

Table CE3.6 Annual household end-use expenditures in the U.S.—totals and averages, 2015

	Number of housing units (million)	Total energy expenditures ¹ (billion dollars)						Average energy expenditures ¹ (dollars per household using the end use)					
		Total U.S. ²	Total	Space heating ³	Water heating	Air condi- tioning	Refrig- erators	Other ⁴	Total	Space heating ³	Water heating	Air condi- tioning	Refrig- erators
All homes	118.2	219.34	60.74	34.90	27.28	12.07	84.35	1,856	543	296	265	103	714
Census region and division													
Northeast	21.0	47.66	17.56	7.00	3.09	2.49	17.52	2,269	850	335	174	120	834
New England	5.6	14.31	5.74	2.13	0.53	0.69	5.21	2,541	1,046	379	127	124	926
Middle Atlantic	15.4	33.36	11.82	4.87	2.56	1.80	12.31	2,169	779	318	188	118	800
Midwest	26.4	46.42	15.79	6.48	3.60	2.60	17.95	1,760	604	246	148	99	681
East North Central	18.1	31.88	11.03	4.47	2.33	1.81	12.23	1,762	612	247	140	101	676
West North Central	8.3	14.54	4.76	2.01	1.27	0.79	5.72	1,757	587	243	166	96	691
South	44.4	85.19	19.39	14.34	16.52	4.08	30.86	1,917	465	323	392	93	694
South Atlantic	23.5	46.09	10.47	8.06	8.60	2.21	16.76	1,963	488	344	386	95	714
East South Central	7.2	13.72	3.62	2.57	2.05	0.60	4.88	1,907	509	357	304	85	678
West South Central	13.8	25.38	5.30	3.72	5.87	1.26	9.23	1,843	402	270	447	93	670
West	26.4	40.06	7.99	7.08	4.06	2.90	18.03	1,518	344	269	220	110	683
Mountain	8.5	13.94	3.27	2.22	1.80	0.86	5.79	1,638	399	261	272	101	680
Mountain North	4.2	6.74	2.07	1.06	0.32	0.43	2.85	1,586	489	250	107	102	670
Mountain South	4.3	7.20	1.20	1.16	1.47	0.42	2.94	1,688	302	272	412	99	690
Pacific	17.9	26.12	4.72	4.85	2.27	2.04	12.24	1,461	314	272	192	115	685
Census urban/rural classification⁵													
Urban	94.7	167.97	44.36	25.96	22.24	9.63	65.79	1,773	495	274	269	102	694
Urbanized area	82.2	146.57	37.71	22.37	20.04	8.49	57.96	1,782	488	272	279	104	705
Urban cluster	12.5	21.40	6.65	3.58	2.20	1.14	7.82	1,710	540	286	202	92	625
Rural	23.5	51.37	16.38	8.94	5.04	2.44	18.57	2,190	737	382	253	105	791

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All homes	118.2	219.34	60.74	34.90	27.28	12.07	84.35	1,856	543	296	265	103	714
Metropolitan or micropolitan statistical area													
In metropolitan statistical area	98.5	181.34	48.14	28.19	23.54	10.27	71.19	1,840	520	287	274	105	723
In micropolitan statistical area	12.3	22.92	7.57	4.00	2.16	1.11	8.10	1,861	626	325	195	91	657
Not in metropolitan or micropolitan statistical area	7.4	15.08	5.03	2.71	1.58	0.70	5.07	2,050	714	368	270	96	688
Climate region⁶													
Very cold/Cold	42.5	79.60	28.30	11.63	4.34	4.32	31.01	1,874	676	274	120	102	730
Mixed-humid	33.5	69.92	21.71	11.53	8.28	3.39	25.01	2,086	655	345	262	102	746
Mixed-dry/Hot-dry	12.7	18.89	2.35	3.04	3.21	1.49	8.80	1,484	221	240	319	117	692
Hot-humid	22.8	41.06	5.96	6.62	11.25	2.15	15.08	1,800	299	290	525	96	661
Marine	6.7	9.86	2.42	2.07	0.21	0.72	4.44	1,479	392	311	60	109	666
Housing unit type													
Single-family detached	73.9	161.65	47.30	22.25	21.46	8.50	62.13	2,188	664	302	328	116	841
Single-family attached	7.0	11.23	3.27	1.83	1.27	0.67	4.19	1,602	489	261	211	97	597
Apartments in buildings with 2–4 units	9.4	12.48	3.33	2.64	1.01	0.75	4.75	1,329	375	281	136	80	506
Apartments in buildings with 5 or more units	21.1	22.10	3.83	5.36	2.26	1.63	9.02	1,045	203	254	126	78	427
Mobile homes	6.8	11.88	3.00	2.82	1.27	0.53	4.26	1,750	488	415	218	79	628

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All homes	118.2	219.34	60.74	34.90	27.28	12.07	84.35	1,856	543	296	265	103	714
Ownership of housing unit													
Owned	74.5	159.90	46.31	22.20	20.97	8.63	61.78	2,146	650	299	315	117	829
Single-family	66.2	146.21	43.18	19.39	19.34	7.83	56.47	2,208	674	293	326	119	853
Apartments	3.3	4.92	0.92	0.85	0.64	0.40	2.10	1,476	336	257	220	122	630
Mobile homes	5.0	8.77	2.21	1.96	0.99	0.41	3.21	1,768	493	394	227	83	646
Rented ⁷	43.7	59.43	14.42	12.69	6.31	3.44	22.57	1,360	356	291	174	79	516
Single-family	14.7	26.67	7.40	4.69	3.39	1.34	9.84	1,818	533	320	277	92	671
Apartments	27.2	29.66	6.24	7.14	2.64	1.97	11.67	1,090	250	263	117	73	429
Mobile homes	1.8	3.10	0.79	0.86	0.28	0.12	1.05	1,702	475	471	191	68	578
Year of construction													
Before 1950	20.8	39.48	13.82	5.73	3.72	2.00	14.21	1,901	683	277	219	98	684
1950 to 1959	12.6	23.52	7.51	3.39	2.90	1.25	8.46	1,861	622	268	269	100	670
1960 to 1969	12.8	22.50	6.57	3.25	3.08	1.26	8.34	1,756	557	254	288	99	651
1970 to 1979	18.3	32.36	9.32	5.33	4.08	1.80	11.82	1,765	542	291	256	99	645
1980 to 1989	16.0	27.99	6.38	4.75	3.78	1.62	11.45	1,747	430	297	270	102	715
1990 to 1999	16.8	32.57	7.95	5.47	4.26	1.85	13.04	1,937	501	326	284	111	776
2000 to 2009	17.0	34.21	7.68	5.64	4.63	1.94	14.32	2,013	476	333	291	114	843
2010 to 2015	3.8	6.72	1.51	1.33	0.84	0.35	2.70	1,755	415	348	241	91	703

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All homes	118.2	219.34	60.74	34.90	27.28	12.07	84.35	1,856	543	296	265	103	714
Total square footage⁸													
Fewer than 1,000	26.6	29.91	6.33	6.93	2.86	2.01	11.77	1,126	263	261	134	77	443
1,000 to 1,499	26.1	41.01	9.75	8.18	5.18	2.27	15.63	1,569	400	313	229	87	598
1,500 to 1,999	17.5	33.54	9.32	5.27	4.90	1.85	12.19	1,919	567	302	316	107	698
2,000 to 2,499	14.1	29.46	8.56	4.31	3.83	1.60	11.16	2,088	625	306	306	114	791
2,500 to 2,999	10.8	24.65	7.90	3.07	3.04	1.27	9.36	2,282	749	285	314	118	867
3,000 or greater	23.1	60.76	18.87	7.12	7.47	3.07	24.23	2,631	834	310	355	133	1,049
Number of household members													
1 member	28.7	37.91	12.70	4.44	4.75	2.49	13.52	1,319	466	155	198	88	470
2 members	42.7	78.96	22.75	11.07	10.35	4.52	30.27	1,849	564	260	272	106	709
3 members	19.4	39.02	10.45	6.84	4.69	2.04	15.00	2,009	570	352	277	105	773
4 members	15.5	35.27	8.40	6.62	4.27	1.72	14.26	2,274	570	428	313	112	920
5 members	7.2	16.80	3.87	3.50	2.09	0.78	6.56	2,338	572	489	331	109	913
6 or more members	4.6	11.38	2.56	2.43	1.14	0.52	4.73	2,457	595	524	293	112	1,021
2015 annual household income													
Less than \$20,000	22.9	32.47	9.41	6.26	3.64	1.74	11.42	1,421	437	274	198	78	500
\$20,000 to \$39,999	27.3	44.49	12.78	7.67	5.31	2.49	16.24	1,629	502	281	230	92	595
\$40,000 to \$59,999	18.4	32.73	8.97	5.44	4.41	1.78	12.13	1,778	516	296	267	97	659
\$60,000 to \$79,999	15.2	29.55	8.33	4.79	3.48	1.61	11.34	1,940	580	316	258	106	745
\$80,000 to \$99,999	9.7	19.50	5.26	2.90	2.51	1.14	7.68	2,014	567	300	287	118	794
\$100,000 to \$119,999	8.1	17.74	4.95	2.56	2.21	0.97	7.04	2,187	632	316	301	120	868
\$120,000 to \$139,999	5.4	13.00	3.55	1.79	1.77	0.69	5.20	2,396	678	331	360	129	958
\$140,000 or more	11.2	29.87	7.48	3.48	3.97	1.64	13.29	2,669	702	313	382	147	1,188

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All homes	118.2	219.34	60.74	34.90	27.28	12.07	84.35	1,856	543	296	265	103	714
Payment method for energy bills													
All paid by household	105.8	203.80	57.01	31.73	25.68	11.00	78.38	1,927	570	300	278	105	741
Some paid by household, some included in rent or condo fee	6.1	7.44	1.91	1.44	0.69	0.57	2.82	1,220	328	236	137	96	462
All included in rent or condo fee	5.5	6.92	1.51	1.50	0.78	0.44	2.69	1,262	294	276	171	81	491
Some other method	0.9	1.17	0.30	0.23	0.13	0.06	0.46	1,369	376	266	182	69	533
Main heating fuel													
Natural gas	57.7	108.13	29.39	13.20	13.61	6.49	45.43	1,875	510	229	268	113	788
Electricity	40.9	68.43	18.25	14.04	9.64	3.49	23.00	1,672	446	343	262	86	562
Fuel oil/kerosene	5.8	16.94	7.51	2.53	0.96	0.64	5.30	2,919	1,293	435	199	113	914
Propane	5.0	13.26	4.87	1.99	1.03	0.58	4.78	2,645	973	398	238	116	955

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¹Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

²Total 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.

³Includes main (primary) and secondary space heating.

⁴Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the Series 5 tables.

⁵Housing 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.

⁶These 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).

⁷Rented includes households that occupy their primary housing units without paying rent.

⁸Total 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.