitan statistical area	48.37	17.22	2.45	3.34	Q	Q	23.99	17.14	Q	3.49
Not in metropolitan or micropolitan statistical area	46.66	19.99	3.42	2.86	Q	Q	29.30	14.22	2.40	4.01
Climate region⁵										
Very cold/Cold	59.54	19.69	2.07	3.14	7.14	4.07	37.68	17.90	2.08	3.18
Mixed-humid	43.64	18.36	2.28	2.97	Q	1.88	30.50	20.70	2.74	2.88
Mixed-dry/Hot-dry	15.97	15.95	1.95	2.46	9.78	3.45	21.91	18.30	Q	3.17
Hot-humid	24.87	14.52	2.26	2.78	14.28	3.83	13.02	12.86	Q	3.54
Marine	23.37	18.27	1.72	2.52	Q	Q	19.32	15.01	Q	2.71
Housing unit type										
Single-family detached	52.68	19.34	2.19	3.02	10.22	3.46	33.86	18.03	2.48	3.40
Single-family attached	43.53	16.39	1.69	2.95	Q	Q	Q	Q	Q	Q
Apartments in buildings with 2–4 units	29.92	18.07	1.65	2.93	N	Q	Q	Q	N	Q
Apartments in buildings with 5 or more units	14.20	13.61	1.50	2.46	N	Q	Q	Q	N	Q
Mobile homes	35.26	18.42	1.70	2.12	N	Q	16.44	16.55	Q	1.83

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(million Btu per household using the end use)

	Natural gas					Propane				
	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	44.97	18.09	2.08	2.90	10.09	3.41	31.05	17.83	2.36	3.13
Ownership of housing unit										
Owned	51.76	18.62	2.07	2.93	10.19	3.50	32.70	18.20	2.23	3.19
Single-family	53.14	18.77	2.10	3.01	10.19	3.54	34.44	18.32	2.29	3.44
Apartments	31.25	17.03	1.53	2.25	N	Q	Q	Q	N	N
Mobile homes	36.29	15.18	1.74	2.19	N	Q	16.98	18.38	Q	1.96
Rented ⁶	29.61	17.09	2.13	2.83	Q	Q	20.83	16.22	Q	2.85
Single-family	45.04	20.52	2.39	3.04	Q	Q	25.45	15.07	Q	3.08
Apartments	18.53	14.96	1.59	2.71	N	Q	Q	18.56	N	Q
Mobile homes	Q	Q	Q	1.85	N	N	Q	Q	Q	Q
Year of construction										
Before 1950	53.08	18.20	1.94	2.99	Q	Q	41.62	16.86	3.03	3.61
1950 to 1959	49.78	17.23	2.06	2.72	Q	Q	36.73	16.35	Q	3.54
1960 to 1969	42.99	16.26	2.05	3.17	Q	Q	31.97	15.30	Q	2.83
1970 to 1979	40.59	16.74	1.74	2.74	8.01	4.83	29.47	17.05	Q	2.85
1980 to 1989	36.14	17.83	2.03	2.95	9.95	2.43	23.45	18.38	1.24	3.23
1990 to 1999	45.42	19.95	2.38	2.80	8.67	3.47	27.10	20.72	1.79	3.21
2000 to 2009	39.78	20.46	2.24	2.78	14.71	3.78	31.16	18.99	Q	2.78
2010 to 2015	37.49	19.82	2.76	3.18	Q	Q	28.95	14.90	Q	3.22

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	Natural gas						Propane			
	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	44.97	18.09	2.08	2.90	10.09	3.41	31.05	17.83	2.36	3.13
Total square footage⁷										
Fewer than 1,000	19.43	14.06	1.65	2.42	N	Q	16.49	18.24	Q	3.06
1,000 to 1,499	31.85	18.01	1.69	2.95	N	Q	18.60	16.33	Q	2.49
1,500 to 1,999	41.90	17.63	1.64	2.80	Q	3.18	26.61	14.07	Q	3.10
2,000 to 2,499	49.61	19.09	2.05	2.84	Q	4.15	37.19	17.53	Q	3.35
2,500 to 2,999	57.93	18.89	2.44	2.94	11.68	5.00	31.31	17.51	1.89	3.09
3,000 or greater	66.09	21.37	2.49	3.34	10.30	3.15	40.85	19.97	3.16	3.49
Number of household members										
1 member	40.54	9.26	1.14	2.06	Q	Q	26.12	10.18	1.42	2.37
2 members	46.25	15.31	1.88	2.74	10.01	3.39	28.76	14.59	1.80	2.96
3 members	46.56	21.20	2.25	3.08	Q	Q	34.41	23.69	Q	3.63
4 members	44.93	26.71	2.56	3.25	9.86	3.57	37.77	30.22	Q	3.68
5 members	50.13	28.93	3.19	3.76	Q	Q	56.49	29.07	Q	3.65
6 or more members	45.75	33.64	3.32	4.60	Q	Q	26.99	Q	Q	4.23
2015 annual household income										
Less than \$20,000	34.56	15.68	1.98	2.96	N	Q	24.40	14.03	Q	2.81
\$20,000 to \$39,999	44.06	16.68	1.70	2.64	Q	Q	28.31	20.34	Q	3.35
\$40,000 to \$59,999	43.39	17.37	1.96	2.90	Q	3.08	28.95	17.60	Q	2.66
\$60,000 to \$79,999	45.53	18.05	2.30	3.21	Q	Q	31.72	16.11	Q	2.87
\$80,000 to \$99,999	47.22	19.24	1.87	2.88	Q	Q	38.69	18.99	Q	4.81
\$100,000 to \$119,999	47.56	20.39	2.39	3.12	Q	3.30	29.99	19.78	Q	3.03
\$120,000 to \$139,999	55.36	21.75	2.21	2.61	Q	4.46	32.12	15.80	Q	3.57
\$140,000 or more	53.41	21.36	2.39	2.94	11.33	3.85	39.68	21.70	3.05	3.26

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	Natural gas					Propane				
	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	44.97	18.09	2.08	2.90	10.09	3.41	31.05	17.83	2.36	3.13
Payment method for energy bills										
All paid by household	47.53	18.49	2.09	2.89	10.22	3.35	31.29	17.79	2.36	3.10
Some paid by household, some included in rent or condo fee	21.52	14.73	1.91	2.76	Q	Q	Q	Q	N	Q
All included in rent or condo fee	22.75	15.49	1.92	3.24	N	Q	Q	Q	N	Q
Some other method	35.60	18.42	Q	2.26	N	N	Q	Q	N	Q

¹Includes main (primary) and secondary space heating.

²Excludes electricity used for controls and spinning the drum.

³Includes stoves (units with both a cooktop and an oven), separate cooktops, and separate ovens. Microwaves, small kitchen appliances, and outdoor cooking are excluded.

⁴Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

⁵These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

⁶Rented includes households that occupy their primary housing units without paying rent.

⁷Total square footage includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage for some housing units was calculated based on measurements taken by the interviewer. For households responding without the presence of an interviewer, square footage was imputed based on characteristics of the housing unit. See 2015 RECS Square Footage Methodology for full details about data collection and processing.

Q = Data withheld because either the Relative Standard Error (RSE) was greater than 50% or fewer than 10 cases responded.

N = No cases responded.

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, C, D, E, F, G of the 2015 Residential Energy Consumption Survey.

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	Natural gas (ccf per household using the end use)					Propane (gallons per household using the end use)				
	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	450	181	21	29	101	34	340	195	26	34
Census region and division										
Northeast	543	194	21	31	Q	Q	416	188	22	37
New England	497	205	25	29	N	N	385	187	24	38
Middle Atlantic	553	192	21	32	Q	Q	441	189	Q	36
Midwest	608	186	21	29	70	40	468	214	30	37
East North Central	638	188	21	30	71	Q	494	205	29	37
West North Central	536	180	16	27	Q	Q	438	233	Q	38
South	335	162	23	28	134	33	268	198	26	32
South Atlantic	362	171	24	28	Q	43	294	238	Q	31
East South Central	343	175	19	30	Q	N	187	189	Q	33
West South Central	297	148	24	28	129	27	317	162	Q	34
West	282	182	19	26	96	35	229	183	26	32
Mountain	442	213	23	32	Q	Q	228	182	Q	24
Mountain North	504	245	21	36	Q	Q	321	Q	Q	Q
Mountain South	341	172	24	29	Q	Q	Q	190	Q	24
Pacific	186	168	18	25	98	32	230	183	31	38
Census urban/rural classification⁴										
Urban	442	179	20	28	101	34	310	220	23	33
Urbanized area	441	180	20	28	104	34	353	244	Q	34
Urban cluster	446	174	23	29	Q	Q	227	148	Q	30
Rural	534	208	27	37	Q	Q	350	188	26	35

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	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	450	181	21	29	101	34	340	195	26	34
Metropolitan or micropolitan statistical area										
In metropolitan statistical area	445	181	20	28	102	35	372	205	27	31
In micropolitan statistical area	484	172	24	33	Q	Q	263	188	Q	38
Not in metropolitan or micropolitan statistical area	484	210	35	30	Q	Q	321	156	26	44
Climate region⁵										
Very cold/Cold	600	200	21	31	73	41	413	196	23	35
Mixed-humid	429	180	22	29	Q	19	334	227	30	32
Mixed-dry/Hot-dry	167	161	20	25	99	35	240	200	Q	35
Hot-humid	244	142	22	27	139	37	143	141	Q	39
Marine	228	178	17	25	Q	Q	212	164	Q	30
Housing unit type										
Single-family detached	528	194	22	30	102	34	371	197	27	37
Single-family attached	429	162	16	29	Q	Q	Q	Q	Q	Q
Apartments in buildings with 2–4 units	293	179	16	29	N	Q	Q	Q	N	Q
Apartments in buildings with 5 or more units	141	135	15	24	N	Q	Q	Q	N	Q
Mobile homes	354	188	17	21	N	Q	180	181	Q	20

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	Natural gas (ccf per household using the end use)						Propane (gallons per household using the end use)			
	Space heating¹	Water heating	Clothes dryers²	Cooking³	Pool heaters	Hot tub heaters	Space heating¹	Water heating	Clothes dryers²	Cooking³
All homes	450	181	21	29	101	34	340	195	26	34
Ownership of housing unit										
Owned	519	186	21	29	102	35	358	199	24	35
Single-family	533	188	21	30	102	35	377	201	25	38
Apartments	305	166	15	22	N	Q	Q	Q	N	N
Mobile homes	363	153	17	21	N	Q	186	201	Q	22
Rented ⁶	294	170	21	28	Q	Q	228	178	Q	31
Single-family	449	205	24	30	Q	Q	279	165	Q	34
Apartments	183	149	16	27	N	Q	Q	203	N	Q
Mobile homes	Q	Q	Q	19	N	N	Q	Q	Q	Q
Year of construction										
Before 1950	524	179	19	29	Q	Q	456	185	33	40
1950 to 1959	495	171	20	27	Q	Q	402	179	Q	39
1960 to 1969	427	162	20	31	Q	Q	350	168	Q	31
1970 to 1979	408	168	17	27	81	47	323	187	Q	31
1980 to 1989	363	180	20	29	101	24	257	201	14	35
1990 to 1999	460	202	24	28	86	34	297	227	20	35
2000 to 2009	406	208	23	28	146	38	341	208	Q	30
2010 to 2015	385	204	27	32	Q	Q	317	163	Q	35

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	Space heating¹	Water heating	Clothes dryers²	Cooking³	Pool heaters	Hot tub heaters	Space heating¹	Water heating	Clothes dryers²	Cooking³
All homes	450	181	21	29	101	34	340	195	26	34
Total square footage⁷										
Fewer than 1,000	194	140	16	24	N	Q	181	200	Q	33
1,000 to 1,499	318	180	17	29	N	Q	204	179	Q	27
1,500 to 1,999	417	176	16	28	Q	32	291	154	Q	34
2,000 to 2,499	496	191	20	28	Q	41	407	192	Q	37
2,500 to 2,999	581	190	24	29	115	49	343	192	21	34
3,000 or greater	662	215	25	33	102	31	447	219	35	38
Number of household members										
1 member	406	92	11	20	Q	Q	286	111	16	26
2 members	463	153	19	27	100	34	315	160	20	32
3 members	465	212	22	31	Q	Q	377	259	Q	40
4 members	447	265	25	32	97	35	414	331	Q	40
5 members	499	290	32	37	Q	Q	619	318	Q	40
6 or more members	463	341	34	45	Q	Q	296	Q	Q	46
2015 annual household income										
Less than \$20,000	342	156	19	29	N	Q	267	154	Q	31
\$20,000 to \$39,999	440	166	17	26	Q	Q	310	223	Q	37
\$40,000 to \$59,999	433	173	19	29	Q	31	317	193	Q	29
\$60,000 to \$79,999	459	182	23	32	Q	Q	347	176	Q	31
\$80,000 to \$99,999	476	195	19	29	Q	Q	424	208	Q	53
\$100,000 to \$119,999	478	205	24	31	Q	33	328	217	Q	33
\$120,000 to \$139,999	554	218	22	26	Q	44	352	173	Q	39
\$140,000 or more	533	212	24	29	112	38	434	238	33	36

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	Space heating¹	Water heating	Clothes dryers²	Cooking³	Pool heaters	Hot tub heaters	Space heating¹	Water heating	Clothes dryers²	Cooking³
All homes	450	181	21	29	101	34	340	195	26	34
Payment method for energy bills										
All paid by household	476	185	21	29	102	33	343	195	26	34
Some paid by household, some included in rent or condo fee	212	145	19	27	Q	Q	Q	Q	N	Q
All included in rent or condo fee	226	153	20	31	N	Q	Q	Q	N	Q
Some other method	353	182	Q	23	N	N	Q	Q	N	Q

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	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³	Pool heaters	Hot tub heaters	Space heating ¹	Water heating	Clothes dryers ²	Cooking ³
All homes	450	181	21	29	101	34	340	195	26	34

¹Includes main (primary) and secondary space heating.

²Excludes electricity used for controls and spinning the drum.

³Includes stoves (units with both a cooktop and an oven), separate cooktops, and separate ovens. Microwaves, small kitchen appliances, and outdoor cooking are excluded.

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⁷Total square footage includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage for some housing units was calculated based on measurements taken by the interviewer. For households responding without the presence of an interviewer, square footage was imputed based on characteristics of the housing unit. See 2015 RECS Square Footage Methodology for full details about data collection and processing.

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