

Data release date: June 2023

Revised data release date: March 2024

**Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020**

	Number of housing units (million)	Average site energy consumption <sup>a</sup> (million Btu per household using the fuel and end use)																		
		Electricity						Natural gas					Propane			Fuel oil or kerosene				
		Total Mid-west <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	27.04	96.9	33.3	10.6	9.4	5.2	2.9	17.7	76.1	62.9	17.0	4.1	62.8	56.8	17.2	7.7	62.1	59.8	Q	Q
<b>Census division</b>																				
East North Central	18.55	98.3	31.9	10.0	9.1	4.9	2.8	17.3	78.0	65.1	16.9	4.1	66.6	59.8	16.9	7.9	59.8	56.9	Q	Q
West North Central	8.50	93.7	36.5	11.8	9.8	5.9	3.0	18.5	71.5	57.6	17.4	3.8	57.1	52.2	17.7	7.3	77.3	76.9	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	20.77	94.9	30.4	8.6	8.0	5.2	2.7	16.6	76.2	62.4	17.0	3.9	38.9	35.0	15.2	11.3	36.4	35.5	Q	N
Urbanized area	17.20	96.2	29.8	7.9	7.9	5.3	2.8	16.6	77.0	62.9	17.2	3.9	49.6	48.7	Q	Q	37.2	36.3	Q	N
Urban cluster	3.57	88.9	33.4	11.4	8.7	5.0	2.6	16.9	71.6	59.5	15.6	3.9	27.1	21.5	Q	Q	Q	Q	N	N
Rural	6.28	103.3	43.0	17.1	11.8	5.1	3.2	21.1	75.5	66.3	17.4	5.0	64.8	58.4	17.3	7.4	77.8	72.8	Q	Q
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	22.09	98.6	31.8	10.3	9.2	4.6	2.8	17.3	78.1	64.6	17.1	4.2	66.0	60.2	17.0	7.8	62.2	61.1	Q	Q
Mixed-humid	4.96	89.0	40.4	11.7	9.9	7.9	3.1	19.2	65.8	53.7	16.6	3.5	48.5	41.3	17.8	7.2	Q	Q	N	Q
Mixed-dry and 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
<b>Housing unit type</b>																				
Single-family detached	18.58	115.4	38.2	11.9	11.2	6.1	3.2	21.1	86.6	71.1	17.4	4.4	66.1	59.9	17.5	7.8	70.5	67.2	Q	Q
Single-family attached	1.33	84.9	27.4	10.2	7.3	4.2	2.6	14.9	66.3	51.9	15.8	3.7	55.0	35.9	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	1.95	64.1	21.7	9.2	6.2	3.5	2.0	9.4	60.3	49.4	18.4	4.0	N	N	N	N	Q	Q	Q	N
Apartments in buildings with 5 or more units	4.20	39.0	18.9	6.9	5.8	2.5	1.8	7.8	32.3	23.9	14.7	2.5	15.4	10.8	Q	Q	Q	Q	Q	N
Mobile homes	0.97	75.3	34.5	11.9	10.1	4.0	2.3	15.4	59.9	51.5	16.3	2.2	47.6	43.5	13.7	2.6	Q	Q	Q	N
<b>Ownership of housing unit</b>																				
Owned	19.48	111.1	37.0	12.0	10.6	5.7	3.2	20.3	83.9	68.8	17.2	4.2	65.2	58.4	17.1	7.9	67.4	62.6	Q	Q
Single-family	17.73	115.1	37.9	12.2	10.9	5.9	3.3	21.1	86.2	70.5	17.2	4.4	66.9	59.9	17.3	8.4	68.7	63.9	Q	Q
Apartments	0.94	65.6	21.1	9.9	5.2	3.2	2.4	9.0	55.9	45.1	16.7	2.6	Q	Q	N	N	N	N	N	N
Mobile homes	0.81	75.1	35.2	12.3	10.5	4.1	2.4	15.5	58.2	49.3	16.6	2.4	46.7	42.4	13.7	2.7	Q	Q	N	N
Rented <sup>g</sup>	7.56	60.2	23.9	7.9	7.3	3.7	2.0	10.9	52.1	42.6	16.5	3.3	44.4	44.3	18.3	4.9	45.2	48.0	Q	N
Single-family	2.19	98.8	34.0	9.7	11.3	6.1	2.5	17.1	76.7	62.3	17.7	3.6	55.2	55.5	Q	3.9	Q	Q	Q	N
Apartments	5.22	43.6	19.5	7.2	6.0	2.7	1.8	8.2	38.7	29.7	16.0	3.3	15.1	9.9	Q	Q	Q	Q	Q	N
Mobile homes	0.16	76.4	31.3	9.8	8.5	3.7	1.7	14.6	66.9	60.5	Q	1.6	Q	Q	N	Q	N	N	N	N
<b>Year of construction</b>																				
Before 1950	6.11	109.9	32.3	9.6	9.5	5.9	2.7	17.1	85.6	74.8	16.1	3.6	67.1	63.7	14.9	5.8	79.4	71.4	Q	Q
1950 to 1959	3.18	104.3	31.2	8.3	9.2	5.7	2.8	17.2	80.9	67.1	15.8	3.4	76.4	66.8	16.2	9.6	Q	Q	Q	Q
1960 to 1969	2.90	95.3	29.0	9.0	7.7	4.9	2.7	15.5	76.7	62.7	16.4	3.5	70.7	70.0	17.9	17.3	Q	Q	Q	N
1970 to 1979	4.05	92.1	34.1	13.7	9.2	5.1	2.8	16.7	70.3	57.8	16.8	4.6	78.8	74.1	17.1	3.2	50.3	47.8	Q	N
1980 to 1989	2.71	79.1	32.2	12.3	7.8	4.7	2.7	15.5	66.8	55.1	16.4	4.0	51.6	43.8	19.5	8.9	Q	Q	Q	Q
1990 to 1999	3.56	99.5	36.9	11.0	10.8	5.0	3.2	21.6	75.2	57.8	18.0	4.8	58.1	48.8	16.9	5.6	Q	Q	N	Q
2000 to 2009	2.95	93.5	36.5	9.8	10.3	4.9	3.2	20.2	72.3	55.7	20.3	5.7	50.3	43.5	22.7	9.5	Q	Q	N	N



**Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020**

	Number of housing units (million)	Average site energy consumption <sup>a</sup> (million Btu per household using the fuel and end use)																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total Mid-west <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	27.04	96.9	33.3	10.6	9.4	5.2	2.9	17.7	76.1	62.9	17.0	4.1	62.8	56.8	17.2	7.7	62.1	59.8	Q	Q

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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

<sup>a</sup> 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.

<sup>b</sup> Total 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.

<sup>c</sup> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CES tables.

<sup>e</sup> 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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</sup> 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 and Cold.

<sup>g</sup> Rented includes households that occupy their primary housing units without paying rent.

<sup>h</sup> 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.

<sup>i</sup> 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.

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	Number of housing units (million)	Average site energy consumption <sup>a</sup>																	
		Electricity (kWh per household using the end use)						Natural gas (ccf per household using the end use)				Propane (gallons per household using the end use)				Fuel oil or kerosene (gallons per household using the end use)			
		Total Mid- west <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refriger- ators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating
<b>All homes</b>	27.04	9,773	3,109	2,741	1,522	836	5,179	747	617	167	40	686	621	188	84	452	435	Q	Q
<b>Census division</b>																			
East North Central	18.55	9,345	2,919	2,673	1,425	823	5,074	763	636	165	40	729	654	185	87	435	414	Q	Q
West North Central	8.50	10,705	3,472	2,870	1,728	866	5,410	708	570	172	38	624	571	193	79	562	560	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																			
Urban	20.77	8,917	2,522	2,358	1,527	804	4,879	747	611	166	38	426	383	166	123	265	259	Q	N
Urbanized area	17.20	8,733	2,313	2,305	1,540	811	4,865	755	616	169	38	543	532	Q	Q	271	264	Q	N
Urban cluster	3.57	9,802	3,344	2,538	1,463	772	4,949	705	585	153	39	296	235	Q	Q	Q	Q	N	N
Rural	6.28	12,602	4,999	3,445	1,504	942	6,171	743	652	172	49	709	639	189	81	566	530	Q	Q
<b>Climate region<sup>f</sup></b>																			
Very cold and Cold	22.09	9,309	3,018	2,697	1,336	821	5,080	764	632	167	41	722	658	186	85	453	445	Q	Q
Mixed-humid	4.96	11,841	3,425	2,895	2,326	904	5,623	657	536	166	35	530	451	195	78	Q	Q	N	Q
Mixed-dry and Hot-dry	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
Marine	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
<b>Housing unit type</b>																			
Single-family detached	18.58	11,196	3,498	3,288	1,782	946	6,176	850	697	170	43	722	655	191	85	513	489	Q	Q
Single-family attached	1.33	8,024	2,987	2,148	1,224	767	4,379	650	509	155	37	601	392	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	1.95	6,372	2,710	1,829	1,032	593	2,764	592	484	180	39	N	N	N	N	Q	Q	Q	N
Apartments in buildings with 5 or more units	4.20	5,529	2,014	1,693	735	519	2,301	316	234	144	25	168	118	Q	Q	Q	Q	Q	N
Mobile homes	0.97	10,122	3,500	2,961	1,184	670	4,506	587	504	160	22	520	476	149	28	Q	Q	N	N
<b>Ownership of housing unit</b>																			
Owned	19.48	10,841	3,523	3,099	1,678	937	5,945	824	676	168	42	713	638	187	87	490	456	Q	Q
Single-family	17.73	11,111	3,561	3,198	1,741	960	6,184	846	692	169	43	732	655	190	92	500	465	Q	Q
Apartments	0.94	6,197	2,891	1,532	924	697	2,624	550	444	164	26	Q	Q	N	N	N	N	N	N
Mobile homes	0.81	10,308	3,611	3,076	1,200	704	4,551	569	482	162	23	511	464	149	30	Q	Q	N	N
Rented <sup>g</sup>	7.56	7,019	2,320	2,151	1,084	575	3,207	510	417	162	33	486	485	201	54	329	349	Q	N
Single-family	2.19	9,950	2,848	3,319	1,774	725	5,018	749	609	173	35	604	607	Q	43	Q	Q	Q	N
Apartments	5.22	5,724	2,115	1,752	805	514	2,416	379	291	156	33	165	108	Q	Q	Q	Q	Q	N

**Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020**

	Number of housing units (million)	Average site energy consumption <sup>a</sup>																	
		Electricity (kWh per household using the end use)						Natural gas (ccf per household using the end use)				Propane (gallons per household using the end use)				Fuel oil or kerosene (gallons per household using the end use)			
		Total Mid-west <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	27.04	9,773	3,109	2,741	1,522	836	5,179	747	617	167	40	686	621	188	84	452	435	Q	Q
Mobile homes	0.16	9,171	2,869	2,501	1,097	494	4,278	662	598	Q	16	Q	Q	N	Q	N	N	N	N
<b>Year of construction</b>																			
Before 1950	6.11	9,468	2,809	2,780	1,727	794	5,003	838	733	158	36	734	697	162	64	578	520	Q	Q
1950 to 1959	3.18	9,138	2,440	2,692	1,674	817	5,027	794	659	155	33	835	730	177	105	Q	Q	Q	Q
1960 to 1969	2.90	8,503	2,639	2,242	1,436	791	4,533	752	615	161	35	773	766	195	189	Q	Q	Q	N
1970 to 1979	4.05	9,984	4,026	2,702	1,493	810	4,891	689	567	165	45	862	810	187	35	366	348	Q	N
1980 to 1989	2.71	9,428	3,607	2,297	1,376	779	4,544	656	541	161	40	565	479	214	97	Q	Q	Q	Q
1990 to 1999	3.56	10,828	3,236	3,172	1,474	947	6,316	739	568	177	47	636	534	185	61	Q	Q	N	Q
2000 to 2009	2.95	10,702	2,882	3,015	1,423	946	5,927	710	547	199	56	550	476	248	104	Q	Q	N	N
2010 to 2015	0.86	11,472	3,254	3,011	1,440	907	5,706	617	510	173	46	451	365	Q	164	Q	Q	Q	N
2016 to 2020	0.73	9,311	3,121	3,004	1,082	743	4,649	536	446	194	22	306	194	186	36	Q	Q	Q	N
<b>Total square footage<sup>h</sup></b>																			
Less than 1,000	5.29	6,156	2,116	1,792	811	545	2,847	445	347	154	25	455	394	154	Q	Q	Q	Q	N
1,000 to 1,499	5.28	8,168	2,602	2,645	1,243	705	4,089	632	523	163	33	516	453	186	96	Q	Q	Q	Q
1,500 to 1,999	4.73	9,788	3,011	2,927	1,627	818	5,128	731	606	158	33	594	525	175	70	348	312	Q	Q
2,000 to 2,499	3.79	10,735	3,408	3,163	1,713	913	5,789	816	671	157	44	745	688	196	72	452	Q	Q	Q
2,500 to 2,999	2.92	10,886	3,455	2,928	1,726	981	6,173	845	688	164	49	767	716	176	43	Q	Q	Q	Q
3,000 or more	5.03	13,876	5,125	3,915	2,142	1,153	7,791	1,026	845	198	55	830	752	204	110	Q	Q	N	Q
<b>Number of household members</b>																			
1 member	7.74	6,664	2,740	1,396	1,023	667	3,310	609	524	123	30	643	608	139	54	503	501	Q	Q
2 members	10.41	9,895	3,265	2,663	1,490	881	5,364	768	643	159	42	669	603	174	67	511	484	Q	Q
3 members	3.62	11,907	3,120	3,917	1,936	914	6,276	798	643	187	43	753	666	211	164	Q	Q	Q	Q
4 members	3.08	12,082	3,452	4,120	1,919	938	6,536	853	667	218	44	789	651	285	122	Q	Q	Q	N
5 members	1.36	13,087	3,382	4,201	2,236	872	6,762	830	669	228	45	653	613	Q	Q	Q	Q	N	N
6 or more members	0.83	13,892	2,946	5,150	2,127	1,060	7,872	900	684	263	43	679	708	Q	Q	Q	Q	N	N
<b>2020 annual household income</b>																			
Less than \$5,000	1.01	8,582	3,084	2,764	1,169	590	4,349	633	532	164	22	Q	Q	Q	Q	Q	Q	N	N
\$5,000 to \$9,999	0.92	7,388	2,274	2,293	1,108	613	3,657	607	494	177	33	319	Q	Q	Q	Q	Q	Q	N
\$10,000 to \$19,999	2.31	7,367	2,884	1,965	1,116	643	3,329	618	501	150	30	583	571	Q	23	Q	Q	Q	N
\$20,000 to \$39,999	5.27	8,502	3,092	2,409	1,330	714	4,203	655	559	149	34	689	647	180	62	523	536	Q	N
\$40,000 to \$59,999	4.28	8,712	2,965	2,632	1,339	778	4,538	679	566	147	31	652	622	163	63	Q	Q	N	N
\$60,000 to \$99,999	6.42	10,062	2,949	3,165	1,551	847	5,356	748	616	170	40	710	614	204	105	639	533	Q	Q
\$100,000 to \$149,999	3.71	11,399	3,625	2,784	1,764	1,000	6,278	831	679	178	45	695	621	196	86	Q	Q	N	Q



**Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020**

	Number of housing units (million)	Average site energy consumption <sup>a</sup>																	
		Electricity (kWh per household using the end use)						Natural gas (ccf per household using the end use)				Propane (gallons per household using the end use)				Fuel oil or kerosene (gallons per household using the end use)			
		Total Mid- west <sup>b</sup>	Space heating <sup>c</sup>	Water heating	Air condi- tioning	Refrig- erators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>
<b>All homes</b>	27.04	9,773	3,109	2,741	1,522	836	5,179	747	617	167	40	686	621	188	84	452	435	Q	Q

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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.

kWh = kilowatthours

ccf = hundred cubic feet

<sup>a</sup> 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.

<sup>b</sup> Total 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.

<sup>c</sup> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

<sup>e</sup> 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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

<sup>f</sup> 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 and Cold.

<sup>g</sup> Rented includes households that occupy their primary housing units without paying rent.

<sup>h</sup> 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.

<sup>i</sup> 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: June 2023  
 Revised data release date: March 2024

**Relative standard errors (RSEs) for Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020**

	RSEs for average site energy consumption <sup>a</sup>																				
	RSEs for number of housing units	Electricity							Natural gas				Propane			Fuel oil or kerosene					
		Total Mid-west <sup>b</sup>	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
<b>All homes</b>	0.00	0.90	1.02	3.91	2.59	1.42	0.84	1.14	1.13	1.18	1.21	5.22	3.62	3.80	2.79	12.73	11.23	11.62	29.84	18.91	
<b>Census division</b>																					
East North Central	0.00	1.13	1.34	5.70	3.40	1.67	1.00	1.59	1.53	1.56	1.54	6.10	5.31	5.51	3.62	16.26	13.17	13.87	30.29	18.91	
West North Central	0.00	1.29	1.33	4.73	3.26	2.02	1.28	1.60	1.73	1.87	1.44	10.01	4.87	5.25	3.90	17.80	13.91	13.95	0.00	0.00	
<b>Census urban/rural classification<sup>e</sup></b>																					
Urban	0.97	1.14	1.13	4.26	3.34	1.77	1.01	1.35	1.15	1.26	1.21	4.99	21.70	25.49	7.58	34.31	14.75	17.33	36.58	0.00	
Urbanized area	1.23	1.30	1.35	4.70	4.22	2.09	1.19	1.65	1.33	1.45	1.42	5.39	27.27	26.04	8.54	49.87	15.44	18.75	36.58	0.00	
Urban cluster	4.97	2.72	3.11	8.97	5.74	3.43	2.17	3.06	3.39	3.43	2.99	13.25	31.51	40.95	0.73	43.67	162.59	162.59	0.00	0.00	
Rural	3.21	1.69	2.18	7.06	3.53	2.51	1.87	2.08	3.91	3.79	3.24	16.50	3.59	3.72	2.99	13.43	10.72	11.41	68.69	18.91	
<b>Climate region<sup>f</sup></b>																					
Very cold and Cold	0.49	0.97	1.21	4.86	2.78	1.59	0.95	1.20	1.26	1.30	1.39	5.59	3.90	3.97	3.11	14.16	11.71	11.62	29.84	30.80	
Mixed-humid	2.18	2.21	2.34	6.45	4.63	2.70	2.31	2.96	2.68	2.72	3.19	13.59	9.35	10.25	7.02	23.81	0.00	0.00	0.00	0.00	
Mixed-dry and Hot-dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Housing unit type</b>																					
Single-family detached	0.00	0.88	1.11	4.95	2.67	1.64	0.97	1.21	1.06	1.12	1.26	5.80	3.61	3.85	2.96	14.04	10.43	10.78	31.67	18.91	
Single-family attached	0.00	2.19	3.33	11.66	9.60	5.06	3.13	4.45	2.54	2.96	3.93	15.06	24.31	26.06	13.93	55.13	135.19	131.09	0.00	0.00	
Apartments in buildings with 2–4 units	0.00	4.38	4.40	9.83	10.48	7.94	5.16	5.58	6.01	6.98	5.06	25.10	0.00	0.00	0.00	0.00	66.50	58.70	0.00	0.00	
Apartments in buildings with 5 or more units	0.00	3.69	3.92	9.98	6.51	4.17	2.22	4.20	5.16	5.93	4.64	13.43	18.82	16.19	6.34	3.75	14.28	37.65	75.15	0.00	
Mobile homes	0.00	4.33	4.81	12.53	6.60	6.82	3.96	5.07	8.15	6.82	10.38	13.78	10.50	12.11	7.59	31.71	182.83	182.83	0.00	0.00	
<b>Ownership of housing unit</b>																					
Owned	0.87	0.98	1.22	5.04	2.81	1.61	0.95	1.21	1.20	1.30	1.30	5.31	3.70	4.00	2.94	13.30	12.03	12.51	63.36	18.91	
Single-family	0.60	0.93	1.24	5.35	2.87	1.67	1.01	1.19	1.16	1.24	1.34	5.71	3.87	4.20	3.03	13.55	11.96	12.49	63.36	18.91	
Apartments	11.27	7.21	7.91	21.45	12.47	7.71	6.30	7.19	8.73	9.14	7.79	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Mobile homes	4.59	4.46	5.83	13.27	7.76	7.80	4.26	6.00	9.23	6.85	11.74	14.76	11.33	13.01	7.59	34.12	182.83	182.83	0.00	0.00	
Rented <sup>g</sup>	2.25	2.12	2.47	5.61	4.97	3.23	1.94	2.87	3.23	3.73	3.11	12.05	11.63	12.08	6.23	28.65	27.64	36.54	41.46	0.00	
Single-family	4.85	2.72	3.03	9.75	6.08	4.73	3.69	4.00	3.43	3.73	3.98	12.86	11.06	11.71	9.17	30.87	44.05	37.83	43.27	0.00	
Apartments	2.02	3.02	3.24	6.81	6.48	4.29	2.02	3.85	4.33	4.71	4.25	18.81	20.96	16.46	6.34	3.75	27.48	33.61	41.93	0.00	
Mobile homes	23.49	14.61	10.29	45.35	21.11	14.69	8.76	12.40	17.74	19.33	14.33	37.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Year of construction</b>																					
Before 1950	0.00	2.25	2.44	7.73	5.75	3.47	2.00	2.83	2.97	2.97	2.57	7.24	7.63	8.16	4.45	25.32	13.93	19.41	0.00	13.21	
1950 to 1959	0.00	2.89	3.03	11.81	9.89	4.51	2.66	4.10	2.74	2.59	3.35	15.06	12.18	13.79	10.09	35.45	25.10	22.41	0.00	0.00	
1960 to 1969	0.00	2.88	3.73	11.78	6.61	4.34	3.29	3.92	3.00	3.16	2.51	8.44	11.54	11.68	9.06	42.75	32.68	34.51	11.33	0.00	
1970 to 1979	0.00	2.41	2.92	8.26	6.46	3.31	2.24	2.78	2.74	2.88	3.58	16.92	6.41	6.42	6.51	18.77	35.68	39.56	111.64	0.00	
1980 to 1989	0.00	3.83	3.81	10.49	7.03	5.13	3.71	3.73	4.74	4.43	3.79	14.55	12.70	14.86	14.40	46.98	34.63	33.79	0.00	0.00	





Relative standard errors (RSEs) for Table CE4.8 Annual household site end-use consumption by fuel in the Midwest—averages, 2020

	RSEs for average site energy consumption <sup>a</sup>																				
	Total Mid-west <sup>b</sup>	Electricity							Natural gas				Propane			Fuel oil or kerosene					
		Total	Total	Space heating <sup>c</sup>	Water heating	Air conditioning	Refrigerators	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	Total	Space heating <sup>c</sup>	Water heating	Other <sup>d</sup>	
<b>All homes</b>	0.00	0.90	1.02	3.91	2.59	1.42	0.84	1.14	1.13	1.18	1.21	5.22	3.62	3.80	2.79	12.73	11.23	11.62	29.84	18.91	
Does not use heating equipment	32.69	19.64	35.23	0.00	31.49	34.16	9.43	38.92	17.57	0.00	37.20	79.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency 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.

<sup>a</sup> 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.

<sup>b</sup> Total 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.

<sup>c</sup> Includes main (primary) and secondary space heating.

<sup>d</sup> Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

<sup>e</sup> 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. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

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