

Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	Number of housing units (million)			Site energy consumption ^a			Energy expenditures ^a		
	Total Northeast ^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	21.92	1,956	89.2	36.8	48.8	49.60	2,263	932	1.24
Census division									
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
Census urban/rural classification^c									
Urban	18.56	1,603	86.4	35.3	50.5	40.72	2,194	897	1.28
Urbanized area	17.30	1,483	85.7	34.8	50.4	38.12	2,203	893	1.30
Urban cluster	1.25	120	95.7	44.4	51.9	2.60	2,076	963	1.12
Rural	3.36	352	104.8	44.9	42.4	8.88	2,640	1,132	1.07
Climate region^d									
Very cold/Cold	13.69	1,286	94.0	39.7	47.6	30.83	2,252	951	1.14
Mixed-humid	8.23	669	81.4	32.2	51.5	18.77	2,281	903	1.44
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N
Marine	N	N	N	N	N	N	N	N	N
Housing unit type									
Single-family detached	11.23	1,355	120.7	45.6	47.9	31.13	2,773	1,049	1.10
Single-family attached	1.95	167	85.4	31.7	47.4	4.03	2,060	764	1.14
Apartments in buildings with 2–4 units	3.15	214	68.0	27.2	65.4	5.71	1,814	725	1.74
Apartments in buildings with 5 or more units	5.10	184	36.2	19.9	41.6	7.71	1,514	834	1.74
Mobile homes	0.50	36	72.1	31.4	66.7	1.02	2,054	894	1.90
Ownership of housing unit									
Owned	13.77	1,526	110.8	43.0	47.9	36.22	2,631	1,021	1.14
Single-family	11.89	1,402	117.9	45.3	47.3	32.28	2,715	1,042	1.09
Apartments	1.50	96	64.0	26.7	54.6	3.16	2,104	878	1.80
Mobile homes	0.38	28	74.1	31.8	63.9	0.79	2,080	894	1.79
Rented ^e	8.15	430	52.7	24.2	52.5	13.38	1,641	753	1.63
Single-family	1.29	120	92.9	30.2	55.8	2.88	2,233	725	1.34
Apartments	6.74	302	44.8	22.3	50.8	10.26	1,522	759	1.73
Mobile homes	0.12	8	65.6	29.8	79.0	0.24	1,971	894	2.37
Year of construction									
Before 1950	7.15	668	93.5	40.1	54.6	16.20	2,266	973	1.32
1950 to 1959	3.02	291	96.5	39.7	53.8	7.32	2,422	996	1.35
1960 to 1969	2.56	231	90.3	37.4	51.1	5.93	2,315	960	1.31
1970 to 1979	2.62	217	83.1	34.2	48.5	5.59	2,134	878	1.25
1980 to 1989	2.20	176	79.7	33.6	43.5	4.79	2,174	916	1.19
1990 to 1999	1.80	160	88.8	32.8	42.2	4.07	2,262	836	1.07
2000 to 2009	1.58	145	91.8	34.7	40.3	3.76	2,385	901	1.05
2010 to 2015	0.56	36	64.6	27.0	34.5	1.07	1,893	793	1.01
2016 to 2020	0.43	31	71.7	28.9	33.7	0.88	2,049	825	0.96
Total square footage^f									
Less than 1,000	6.04	273	45.2	23.6	61.8	9.33	1,545	807	2.11
1,000 to 1,499	4.39	319	72.7	30.1	61.0	8.65	1,970	816	1.65

Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a					
		Total Northeast ^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	21.92	1,956	89.2	36.8	48.8	49.60	2,263	932	1.24	
1,500 to 1,999	3.56	351	98.6	37.9	57.4	8.29	2,330	896	1.36	
2,000 to 2,499	2.71	291	107.3	40.9	48.1	6.80	2,509	956	1.12	
2,500 to 2,999	1.90	230	121.4	43.9	44.9	5.23	2,753	995	1.02	
3,000 or more	3.33	492	147.8	52.1	37.5	11.31	3,400	1,197	0.86	
Number of household members										
1 member	6.02	364	60.4	60.4	45.1	9.63	1,599	1,599	1.19	
2 members	7.96	713	89.6	44.8	46.3	17.76	2,232	1,116	1.15	
3 members	3.53	365	103.5	34.5	52.5	9.14	2,592	864	1.31	
4 members	2.76	311	112.8	28.2	51.8	7.85	2,846	711	1.31	
5 members	0.91	111	121.7	24.3	53.6	2.83	3,102	620	1.37	
6 or more members	0.75	92	123.0	17.9	60.1	2.40	3,212	468	1.57	
2020 annual household income										
Less than \$5,000	0.66	43	65.6	23.3	55.2	1.29	1,954	696	1.64	
\$5,000 to \$9,999	0.69	41	59.3	33.9	59.0	1.11	1,621	928	1.61	
\$10,000 to \$19,999	1.77	116	65.7	32.0	52.7	2.98	1,684	821	1.35	
\$20,000 to \$39,999	3.36	251	74.8	36.2	51.6	6.19	1,842	892	1.27	
\$40,000 to \$59,999	3.04	250	82.4	36.3	51.5	6.10	2,008	884	1.25	
\$60,000 to \$99,999	5.03	449	89.2	37.2	48.8	11.46	2,278	949	1.25	
\$100,000 to \$149,999	3.29	313	95.0	35.4	46.4	8.20	2,493	930	1.22	
\$150,000 or more	4.09	493	120.5	41.8	46.0	12.27	3,001	1,040	1.15	
Payment method for energy bills										
All paid by household	18.00	1,767	98.1	39.0	48.8	43.03	2,390	949	1.19	
Some paid by household, some included in rent or condo fee	2.54	123	48.5	22.8	50.3	4.38	1,726	812	1.79	
All included in rent or condo fee	1.32	62	46.5	25.8	47.9	2.08	1,575	874	1.62	
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Main heating fuel										
Natural gas	12.24	1,217	99.5	40.0	54.6	26.77	2,187	879	1.20	
Electricity	3.99	158	39.6	18.3	30.0	6.70	1,679	778	1.27	
Fuel oil or kerosene	4.07	457	112.3	45.7	51.6	12.20	3,000	1,220	1.38	
Propane	0.99	95	95.9	36.2	40.6	2.84	2,879	1,086	1.22	
Wood	0.47	24	52.3	20.7	22.3	0.88	1,877	744	0.80	
Some other fuel ⁸	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Does not use heating equipment	0.12	3	23.8	10.8	24.2	0.15	1,223	Q	1.24	

Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total Northeast ^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)
All homes	21.92	1,956	89.2	36.8	48.8	49.60	2,263	932	1.24

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 Northeast* includes all primary occupied housing units in the Northeast Census Region. 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.

Data release date: March 2023

Revised data release date: March 2024

Relative standard errors (RSEs) for Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	RSEs for number of housing units		RSEs for site energy consumption ^a			RSEs for energy expenditures ^a			
	Total Northeast ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.78	0.78	0.93	0.84	0.88	0.88	1.13	0.99
Census division									
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
Census urban/rural classification^c									
Urban	0.56	1.05	0.94	1.16	1.01	1.12	1.05	1.35	1.16
Urbanized area	0.59	1.21	1.08	1.24	1.09	1.35	1.16	1.44	1.25
Urban cluster	6.76	7.80	3.33	4.64	3.67	7.69	3.41	4.97	3.92
Rural	3.09	3.44	2.63	3.51	2.32	2.89	1.96	3.01	2.17
Climate region^d									
Very cold/Cold	1.29	1.65	1.04	1.39	0.99	1.42	0.85	1.18	1.00
Mixed-humid	2.15	2.97	1.70	1.97	1.87	2.83	1.78	2.45	2.18
Mixed-dry/Hot-dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hot-humid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Housing unit type									
Single-family detached	0.00	0.97	0.97	1.34	1.03	0.98	0.98	1.27	1.12
Single-family attached	0.00	2.68	2.68	3.96	3.61	2.58	2.58	3.84	3.19
Apartments in buildings with 2–4 units	0.00	3.64	3.64	4.72	3.88	3.30	3.30	4.13	3.86
Apartments in buildings with 5 or more units	0.00	2.22	2.22	2.61	2.33	2.81	2.81	3.28	2.94
Mobile homes	0.00	4.52	4.52	9.32	5.51	3.93	3.93	9.31	5.38
Ownership of housing unit									
Owned	1.01	1.31	0.94	1.20	1.08	1.49	0.98	1.25	1.28
Single-family	0.74	1.20	1.01	1.27	1.02	1.30	0.95	1.18	1.11
Apartments	8.09	11.39	7.15	6.40	7.01	10.89	6.83	6.45	6.60
Mobile homes	6.90	9.35	5.38	12.64	6.71	8.35	4.72	12.39	6.21
Rented ^e	1.70	3.28	2.35	2.39	1.93	2.75	1.84	2.06	1.80
Single-family	6.82	8.36	3.98	4.74	3.91	8.03	4.09	5.10	3.87
Apartments	1.80	3.26	2.49	2.76	2.38	2.98	2.09	2.51	2.33
Mobile homes	21.86	21.80	9.20	14.72	11.20	21.66	10.08	10.32	12.40
Year of construction									
Before 1950	0.00	2.11	2.11	2.83	1.96	1.83	1.83	2.69	2.33
1950 to 1959	0.00	2.77	2.77	3.43	1.99	2.92	2.92	3.05	2.71
1960 to 1969	0.00	3.51	3.51	3.09	2.68	3.16	3.16	2.74	3.77
1970 to 1979	0.00	3.44	3.44	3.83	2.24	2.70	2.70	3.49	2.49
1980 to 1989	0.00	3.30	3.30	4.57	2.81	3.05	3.05	4.06	3.34
1990 to 1999	0.00	4.31	4.31	4.70	3.64	3.28	3.28	4.32	3.37
2000 to 2009	0.00	4.60	4.60	4.43	3.36	4.39	4.39	4.10	3.39
2010 to 2015	7.00	8.72	7.33	6.87	4.54	7.82	4.93	5.50	5.69
2016 to 2020	9.20	14.21	10.72	11.37	6.61	12.27	8.09	8.65	5.81
Total square footage^f									
Less than 1,000	2.12	3.40	2.35	2.61	2.23	3.17	2.23	2.76	2.38
1,000 to 1,499	3.75	4.38	2.39	2.93	2.39	4.06	2.21	2.60	2.29
1,500 to 1,999	3.87	3.85	1.75	2.91	1.76	3.67	1.75	2.84	1.74

Relative standard errors (RSEs) for Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	RSEs for number of housing units									
	RSEs for site energy consumption ^a					RSEs for energy expenditures ^a				
	Total Northeast ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot	
All homes	0.00	0.78	0.78	0.93	0.84	0.88	0.88	1.13	0.99	
2,000 to 2,499	4.21	4.55	1.86	3.05	1.81	4.35	1.72	2.69	1.67	
2,500 to 2,999	5.59	5.82	2.31	3.53	2.38	5.84	2.20	2.85	2.26	
3,000 or more	3.86	4.24	2.47	3.17	2.05	3.92	1.88	2.50	1.62	
Number of household members										
1 member	2.99	4.01	2.39	2.39	1.54	4.03	2.05	2.05	2.40	
2 members	2.54	3.11	2.28	2.28	1.73	2.86	1.66	1.66	1.63	
3 members	3.66	4.03	2.20	2.20	2.63	4.20	2.05	2.05	2.82	
4 members	5.11	5.67	2.64	2.64	2.19	5.47	2.55	2.55	2.22	
5 members	8.00	8.43	3.92	3.92	3.86	8.11	3.99	3.99	4.15	
6 or more members	10.62	11.27	5.75	5.91	4.80	10.89	5.13	5.32	5.01	
2020 annual household income										
Less than \$5,000	12.39	14.71	8.67	8.52	9.02	13.97	7.89	6.82	7.52	
\$5,000 to \$9,999	10.11	13.73	8.80	9.96	7.67	12.34	5.98	7.60	7.65	
\$10,000 to \$19,999	7.27	7.84	4.54	6.28	3.73	8.01	3.38	5.35	3.92	
\$20,000 to \$39,999	5.04	5.20	2.74	3.18	2.78	5.46	2.57	2.93	3.06	
\$40,000 to \$59,999	4.76	5.26	2.95	3.52	2.80	4.86	2.40	3.14	2.99	
\$60,000 to \$99,999	3.55	4.08	1.86	2.46	1.85	3.79	1.66	2.32	2.16	
\$100,000 to \$149,999	3.99	4.43	2.30	2.41	2.27	4.88	2.60	2.74	3.18	
\$150,000 or more	3.22	3.91	2.84	2.82	2.02	3.72	2.24	2.35	1.97	
Payment method for energy bills										
All paid by household	0.77	0.99	0.94	1.02	0.91	1.01	0.88	1.07	1.06	
Some paid by household, some included in rent or condo fee	5.15	6.56	3.51	4.67	3.16	6.59	4.16	5.34	4.00	
All included in rent or condo fee	7.09	8.93	5.91	5.30	5.13	9.15	5.37	6.94	7.91	
Some other method	37.55	42.42	27.13	27.25	6.19	37.13	14.68	14.75	18.61	
Main heating fuel										
Natural gas	1.51	1.65	1.29	1.56	1.26	1.80	1.36	1.68	1.47	
Electricity	4.25	5.88	3.54	3.07	2.74	5.41	2.79	2.78	2.52	
Fuel oil or kerosene	3.90	3.74	1.67	2.54	1.86	3.67	1.55	2.38	2.04	
Propane	8.29	9.57	3.53	6.16	3.64	8.82	3.51	5.83	3.57	
Wood	10.55	12.44	5.45	7.43	7.39	11.84	5.21	6.56	8.04	
Some other fuel [§]	39.10	43.99	27.75	29.54	35.15	40.17	15.35	18.11	31.11	
Does not use heating equipment	27.39	28.87	14.18	33.14	19.49	31.50	15.20	51.95	21.16	

Relative standard errors (RSEs) for Table CE1.2 Summary annual household site consumption and expenditures in the Northeast—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a			RSEs for energy expenditures ^a				
	Total Northeast ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.78	0.78	0.93	0.84	0.88	0.88	1.13	0.99

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.

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