

Table CE4.13 Annual household end-use expenditures by fuel in the Midwest—totals, 2015

	Number of housing units (million)	Total energy expenditures ¹ (billion dollars)																		
		Electricity					Natural gas				Propane			Fuel oil/kerosene						
		Total Mid-west 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	26.4	46.42	31.50	4.38	3.54	3.60	2.60	17.37	13.00	9.90	2.62	0.47	1.78	1.37	0.31	0.10	Q	Q	N	Q
Census division																				
East North Central	18.1	31.88	21.29	2.94	2.43	2.33	1.81	11.77	9.38	7.17	1.82	0.39	1.13	0.84	0.21	0.07	Q	Q	N	Q
West North Central	8.3	14.54	10.21	1.45	1.11	1.27	0.79	5.60	3.62	2.73	0.80	0.09	0.65	0.52	0.10	0.03	Q	Q	N	N
Census urban/rural classification⁵																				
Urban	20.7	34.11	22.38	2.36	2.14	2.74	2.00	13.13	11.45	8.71	2.34	0.40	0.20	0.16	Q	Q	Q	Q	N	Q
Urbanized area	17.2	28.01	18.25	1.94	1.63	2.26	1.65	10.76	9.57	7.28	1.93	0.35	0.11	Q	Q	Q	Q	Q	N	Q
Urban cluster	3.5	6.10	4.12	0.41	0.51	0.48	0.35	2.37	1.88	1.42	0.41	0.05	Q	Q	Q	Q	Q	Q	N	N
Rural	5.6	12.31	9.12	2.03	1.40	0.86	0.60	4.23	1.55	1.20	0.28	0.07	1.58	1.21	0.28	0.09	Q	Q	N	N
Metropolitan or micropolitan statistical area																				
In metropolitan statistical area	21.3	36.65	24.36	2.96	2.34	2.89	2.11	14.05	11.08	8.40	2.27	0.41	1.12	0.84	0.22	0.06	Q	Q	N	Q
In micropolitan statistical area	3.3	6.20	4.45	0.80	0.69	0.41	0.33	2.22	1.40	1.08	0.27	0.05	0.35	0.26	Q	Q	Q	Q	N	N
Not in metropolitan or micropolitan statistical area	1.8	3.57	2.69	0.62	0.51	0.30	0.16	1.10	0.53	0.43	0.08	0.02	0.31	0.27	Q	0.01	Q	Q	N	N
Climate region⁶																				
Very cold/Cold	21.2	35.94	23.80	3.07	2.58	2.34	2.07	13.74	10.69	8.18	2.11	0.41	1.33	1.00	0.27	0.06	Q	Q	N	Q
Mixed-humid	5.2	10.48	7.70	1.31	0.97	1.26	0.53	3.63	2.31	1.72	0.52	0.07	0.45	0.37	Q	0.04	Q	Q	N	N
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Marine	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Housing unit type																				
Single-family detached	18.2	36.86	24.22	2.95	2.19	3.11	1.99	13.98	10.82	8.42	2.05	0.36	1.68	1.31	0.28	0.09	Q	Q	N	Q
Single-family attached	1.3	1.94	1.29	0.16	0.16	0.12	0.12	0.73	0.64	0.49	0.11	0.05	N	N	N	N	N	N	N	N
Apartments in buildings with 2-4 units	2.0	2.30	1.64	0.28	0.26	0.13	0.15	0.82	0.65	0.44	0.18	0.03	Q	Q	Q	N	N	N	N	N
Apartments in buildings with 5 or more units	4.0	3.60	2.92	0.57	0.55	0.16	0.27	1.37	0.66	0.36	0.27	0.04	Q	Q	Q	N	Q	Q	N	N
Mobile homes	1.0	1.72	1.43	0.42	0.39	0.09	0.07	0.47	0.22	0.20	Q	Q	Q	Q	Q	Q	Q	Q	N	N

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	Total Mid-west 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	26.4	46.42	31.50	4.38	3.54	3.60	2.60	17.37	13.00	9.90	2.62	0.47	1.78	1.37	0.31	0.10	Q	Q	N	Q
Ownership of housing unit																				
Owned	17.8	35.49	23.65	3.06	2.19	2.95	1.96	13.48	10.14	7.88	1.89	0.37	1.61	1.24	0.27	0.09	Q	Q	N	Q
Single-family	16.4	33.49	22.12	2.68	1.89	2.85	1.85	12.84	9.69	7.55	1.80	0.34	1.59	1.23	0.27	0.09	Q	Q	N	Q
Apartments	0.6	0.73	0.48	Q	Q	0.05	0.05	0.29	0.25	0.15	0.08	0.02	N	N	N	N	N	N	N	N
Mobile homes	0.8	1.27	1.04	0.32	0.26	0.06	0.06	0.35	0.21	0.19	Q	Q	Q	Q	N	Q	Q	Q	N	N
Rented ⁷	8.6	10.93	7.85	1.32	1.36	0.65	0.64	3.89	2.86	2.02	0.73	0.11	0.17	0.13	Q	Q	Q	Q	N	N
Single-family	3.0	5.31	3.40	0.44	0.46	0.38	0.26	1.86	1.78	1.36	0.36	0.06	Q	Q	Q	Q	Q	Q	N	N
Apartments	5.4	5.18	4.07	0.78	0.77	0.24	0.37	1.91	1.07	0.65	0.37	0.05	Q	Q	Q	N	Q	Q	N	N
Mobile homes	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	N	N
Year of construction																				
Before 1950	6.2	11.48	7.17	0.83	0.77	0.96	0.55	4.06	3.74	2.91	0.69	0.13	0.49	0.42	Q	0.02	Q	Q	N	Q
1950 to 1959	3.3	5.52	3.49	0.33	0.34	0.51	0.32	1.99	1.93	1.49	0.37	0.07	Q	Q	Q	N	Q	Q	N	N
1960 to 1969	3.0	4.75	3.13	0.43	0.26	0.41	0.28	1.75	1.51	1.14	0.33	0.04	0.07	Q	Q	Q	Q	Q	N	N
1970 to 1979	4.0	6.80	4.69	0.82	0.57	0.48	0.37	2.44	1.78	1.36	0.35	0.07	0.33	0.25	Q	Q	Q	N	N	Q
1980 to 1989	2.7	4.58	3.38	0.54	0.48	0.36	0.26	1.74	1.04	0.80	0.20	0.04	0.15	Q	Q	Q	Q	Q	N	N
1990 to 1999	3.5	6.54	4.67	0.70	0.51	0.43	0.40	2.63	1.45	1.08	0.32	0.06	0.42	0.29	0.11	0.01	N	N	N	N
2000 to 2009	3.1	5.64	4.09	0.57	0.46	0.38	0.36	2.32	1.38	0.98	0.33	0.06	0.17	Q	Q	Q	Q	Q	N	N
2010 to 2015	0.6	1.11	0.88	0.17	0.15	0.05	0.07	0.44	0.18	0.14	0.04	Q	Q	Q	Q	Q	N	N	N	N
Total square footage⁸																				
Fewer than 1,000	5.1	5.29	3.95	0.73	0.67	0.25	0.36	1.94	1.22	0.80	0.37	0.05	Q	Q	Q	Q	Q	Q	N	N
1,000 to 1,499	4.0	5.78	4.29	0.92	0.73	0.36	0.32	1.96	1.40	1.02	0.32	0.06	0.09	Q	Q	Q	Q	Q	N	Q
1,500 to 1,999	3.4	6.48	4.41	0.70	0.57	0.47	0.36	2.31	1.84	1.39	0.36	0.10	0.23	0.18	Q	Q	N	N	N	N
2,000 to 2,499	3.7	7.03	4.46	0.37	0.46	0.56	0.39	2.67	2.13	1.67	0.39	0.07	0.43	0.36	Q	Q	Q	Q	N	Q
2,500 to 2,999	3.1	6.09	3.97	0.44	0.32	0.55	0.34	2.32	1.82	1.43	0.35	0.05	0.20	0.14	Q	Q	Q	Q	N	N
3,000 or greater	6.9	15.75	10.43	1.22	0.81	1.41	0.83	6.16	4.59	3.60	0.84	0.15	0.72	0.55	0.12	0.05	Q	Q	N	N
Number of household members																				
1 member	6.9	8.80	5.73	1.11	0.54	0.64	0.56	2.88	2.91	2.45	0.37	0.09	0.15	0.12	Q	Q	Q	Q	N	N
2 members	9.7	17.44	12.01	1.85	1.20	1.43	1.00	6.53	4.55	3.55	0.84	0.15	0.78	0.63	0.10	0.05	Q	Q	N	Q
3 members	3.9	7.53	4.97	0.52	0.57	0.57	0.41	2.91	2.22	1.62	0.50	0.10	0.35	0.25	Q	Q	Q	Q	N	N
4 members	3.4	7.01	4.82	0.50	0.64	0.53	0.36	2.78	1.94	1.35	0.51	0.08	0.25	0.19	Q	Q	Q	Q	N	N
5 members	1.5	3.48	2.45	0.23	0.41	0.28	0.17	1.36	0.78	0.55	0.20	0.02	Q	Q	Q	Q	Q	Q	N	N
6 or more members	1.0	2.17	1.51	0.17	0.19	0.14	0.09	0.91	0.60	0.38	0.20	0.03	Q	Q	Q	Q	N	N	N	N

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All homes	26.4	46.42	31.50	4.38	3.54	3.60	2.60	17.37	13.00	9.90	2.62	0.47	1.78	1.37	0.31	0.10	Q	Q	N	Q	
2015 annual household income																					
Less than \$20,000	4.6	6.02	4.27	0.91	0.64	0.34	0.34	2.05	1.63	1.19	0.35	0.09	0.11	Q	Q	Q	Q	Q	N	N	
\$20,000 to \$39,999	6.6	10.34	6.87	0.96	0.89	0.79	0.61	3.62	3.13	2.47	0.56	0.10	0.34	0.26	0.06	0.01	Q	Q	N	N	
\$40,000 to \$59,999	4.2	7.06	4.77	0.75	0.56	0.55	0.38	2.53	1.89	1.45	0.38	0.06	0.35	0.28	0.06	Q	Q	Q	N	N	
\$60,000 to \$79,999	3.9	7.36	4.97	0.63	0.54	0.59	0.38	2.84	2.00	1.51	0.41	0.08	0.32	0.24	0.06	Q	Q	Q	N	N	
\$80,000 to \$99,999	2.3	4.68	3.11	0.32	0.34	0.38	0.27	1.79	1.29	1.00	0.25	0.03	Q	0.20	Q	Q	Q	Q	N	Q	
\$100,000 to \$119,999	1.6	3.52	2.44	0.28	0.24	0.28	0.19	1.45	0.86	0.62	0.20	0.04	Q	Q	Q	Q	Q	Q	N	N	
\$120,000 to \$139,999	1.2	2.86	2.01	0.27	0.11	0.26	0.16	1.20	0.76	0.56	0.18	0.02	Q	Q	Q	Q	N	N	N	N	
\$140,000 or more	1.9	4.58	3.05	0.27	0.21	0.41	0.26	1.89	1.44	1.09	0.30	0.05	Q	Q	Q	Q	N	N	N	N	
Payment method for energy bills																					
All paid by household	24.0	44.09	29.89	4.14	3.32	3.48	2.43	16.52	12.34	9.48	2.42	0.45	1.75	1.36	0.30	0.10	Q	Q	N	Q	
Some paid by household, some included in rent or condo fee	1.5	1.36	0.93	0.13	0.12	0.08	0.11	0.49	0.36	0.24	0.11	0.01	Q	Q	Q	N	Q	Q	N	N	
All included in rent or condo fee	0.7	0.77	0.54	0.10	0.10	0.03	0.05	0.26	0.23	0.14	0.08	Q	N	N	N	N	N	N	N	N	
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	N	N	N	N	
Main heating fuel																					
Natural gas	18.7	32.93	20.12	0.97	1.33	2.83	1.93	13.07	12.79	9.86	2.53	0.41	Q	Q	N	Q	Q	Q	N	Q	
Electricity	5.4	8.20	7.93	3.21	1.58	0.37	0.42	2.35	0.16	0.03	0.07	0.06	0.10	0.04	Q	Q	N	N	N	N	
Fuel oil/kerosene	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	Q	N	Q	Q	Q	Q	Q	Q	N	Q	
Propane	1.5	4.03	2.47	0.17	0.40	0.29	0.19	1.42	N	N	N	N	1.56	1.28	0.24	0.04	N	N	N	N	

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

²Total Midwest includes all primary occupied housing units in the Midwest Census Region. 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.