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Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total U.S. ^b (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
All homes	123.53	9,481	76.8	31.3	42.2	232.76	1,884	768	1.04
Census region and division									
Northeast	21.92	1,956	89.2	36.8	48.8	49.60	2,263	932	1.24
New England	5.88	528	89.9	36.4	46.6	14.92	2,539	1,028	1.32
Middle Atlantic	16.04	1,428	89.0	36.9	49.7	34.68	2,162	896	1.21
Midwest	27.04	2,619	96.9	40.9	48.3	51.18	1,892	798	0.94
East North Central	18.55	1,823	98.3	41.5	49.1	35.51	1,915	808	0.96
West North Central	8.50	796	93.7	39.5	46.4	15.66	1,844	777	0.91
South	46.84	3,116	66.5	27.2	36.8	86.14	1,839	753	1.02
South Atlantic	24.84	1,584	63.8	26.5	35.0	45.96	1,850	770	1.01
East South Central	7.38	523	70.9	30.3	37.7	13.89	1,882	806	1.00
West South Central	14.62	1,009	69.0	26.9	39.7	26.30	1,799	702	1.03
West	27.72	1,790	64.6	25.0	39.1	45.84	1,653	641	1.00
Mountain	9.22	727	78.9	31.4	42.7	15.24	1,653	658	0.89
Mountain North	4.62	413	89.5	34.9	44.4	6.80	1,474	576	0.73
Mountain South	4.60	314	68.3	27.7	40.6	8.43	1,833	745	1.09
Pacific	18.51	1,063	57.4	22.0	37.0	30.60	1,653	633	1.07
Census urban/rural classification^c									
Urban	100.44	7,510	74.8	30.3	43.1	180.76	1,800	728	1.04
Urbanized area	89.24	6,649	74.5	29.9	42.9	161.24	1,807	726	1.04
Urban cluster	11.20	861	76.9	33.1	44.9	19.52	1,743	750	1.02
Rural	23.09	1,971	85.4	35.8	39.0	51.99	2,252	945	1.03
Climate region^d									
Very cold/Cold	42.50	4,044	95.2	39.9	48.0	82.82	1,948	816	0.98
Mixed-humid	36.79	2,830	76.9	31.6	41.3	73.72	2,004	824	1.08
Mixed-dry/Hot-dry	15.06	887	58.9	22.3	37.9	26.07	1,732	654	1.12
Hot-humid	22.31	1,306	58.6	23.6	34.8	39.57	1,774	715	1.05
Marine	6.87	413	60.2	24.1	37.5	10.57	1,540	617	0.96
Housing unit type									
Single-family detached	77.07	7,293	94.6	35.9	41.8	169.90	2,205	836	0.97
Single-family attached	7.45	500	67.1	27.6	41.6	12.32	1,653	681	1.02
Apartments in buildings with 2–4 units	9.34	500	53.5	22.2	54.7	13.14	1,406	585	1.44
Apartments in buildings with 5 or more units	22.84	769	33.7	17.9	37.2	25.28	1,107	589	1.22
Mobile homes	6.83	419	61.3	25.3	50.5	12.12	1,773	731	1.46
Ownership of housing unit									
Owned	82.92	7,501	90.5	35.9	41.6	177.03	2,135	847	0.98
Single-family	73.22	6,950	94.9	37.0	41.2	161.09	2,200	857	0.96
Apartments	4.32	218	50.6	25.8	42.5	6.37	1,474	754	1.24
Mobile homes	5.38	333	61.8	26.5	49.4	9.57	1,779	764	1.42
Rented ^e	40.61	1,980	48.8	21.0	44.8	55.72	1,372	591	1.26
Single-family	11.30	843	74.6	25.4	46.8	21.12	1,869	636	1.17
Apartments	27.86	1,051	37.7	18.5	42.6	32.05	1,151	563	1.30
Mobile homes	1.45	86	59.5	21.3	55.1	2.54	1,752	627	1.62

Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total U.S. ^b (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
All homes	123.53	9,481	76.8	31.3	42.2	232.76	1,884	768	1.04
Year of construction									
Before 1950	20.26	1,836	90.6	39.3	51.3	40.63	2,006	869	1.14
1950 to 1959	12.48	1,058	84.8	35.5	50.1	24.31	1,948	816	1.15
1960 to 1969	12.76	980	76.8	32.3	47.0	23.64	1,854	779	1.13
1970 to 1979	18.34	1,306	71.2	29.7	43.2	33.27	1,814	756	1.10
1980 to 1989	16.30	1,086	66.6	27.7	39.2	29.38	1,802	749	1.06
1990 to 1999	17.16	1,336	77.8	30.3	38.9	33.38	1,946	757	0.97
2000 to 2009	16.16	1,236	76.5	29.0	35.9	31.15	1,927	732	0.90
2010 to 2015	5.53	360	65.1	24.5	32.5	9.56	1,730	652	0.86
2016 to 2020	4.56	284	62.3	24.1	31.2	7.44	1,633	633	0.82
Total square footage^f									
Less than 1,000	30.01	1,265	42.1	21.2	57.0	36.94	1,231	620	1.66
1,000 to 1,499	28.08	1,733	61.7	25.6	51.1	45.60	1,624	674	1.34
1,500 to 1,999	22.22	1,778	80.0	30.9	46.8	43.49	1,957	757	1.14
2,000 to 2,499	15.62	1,430	91.5	35.2	41.3	33.92	2,172	836	0.98
2,500 to 2,999	10.31	1,072	104.0	37.7	38.6	24.22	2,349	851	0.87
3,000 or more	17.29	2,203	127.4	44.5	32.3	48.59	2,809	982	0.71
Number of household members									
1 member	33.59	1,845	54.9	54.9	39.4	45.57	1,357	1,357	0.97
2 members	45.31	3,554	78.4	39.2	40.9	86.16	1,901	951	0.99
3 members	18.27	1,581	86.6	28.9	44.4	39.46	2,160	720	1.11
4 members	15.56	1,443	92.8	23.2	44.3	35.24	2,265	566	1.08
5 members	6.44	611	94.9	19.0	45.1	15.25	2,368	474	1.13
6 or more members	4.37	446	102.2	15.0	49.1	11.07	2,535	372	1.22
2020 annual household income									
Less than \$5,000	4.48	253	56.5	21.7	49.5	6.77	1,512	580	1.33
\$5,000 to \$9,999	4.01	208	51.9	23.9	48.2	5.53	1,379	636	1.28
\$10,000 to \$19,999	10.25	588	57.4	28.9	44.5	14.98	1,462	735	1.13
\$20,000 to \$39,999	24.07	1,568	65.1	29.7	44.7	38.84	1,614	735	1.11
\$40,000 to \$59,999	19.61	1,372	70.0	30.3	42.0	33.80	1,724	747	1.03
\$60,000 to \$99,999	27.71	2,178	78.6	31.1	42.1	53.34	1,925	763	1.03
\$100,000 to \$149,999	16.54	1,462	88.4	32.4	40.3	35.51	2,147	786	0.98
\$150,000 or more	16.86	1,852	109.8	37.6	40.1	43.98	2,608	893	0.95
Payment method for energy bills									
All paid by household	112.70	8,982	79.7	31.9	42.0	218.40	1,938	775	1.02
Some paid by household, some included in rent or condo fee	4.34	183	42.2	22.4	43.8	5.36	1,235	656	1.28
All included in rent or condo fee	0.72	28	39.1	16.8	34.0	0.94	1,311	563	1.14
Some other method	5.77	288	49.9	24.7	51.2	8.05	1,396	691	1.43
Main heating fuel									
Natural gas	62.71	5,996	95.6	38.1	48.2	122.40	1,952	777	0.98
Electricity	42.57	2,081	48.9	20.7	31.6	70.13	1,647	697	1.06
Fuel oil or kerosene	4.93	547	110.8	46.1	51.5	14.51	2,941	1,222	1.37
Propane	5.21	512	98.2	41.3	43.7	13.94	2,675	1,123	1.19
Wood	2.25	115	50.9	20.3	25.6	3.77	1,676	669	0.84
Some other fuel ^g	Q	Q	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	5.79	229	39.5	15.1	31.1	7.94	1,371	522	1.08

Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a					
		Total U.S. ^b	Total (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
All homes	123.53	9,481	76.8	31.3	42.2	232.76	1,884	768	1.04	

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated 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 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, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^d 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/Cold*.

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

^f *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.

^g *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.

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Relative standard errors (RSEs) for Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a			RSEs for energy expenditures ^a				
	Total U.S. ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.40	0.40	0.57	0.43	0.35	0.35	0.55	0.45
Census region and division									
Northeast	0.00	0.78	0.78	0.93	0.84	0.88	0.88	1.13	0.99
New England	0.00	1.34	1.34	1.61	1.44	1.25	1.25	1.63	1.32
Middle Atlantic	0.00	1.07	1.07	1.24	1.11	1.26	1.26	1.56	1.28
Midwest	0.00	0.90	0.90	1.22	0.83	0.75	0.75	1.07	0.75
East North Central	0.00	1.13	1.13	1.50	0.99	1.00	1.00	1.28	1.03
West North Central	0.00	1.29	1.29	1.98	1.33	0.94	0.94	1.70	1.13
South	0.00	0.65	0.65	0.91	0.67	0.59	0.59	0.93	0.72
South Atlantic	0.00	1.02	1.02	1.34	0.97	0.89	0.89	1.36	1.00
East South Central	0.00	1.54	1.54	1.92	1.66	1.11	1.11	1.53	1.50
West South Central	0.00	1.22	1.22	1.57	1.22	1.04	1.04	1.45	1.34
West	0.00	0.74	0.74	1.11	0.75	0.86	0.86	1.19	0.94
Mountain	0.00	1.03	1.03	1.68	1.03	1.12	1.12	1.77	1.36
Mountain North	0.00	1.40	1.40	2.45	1.58	1.53	1.53	2.48	1.77
Mountain South	0.00	1.70	1.70	2.01	1.49	1.65	1.65	2.10	1.67
Pacific	0.00	1.09	1.09	1.44	1.14	1.13	1.13	1.48	1.26
Census urban/rural classification^c									
Urban	0.28	0.60	0.48	0.68	0.50	0.53	0.43	0.63	0.52
Urbanized area	0.42	0.69	0.49	0.75	0.52	0.61	0.45	0.71	0.57
Urban cluster	2.74	3.19	1.53	1.92	1.59	2.99	1.24	1.47	1.41
Rural	1.23	1.49	0.94	1.25	0.97	1.37	0.75	1.15	0.91
Climate region^d									
Very cold/Cold	0.54	0.77	0.62	0.79	0.62	0.69	0.54	0.70	0.67
Mixed-humid	0.77	1.17	0.78	1.03	0.66	1.12	0.74	1.06	0.75
Mixed-dry/Hot-dry	1.23	1.57	1.24	1.72	1.22	1.70	1.40	1.91	1.52
Hot-humid	0.69	1.36	1.07	1.32	1.10	1.35	1.04	1.33	1.20
Marine	2.39	2.62	2.16	2.70	1.86	2.81	1.96	2.61	1.56
Housing unit type									
Single-family detached	0.00	0.45	0.45	0.61	0.52	0.42	0.42	0.55	0.58
Single-family attached	0.00	1.67	1.67	2.10	1.73	1.35	1.35	1.71	1.41
Apartments in buildings with 2–4 units	0.00	2.20	2.20	2.70	2.26	1.72	1.72	2.35	2.09
Apartments in buildings with 5 or more units	0.00	1.22	1.22	1.24	1.11	1.24	1.24	1.54	1.31
Mobile homes	0.00	1.58	1.58	2.59	1.64	1.48	1.48	2.43	1.56
Ownership of housing unit									
Owned	0.42	0.59	0.49	0.63	0.51	0.58	0.44	0.56	0.59
Single-family	0.36	0.57	0.52	0.63	0.51	0.53	0.46	0.53	0.56
Apartments	4.13	6.67	4.49	3.99	4.18	6.12	4.10	3.80	3.79
Mobile homes	2.05	2.71	1.71	3.08	2.11	2.82	1.57	2.94	1.96
Rented ^e	0.86	1.51	0.98	1.22	0.93	1.35	0.87	1.22	0.86
Single-family	2.35	2.88	1.37	1.66	1.63	2.83	1.19	1.56	1.46
Apartments	0.64	1.34	1.16	1.56	1.18	1.26	1.07	1.57	1.16
Mobile homes	7.62	7.67	4.35	5.02	3.86	7.76	3.89	4.65	4.00

Relative standard errors (RSEs) for Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a			
	Total U.S. ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.40	0.40	0.57	0.43	0.35	0.35	0.55	0.45
Year of construction									
Before 1950	0.00	1.35	1.35	1.63	1.24	1.12	1.12	1.46	1.26
1950 to 1959	0.00	1.48	1.48	1.80	1.52	1.53	1.53	1.82	1.62
1960 to 1969	0.00	1.56	1.56	2.06	1.46	1.52	1.52	1.67	1.68
1970 to 1979	0.00	1.34	1.34	1.32	1.04	1.13	1.13	1.07	1.23
1980 to 1989	0.00	1.34	1.34	1.66	1.15	1.29	1.29	1.64	1.24
1990 to 1999	0.00	1.32	1.32	1.56	1.04	1.22	1.22	1.43	1.12
2000 to 2009	0.00	1.40	1.40	1.67	1.28	1.14	1.14	1.53	1.22
2010 to 2015	2.84	4.04	2.66	2.54	1.87	3.68	1.99	2.33	1.74
2016 to 2020	3.44	4.72	2.96	3.22	2.36	4.17	2.40	2.85	2.13
Total square footage^f									
Less than 1,000	1.20	1.65	1.03	1.35	0.93	1.71	1.07	1.40	1.07
1,000 to 1,499	1.54	1.89	0.89	1.33	0.89	1.72	0.77	1.24	0.81
1,500 to 1,999	1.59	1.68	0.78	1.41	0.73	1.72	0.80	1.26	0.77
2,000 to 2,499	2.32	2.44	0.82	1.26	0.81	2.52	0.83	1.17	0.81
2,500 to 2,999	2.55	2.61	1.08	1.69	1.09	2.59	1.00	1.52	0.99
3,000 or more	1.93	2.07	1.09	1.48	1.00	2.05	0.96	1.40	0.85
Number of household members									
1 member	1.25	1.66	1.05	1.05	0.87	1.56	0.84	0.84	0.91
2 members	1.15	1.27	0.85	0.85	0.64	1.23	0.70	0.70	0.67
3 members	1.87	1.80	1.28	1.28	1.28	1.82	0.98	0.98	1.29
4 members	2.08	2.31	1.29	1.29	1.39	2.27	1.16	1.16	1.41
5 members	4.12	4.26	2.10	2.10	1.69	4.32	1.80	1.80	1.71
6 or more members	4.58	4.85	2.31	2.77	2.41	4.58	2.16	2.55	2.44
2020 annual household income									
Less than \$5,000	4.63	5.74	3.65	4.19	3.51	5.23	2.78	4.04	3.50
\$5,000 to \$9,999	5.53	6.15	3.16	4.37	3.51	5.74	2.45	4.15	2.91
\$10,000 to \$19,999	3.21	3.46	1.91	2.68	1.91	3.25	1.61	2.54	1.93
\$20,000 to \$39,999	1.98	2.16	1.30	1.81	1.09	2.04	1.04	1.64	1.05
\$40,000 to \$59,999	1.83	2.07	1.44	1.85	1.27	1.95	1.18	1.51	1.18
\$60,000 to \$99,999	1.58	1.67	0.92	1.30	0.86	1.60	0.72	1.00	0.88
\$100,000 to \$149,999	1.83	1.91	1.19	1.38	1.05	2.12	1.16	1.30	1.32
\$150,000 or more	1.93	2.23	1.28	1.32	1.18	2.17	1.04	1.22	1.20
Payment method for energy bills									
All paid by household	0.27	0.46	0.46	0.58	0.45	0.40	0.36	0.54	0.45
Some paid by household, some included in rent or condo fee	4.78	5.40	3.00	3.74	2.64	5.45	2.47	3.53	3.38
All included in rent or condo fee	12.26	14.20	8.30	8.61	6.59	12.94	7.81	8.79	7.72
Some other method	4.08	5.12	3.16	4.58	2.70	4.80	2.68	3.90	2.52
Main heating fuel									
Natural gas	0.77	0.87	0.54	0.71	0.53	0.89	0.56	0.71	0.59
Electricity	0.92	1.17	0.83	1.06	0.76	1.11	0.78	1.04	0.77
Fuel oil or kerosene	3.50	3.32	1.57	2.42	1.72	3.26	1.42	2.23	1.78
Propane	3.76	4.33	1.70	2.30	1.93	4.22	1.54	2.27	1.82
Wood	4.88	5.67	2.37	3.66	3.38	6.04	2.39	3.70	3.86
Some other fuel ^g	35.67	38.88	24.00	25.24	31.01	35.97	13.54	15.68	27.63
Does not use heating equipment	4.41	5.09	2.37	2.92	2.30	4.58	2.27	2.84	2.18

Relative standard errors (RSEs) for Table CE1.1 Summary annual household site consumption and expenditures in the United States—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a			
	Total U.S. ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.40	0.40	0.57	0.43	0.35	0.35	0.55	0.45

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated 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 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, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^d 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/Cold*.

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

^f *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.

^g *Some other fuel* includes coal and district steam.