

Table CE2.7 Annual household fuel expenditures in the Northeast—totals and averages, 2020

	Number of housing units (million)	Total energy expenditures ^a (billion dollars)					Average energy expenditures ^b (dollars per household using the fuel)				
		Total Northeast ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane
All homes	21.92	49.60	29.43	12.40	2.02	5.75	2,263	1,343	855	781	1,288
Census division											
New England	5.88	14.92	8.69	2.65	0.77	2.82	2,539	1,478	883	830	1,370
Middle Atlantic	16.04	34.68	20.74	9.76	1.25	2.93	2,162	1,293	847	754	1,217
Census urban/rural classification^c											
Urban	18.56	40.72	24.29	11.84	0.88	3.71	2,194	1,309	858	736	1,241
Urbanized area	17.30	38.12	22.76	11.29	0.76	3.31	2,203	1,315	861	772	1,247
Urban cluster	1.25	2.60	1.53	0.56	0.12	0.40	2,076	1,218	814	565	1,196
Rural	3.36	8.88	5.14	0.56	1.14	2.04	2,640	1,529	781	819	1,381
Climate region^d											
Very cold/Cold	13.69	30.83	18.55	6.43	1.62	4.24	2,252	1,355	818	774	1,326
Mixed-humid	8.23	18.77	10.88	5.98	0.40	1.51	2,281	1,322	897	811	1,190
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N	N	N
Marine	N	N	N	N	N	N	N	N	N	N	N
Housing unit type											
Single-family detached	11.23	31.13	17.93	6.70	1.67	4.83	2,773	1,598	1,020	838	1,465
Single-family attached	1.95	4.03	2.53	1.31	0.05	0.14	2,060	1,293	825	773	920
Apartments in buildings with 2–4 units	3.15	5.71	3.39	2.00	0.05	0.27	1,814	1,078	802	420	928
Apartments in buildings with 5 or more units	5.10	7.71	4.95	2.33	0.07	0.37	1,514	972	625	350	659
Mobile homes	0.50	1.02	0.63	0.07	0.18	0.14	2,054	1,262	489	824	860
Ownership of housing unit											
Owned	13.77	36.22	20.90	8.60	1.77	4.95	2,631	1,518	980	833	1,407
Single-family	11.89	32.28	18.65	7.36	1.63	4.63	2,715	1,569	1,006	837	1,468
Apartments	1.50	3.16	1.78	1.18	Q	0.20	2,104	1,184	876	Q	844
Mobile homes	0.38	0.79	0.47	0.06	0.14	0.11	2,080	1,252	524	873	931
Rented ^e	8.15	13.38	8.53	3.80	0.24	0.80	1,641	1,046	663	539	846
Single-family	1.29	2.88	1.81	0.64	0.09	0.34	2,233	1,403	770	813	1,145
Apartments	6.74	10.26	6.56	3.15	0.11	0.44	1,522	974	646	394	714
Mobile homes	0.12	0.24	0.15	Q	0.05	0.03	1,971	1,294	Q	705	653
Year of construction											
Before 1950	7.15	16.20	8.81	5.00	0.42	1.97	2,266	1,233	912	695	1,253
1950 to 1959	3.02	7.32	4.17	1.91	0.10	1.13	2,422	1,382	942	514	1,334
1960 to 1969	2.56	5.93	3.54	1.58	0.14	0.67	2,315	1,383	911	674	1,321
1970 to 1979	2.62	5.59	3.65	1.08	0.20	0.65	2,134	1,395	748	671	1,207
1980 to 1989	2.20	4.79	3.01	0.93	0.30	0.55	2,174	1,368	762	904	1,452
1990 to 1999	1.80	4.07	2.53	0.80	0.37	0.38	2,262	1,403	778	988	1,079
2000 to 2009	1.58	3.76	2.40	0.70	0.29	0.38	2,385	1,521	741	769	1,532
2010 to 2015	0.56	1.07	0.74	0.22	0.09	Q	1,893	1,309	556	1,003	Q
2016 to 2020	0.43	0.88	0.57	0.19	0.12	Q	2,049	1,338	763	1,035	Q
Total square footage^f											
Less than 1,000	6.04	9.33	5.78	2.80	0.17	0.58	1,545	957	649	449	762
1,000 to 1,499	4.39	8.65	5.30	2.50	0.26	0.59	1,970	1,208	792	745	980
1,500 to 1,999	3.56	8.29	4.81	1.98	0.33	1.17	2,330	1,351	881	756	1,226
2,000 to 2,499	2.71	6.80	4.02	1.55	0.25	0.98	2,509	1,483	917	711	1,314
2,500 to 2,999	1.90	5.23	3.11	1.27	0.22	0.63	2,753	1,640	1,067	777	1,342
3,000 or more	3.33	11.31	6.41	2.31	0.78	1.81	3,400	1,927	1,203	1,007	1,920
Number of household members											
1 member	6.02	9.63	5.33	2.78	0.40	1.13	1,599	885	699	672	1,035
2 members	7.96	17.76	10.45	4.24	0.84	2.23	2,232	1,314	840	804	1,318
3 members	3.53	9.14	5.40	2.35	0.33	1.06	2,592	1,532	971	819	1,397
4 members	2.76	7.85	4.98	1.82	0.26	0.78	2,846	1,808	973	817	1,349
5 members	0.91	2.83	1.77	0.63	0.12	0.31	3,102	1,941	975	842	1,494
6 or more members	0.75	2.40	1.50	0.59	0.08	0.23	3,212	2,005	1,054	838	1,764
2020 annual household income											
Less than \$5,000	0.66	1.29	0.87	0.31	0.03	0.07	1,954	1,326	661	437	1,015

Table CE2.7 Annual household fuel expenditures in the Northeast—totals and averages, 2020

	Number of housing units (million)	Total energy expenditures ^a (billion dollars)					Average energy expenditures ^a (dollars per household using the fuel)				
	Total Northeast ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene
All homes	21.92	49.60	29.43	12.40	2.02	5.75	2,263	1,343	855	781	1,288
\$5,000 to \$9,999	0.69	1.11	0.68	0.30	0.03	0.10	1,621	999	673	615	1,083
\$10,000 to \$19,999	1.77	2.98	1.76	0.79	0.13	0.28	1,684	997	692	728	877
\$20,000 to \$39,999	3.36	6.19	3.61	1.57	0.24	0.77	1,842	1,075	733	601	1,055
\$40,000 to \$59,999	3.04	6.10	3.56	1.61	0.25	0.69	2,008	1,170	785	744	1,161
\$60,000 to \$99,999	5.03	11.46	6.71	2.81	0.46	1.48	2,278	1,335	909	722	1,355
\$100,000 to \$149,999	3.29	8.20	4.89	2.02	0.36	0.92	2,493	1,487	925	915	1,288
\$150,000 or more	4.09	12.27	7.33	2.99	0.51	1.44	3,001	1,793	1,002	997	1,686
Payment method for energy bills											
All paid by household	18.00	43.03	25.62	10.26	1.90	5.25	2,390	1,423	909	813	1,403
Some paid by household, some included in rent or condo fee	2.54	4.38	2.41	1.46	0.07	0.43	1,726	950	647	483	744
All included in rent or condo fee	1.32	2.08	1.33	0.66	0.04	0.06	1,575	1,005	702	473	459
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main heating fuel											
Natural gas	12.24	26.77	14.81	11.81	0.04	0.11	2,187	1,210	965	272	837
Electricity	3.99	6.70	6.20	0.29	0.16	0.06	1,679	1,554	233	426	572
Fuel oil or kerosene	4.07	12.20	6.19	0.25	0.29	5.48	3,000	1,523	291	349	1,346
Propane	0.99	2.84	1.38	Q	1.45	N	2,879	1,404	Q	1,466	N
Wood	0.47	0.88	0.68	0.01	0.09	0.10	1,877	1,446	264	381	705
Some other fuel ^g	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	0.12	0.15	0.10	Q	Q	Q	1,223	862	399	Q	Q

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.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

^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.

Relative standard errors (RSEs) for Table CE2.7 Annual household fuel expenditures in the Northeast—totals and averages, 2020

	RSEs for number of housing units											
	RSEs for total energy expenditures ^a						RSEs for average energy expenditures ^a					
	Total Northeast ^b	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	
All homes	0.00	0.88	1.09	1.86	7.64	4.20	0.88	1.09	1.85	6.07	2.51	
Census division												
New England	0.00	1.25	1.60	3.58	8.84	3.88	1.25	1.60	2.28	6.16	2.16	
Middle Atlantic	0.00	1.26	1.49	2.38	10.05	6.94	1.26	1.49	2.23	8.35	4.45	
Census urban/rural classification^c												
Urban	0.56	1.12	1.29	2.11	11.86	4.61	1.05	1.14	1.98	9.23	3.03	
Urbanized area	0.59	1.35	1.47	2.27	13.06	5.12	1.16	1.21	2.08	9.77	3.35	
Urban cluster	6.76	7.69	8.30	10.92	29.87	16.67	3.41	4.88	6.98	20.82	8.07	
Rural	3.09	2.89	3.35	12.47	9.35	6.34	1.96	2.49	9.38	6.92	4.02	
Climate region^d												
Very cold/Cold	1.29	1.42	1.82	2.74	7.39	3.73	0.85	1.22	1.73	5.87	2.06	
Mixed-humid	2.15	2.83	2.74	4.48	21.74	10.09	1.78	1.87	3.64	17.55	6.42	
Mixed-dry/Hot-dry	0.00	0.00	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	0.00	0.00	
Marine	0.00	0.00	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	0.98	1.35	1.87	8.94	4.23	0.98	1.35	1.58	6.81	2.47	
Single-family attached	0.00	2.58	3.49	4.11	32.61	20.85	2.58	3.49	3.18	22.48	9.14	
Apartments in buildings with 2–4 units	0.00	3.30	4.01	4.73	23.79	23.23	3.30	4.01	3.74	15.11	17.39	
Apartments in buildings with 5 or more units	0.00	2.81	2.57	7.53	31.49	18.59	2.81	2.57	7.66	25.55	8.90	
Mobile homes	0.00	3.93	6.84	26.79	18.27	19.74	3.93	6.84	14.47	15.64	10.40	
Ownership of housing unit												
Owned	1.01	1.49	1.78	2.29	7.99	4.61	0.98	1.33	1.74	6.25	2.32	
Single-family	0.74	1.30	1.65	1.79	8.54	4.54	0.95	1.34	1.60	6.49	2.35	
Apartments	8.09	10.89	10.28	13.11	68.30	33.31	6.83	5.68	9.94	75.28	25.17	
Mobile homes	6.90	8.35	10.58	28.55	24.75	23.84	4.72	8.15	14.97	19.96	10.17	
Rented ^e	1.70	2.75	2.87	5.04	16.81	11.56	1.84	2.04	4.37	13.84	6.05	
Single-family	6.82	8.03	9.25	9.14	36.65	15.78	4.09	6.02	4.93	25.78	10.46	
Apartments	1.80	2.98	2.87	6.05	19.54	15.61	2.09	2.10	5.27	16.02	7.36	
Mobile homes	21.86	21.66	23.24	60.48	36.99	40.61	10.08	13.24	53.31	26.35	29.10	
Year of construction												
Before 1950	0.00	1.83	2.22	3.82	18.86	7.33	1.83	2.22	3.48	16.04	5.35	
1950 to 1959	0.00	2.92	3.83	5.50	25.92	10.05	2.92	3.83	4.95	26.25	4.19	
1960 to 1969	0.00	3.16	3.54	8.02	26.03	11.86	3.16	3.54	6.71	18.21	6.38	
1970 to 1979	0.00	2.70	2.94	6.06	25.59	10.38	2.70	2.94	4.64	21.32	6.19	
1980 to 1989	0.00	3.05	3.11	9.33	16.58	11.23	3.05	3.11	8.35	11.60	6.33	
1990 to 1999	0.00	3.28	3.12	9.33	16.96	10.69	3.28	3.12	7.00	12.51	8.69	
2000 to 2009	0.00	4.39	5.30	7.82	14.52	15.97	4.39	5.30	6.45	11.33	10.81	
2010 to 2015	7.00	7.82	8.05	11.59	27.59	50.88	4.93	5.19	8.83	14.91	21.65	
2016 to 2020	9.20	12.27	11.27	19.31	24.38	33.50	8.09	6.42	14.51	13.32	0.00	
Total square footage^f												
Less than 1,000	2.12	3.17	2.77	6.29	23.12	14.36	2.23	1.84	5.86	19.74	10.39	
1,000 to 1,499	3.75	4.06	4.23	6.48	15.85	11.77	2.21	2.53	5.09	11.43	6.32	
1,500 to 1,999	3.87	3.67	4.29	6.01	17.17	10.28	1.75	2.52	3.31	14.00	4.25	
2,000 to 2,499	4.21	4.35	4.83	6.12	19.78	9.58	1.72	2.54	2.92	13.18	3.84	
2,500 to 2,999	5.59	5.84	6.23	8.31	16.27	11.70	2.20	2.77	3.91	13.69	6.51	
3,000 or more	3.86	3.92	4.32	6.35	11.95	9.01	1.88	2.37	3.70	8.88	4.26	
Number of household members												
1 member	2.99	4.03	3.69	6.14	16.32	10.16	2.05	1.79	4.25	13.17	5.37	
2 members	2.54	2.86	3.07	4.66	10.48	8.17	1.66	1.71	3.44	8.05	3.89	
3 members	3.66	4.20	4.25	7.30	16.39	8.77	2.05	1.97	5.83	11.51	5.16	
4 members	5.11	5.47	5.83	6.74	15.25	11.38	2.55	3.06	3.32	11.88	6.17	
5 members	8.00	8.11	8.95	12.07	30.37	16.45	3.99	5.62	5.88	24.43	8.60	
6 or more members	10.62	10.89	11.68	13.52	32.97	26.28	5.13	6.70	8.84	26.19	15.60	
2020 annual household income												
Less than \$5,000	12.39	13.97	15.36	16.35	42.36	34.19	7.89	10.12	9.34	36.93	14.34	

Relative standard errors (RSEs) for Table CE2.7 Annual household fuel expenditures in the Northeast—totals and averages, 2020

	RSEs for number of housing units										
	Total Northeast ^b	RSEs for total energy expenditures ^a					RSEs for average energy expenditures ^a				
		Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene
All homes	0.00	0.88	1.09	1.86	7.64	4.20	0.88	1.09	1.85	6.07	2.51
\$5,000 to \$9,999	10.11	12.34	13.55	20.40	35.92	31.36	5.98	7.78	14.94	34.70	14.00
\$10,000 to \$19,999	7.27	8.01	8.93	12.75	31.55	15.72	3.38	4.88	7.80	27.21	7.80
\$20,000 to \$39,999	5.04	5.46	6.00	7.64	16.60	11.17	2.57	2.81	5.14	13.10	5.06
\$40,000 to \$59,999	4.76	4.86	5.25	7.66	20.86	12.82	2.40	3.24	5.05	17.85	6.33
\$60,000 to \$99,999	3.55	3.79	3.76	6.64	14.58	8.09	1.66	1.83	4.14	10.19	4.59
\$100,000 to \$149,999	3.99	4.88	5.21	7.51	14.90	10.96	2.60	2.82	5.61	10.73	6.23
\$150,000 or more	3.22	3.72	3.91	5.39	13.27	7.84	2.24	2.54	3.76	9.98	4.72
Payment method for energy bills											
All paid by household	0.77	1.01	1.23	1.64	7.94	4.17	0.88	1.13	1.48	6.23	2.31
Some paid by household, some included in rent or condo fee	5.15	6.59	6.03	12.05	41.84	17.30	4.16	4.37	10.24	37.24	8.84
All included in rent or condo fee	7.09	9.15	9.48	15.59	45.52	28.49	5.37	5.56	12.29	40.85	12.95
Some other method	37.55	37.13	37.22	52.71	70.89	61.85	14.68	10.94	34.04	100.46	134.74
Main heating fuel											
Natural gas	1.51	1.80	1.96	2.12	32.38	31.25	1.36	1.53	1.83	25.79	22.45
Electricity	4.25	5.41	5.36	13.20	19.47	34.24	2.79	2.89	11.31	12.30	23.26
Fuel oil or kerosene	3.90	3.67	3.62	15.21	11.68	4.30	1.55	2.25	10.49	9.24	2.43
Propane	8.29	8.82	8.10	47.82	10.06	0.00	3.51	3.96	28.39	4.71	0.00
Wood	10.55	11.84	11.70	43.72	18.92	25.39	5.21	5.23	19.27	12.83	15.71
Some other fuel ^e	39.10	40.17	39.30	16.20	64.79	84.02	15.35	12.20	0.00	50.82	88.70
Does not use heating equipment	27.39	31.50	32.41	50.88	14.64	77.65	15.20	17.40	43.71	0.00	12.63

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.

^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.