

Table CE5.2 Detailed household natural gas and propane end-use consumption—totals, 2015

	Total site energy consumption (trillion Btu)									
	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	2,677.6	1,019.1	36.4	113.0	11.5	5.6	232.8	76.3	3.0	19.4
Census region and division										
Northeast	646.0	212.1	8.1	31.0	Q	Q	52.3	16.0	0.9	5.7
New England	108.6	42.6	1.2	4.4	N	N	21.8	7.3	0.4	3.2
Middle Atlantic	537.4	169.5	6.8	26.6	Q	Q	30.4	8.8	Q	2.6
Midwest	1,157.8	297.7	12.8	26.8	1.7	Q	81.0	18.8	0.9	2.9
East North Central	863.4	213.9	11.4	22.3	1.5	Q	46.5	Q	Q	1.7
West North Central	294.4	83.8	1.4	4.5	Q	Q	34.5	6.7	Q	1.3
South	493.5	212.8	5.3	27.2	4.6	1.7	75.6	21.5	Q	6.6
South Atlantic	251.7	103.6	2.2	12.3	Q	0.8	40.9	10.7	Q	3.1
East South Central	77.2	27.0	0.5	4.0	Q	N	15.2	3.4	Q	1.1
West South Central	164.7	82.3	2.6	10.9	Q	0.9	19.5	7.3	Q	2.5
West	380.3	296.5	10.3	28.0	4.6	2.5	24.0	19.9	Q	4.0
Mountain	212.3	103.4	2.5	7.0	Q	Q	11.4	9.1	Q	Q
Mountain North	150.4	66.5	0.8	3.6	Q	Q	Q	Q	Q	Q
Mountain South	62.0	36.8	1.8	3.5	Q	Q	Q	7.2	Q	Q
Pacific	167.9	193.1	7.7	20.9	3.1	1.9	12.6	10.8	Q	2.7
Census urban/rural classification⁴										
Urban	2,399.9	940.7	33.1	103.7	10.8	5.0	51.7	20.3	Q	5.7
Urbanized area	2,097.3	838.8	30.7	93.6	10.2	4.5	38.6	16.8	Q	4.5
Urban cluster	302.6	101.9	2.5	10.0	Q	Q	13.0	3.5	Q	1.3
Rural	277.7	78.5	3.3	9.3	Q	Q	181.2	56.0	2.5	13.6

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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	2,677.6	1,019.1	36.4	113.0	11.5	5.6	232.8	76.3	3.0	19.4
Metropolitan or micropolitan statistical area										
In metropolitan statistical area	2,344.1	920.3	33.6	101.5	11.1	5.4	151.9	58.8	2.4	11.7
In micropolitan statistical area	234.4	67.5	1.8	8.7	Q	Q	35.0	7.8	Q	3.2
Not in metropolitan or micropolitan statistical area	99.1	31.4	0.9	2.8	Q	Q	45.9	9.6	0.5	4.4
Climate region⁵										
Very cold/Cold	1,656.0	474.0	17.8	47.9	2.0	1.3	119.4	39.9	1.4	8.9
Mixed-humid	696.2	240.6	6.6	29.8	Q	Q	91.7	19.1	0.9	4.7
Mixed-dry/Hot-dry	112.1	153.2	7.2	16.9	4.0	2.0	4.5	7.6	Q	1.2
Hot-humid	140.6	90.1	3.1	12.5	4.4	1.5	9.1	5.8	Q	3.6
Marine	72.7	61.3	1.6	5.9	Q	Q	Q	Q	Q	1.0
Housing unit type										
Single-family detached	2,190.6	724.5	30.8	77.2	11.3	4.9	210.3	58.9	2.8	15.5
Single-family attached	189.0	64.8	2.7	8.9	Q	Q	Q	Q	Q	Q
Apartments in buildings with 2–4 units	139.2	90.6	1.2	10.0	N	Q	Q	Q	N	Q
Apartments in buildings with 5 or more units	106.1	122.4	1.2	14.1	N	Q	Q	Q	N	Q
Mobile homes	52.7	16.9	0.5	2.7	N	Q	15.1	8.7	Q	2.2

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Total site energy consumption (trillion Btu)										
	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	2,677.6	1,019.1	36.4	113.0	11.5	5.6	232.8	76.3	3.0	19.4
Ownership of housing unit										
Owned	2,136.6	688.1	30.1	76.3	11.3	5.2	211.1	63.5	2.6	16.5
Single-family	2,039.9	648.0	28.7	70.5	11.3	4.9	200.9	56.9	2.5	14.8
Apartments	50.7	29.0	0.9	3.6	N	Q	Q	Q	N	N
Mobile homes	46.0	11.0	0.5	2.3	N	Q	9.7	6.0	Q	1.7
Rented ⁶	541.0	331.1	6.3	36.7	Q	Q	21.7	12.8	Q	2.9
Single-family	339.7	141.2	4.7	15.7	Q	Q	11.8	3.6	Q	1.1
Apartments	194.6	184.0	1.5	20.5	N	Q	Q	6.4	N	Q
Mobile homes	Q	Q	Q	0.5	N	N	Q	Q	Q	Q
Year of construction										
Before 1950	736.0	222.8	7.4	30.5	Q	Q	46.2	10.1	0.8	3.5
1950 to 1959	389.1	127.1	4.7	14.2	Q	Q	15.6	5.9	Q	1.7
1960 to 1969	304.1	115.6	4.1	14.6	Q	Q	22.6	7.6	Q	1.4
1970 to 1979	338.9	141.6	4.0	12.9	1.5	0.6	29.4	6.9	Q	2.5
1980 to 1989	221.2	110.8	3.6	9.9	1.5	0.5	21.0	8.2	0.2	2.6
1990 to 1999	342.8	142.0	6.5	14.2	3.4	1.6	40.0	16.2	0.5	3.3
2000 to 2009	290.1	136.5	5.1	13.8	3.5	1.8	47.1	17.0	Q	3.5
2010 to 2015	55.4	22.7	1.1	2.8	Q	Q	10.9	4.3	Q	0.8

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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	2,677.6	1,019.1	36.4	113.0	11.5	5.6	232.8	76.3	3.0	19.4
Total square footage⁷										
Fewer than 1,000	201.8	170.4	2.4	18.9	N	Q	9.9	11.0	Q	2.9
1,000 to 1,499	341.2	183.6	4.8	22.8	N	Q	23.8	9.6	Q	2.7
1,500 to 1,999	372.1	144.1	4.9	16.8	Q	0.5	33.6	7.5	Q	2.3
2,000 to 2,499	409.8	136.1	5.2	13.6	Q	1.1	49.8	12.5	Q	2.9
2,500 to 2,999	395.6	115.5	5.0	11.1	2.6	1.0	24.6	7.5	0.4	2.1
3,000 or greater	957.1	269.6	14.1	29.8	6.9	2.6	91.1	28.1	1.8	6.4
Number of household members										
1 member	577.1	126.2	3.4	16.8	Q	Q	35.5	8.6	0.3	2.7
2 members	960.4	293.3	12.5	36.7	5.2	2.6	105.3	29.5	1.1	8.2
3 members	472.1	205.9	7.2	21.6	Q	Q	40.9	13.3	Q	3.4
4 members	374.2	215.4	7.2	19.6	2.8	1.5	28.8	14.3	Q	2.8
5 members	178.9	96.3	3.9	9.6	Q	Q	15.5	7.3	Q	1.1
6 or more members	114.9	82.0	2.2	8.7	Q	Q	6.9	Q	Q	1.2
2015 annual household income										
Less than \$20,000	322.8	154.7	3.5	20.4	N	Q	24.8	11.2	Q	3.8
\$20,000 to \$39,999	580.4	208.6	5.1	21.8	Q	Q	41.8	13.6	Q	4.1
\$40,000 to \$59,999	382.7	145.0	5.6	16.3	Q	0.7	31.7	11.5	Q	2.0
\$60,000 to \$79,999	342.5	123.3	5.1	13.6	Q	Q	39.6	11.0	Q	2.1
\$80,000 to \$99,999	261.5	96.0	3.6	9.3	Q	Q	23.8	5.6	Q	1.5
\$100,000 to \$119,999	227.1	86.4	3.9	10.0	Q	0.6	19.2	6.5	Q	1.5
\$120,000 to \$139,999	179.6	60.6	3.1	5.3	Q	0.7	16.7	4.2	Q	1.4
\$140,000 or more	380.9	144.4	6.5	16.2	5.7	2.0	35.2	12.6	0.7	2.9

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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	2,677.6	1,019.1	36.4	113.0	11.5	5.6	232.8	76.3	3.0	19.4
Payment method for energy bills										
All paid by household	2,536.8	911.9	35.2	98.0	11.4	5.3	227.9	70.2	3.0	17.7
Some paid by household, some included in rent or condo fee	67.9	54.2	0.5	7.9	Q	Q	Q	Q	N	Q
All included in rent or condo fee	61.2	45.5	0.6	6.6	N	Q	Q	Q	N	Q
Some other method	11.7	7.6	Q	0.5	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 (billion cubic feet)					Propane (million gallons)				
	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	2,677.8	1,019.3	36.2	112.0	11.4	5.6	2,549.4	835.0	32.6	211.9
Census region and division										
Northeast	628.0	205.8	7.8	30.0	Q	Q	572.2	175.3	9.4	62.9
New England	106.2	41.6	1.2	4.3	N	N	239.0	79.4	4.6	34.5
Middle Atlantic	521.8	164.2	6.6	25.7	Q	Q	333.2	95.9	Q	28.4
Midwest	1,156.8	297.5	12.7	26.6	1.7	Q	887.2	206.4	10.0	32.1
East North Central	857.2	212.5	11.3	22.1	1.5	Q	509.4	Q	Q	18.1
West North Central	299.5	85.0	1.4	4.6	Q	Q	377.8	73.6	Q	14.1
South	485.7	209.2	5.2	26.7	4.5	1.7	827.8	235.3	Q	72.7
South Atlantic	248.0	102.0	2.2	12.1	Q	0.8	448.0	117.7	Q	33.8
East South Central	75.9	26.5	0.5	4.0	Q	N	166.2	37.3	Q	11.6
West South Central	161.8	80.7	2.5	10.7	Q	0.9	213.7	80.4	Q	27.2
West	407.4	306.7	10.5	28.6	4.7	2.5	262.2	218.1	Q	44.1
Mountain	240.6	115.7	2.8	7.8	Q	Q	124.3	99.8	Q	Q
Mountain North	169.7	75.2	0.9	4.0	Q	Q	Q	Q	Q	Q
Mountain South	70.9	40.5	1.9	3.8	Q	Q	Q	78.8	Q	Q
Pacific	166.9	191.0	7.7	20.8	3.1	1.9	137.9	118.3	Q	29.8
Census urban/rural classification⁴										
Urban	2,396.3	939.3	32.9	102.5	10.8	5.0	565.7	222.2	Q	62.8
Urbanized area	2,092.7	837.3	30.4	92.5	10.1	4.5	422.9	184.3	Q	49.1
Urban cluster	303.6	102.0	2.5	10.0	Q	Q	142.8	37.9	Q	13.7
Rural	281.5	80.0	3.3	9.5	Q	Q	1,983.7	612.8	27.4	149.1

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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	2,677.8	1,019.3	36.2	112.0	11.4	5.6	2,549.4	835.0	32.6	211.9
Metropolitan or micropolitan statistical area										
In metropolitan statistical area	2,340.3	918.9	33.4	100.4	11.1	5.4	1,663.6	644.0	25.8	128.4
In micropolitan statistical area	234.7	67.5	1.8	8.6	Q	Q	383.5	85.8	Q	35.3
Not in metropolitan or micropolitan statistical area	102.8	32.9	1.0	3.0	Q	Q	502.4	105.2	4.9	48.2
Climate region⁵										
Very cold/Cold	1,667.8	480.7	17.8	47.9	2.0	1.3	1,306.9	437.1	14.9	98.0
Mixed-humid	684.3	236.3	6.4	29.1	Q	Q	1,004.6	208.7	9.9	51.4
Mixed-dry/Hot-dry	117.1	154.5	7.3	17.1	4.0	2.0	49.1	83.6	Q	12.6
Hot-humid	137.8	88.1	3.0	12.2	4.2	1.5	99.1	63.7	Q	39.3
Marine	70.9	59.7	1.6	5.8	Q	Q	Q	Q	Q	10.6
Housing unit type										
Single-family detached	2,197.1	726.8	30.6	76.9	11.3	4.9	2,302.7	645.3	30.9	169.7
Single-family attached	186.3	63.9	2.6	8.7	Q	Q	Q	Q	Q	Q
Apartments in buildings with 2–4 units	136.5	89.6	1.2	9.9	N	Q	Q	Q	N	Q
Apartments in buildings with 5 or more units	105.1	121.8	1.2	13.8	N	Q	Q	Q	N	Q
Mobile homes	52.9	17.2	0.5	2.7	N	Q	165.0	95.1	Q	24.4

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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	2,677.8	1,019.3	36.2	112.0	11.4	5.6	2,549.4	835.0	32.6	211.9
Ownership of housing unit										
Owned	2,140.4	689.3	29.9	75.8	11.2	5.1	2,311.6	695.4	28.6	180.5
Single-family	2,044.8	649.8	28.5	70.1	11.2	4.9	2,200.0	623.3	27.4	161.6
Apartments	49.6	28.4	0.9	3.5	N	Q	Q	Q	N	N
Mobile homes	46.0	11.1	0.5	2.2	N	Q	106.1	65.3	Q	19.0
Rented ⁶	537.4	330.0	6.2	36.1	Q	Q	237.9	139.6	Q	31.3
Single-family	338.5	140.9	4.7	15.4	Q	Q	128.8	39.7	Q	12.5
Apartments	192.0	183.0	1.5	20.2	N	Q	Q	70.2	N	Q
Mobile homes	Q	Q	Q	0.5	N	N	Q	Q	Q	Q
Year of construction										
Before 1950	726.1	219.2	7.2	29.8	Q	Q	506.3	110.8	8.8	37.9
1950 to 1959	386.8	125.8	4.6	14.0	Q	Q	171.2	64.7	Q	18.6
1960 to 1969	301.9	114.9	4.0	14.4	Q	Q	247.3	82.7	Q	15.7
1970 to 1979	340.7	142.0	3.9	12.8	1.5	0.6	321.8	75.9	Q	26.9
1980 to 1989	222.1	111.7	3.6	9.9	1.5	0.5	230.0	89.5	2.1	28.7
1990 to 1999	347.2	143.7	6.6	14.3	3.4	1.6	437.5	177.8	5.9	36.6
2000 to 2009	296.1	138.6	5.1	13.9	3.5	1.8	516.1	186.5	Q	38.7
2010 to 2015	56.9	23.4	1.1	2.8	Q	Q	119.3	47.2	Q	8.8

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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	2,677.8	1,019.3	36.2	112.0	11.4	5.6	2,549.4	835.0	32.6	211.9
Total square footage⁷										
Fewer than 1,000	201.2	169.5	2.4	18.5	N	Q	108.5	120.4	Q	32.0
1,000 to 1,499	340.3	183.2	4.8	22.6	N	Q	260.7	105.0	Q	29.9
1,500 to 1,999	370.4	143.8	4.9	16.7	Q	0.6	368.3	82.5	Q	25.4
2,000 to 2,499	409.7	136.2	5.2	13.5	Q	1.1	544.9	137.1	Q	31.9
2,500 to 2,999	397.0	116.0	4.9	11.0	2.5	1.0	269.7	82.0	4.6	23.1
3,000 or greater	959.2	270.7	14.0	29.7	6.8	2.6	997.4	308.1	19.8	69.6
Number of household members										
1 member	578.2	126.0	3.4	16.5	Q	Q	388.4	94.5	3.4	29.6
2 members	961.8	293.7	12.4	36.4	5.1	2.6	1,153.0	322.5	11.6	89.5
3 members	471.5	206.2	7.1	21.5	Q	Q	448.0	145.1	Q	37.3
4 members	371.9	213.8	7.1	19.4	2.7	1.5	315.5	156.6	Q	30.2
5 members	178.3	96.4	3.9	9.6	Q	Q	169.3	80.3	Q	11.7
6 or more members	116.2	83.1	2.3	8.6	Q	Q	75.2	Q	Q	13.6
2015 annual household income										
Less than \$20,000	319.3	153.5	3.5	20.0	N	Q	271.6	122.4	Q	41.8
\$20,000 to \$39,999	579.4	208.1	5.1	21.6	Q	Q	457.9	149.3	Q	45.4
\$40,000 to \$59,999	381.9	144.6	5.5	16.1	Q	0.7	346.8	126.4	Q	22.3
\$60,000 to \$79,999	345.5	124.6	5.2	13.6	Q	Q	434.1	120.3	Q	23.3
\$80,000 to \$99,999	263.5	97.2	3.6	9.4	Q	Q	260.5	61.4	Q	15.9
\$100,000 to \$119,999	228.5	87.0	3.9	10.0	Q	0.6	210.7	71.6	Q	16.0
\$120,000 to \$139,999	179.8	60.7	3.0	5.3	Q	0.7	182.4	46.1	Q	15.1
\$140,000 or more	380.0	143.6	6.4	15.9	5.7	2.0	385.5	137.6	7.3	32.0

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	Natural gas (billion cubic feet)						Propane (million gallons)			
	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	2,677.8	1,019.3	36.2	112.0	11.4	5.6	2,549.4	835.0	32.6	211.9
Payment method for energy bills										
All paid by household	2,538.5	913.5	35.0	97.3	11.4	5.2	2,494.8	768.6	32.6	193.7
Some paid by household, some included in rent or condo fee	66.9	53.4	0.5	7.7	Q	Q	Q	Q	N	Q
All included in rent or condo fee	60.8	44.9	0.6	6.5	N	Q	Q	Q	N	Q
Some other method	11.6	7.5	Q	0.5	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.