

Data release date: June 2023

Revised data release date: March 2024

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million)		Average site energy consumption ^a (million Btu per household using the fuel and end use)																	
	Total U.S. ^b	Total	Electricity					Natural gas					Propane			Fuel oil or kerosene				
			Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	76.8	36.1	8.5	9.2	7.9	2.9	17.4	56.6	44.9	18.2	5.3	35.4	35.7	16.7	7.4	69.7	58.5	20.0	37.3
Census region and division																				
Northeast	21.92	89.2	27.3	7.3	8.3	4.8	2.5	14.8	64.9	52.4	19.9	5.9	31.7	38.7	17.9	7.7	74.5	61.2	20.0	38.8
New England	5.88	89.9	24.9	6.0	7.2	3.9	2.4	14.5	60.7	49.9	19.6	4.2	31.7	35.6	17.3	9.9	82.7	67.7	20.5	39.1
Middle Atlantic	16.04	89.0	28.2	7.8	8.6	5.1	2.6	14.9	66.0	53.0	20.0	6.2	31.7	40.3	18.4	6.5	67.5	55.4	19.5	38.5
Midwest	27.04	96.9	33.3	10.6	9.4	5.2	2.9	17.7	76.1	62.9	17.0	4.1	62.8	56.8	17.2	7.7	62.1	59.8	Q	Q
East North Central	18.55	98.3	31.9	10.0	9.1	4.9	2.8	17.3	78.0	65.1	16.9	4.1	66.6	59.8	16.9	7.9	59.8	56.9	Q	Q
West North Central	8.50	93.7	36.5	11.8	9.8	5.9	3.0	18.5	71.5	57.6	17.4	3.8	57.1	52.2	17.7	7.3	77.3	76.9	Q	N
South	46.84	66.5	45.6	8.9	9.5	11.3	3.0	19.6	43.4	33.7	16.6	5.7	20.9	17.6	15.5	7.0	43.7	39.3	21.7	32.6
South Atlantic	24.84	63.8	44.7	8.2	9.4	10.6	3.0	19.2	45.1	37.4	16.9	5.6	19.5	17.2	15.2	6.9	46.7	42.2	21.4	Q
East South Central	7.38	70.9	47.4	11.9	10.1	9.6	3.0	19.9	48.1	38.8	17.2	6.4	21.9	17.5	16.3	8.9	29.1	20.0	N	Q
West South Central	14.62	69.0	46.4	8.5	9.4	13.2	3.0	20.3	39.5	27.4	16.1	5.7	23.1	19.0	15.6	6.1	Q	N	Q	N
West	27.72	64.6	29.4	6.3	8.8	7.0	2.9	15.5	44.6	29.7	19.3	5.6	32.3	30.1	16.6	7.4	60.3	57.2	23.0	Q
Mountain	9.22	78.9	35.8	6.1	8.7	10.0	3.0	18.3	56.6	40.7	18.8	6.8	42.9	42.0	17.1	5.5	Q	Q	Q	Q
Mountain North	4.62	89.5	30.5	8.0	9.8	4.8	2.9	17.7	69.4	51.8	20.3	6.1	56.4	54.5	17.4	Q	Q	Q	Q	Q
Mountain South	4.60	68.3	41.2	4.6	8.0	14.6	3.1	18.9	40.1	24.7	16.7	7.4	30.7	25.6	17.0	5.8	Q	Q	Q	N
Pacific	18.51	57.4	26.2	6.4	8.8	5.2	2.8	14.2	39.0	23.6	19.6	5.2	26.4	21.8	16.2	8.3	68.7	66.2	24.7	Q
Census urban/rural classification^e																				
Urban	100.44	74.8	33.6	7.0	8.6	7.9	2.8	16.6	56.2	44.2	18.2	5.1	23.6	23.3	16.6	8.4	65.6	54.1	19.7	41.1
Urbanized area	89.24	74.5	33.2	6.4	8.5	8.0	2.8	16.6	55.7	43.6	18.2	5.2	24.4	24.6	16.9	9.4	65.4	53.1	20.0	42.1
Urban cluster	11.20	76.9	36.0	10.8	9.3	7.0	2.7	16.7	60.2	49.1	17.7	4.1	21.1	20.1	15.6	5.3	67.1	61.2	16.7	Q
Rural	23.09	85.4	46.9	14.1	11.0	7.9	3.2	21.0	61.4	51.7	17.9	7.4	40.5	39.6	16.7	7.0	76.6	65.8	20.6	33.1
Climate region^f																				
Very cold and Cold	42.50	95.2	30.9	9.8	9.1	4.5	2.7	16.9	75.0	60.8	18.3	4.8	48.2	50.9	17.2	7.1	78.1	66.2	19.7	37.2
Mixed-humid	36.79	76.9	39.4	10.2	10.0	7.8	2.8	17.9	55.2	44.0	18.5	5.5	27.0	23.6	17.8	7.5	54.9	43.7	20.3	37.6
Mixed-dry and Hot-dry	15.06	58.9	29.6	3.2	7.0	9.2	3.0	15.4	34.8	19.0	17.6	6.0	30.0	25.3	16.3	8.1	Q	Q	Q	N
Hot-humid	22.31	58.6	47.0	6.5	8.7	14.2	3.1	19.8	30.5	20.8	15.3	6.0	16.9	12.5	13.9	7.1	Q	N	Q	N
Marine	6.87	60.2	28.7	9.2	10.5	3.1	2.6	14.6	46.2	30.2	22.3	4.5	25.0	18.7	15.1	10.8	Q	Q	Q	N
Housing unit type																				
Single-family detached	77.07	94.6	42.3	10.2	10.3	9.5	3.3	21.3	67.4	51.7	18.9	6.0	38.9	38.3	17.0	7.8	79.8	68.2	20.4	36.5
Single-family attached	7.45	67.1	28.8	7.5	7.8	6.1	2.6	13.9	51.3	38.9	18.0	3.5	27.9	22.8	18.2	10.6	55.9	50.0	19.0	Q
Apartments in buildings with 2–4 units	9.34	53.5	22.7	5.9	7.8	4.9	1.9	10.0	45.6	34.7	18.3	5.8	12.4	8.5	16.3	3.8	47.1	27.3	21.2	Q
Apartments in buildings with 5 or more units	22.84	33.7	20.8	4.2	6.6	4.0	1.9	9.0	22.8	15.5	14.8	3.2	11.4	9.2	13.5	6.5	30.8	15.1	17.6	34.0

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Average site energy consumption ^a (million Btu per household using the fuel and end use)																			
	Electricity								Natural gas				Propane				Fuel oil or kerosene			
	Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	76.8	36.1	8.5	9.2	7.9	2.9	17.4	56.6	44.9	18.2	5.3	35.4	35.7	16.7	7.4	69.7	58.5	20.0	37.3
Mobile homes	6.83	61.3	42.5	11.3	11.5	8.2	2.5	16.1	37.3	34.6	16.1	2.9	25.9	26.8	15.0	5.3	42.4	39.4	Q	Q
Ownership of housing unit																				
Owned	82.92	90.5	40.8	10.0	9.9	8.9	3.3	20.3	65.4	50.4	18.6	5.8	37.1	36.5	16.6	7.6	77.0	65.1	20.5	38.3
Single-family	73.22	94.9	41.8	10.1	10.0	9.2	3.4	21.3	67.9	51.8	18.8	6.0	38.7	37.8	16.8	7.9	80.9	68.7	20.4	36.5
Apartments	4.32	50.6	21.6	5.3	6.2	4.9	2.3	9.7	40.1	31.6	16.0	4.7	Q	Q	Q	Q	41.2	20.9	22.8	Q
Mobile homes	5.38	61.8	42.4	11.4	11.3	8.2	2.6	16.1	37.9	33.2	16.4	3.2	26.1	26.6	15.1	5.4	43.6	39.4	Q	Q
Rented ^e	40.61	48.8	26.4	6.0	8.1	5.6	2.0	11.5	36.2	28.7	17.1	4.1	24.7	28.9	17.1	6.0	44.9	34.5	18.3	34.2
Single-family	11.30	74.6	36.9	9.3	10.4	8.9	2.5	16.8	52.2	41.0	19.5	4.5	38.1	40.2	20.5	6.3	61.2	55.9	19.7	Q
Apartments	27.86	37.7	21.3	4.6	7.0	4.2	1.8	9.2	28.5	20.7	16.1	4.0	11.8	8.7	14.6	5.9	35.2	19.6	17.8	35.0
Mobile homes	1.45	59.5	43.0	10.8	11.9	8.3	2.1	16.0	35.3	40.7	14.5	2.0	25.1	27.5	Q	4.8	39.3	39.1	Q	Q
Year of construction																				
Before 1950	20.26	90.6	30.2	8.2	8.5	6.7	2.6	15.2	67.0	57.4	17.7	4.8	43.7	50.8	15.3	6.0	68.1	58.0	18.1	41.7
1950 to 1959	12.48	84.8	31.8	7.4	8.9	7.7	2.7	15.8	60.2	48.8	17.2	4.2	40.2	46.7	13.9	6.2	75.1	65.4	19.1	38.7
1960 to 1969	12.76	76.8	32.6	7.6	8.6	7.5	2.8	16.2	55.9	44.6	17.1	4.5	34.0	35.8	15.4	8.5	66.1	53.5	19.1	39.2
1970 to 1979	18.34	71.2	36.7	10.4	8.8	8.1	2.7	16.5	53.1	42.6	18.1	4.6	39.7	45.5	15.8	5.5	67.4	59.2	19.0	25.4
1980 to 1989	16.30	66.6	37.4	9.4	8.8	8.3	2.8	16.8	48.3	37.8	17.5	5.6	32.7	32.1	16.5	8.6	74.4	59.5	22.0	38.5
1990 to 1999	17.16	77.8	40.5	8.4	10.4	8.5	3.2	20.0	58.2	42.4	19.4	6.6	35.6	32.7	18.2	7.7	59.0	44.3	22.9	32.2
2000 to 2009	16.16	76.5	41.4	8.0	10.0	8.9	3.2	20.7	54.1	38.5	20.5	6.9	29.4	23.4	18.6	8.5	84.7	70.2	27.5	35.2
2010 to 2015	5.53	65.1	39.5	7.5	10.0	7.5	3.0	19.3	42.4	31.6	17.9	6.0	27.5	22.2	16.9	7.2	39.4	19.9	Q	Q
2016 to 2020	4.56	62.3	36.1	6.3	9.1	6.9	2.7	17.8	43.9	31.8	17.0	7.1	26.1	19.9	14.9	7.8	Q	Q	Q	N
Total square footage^h																				
Less than 1,000	30.01	42.1	23.2	5.2	7.3	4.6	2.0	10.3	30.7	23.0	15.8	3.7	18.8	19.7	14.6	5.2	37.3	23.1	18.3	45.9
1,000 to 1,499	28.08	61.7	32.1	7.6	9.1	7.0	2.5	14.4	46.3	35.8	17.4	4.0	29.0	28.9	15.8	6.4	51.6	43.3	20.2	33.8
1,500 to 1,999	22.22	80.0	37.6	9.1	9.8	8.6	3.0	18.0	57.7	45.0	18.2	4.0	30.1	28.8	16.0	6.7	67.5	55.0	20.0	36.1
2,000 to 2,499	15.62	91.5	41.5	10.2	10.4	9.3	3.2	20.6	64.8	50.2	18.0	4.9	38.6	40.0	16.7	6.2	74.1	62.7	19.4	35.9
2,500 to 2,999	10.31	104.0	44.5	11.3	10.9	9.8	3.6	22.9	73.0	55.7	19.3	6.3	44.2	42.7	17.5	6.7	77.2	68.4	18.9	30.9
3,000 or more	17.29	127.4	52.8	14.1	11.6	11.3	4.1	27.9	89.3	68.1	21.5	10.1	46.8	46.3	18.0	10.5	104.7	92.7	22.2	37.1
Number of household members																				
1 member	33.59	54.9	24.5	7.2	4.9	5.6	2.3	11.1	44.2	38.7	12.7	3.6	31.7	33.8	11.4	5.7	58.9	49.7	13.3	34.6
2 members	45.31	78.4	36.3	8.9	8.4	7.8	3.0	17.7	58.5	47.1	16.8	5.5	35.6	35.0	15.9	7.5	72.9	62.9	18.6	36.4
3 members	18.27	86.6	41.4	8.8	11.9	9.0	3.0	20.4	61.2	45.7	20.6	6.6	38.0	37.8	20.0	8.8	71.4	59.3	23.2	36.4
4 members	15.56	92.8	44.6	8.8	14.7	9.7	3.2	21.9	64.3	47.2	23.5	5.9	37.9	39.2	23.0	8.1	73.1	59.0	27.2	41.1
5 members	6.44	94.9	48.9	9.4	15.5	10.8	3.3	24.1	62.8	46.2	24.8	5.2	34.0	36.6	22.6	6.4	81.3	66.5	29.8	35.1
6 or more members	4.37	102.2	50.3	10.1	18.1	10.8	3.4	24.9	67.8	50.9	27.1	7.0	42.1	40.2	23.4	9.5	81.5	61.2	29.7	Q
2020 annual household income																				

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million)	Average site energy consumption ^a (million Btu per household using the fuel and end use)																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	76.8	36.1	8.5	9.2	7.9	2.9	17.4	56.6	44.9	18.2	5.3	35.4	35.7	16.7	7.4	69.7	58.5	20.0	37.3
Less than \$5,000	4.48	56.5	30.6	8.5	9.4	6.5	2.1	13.2	42.1	35.9	18.0	4.2	29.1	35.4	14.9	7.0	56.9	57.3	Q	Q
\$5,000 to \$9,999	4.01	51.9	27.5	6.8	8.8	6.0	2.1	11.7	39.5	36.4	15.9	3.0	20.4	20.5	13.1	7.0	53.8	41.1	Q	Q
\$10,000 to \$19,999	10.25	57.4	28.7	8.1	7.4	6.2	2.3	12.4	44.5	37.4	16.5	3.4	28.5	32.9	13.8	4.1	48.0	43.0	16.3	Q
\$20,000 to \$39,999	24.07	65.1	32.2	8.2	8.9	7.0	2.5	14.5	49.5	40.7	16.6	3.9	32.6	34.6	15.1	4.9	60.2	52.0	17.3	36.3
\$40,000 to \$59,999	19.61	70.0	34.0	8.1	9.2	7.5	2.7	15.7	52.8	42.5	16.7	4.1	33.9	36.2	15.5	6.1	60.2	50.1	19.4	35.6
\$60,000 to \$99,999	27.71	78.6	36.7	8.5	9.5	7.9	3.0	17.9	57.5	44.6	18.1	4.9	36.5	34.7	17.6	7.1	77.6	65.1	18.9	36.3
\$100,000 to \$149,999	16.54	88.4	40.3	9.3	10.0	8.7	3.3	20.5	60.8	46.7	19.0	5.3	40.7	39.5	18.8	6.7	69.1	53.7	22.3	46.8
\$150,000 or more	16.86	109.8	46.6	9.3	10.3	10.5	3.7	25.5	74.1	55.8	21.4	9.1	42.5	40.0	17.8	13.4	92.2	78.2	23.9	31.3
Payment method for energy bills																				
All paid by household	112.70	79.7	37.6	8.8	9.4	8.3	3.0	18.2	59.8	46.5	18.4	5.5	36.3	36.1	16.7	7.4	76.0	64.7	20.3	37.2
Some paid by household, some included in rent or condo fee	6.32	47.7	18.4	4.8	6.3	3.8	1.9	9.0	28.2	24.1	15.8	3.7	20.7	24.2	15.0	6.3	36.6	20.8	19.8	38.2
All included in rent or condo fee	4.34	42.2	21.6	5.6	7.1	4.4	2.0	9.1	32.5	27.8	15.3	4.1	15.0	19.4	17.2	6.8	25.1	16.4	13.5	Q
Some other method	0.16	87.8	22.1	4.1	Q	4.4	2.4	12.8	75.7	68.8	19.1	6.2	Q	N	Q	Q	Q	Q	Q	Q
Main heating fuel																				
Natural gas	62.71	95.6	30.8	3.2	9.0	7.6	3.0	18.6	64.6	45.8	18.2	5.4	11.6	6.4	21.3	9.4	33.8	Q	24.5	Q
Electricity	42.57	48.9	44.6	11.1	8.9	8.6	2.7	15.5	15.9	9.8	17.9	5.4	12.6	6.2	16.2	8.4	23.5	8.1	20.7	29.2
Fuel oil or kerosene	4.93	110.8	30.8	4.4	10.2	4.9	2.7	18.0	11.6	28.7	19.1	3.1	11.8	8.1	16.4	8.2	75.6	62.5	19.5	38.2
Propane	5.21	98.2	38.0	4.5	12.5	6.0	3.2	21.1	5.6	Q	Q	3.0	59.9	49.2	16.5	6.0	Q	Q	N	N
Wood	2.25	50.9	36.8	5.4	12.3	5.1	3.0	19.0	19.2	18.4	22.7	4.3	21.2	11.4	18.8	9.8	38.5	24.3	21.9	32.3
Some other fuel ^l	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	Q	N	N	Q	Q	Q	N	Q
Does not use heating equipment	5.79	39.5	32.2	N	8.6	12.1	2.6	15.0	16.5	N	16.6	4.0	11.3	N	15.3	Q	Q	N	Q	Q

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million)	Average site energy consumption ^a (million Btu per household using the fuel and end use)																			
		Electricity							Natural gas				Propane			Fuel oil or kerosene					
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	
All homes	123.53	76.8	36.1	8.5	9.2	7.9	2.9	17.4	56.6	44.9	18.2	5.3	35.4	35.7	16.7	7.4	69.7	58.5	20.0	37.3	

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 definition of terms used in these tables.

Btu = British thermal units

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b Total U.S. includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CEE tables.

^e Housing 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.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for Very-cold and Cold.

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

^h Total 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 of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See 2020 RECS Square Footage Methodology for full details about data collection and processing.

ⁱ Some other fuel includes coal and district steam.

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

Revised data release date: March 2024

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million) Average site energy consumption ^a																			
	Electricity (kWh per household using the end use)							Natural gas (ccf 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)				
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	
All homes	123.53	10,566	2,484	2,706	2,318	839	5,108	563	446	181	53	387	390	182	81	507	426	145	272	
Census region and division																				
Northeast	21.92	8,016	2,151	2,421	1,395	743	4,336	635	513	194	57	346	423	196	85	542	445	145	282	
New England	5.88	7,308	1,748	2,124	1,136	709	4,257	593	488	191	41	346	389	189	108	602	493	149	284	
Middle Atlantic	16.04	8,275	2,287	2,528	1,483	755	4,365	646	519	195	61	346	441	202	71	491	403	142	281	
Midwest	27.04	9,773	3,109	2,741	1,522	836	5,179	747	617	167	40	686	621	188	84	452	435	Q	Q	
East North Central	18.55	9,345	2,919	2,673	1,425	823	5,074	763	636	165	40	729	654	185	87	435	414	Q	Q	
West North Central	8.50	10,705	3,472	2,870	1,728	866	5,410	708	570	172	38	624	571	193	79	562	560	Q	N	
South	46.84	13,376	2,603	2,798	3,304	885	5,755	430	334	165	57	228	193	169	76	318	286	158	238	
South Atlantic	24.84	13,089	2,401	2,767	3,112	886	5,617	443	367	166	55	214	188	166	75	340	307	156	Q	
East South Central	7.38	13,882	3,477	2,958	2,812	870	5,825	474	383	170	63	239	192	178	97	212	146	N	Q	
West South Central	14.62	13,609	2,482	2,766	3,873	892	5,955	398	277	162	57	252	208	170	67	Q	N	Q	N	
West	27.72	8,608	1,840	2,575	2,059	840	4,557	462	312	197	57	354	330	181	81	439	417	168	Q	
Mountain	9.22	10,500	1,795	2,550	2,918	878	5,367	633	458	208	74	469	459	187	60	Q	Q	Q	Q	
Mountain North	4.62	8,942	2,339	2,881	1,396	857	5,192	781	584	228	68	617	596	190	Q	Q	Q	Q	Q	
Mountain South	4.60	12,064	1,356	2,340	4,276	899	5,542	442	278	181	78	335	280	186	63	Q	Q	Q	N	
Pacific	18.51	7,665	1,864	2,588	1,514	821	4,153	382	231	192	51	289	238	177	91	500	482	180	Q	
Census urban/rural classification^e																				
Urban	100.44	9,834	2,038	2,522	2,317	813	4,868	558	439	181	51	258	255	181	92	478	394	143	299	
Urbanized area	89.24	9,743	1,881	2,493	2,350	817	4,865	553	433	181	52	267	269	185	103	476	386	146	307	
Urban cluster	11.20	10,562	3,158	2,717	2,050	786	4,892	607	494	178	41	231	219	171	58	489	445	121	Q	
Rural	23.09	13,749	4,129	3,227	2,323	951	6,153	615	518	179	73	443	433	183	76	558	479	150	241	
Climate region^f																				
Very cold and Cold	42.50	9,043	2,876	2,669	1,310	805	4,952	750	607	184	48	528	556	188	77	568	482	143	271	
Mixed-humid	36.79	11,556	2,975	2,927	2,293	834	5,256	543	433	181	54	295	258	195	82	400	318	148	274	
Mixed-dry and Hot-dry	15.06	8,665	951	2,065	2,691	868	4,519	354	196	177	60	328	277	179	89	Q	Q	Q	N	
Hot-humid	22.31	13,781	1,914	2,559	4,173	912	5,813	302	206	151	60	185	136	152	77	Q	N	Q	N	
Marine	6.87	8,410	2,696	3,073	902	773	4,289	444	289	215	44	273	205	165	118	Q	Q	Q	N	
Housing unit type																				
Single-family detached	77.07	12,402	2,994	3,014	2,775	976	6,243	671	515	189	60	425	418	186	85	581	496	148	266	
Single-family attached	7.45	8,443	2,195	2,296	1,799	754	4,074	507	385	178	35	305	249	199	115	407	364	138	Q	

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million) Average site energy consumption ^a																		
	Electricity (kWh per household using the end use)							Natural gas (ccf 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)			
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	10,566	2,484	2,706	2,318	839	5,108	563	446	181	53	387	390	182	81	507	426	145	272
Apartments in buildings with 2–4 units	9.34	6,665	1,729	2,298	1,448	570	2,924	449	342	180	57	135	93	178	42	343	199	154	Q
Apartments in buildings with 5 or more units	22.84	6,093	1,240	1,949	1,175	542	2,628	226	153	147	31	125	101	148	71	224	110	128	247
Mobile homes	6.83	12,456	3,308	3,356	2,402	734	4,709	380	352	164	30	284	293	164	58	309	286	Q	Q
Ownership of housing unit																			
Owned	82.92	11,949	2,923	2,915	2,616	958	5,954	650	501	185	57	406	399	182	83	560	474	149	278
Single-family	73.22	12,246	2,958	2,933	2,702	989	6,228	676	516	187	59	423	414	184	87	589	500	148	266
Apartments	4.32	6,345	1,556	1,820	1,425	665	2,838	393	311	158	45	Q	Q	Q	Q	300	152	166	Q
Mobile homes	5.38	12,414	3,345	3,318	2,395	769	4,718	385	338	167	32	285	291	165	59	317	287	Q	Q
Rented ^e	40.61	7,741	1,767	2,378	1,655	595	3,382	359	284	170	41	270	316	187	65	327	251	133	249
Single-family	11.30	10,802	2,721	3,039	2,615	746	4,910	520	408	194	45	417	440	224	69	446	407	143	Q
Apartments	27.86	6,246	1,346	2,060	1,221	533	2,695	282	205	159	39	129	95	160	65	256	143	129	255
Mobile homes	1.45	12,610	3,176	3,485	2,427	604	4,677	361	416	149	20	274	301	Q	52	286	285	Q	Q
Year of construction																			
Before 1950	20.26	8,843	2,400	2,485	1,968	760	4,443	659	565	174	47	478	555	168	66	496	422	132	303
1950 to 1959	12.48	9,327	2,167	2,617	2,254	795	4,625	596	483	170	41	439	511	152	68	546	476	139	282
1960 to 1969	12.76	9,546	2,215	2,531	2,211	813	4,744	552	441	169	45	372	391	169	93	481	390	139	286
1970 to 1979	18.34	10,756	3,053	2,584	2,369	798	4,832	530	426	180	45	434	497	173	60	490	431	138	185
1980 to 1989	16.30	10,957	2,749	2,581	2,437	820	4,923	483	378	175	55	357	351	180	94	542	433	160	280
1990 to 1999	17.16	11,884	2,465	3,042	2,484	943	5,871	583	425	194	65	389	357	199	85	429	323	167	234
2000 to 2009	16.16	12,133	2,335	2,919	2,619	948	6,074	543	387	206	69	321	256	204	93	617	511	200	256
2010 to 2015	5.53	11,567	2,195	2,935	2,213	887	5,662	427	318	180	61	300	243	184	79	286	145	Q	Q
2016 to 2020	4.56	10,568	1,856	2,665	2,027	780	5,216	441	320	171	71	285	218	163	85	Q	Q	Q	N
Total square footage^h																			
Less than 1,000	30.01	6,802	1,515	2,130	1,340	577	3,022	304	228	156	36	205	216	160	57	272	168	133	334
1,000 to 1,499	28.08	9,407	2,225	2,677	2,042	730	4,217	460	355	173	40	318	316	173	70	376	315	147	246
1,500 to 1,999	22.22	11,009	2,658	2,871	2,530	885	5,264	574	448	181	40	329	315	175	73	492	400	146	263
2,000 to 2,499	15.62	12,173	2,978	3,034	2,716	936	6,035	644	499	179	48	423	437	183	67	539	456	142	261
2,500 to 2,999	10.31	13,031	3,312	3,195	2,867	1,047	6,706	726	554	192	63	483	467	191	74	562	498	137	225
3,000 or more	17.29	15,489	4,124	3,409	3,322	1,196	8,187	890	678	215	101	511	507	196	115	762	675	161	270
Number of household members																			
1 member	33.59	7,184	2,109	1,427	1,650	668	3,256	440	385	127	35	347	370	124	62	429	362	97	252

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million)	Average site energy consumption ^a																	
		Electricity (kWh per household using the end use)						Natural gas (ccf 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)			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	123.53	10,566	2,484	2,706	2,318	839	5,108	563	446	181	53	387	390	182	81	507	426	145	272
2 members	45.31	10,648	2,610	2,470	2,287	878	5,196	582	469	168	54	390	383	174	82	531	458	135	265
3 members	18.27	12,120	2,589	3,482	2,627	888	5,971	607	453	204	66	415	413	219	97	519	432	169	265
4 members	15.56	13,072	2,581	4,313	2,846	935	6,409	639	469	234	58	415	429	252	89	532	430	198	299
5 members	6.44	14,336	2,744	4,552	3,166	974	7,071	625	460	246	52	372	400	247	70	591	484	217	256
6 or more members	4.37	14,730	2,965	5,314	3,158	996	7,305	677	507	271	71	460	439	256	104	594	445	216	Q
2020 annual household income																			
Less than \$5,000	4.48	8,958	2,502	2,751	1,902	610	3,876	417	355	179	42	318	387	163	77	415	417	Q	Q
\$5,000 to \$9,999	4.01	8,060	1,993	2,572	1,750	616	3,443	391	360	158	29	223	224	144	76	392	299	Q	Q
\$10,000 to \$19,999	10.25	8,402	2,386	2,176	1,812	661	3,638	441	372	164	34	312	360	151	45	350	313	119	Q
\$20,000 to \$39,999	24.07	9,451	2,404	2,615	2,050	740	4,237	494	405	166	38	356	378	165	53	438	378	126	264
\$40,000 to \$59,999	19.61	9,964	2,385	2,689	2,209	796	4,601	526	423	167	41	371	395	169	67	438	365	141	259
\$60,000 to \$99,999	27.71	10,751	2,485	2,794	2,303	872	5,237	572	444	180	48	399	379	193	78	565	474	137	264
\$100,000 to \$149,999	16.54	11,821	2,717	2,931	2,556	957	6,004	606	465	189	53	445	432	206	73	503	391	163	340
\$150,000 or more	16.86	13,660	2,738	3,026	3,073	1,079	7,469	734	553	212	90	465	437	195	147	671	569	174	228
Payment method for energy bills																			
All paid by household	112.70	11,025	2,577	2,766	2,419	865	5,342	595	463	183	54	397	395	183	81	554	471	148	271
Some paid by household, some included in rent or condo fee	6.32	5,400	1,405	1,834	1,125	557	2,652	278	238	156	36	226	264	164	68	266	152	144	278
All included in rent or condo fee	4.34	6,326	1,630	2,075	1,283	576	2,675	322	275	152	41	164	212	188	74	183	119	98	Q
Some other method	0.16	6,489	1,193	Q	1,296	701	3,739	745	676	188	62	Q	N	Q	Q	Q	Q	Q	Q
Main heating fuel																			
Natural gas	62.71	9,035	936	2,642	2,215	881	5,441	643	455	181	54	127	70	233	103	246	Q	178	Q
Electricity	42.57	13,073	3,248	2,611	2,534	780	4,543	157	97	178	54	137	68	177	92	171	59	150	212
Fuel oil or kerosene	4.93	9,025	1,292	2,999	1,438	787	5,266	113	280	185	31	129	89	179	90	551	455	142	278
Propane	5.21	11,142	1,319	3,675	1,750	933	6,194	55	Q	Q	29	656	538	181	65	Q	Q	N	N
Wood	2.25	10,787	1,568	3,615	1,480	890	5,558	194	191	228	42	231	124	205	107	281	177	159	235
Some other fuel ^l	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	Q	N	N	Q	Q	Q	N	Q
Does not use heating equipment	5.79	9,430	N	2,521	3,560	754	4,383	163	N	164	40	124	N	167	Q	Q	N	Q	Q

Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	Number of housing units (million)	Average site energy consumption ^a																	
		Electricity (kWh per household using the end use)						Natural gas (ccf 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)				
		Total U.S. ^b	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	10,566	2,484	2,706	2,318	839	5,108	563	446	181	53	387	390	182	81	507	426	145	272

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 definition of terms used in these tables.

kWh = kilowatthours

ccf = hundred cubic feet

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b Total U.S. includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

^e Housing 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.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

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

^h Total 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 of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See 2020 RECS Square Footage Methodology for full details about data collection and processing.

ⁱ Some other fuel includes coal and district steam.

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
 Revised data release date: March 2024

Relative standard errors (RSEs) for Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	RSEs for number of housing units																			
	RSEs for average site energy consumption ^a																			
	Total U.S. ^b	Electricity							Natural gas				Propane			Fuel oil or kerosene				
Total		Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	
All homes	0.00	0.40	0.38	1.36	0.94	0.67	0.33	0.51	0.70	0.83	0.58	3.19	2.91	3.09	1.73	6.15	2.14	2.48	1.58	5.32
Census region and division																				
Northeast	0.00	0.78	1.14	5.27	2.24	1.47	0.80	1.37	1.39	1.63	1.35	8.72	6.66	6.45	3.05	8.74	2.25	2.55	1.69	6.11
New England	0.00	1.34	1.39	6.02	3.59	2.53	1.27	1.70	2.55	2.43	2.98	9.36	7.09	6.99	4.26	12.99	2.09	2.82	2.10	9.42
Middle Atlantic	0.00	1.07	1.49	6.57	3.09	1.80	1.01	1.83	1.67	2.03	1.64	9.82	8.93	8.55	4.47	11.56	4.08	4.70	2.86	9.74
Midwest	0.00	0.90	1.02	3.91	2.59	1.42	0.84	1.14	1.13	1.18	1.21	5.22	3.62	3.80	2.79	12.73	11.23	11.62	29.84	18.91
East North Central	0.00	1.13	1.34	5.70	3.40	1.67	1.00	1.59	1.53	1.56	1.54	6.10	5.31	5.51	3.62	16.26	13.17	13.87	30.29	18.91
West North Central	0.00	1.29	1.33	4.73	3.26	2.02	1.28	1.60	1.73	1.87	1.44	10.01	4.87	5.25	3.90	17.80	13.91	13.95	0.00	0.00
South	0.00	0.65	0.67	1.53	1.37	1.08	0.66	0.87	1.68	1.77	1.17	7.95	4.92	6.56	4.03	8.39	7.54	8.22	5.55	7.50
South Atlantic	0.00	1.02	0.96	2.20	1.67	1.61	0.93	1.26	2.41	2.37	2.15	9.72	7.63	9.52	6.29	11.55	8.46	8.68	7.35	12.93
East South Central	0.00	1.54	1.39	3.13	2.25	2.02	1.72	2.06	3.59	3.88	2.95	17.50	8.74	9.93	7.56	20.37	24.26	29.31	0.00	1.34
West South Central	0.00	1.22	1.21	3.42	2.41	1.67	1.45	1.63	2.36	2.78	1.70	12.44	9.20	10.82	5.70	16.66	14.83	0.00	14.83	0.00
West	0.00	0.74	0.80	2.84	1.87	1.31	0.76	0.98	1.09	1.45	1.08	5.92	7.05	9.35	3.65	23.63	9.90	11.77	9.35	3.95
Mountain	0.00	1.03	1.42	4.74	2.89	1.93	1.12	1.64	1.57	1.97	1.52	10.84	9.30	11.35	5.18	23.49	27.36	82.95	31.49	0.00
Mountain North	0.00	1.40	1.76	5.32	4.40	2.93	1.74	1.86	1.73	1.94	1.99	16.45	12.68	13.92	6.23	53.97	45.03	47.79	25.54	0.00
Mountain South	0.00	1.70	1.94	6.19	4.16	2.21	1.45	2.54	3.03	3.87	2.76	14.13	13.90	19.64	8.01	24.05	0.00	0.00	0.00	0.00
Pacific	0.00	1.09	1.16	3.87	2.57	2.29	1.13	1.34	1.70	2.26	1.39	6.94	10.61	13.12	4.83	29.86	9.86	9.73	7.75	2.04
Census urban/rural classification^e																				
Urban	0.28	0.48	0.44	1.81	1.10	0.76	0.40	0.59	0.68	0.86	0.58	3.21	6.40	8.22	3.31	9.99	2.60	3.00	2.20	8.77
Urbanized area	0.42	0.49	0.51	1.92	1.32	0.84	0.44	0.64	0.74	0.95	0.62	3.30	7.22	9.14	3.96	10.39	2.76	3.22	2.37	9.08
Urban cluster	2.74	1.53	1.51	4.63	2.21	2.47	1.26	1.36	2.38	2.54	2.13	9.92	10.06	13.16	8.17	23.48	8.36	7.55	7.58	19.36
Rural	1.23	0.94	0.89	2.40	1.63	1.36	0.98	1.22	3.07	2.33	1.98	16.39	2.86	3.19	2.05	7.36	3.50	4.03	2.95	5.32
Climate region^f																				
Very cold and Cold	0.54	0.62	0.81	3.03	1.69	1.03	0.66	0.90	0.99	1.02	0.77	6.44	3.35	3.32	2.19	8.32	2.04	2.41	1.91	6.14
Mixed-humid	0.77	0.78	0.73	1.78	1.48	1.04	0.78	1.00	1.34	1.51	1.45	6.20	5.49	6.99	3.09	8.37	4.72	5.35	3.69	14.09
Mixed-dry and Hot-dry	1.23	1.24	1.10	6.70	3.38	1.67	1.22	1.37	1.85	2.75	1.72	7.45	12.07	17.28	5.27	33.20	0.00	0.00	0.00	0.00
Hot-humid	0.69	1.07	1.16	2.82	1.85	1.55	1.05	1.65	2.79	3.28	1.72	13.04	7.79	11.33	5.20	15.71	14.83	0.00	14.83	0.00
Marine	2.39	2.16	2.27	5.97	3.79	4.69	1.79	2.46	3.06	3.28	2.87	8.91	17.64	17.46	8.64	44.75	19.79	22.02	0.00	0.00
Housing unit type																				
Single-family detached	0.00	0.45	0.39	1.51	1.11	0.76	0.47	0.52	0.73	0.88	0.68	3.98	3.05	3.32	1.81	6.76	1.95	2.24	1.62	6.31
Single-family attached	0.00	1.67	1.54	4.78	3.32	2.74	1.42	1.58	1.96	2.39	2.15	6.19	16.43	21.85	9.37	33.42	9.85	9.47	15.66	19.64
Apartments in buildings with 2–4 units	0.00	2.20	2.13	5.91	3.68	3.82	1.76	2.37	3.24	3.48	2.25	16.23	15.77	34.23	6.17	47.04	13.07	12.16	8.82	32.23
Apartments in buildings with 5 or more units	0.00	1.22	1.60	4.23	2.64	2.02	0.98	1.74	2.30	3.10	1.80	6.06	13.36	11.73	8.71	28.38	7.75	3.87	6.35	10.72

Relative standard errors (RSEs) for Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

RSEs for number of housing units	RSEs for average site energy consumption ^a																			
	Electricity							Natural gas				Propane				Fuel oil or kerosene				
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	
All homes	0.00	0.40	0.38	1.36	0.94	0.67	0.33	0.51	0.70	0.83	0.58	3.19	2.91	3.09	1.73	6.15	2.14	2.48	1.58	5.32
Mobile homes	0.00	1.58	1.95	4.51	2.94	2.65	1.98	2.68	5.37	4.29	4.73	14.41	6.62	7.94	5.43	14.01	7.56	9.17	15.80	11.86
Ownership of housing unit																				
Owned	0.42	0.49	0.45	1.53	1.07	0.85	0.49	0.56	0.78	0.93	0.61	4.10	2.88	3.17	1.74	6.51	2.05	2.31	1.56	6.20
Single-family	0.36	0.52	0.44	1.68	1.11	0.85	0.51	0.56	0.76	0.92	0.63	4.09	3.14	3.36	1.82	7.05	1.90	2.27	1.54	6.27
Apartments	4.13	4.49	3.11	12.80	5.53	5.04	2.36	3.32	5.54	5.83	3.56	31.97	34.11	27.08	7.73	43.14	22.14	10.64	10.29	33.68
Mobile homes	2.05	1.71	2.19	4.79	3.54	3.53	1.97	3.05	6.24	4.76	5.01	16.22	7.32	8.59	4.74	15.19	9.08	11.23	9.68	14.81
Rented ^e	0.86	0.98	0.95	2.56	1.82	1.50	0.80	1.10	1.82	2.22	1.35	6.04	8.35	9.93	4.70	14.42	5.37	7.12	5.25	9.61
Single-family	2.35	1.37	1.52	5.17	2.97	2.48	1.60	1.61	2.39	2.61	2.11	11.70	8.93	10.80	5.09	21.24	9.17	9.31	12.25	23.46
Apartments	0.64	1.16	1.44	3.39	2.36	1.85	0.92	1.61	2.34	2.72	1.49	7.53	11.08	13.87	6.01	26.04	6.08	7.54	5.54	10.93
Mobile homes	7.62	4.35	4.27	8.02	6.14	6.02	3.76	5.65	13.46	12.86	10.40	15.07	19.29	19.39	45.90	34.62	15.17	17.37	0.00	0.00
Year of construction																				
Before 1950	0.00	1.35	1.24	4.20	2.54	1.94	1.08	1.49	1.99	2.22	1.73	9.89	7.65	6.73	4.22	14.67	4.69	5.61	4.11	13.48
1950 to 1959	0.00	1.48	1.79	5.21	4.21	2.30	1.30	1.98	2.02	2.30	1.90	8.37	11.42	11.51	5.89	20.09	4.32	4.73	3.87	12.80
1960 to 1969	0.00	1.56	1.63	4.71	3.09	3.14	1.55	1.87	2.26	2.70	1.45	7.55	9.52	10.71	6.07	23.99	6.18	6.34	4.76	24.74
1970 to 1979	0.00	1.34	1.27	3.62	2.23	2.09	1.14	1.49	1.86	2.07	1.89	8.02	6.89	7.14	3.63	12.48	6.02	6.62	5.93	14.75
1980 to 1989	0.00	1.34	1.35	3.61	2.31	2.01	1.34	1.58	2.20	2.51	1.57	8.60	7.03	6.70	5.18	27.93	6.71	7.17	6.22	12.22
1990 to 1999	0.00	1.32	1.26	3.71	2.44	2.26	1.13	1.58	2.00	2.49	1.64	8.79	6.43	6.98	2.81	11.60	9.31	9.99	4.13	13.52
2000 to 2009	0.00	1.40	1.29	2.86	1.86	2.02	1.24	1.73	2.31	2.31	1.89	11.06	6.90	9.10	4.27	13.08	10.33	11.66	3.66	18.94
2010 to 2015	2.84	2.66	2.30	5.05	3.82	3.31	1.92	3.01	4.17	4.24	3.38	17.95	7.93	11.22	6.60	20.04	40.65	46.71	24.11	22.81
2016 to 2020	3.44	2.96	2.12	5.42	3.95	4.01	1.91	3.03	4.65	4.47	3.18	18.18	9.27	11.66	7.74	17.13	46.46	10.13	0.00	0.00
Total square footage^h																				
Less than 1,000	1.20	1.03	1.28	2.90	2.31	1.82	0.94	1.56	1.94	2.56	1.38	6.52	9.92	12.07	4.31	19.95	7.47	6.52	5.98	16.37
1,000 to 1,499	1.54	0.89	1.02	2.93	1.65	1.76	1.00	1.10	1.71	2.01	1.35	8.17	5.87	6.63	5.09	14.56	5.97	6.47	5.90	16.91
1,500 to 1,999	1.59	0.78	1.10	3.07	2.08	1.84	0.99	1.09	1.62	1.83	1.73	4.57	6.07	6.71	4.15	18.47	3.87	3.81	4.07	10.91
2,000 to 2,499	2.32	0.82	1.15	3.57	2.64	2.20	0.99	1.08	1.48	1.80	1.66	7.04	6.20	6.46	4.54	12.16	3.95	3.97	4.53	12.14
2,500 to 2,999	2.55	1.08	1.32	4.11	2.97	2.33	1.23	1.37	1.75	2.21	1.98	10.92	7.40	9.30	3.50	15.09	4.61	5.45	6.60	17.06
3,000 or more	1.93	1.09	1.05	3.89	2.28	1.67	1.07	1.23	1.58	1.58	1.46	8.14	5.11	5.38	3.24	10.13	3.95	4.13	2.28	9.51
Number of household members																				
1 member	1.25	1.05	1.05	2.72	1.41	1.52	0.84	1.15	1.69	1.78	1.06	6.76	5.99	6.56	2.68	14.83	5.32	6.31	4.49	10.11
2 members	1.15	0.85	0.66	2.34	1.13	1.23	0.66	0.76	1.39	1.54	0.69	6.34	4.17	4.39	1.96	10.65	3.54	4.22	2.36	12.17
3 members	1.87	1.28	1.09	3.70	1.79	1.91	1.30	1.28	2.20	2.33	1.59	10.09	8.25	9.82	2.85	12.88	4.58	5.66	3.14	14.45
4 members	2.08	1.29	1.21	3.55	1.92	2.12	1.07	1.44	1.79	2.29	1.48	6.35	5.99	7.45	4.30	11.90	5.83	7.27	3.39	15.70
5 members	4.12	2.10	2.04	5.63	3.37	3.95	2.11	2.39	3.02	3.48	2.56	9.18	12.42	12.99	4.70	34.01	8.45	8.71	6.92	16.87
6 or more members	4.58	2.31	2.70	10.93	4.32	3.70	2.83	2.50	3.01	4.03	3.08	16.40	13.35	15.76	5.70	25.52	10.80	14.50	8.18	41.80
2020 annual household income																				

Relative standard errors (RSEs) for Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	RSEs for average site energy consumption ^a																			
	Electricity								Natural gas				Propane				Fuel oil or kerosene			
	Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	
All homes	0.00	0.40	0.38	1.36	0.94	0.67	0.33	0.51	0.70	0.83	0.58	3.19	2.91	3.09	1.73	6.15	2.14	2.48	1.58	5.32
Less than \$5,000	4.63	3.65	2.97	8.09	5.22	4.65	2.28	4.42	6.05	7.20	4.15	18.33	16.61	22.19	5.30	30.16	19.52	21.72	8.80	128.91
\$5,000 to \$9,999	5.53	3.16	3.23	7.95	6.52	5.84	3.23	3.57	7.24	8.60	3.66	13.76	15.93	19.37	12.69	32.80	12.39	17.87	23.07	14.69
\$10,000 to \$19,999	3.21	1.91	2.00	4.69	3.15	3.26	1.61	2.77	3.22	3.87	3.09	15.54	11.60	11.97	7.69	22.87	8.61	11.33	8.00	15.38
\$20,000 to \$39,999	1.98	1.30	1.18	3.18	2.01	1.93	1.01	1.49	1.80	2.31	1.49	7.98	6.91	7.52	4.77	13.57	5.36	5.77	4.79	13.67
\$40,000 to \$59,999	1.83	1.44	1.63	3.85	2.48	2.43	1.09	1.64	2.34	2.39	1.83	11.88	7.25	7.80	4.57	11.25	6.67	7.88	6.88	7.12
\$60,000 to \$99,999	1.58	0.92	0.97	2.77	1.68	1.71	0.69	1.03	1.57	1.77	1.07	8.13	5.49	5.18	3.45	12.95	3.96	4.48	3.33	11.86
\$100,000 to \$149,999	1.83	1.19	1.39	4.62	2.67	2.18	0.90	1.27	1.70	1.97	1.39	5.61	5.71	6.82	3.99	15.47	5.36	5.90	4.79	12.76
\$150,000 or more	1.93	1.28	1.10	4.21	2.49	1.86	1.12	1.41	1.77	1.84	1.36	7.31	7.27	8.31	3.81	12.18	4.33	4.56	2.73	14.96
Payment method for energy bills																				
All paid by household	0.27	0.46	0.39	1.38	0.96	0.72	0.35	0.53	0.72	0.86	0.58	3.56	2.85	2.95	1.75	6.22	1.83	2.13	1.59	6.23
Some paid by household, some included in rent or condo fee	3.90	3.02	3.04	10.03	6.59	3.88	2.01	3.70	4.64	5.35	2.09	8.08	19.83	29.62	8.99	41.47	8.38	10.86	4.99	17.13
All included in rent or condo fee	4.78	3.00	2.42	5.25	3.58	3.82	1.92	2.89	6.00	7.49	3.16	17.11	30.21	32.38	12.47	40.88	11.03	15.30	22.10	0.00
Some other method	25.04	22.86	16.54	31.74	11.35	19.16	13.32	18.91	32.84	37.98	15.39	29.00	70.19	0.00	36.06	80.54	33.50	27.80	0.00	0.00
Main heating fuel																				
Natural gas	0.77	0.54	0.55	3.66	1.82	0.94	0.53	0.65	0.70	0.85	0.58	3.65	16.59	26.08	9.44	30.00	17.63	28.50	9.19	16.79
Electricity	0.92	0.83	0.78	1.39	1.23	1.33	0.79	1.07	3.87	14.64	2.35	9.13	4.42	10.88	4.33	8.69	19.41	20.65	10.13	32.54
Fuel oil or kerosene	3.50	1.57	2.23	10.37	4.92	3.16	1.80	2.47	17.02	49.50	10.63	20.78	9.78	20.86	8.65	14.52	2.08	2.37	1.85	6.70
Propane	3.76	1.70	2.18	11.39	3.32	3.60	1.97	2.79	30.94	0.00	17.50	33.65	2.20	2.62	2.01	8.19	16.19	16.19	0.00	0.00
Wood	4.88	2.37	2.29	8.60	4.09	5.63	2.90	2.97	20.95	25.48	29.60	23.41	11.01	16.76	5.74	25.29	8.86	12.75	11.00	12.32
Some other fuel ^l	35.67	24.00	18.15	0.00	24.06	29.96	22.13	25.03	0.00	0.00	0.00	0.00	45.18	0.00	0.00	45.18	88.70	36.95	0.00	0.00
Does not use heating equipment	4.41	2.37	2.82	0.00	3.60	4.44	1.99	3.10	4.61	0.00	4.91	15.08	26.82	0.00	12.30	54.11	10.12	0.00	9.27	0.00

Relative standard errors (RSEs) for Table CE4.6 Annual household site end-use consumption by fuel in the United States—averages, 2020

	RSEs for number of housing units	RSEs for average site energy consumption ^a																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	0.00	0.40	0.38	1.36	0.94	0.67	0.33	0.51	0.70	0.83	0.58	3.19	2.91	3.09	1.73	6.15	2.14	2.48	1.58	5.32

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 definition of terms used in these tables.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

^e Housing 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.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

^g *Rented* includes households that occupy their primary housing units without paying rent.

^h *Total 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 of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

ⁱ *Some other fuel* includes coal and district steam.