

Table CE4.16 Annual household end-use expenditures by fuel in the U.S.—averages, 2015

	Number of housing units (million)		Average energy expenditures ¹ (dollars per household using the fuel and end use)																	
	Total U.S. ²	Total	Electricity					Natural gas				Propane				Fuel oil/kerosene				
			Total	Space heating ³	Water heating	Air conditioning	Refrigerators	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other
All homes	118.2	1,856	1,374	381	381	265	103	677	596	448	197	68	670	658	394	163	1,206	1,073	382	384
Census region and division																				
Northeast	21.0	2,269	1,345	445	461	174	120	780	766	614	229	73	772	986	453	168	1,305	1,161	381	Q
New England	5.6	2,541	1,373	385	473	127	124	869	843	648	277	92	678	954	461	132	1,472	1,363	349	Q
Middle Atlantic	15.4	2,169	1,334	465	456	188	118	748	749	606	218	69	866	1,013	447	206	1,169	1,001	410	Q
Midwest	26.4	1,760	1,194	425	374	148	99	659	661	520	164	41	774	723	324	100	670	724	N	Q
East North Central	18.1	1,762	1,176	435	393	140	101	650	677	533	162	42	889	818	327	126	Q	Q	N	Q
West North Central	8.3	1,757	1,234	407	339	166	96	676	623	489	169	38	633	608	319	67	Q	Q	N	N
South	44.4	1,917	1,630	384	368	392	93	660	549	385	202	90	576	531	400	198	859	775	Q	Q
South Atlantic	23.5	1,963	1,652	377	376	386	95	675	630	441	231	100	627	577	489	272	890	799	Q	Q
East South Central	7.2	1,907	1,641	437	389	304	85	647	551	391	228	114	456	411	399	100	Q	Q	N	N
West South Central	13.8	1,843	1,585	366	336	447	93	640	451	312	163	70	582	587	312	129	Q	Q	N	N
West	26.4	1,518	1,145	291	372	220	110	642	448	285	205	70	626	501	396	140	1,021	698	Q	Q
Mountain	8.5	1,638	1,172	287	348	272	101	646	571	383	207	65	700	472	385	153	N	N	N	N
Mountain North	4.2	1,586	1,017	344	346	107	102	645	635	434	212	50	948	664	Q	Q	N	N	N	N
Mountain South	4.3	1,688	1,326	247	349	412	99	646	484	300	201	78	588	Q	402	126	N	N	N	N
Pacific	17.9	1,461	1,132	293	382	192	115	640	391	225	203	72	577	528	406	131	1,021	698	Q	Q
Census urban/rural classification⁵																				
Urban	94.7	1,773	1,297	322	365	269	102	659	591	444	197	68	557	617	482	201	1,260	1,112	371	Q
Urbanized area	82.2	1,782	1,305	312	363	279	104	668	590	441	198	68	618	714	534	230	1,290	1,134	375	Q
Urban cluster	12.5	1,710	1,243	384	374	202	92	601	598	464	187	61	397	432	328	104	1,123	1,018	351	N
Rural	23.5	2,190	1,682	574	423	253	105	748	653	495	201	76	723	672	366	147	1,101	993	409	Q
Metropolitan or micropolitan statistical area																				
In metropolitan statistical area	98.5	1,840	1,355	352	375	274	105	685	595	445	198	69	739	725	418	171	1,208	1,069	379	396
In micropolitan statistical area	12.3	1,861	1,441	488	397	195	91	628	585	468	177	61	534	526	361	154	1,107	1,055	330	Q
Not in metropolitan or micropolitan statistical area	7.4	2,050	1,509	525	417	270	96	655	638	489	215	50	574	592	303	146	1,283	1,108	422	Q
Climate region⁶																				
Very cold/Cold	42.5	1,874	1,183	398	393	120	102	696	696	539	184	54	741	779	385	125	1,265	1,180	354	Q
Mixed-humid	33.5	2,086	1,559	519	421	262	102	703	672	499	223	79	736	644	435	255	1,135	932	410	Q
Mixed-dry/Hot-dry	12.7	1,484	1,156	194	350	319	117	640	369	190	198	77	532	530	430	127	Q	Q	N	N
Hot-humid	22.8	1,800	1,643	272	329	525	96	636	412	274	177	84	335	311	325	125	Q	Q	N	N
Marine	6.7	1,479	1,151	339	398	60	109	634	459	284	221	59	631	495	384	131	Q	Q	N	Q

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	Total U.S. ²	Total	Electricity					Natural gas					Propane			Fuel oil/kerosene				
			Total	Space heating ³	Water heating	Air conditioning	Refrigerators	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other
All homes	118.2	1,856	1,374	381	381	265	103	677	596	448	197	68	670	658	394	163	1,206	1,073	382	384
Housing unit type																				
Single-family detached	73.9	2,188	1,579	452	397	328	116	797	696	515	206	72	738	712	392	186	1,397	1,297	362	359
Single-family attached	7.0	1,602	1,137	319	350	211	97	563	628	470	190	64	682	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 2-4 units	9.4	1,329	964	304	363	136	80	476	471	326	204	67	481	Q	Q	Q	826	615	Q	N
Apartments in buildings with 5 or more units	21.1	1,045	873	201	317	126	78	410	262	157	157	55	271	Q	Q	Q	600	319	415	N
Mobile homes	6.8	1,750	1,507	444	455	218	79	600	474	364	200	44	438	371	385	91	630	561	Q	Q
Ownership of housing unit																				
Owned	74.5	2,146	1,552	443	393	315	117	784	689	512	200	71	716	689	399	178	1,319	1,220	357	324
Single-family	66.2	2,208	1,578	453	392	326	119	807	704	524	200	71	760	723	397	190	1,405	1,309	355	288
Apartments	3.3	1,476	1,111	204	306	220	122	585	521	356	206	88	Q	Q	Q	N	Q	Q	Q	N
Mobile homes	5.0	1,768	1,506	440	433	227	83	612	478	373	167	48	410	381	435	111	649	574	Q	Q
Rented ⁷	43.7	1,360	1,069	296	365	174	79	493	424	304	192	62	443	467	372	81	906	689	432	Q
Single-family	14.7	1,818	1,372	392	396	277	92	636	619	446	230	76	494	553	359	104	1,365	1,250	Q	Q
Apartments	27.2	1,090	875	232	332	117	73	411	310	201	169	54	356	Q	420	Q	714	438	423	N
Mobile homes	1.8	1,702	1,512	454	514	191	68	568	458	Q	Q	26	521	Q	Q	Q	Q	Q	N	N
Year of construction																				
Before 1950	20.8	1,901	1,213	403	386	219	98	651	661	524	195	52	752	876	410	108	1,272	1,151	396	Q
1950 to 1959	12.6	1,861	1,241	349	382	269	100	632	617	494	185	66	626	834	372	142	1,423	1,266	387	Q
1960 to 1969	12.8	1,756	1,240	402	339	288	99	616	571	439	182	64	604	751	336	146	1,100	960	392	Q
1970 to 1979	18.3	1,765	1,368	455	383	256	99	617	535	402	181	68	630	644	405	108	1,138	1,047	309	Q
1980 to 1989	16.0	1,747	1,404	333	355	270	102	679	497	358	196	74	546	472	415	194	1,057	874	353	Q
1990 to 1999	16.8	1,937	1,518	384	403	284	111	743	620	452	216	64	617	558	425	136	1,035	885	Q	N
2000 to 2009	17.0	2,013	1,593	354	399	291	114	786	624	403	229	103	837	639	395	259	1,132	1,117	441	Q
2010 to 2015	3.8	1,755	1,417	323	402	241	91	671	550	389	209	83	661	595	344	134	Q	Q	Q	N
Total square footage⁸																				
Fewer than 1,000	26.6	1,126	906	248	339	134	77	421	306	207	160	51	380	361	416	121	626	400	403	Q
1,000 to 1,499	26.1	1,569	1,265	340	378	229	87	572	493	346	206	64	468	433	393	92	758	590	483	Q
1,500 to 1,999	17.5	1,919	1,452	415	397	316	107	661	609	438	199	75	601	627	299	126	1,123	1,024	292	Q
2,000 to 2,499	14.1	2,088	1,483	416	393	306	114	748	707	500	209	75	821	767	407	152	1,248	1,070	491	Q
2,500 to 2,999	10.8	2,282	1,567	460	391	314	118	827	756	570	201	66	616	602	376	146	1,565	1,443	388	Q
3,000 or greater	23.1	2,631	1,817	560	425	355	133	988	817	616	216	79	895	841	419	251	1,564	1,492	317	Q

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			Total	Space heating ³	Water heating	Air conditioning	Refrigerators	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other
All homes	118.2	1,856	1,374	381	381	265	103	677	596	448	197	68	670	658	394	163	1,206	1,073	382	384
Number of household members																				
1 member	28.7	1,319	957	330	194	198	88	449	475	418	107	51	473	601	238	93	926	908	187	Q
2 members	42.7	1,849	1,370	402	327	272	106	670	590	460	170	68	666	622	335	178	1,176	1,056	323	Q
3 members	19.4	2,009	1,461	357	468	277	105	731	637	471	232	69	748	731	534	177	1,332	1,172	449	Q
4 members	15.5	2,274	1,701	408	578	313	112	873	677	431	284	80	868	754	629	206	1,405	1,154	621	Q
5 members	7.2	2,338	1,814	439	656	331	109	867	709	482	299	81	1,007	946	548	171	1,124	935	Q	Q
6 or more members	4.6	2,457	1,841	450	719	293	112	976	743	444	349	83	587	550	Q	136	1,807	1,497	Q	N
2015 annual household income																				
Less than \$20,000	22.9	1,421	1,077	357	347	198	78	471	464	357	177	64	456	548	337	93	945	821	338	Q
\$20,000 to \$39,999	27.3	1,629	1,214	354	358	230	92	568	557	440	181	56	573	597	437	122	1,160	1,021	370	Q
\$40,000 to \$59,999	18.4	1,778	1,339	350	375	267	97	633	583	438	189	58	638	603	415	115	1,137	1,001	478	Q
\$60,000 to \$79,999	15.2	1,940	1,440	409	423	258	106	709	598	444	191	76	706	655	340	149	1,257	1,166	342	N
\$80,000 to \$99,999	9.7	2,014	1,477	362	403	287	118	759	641	468	209	65	890	782	376	167	1,248	1,104	353	Q
\$100,000 to \$119,999	8.1	2,187	1,604	417	409	301	120	829	695	487	226	63	660	677	417	162	1,392	1,208	375	N
\$120,000 to \$139,999	5.4	2,396	1,727	463	455	360	129	905	722	527	226	74	748	680	342	179	1,450	1,219	Q	Q
\$140,000 or more	11.2	2,669	1,907	522	421	382	147	1,098	731	525	232	97	994	848	478	355	1,526	1,469	419	Q
Payment method for energy bills																				
All paid by household	105.8	1,927	1,428	391	384	278	105	703	634	472	201	71	697	661	392	169	1,306	1,204	360	384
Some paid by household, some included in rent or condo fee	6.1	1,220	816	263	297	137	96	437	294	222	164	49	401	Q	Q	Q	838	548	434	N
All included in rent or condo fee	5.5	1,262	996	300	393	171	81	473	373	248	173	37	262	Q	Q	Q	Q	Q	Q	N
Some other method	0.9	1,369	1,017	301	306	182	69	505	493	344	198	Q	Q	Q	Q	Q	Q	Q	Q	N
Main heating fuel																				
Natural gas	57.7	1,875	1,211	226	393	268	113	749	662	460	195	58	200	Q	Q	Q	191	158	Q	Q
Electricity	40.9	1,672	1,597	434	361	262	86	532	259	67	205	144	343	211	369	259	365	135	Q	Q
Fuel oil/kerosene	5.8	2,919	1,442	346	495	199	113	852	271	Q	319	144	313	402	Q	184	1,370	1,190	385	Q
Propane	5.0	2,645	1,549	329	417	238	116	910	Q	N	Q	Q	1,088	864	376	86	Q	N	Q	N

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		Electricity						Natural gas				Propane			Fuel oil/kerosene					
		Total U.S. ²	Total	Space heating ³	Water heating	Air conditioning	Refrigerators	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other ⁴	Total	Space heating ³	Water heating	Other
All homes	118.2	1,856	1,374	381	381	265	103	677	596	448	197	68	670	658	394	163	1,206	1,073	382	384

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.