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

Number of

housing

units Average site energy consumption^a

(million) (million Btu per household using the fuel and end use)

		E	lectricity	1				N	latural ga	ıs		P	ropane			F	uel oil or	kerosene		
	Total Mid- west ^b	Tota!	Tot-1	Space heating ^c		Air condi	Refrig- erators	Other ^d	Tatel	Space heating ^c	Water	Other ^d	Total	Space heating ^c	Water	Other ^d	Tota!	Space heating ^c	Water	Other ^d
	west	Total	iotai	neating	heating	tioning	erators	Other	iotai	neating	heating	Otner	rotai	neating	heating	Otner	rotai	neating	heating	Otner
All homes	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
Census division																				
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
Census urban/rural classification ^e																				
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
Climate region ^f																				
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
Housing unit type																				
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	N	N
Ownership of housing unit																				
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 ^g	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		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
Year of construction																				
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 Average site energy consumption^a

(million) (million Btu per household using the fuel and end use)

		Е	lectricity	<i>'</i>					Natural ga	ıs		P	ropane			F	uel oil or	kerosene		
	Total																			
	Mid-			Space		Air condi	Refrig-	d		Space	Water	d		Space	Water	d		Space	Water	d
	west ^b	Total	Total	heating ^c	heating	tioning	erators	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other
All homes	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
2010 to 2015	0.86	80.9	39.1	11.1	10.3	4.9	3.1	19.5	62.8	51.9	17.5	4.6	41.2	33.4	Q	15.0	Q	Q	Q	N
2016 to 2020	0.73	73.7	31.8	10.7	10.3	3.7	2.5	15.9	54.5	45.3	19.7	2.2	27.9	17.7	17.0	3.3	Q	Q	Q	N
Total square footage ^h																				
Less than 1,000	5.29	51.8	21.0	7.2	6.1	2.8	1.9	9.7	45.4	35.4	15.7	2.5	41.6	36.1	14.1	Q	Q	Q	Q	N
1,000 to 1,499	5.28	79.9	27.9	8.9	9.0	4.2	2.4	14.0	64.5	53.4	16.7	3.4	47.2	41.4	17.0	8.8	Q	Q	Q	Q
1,500 to 1,999	4.73	97.8	33.4	10.3	10.0	5.6	2.8	17.5	74.6	61.9	16.1	3.3	54.3	48.0	16.0	6.4	47.9	42.9	Q	Q
2,000 to 2,499	3.79	110.3	36.6	11.6	10.8	5.8	3.1	19.8	83.1	68.4	16.0	4.5	68.1	62.9	17.9	6.6	62.1	Q	Q	Q
2,500 to 2,999	2.92	115.4	37.1	11.8	10.0	5.9	3.3	21.1	86.2	70.2	16.7	5.0	70.2	65.5	16.1	4.0	Q	Q	Q	Q
3,000 or more	5.03	140.3	47.3	17.5	13.4	7.3	3.9	26.6	104.5	86.1	20.1	5.6	75.9	68.7	18.6	10.1	Q	Q	N	Q
Number of household members																				
1 member	7.74	72.3	22.7	9.3	4.8	3.5	2.3	11.3	62.0	53.3	12.5	3.1	58.8	55.6	12.7	5.0	69.1	68.8	Q	Q
2 members	10.41	100.6	33.8	11.1	9.1	5.1	3.0	18.3	78.3	65.6	16.2	4.3	61.2	55.1	15.9	6.1	70.2	66.4	Q	Q
3 members	3.62	108.0	40.6	10.6	13.4	6.6	3.1	21.4	81.5	65.7	19.1	4.4	68.9	60.9	19.3	15.0	Q	Q	Q	Q
4 members	3.08	115.8	41.2	11.8	14.1	6.5	3.2	22.3	86.9	67.9	22.2	4.4	72.2	59.6	26.1	11.2	Q	Q	Q	N
5 members	1.36	114.8	44.7	11.5	14.3	7.6	3.0	23.1	84.6	68.1	23.2	4.6	59.7	56.1	Q	Q	Q	Q	N	N
6 or more members	0.83	129.9	47.4	10.1	17.6	7.3	3.6	26.9	91.8	69.7	26.8	4.4	62.1	64.7	Q	Q	Q	Q	N	N
2020 annual household income																				
Less than \$5,000	1.01	75.2	29.3	10.5	9.4	4.0	2.0	14.8	64.6	54.3	16.7	2.3	Q	Q	Q	Q	Q	Q	N	N
\$5,000 to \$9,999	0.92	67.4	25.2	7.8	7.8	3.8	2.1	12.5	61.9	50.4	18.0	3.3	29.1	Q	Q	Q	Q	Q	Q	N
\$10,000 to \$19,999	2.31	69.1	25.1	9.8	6.7	3.8	2.2	11.4	63.2	51.3	15.3	3.1	53.3	52.2	Q	2.1	Q	Q	Q	N
\$20,000 to \$39,999	5.27	84.0	29.0	10.5	8.2	4.5	2.4	14.3	66.8	57.0	15.2	3.5	63.0	59.1	16.5	5.7	71.8	73.6	Q	N
\$40,000 to \$59,999	4.28	89.1	29.7	10.1	9.0	4.6	2.7	15.5	69.2	57.7	15.0	3.2	59.6	56.9	14.9	5.8	Q	Q	N	N
\$60,000 to \$99,999	6.42	100.7	34.3	10.1	10.8	5.3	2.9	18.3	76.3	62.8	17.3	4.1	64.9	56.2	18.7	9.6	87.7	73.3	Q	Q
\$100,000 to \$149,999	3.71	111.7	38.9	12.4	9.5	6.0	3.4	21.4	84.6	69.1	18.1	4.6	63.5	56.8	17.9	7.8	Q	Q	N	Q
\$150,000 or more	3.14	139.6	46.7	12.5	13.6	7.4	4.0	27.7	101.6	81.0	20.8	6.1	71.5	62.0	18.0	11.0	Q	Q	Q	Q
Payment method for energy bills																				
All paid by household	24.66	100.9	34.9	11.0	9.8	5.4	2.9	18.6	79.3	65.0	17.1	4.1	63.7	57.5	17.2	7.6	66.5	65.2	Q	Q
Some paid by household, some																				
included in rent or condo fee	1.50	55.0	17.4	7.0	4.6	2.6	1.8	8.4	41.6	35.7	16.4	2.5	Q	Q	Q	Q	Q	Q	Q	N
All included in rent or condo fee	0.84	51.0	18.8	8.1	6.4	2.5	2.0	8.4	46.9	37.5	15.2	Q	Q	Q	N	Q	Q	Q	Q	N
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	N	N	N	N	N	N
Main heating fuel																				
Natural gas	18.81	109.8	29.7	4.5	9.7	5.5	3.0	18.5	80.0	63.4	17.0	4.1	20.2	Q	Q	Q	Q	Q	Q	N
Electricity	5.20	48.0	44.0	18.1	7.8	4.5	2.3	12.5	14.8	12.7	18.9	3.4	21.1	12.0	18.7	14.3	Q	N	Q	Q
Fuel oil or kerosene	0.28	115.2	31.6	7.0	10.5	3.1	2.8	16.8	Q	N	Q	Q	Q	Q	Q	Q	78.7	73.6	Q	Q
Propane	2.12	112.7	39.0	6.1	13.2	4.9	3.2	21.7	1.9	N	N	1.9	73.6	64.6	16.5	4.6	Q	Q	N	N
Wood	0.51	54.8	36.8	4.7	11.6	4.1	3.2	21.1	Q	Q	Q	Q	29.5	15.0	21.8	13.9	Q	Q	N	Q
Some other fuel ⁱ	Q	Q	Q	N	Q	Q	Q	Q	N	N	N	N	N	N	N	N	N	N	N	N
Does not use heating equipment	0.12	43.1	31.8	N	10.5	Q	2.1	22.1	Q	N	Q	Q	N	N	N	N	N	N	N	N

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

Number

housing

units Average site energy consumption^a

(million) (million Btu per household using the fuel and end use)

		E	lectricity						Natural ga	ıs			Propane				Fuel oil o	r kerosene		
	Total Mid-			Space	Water	Air condi	Refrig-			Space	Water			Space	Water			Space	Water	
	west ^b	Total	Total	heating ^c	heating	tioning	erators	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d
All homes	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

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.

a 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.

b 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.

^cIncludes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

e 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

^f 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 Verycold and Cold .

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

h 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.

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

(million) Average site energy consumption^a

	_	Electricity	(kWh per	household	l using the	end use)		latural ga		household	Ū	Propane (the end u	•	r househol	•	Fuel oil or household			er
	Total																		
	Mid-		Space	Water	Air condi	Refrig-			Space	Water			Space	Water			Space	Water	
	west ^b	Total	heating ^c		tioning	erators	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d
All homes	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
Census division																			
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
Census urban/rural classification ^e																			
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
Climate region ^f																			
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
Housing unit type																			
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
Ownership of housing unit																			
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 ^g	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

(million) Average site energy consumption^a

	<u>.</u>	Electricity	(kWh per	househol	d using the	end use)		latural ga		household	using	Propane (r househol	ld using	Fuel oil or			er
	Total Mid- west ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	O ther ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	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
Year of construction																			
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
Total square footage ^h																			
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
Number of household members																			
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
2020 annual household income																			
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

(million) Average site energy consumption^a

		Electricity	(kWh per	household	d using the	end use)		Natural ga		household	using	Propane (the end u		r househo	ld using	Fuel oil or househol	r kerosene d using the		
	Total Mid- west ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other	^d Total	Space heating ^c	Water heating	O ther ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	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
\$150,000 or more	3.14	13,688	3,651	3,989	2,174	1,187	8,105	998	795	204	60	781	678	197	120	Q	Q	Q	Q
Payment method for energy bills																			
All paid by household	24.66	10,214	3,212	2,859	1,588	863	5,444	778	637	168	40	697	629	188	83	484	474	Q	Q
Some paid by household, some																			
included in rent or condo fee	1.50	5,105	2,043	1,349	765	535	2,466	408	350	160	24		Q	Q	Q	Q		Q	N
All included in rent or condo fee	0.84	5,510	2,376	1,880	739	583	2,454	460	368	149	C	Q Q	Q	N	Q			Q	N
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	C		N	N	N	N	N	N	N
Main heating fuel																			
Natural gas	18.81	8,708	1,321	2,854	1,600	866	5,434	785	622	166	40	221	Q	Q	Q	Q	Q	Q	N
Electricity	5.20	12,887	5,309	2,288	1,323	685	3,649	145	125	185	34	231	132	205	156	Q	N	Q	Q
Fuel oil or kerosene	0.28	9,266	2,042	3,074	917	812	4,936	Q	N	Q	C	Q Q	Q	Q	Q	573	536	Q	Q
Propane	2.12	11,424	1,784	3,855	1,445	938	6,372	19	N	N	19	805	706	181	50	Q	Q	N	N
Wood	0.51	10,783	1,386	3,385	1,205	929	6,184	Q	Q	Q	C		164	238	152			N	Q
Some other fuel ⁱ	Q	Q	N	Q	Q	Q	Q	N	N	N	N		N	N	N	N		N	N
Does not use heating equipment	0.12	9,314	N	3,074	Q	604	6,487	Q	N	Q	C) N	N	N	N	N	N	N	N

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

(million) Average site energy consumption^a

		Electricity	(kWh per	household	l using the	end use)		Natural ga		household	•	Propane (the end u	•	r househol	ld using	Fuel oil o		(gallons pe end use)	er
	Total Mid- west ^b		Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	O ther ^d	Total	Space heating ^c	Water heating	O ther ^d	Total	Space heating ^c	Water heating	O ther ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	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

N = No households in reporting sample.

^a 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.

^b 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.

^cIncludes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the CE5 tables.

e 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.

^f 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.

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

^h 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.

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.

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

RSEs for number of housing

units RSEs for average site energy consumption^a

Part			E	lectricity	,				r	Natural ga	s		ı	Propane				Fuel oil o	r kerosene	!	
Part		Total																			
Manumes		Mid-			Space	Water	Air condi	Refrig-			Space	Water			Space	Water			Space	Water	
Part Nort Central 0,00		west ^b	Total	Total	heating ^c	heating	tioning	erators	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d
Set North Central 10,0 1.3 1.3 1.4 5.7 3.6 1.6 1.0 1.9 1.5 1	All homes	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
Persistant Per	Census division																				
Chemistry Chem	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
Usanic Horiston 1.9 1.14 1.13 1.46 1.35 1.77 1.01 1.35 1.15 1.26 1.21 1.24 1.25 1.27 1.24 1.25	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
Ush nutskee 12 3 13 15 17 18 18 17 18 18 18 18	Census urban/rural classification ^e																				
Line contact Line	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
Climate region Clim	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
Very Cold and Cold	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
New Hole And Cold C	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
Mixed-humid	Climate region ^f																				
Mixed dry and Hot-dry Mixed dry and Hot-dry and Hot-dry and Hot-dry Mixed dry and Hot-dry and Ho	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
Hel-hamid 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	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
Marine M	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
Single-family detached 0.00 0.88 1.11 0.495 0.67 1.64 0.97 1.21 1.06 1.12 1.26 0.89 3.61 3.85 0.96 1.04 1.043 1.078 31.67 1.819 1.	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
Single-family detached 0.0 0.8 0.1 0.9 0.2 0.3 0.6 0.6 0.6 0.6 0.7	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
Single-family detached 0.0 0.8 0.1 0.9 0.2 0.3 0.6 0.6 0.6 0.6 0.7	Housing unit type																				
Single-family attached 0.00 2.19 3.33 1.66 9.60 5.06 3.13 4.45 2.54 2.96 3.93 1.506 2.43 2.60 1.93 5.51 1.51 1.51 1.51 1.50 0.00 0.00 0.00		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
units 0.00 4.38 4.40 9.83 10.48 7.94 5.16 5.58 6.01 6.98 5.06 2.50 0.00 0.00 0.00 6.50 5.70 0.00 0.00 Apartments in buildings with 5 or more units 0.00 3.99 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 Ownership of housing unit 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 1.30 1.21 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 0.00 1.00 1.00 1.00 1.00 1.00 1.00 0.00 0.00 1.00 0.00	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 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 3.17 182.83 182.8 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Apartments in buildings with 2–4																				
Mobile homes 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 10.00 0.	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
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 18.283 0.00 0.00 Commetship of housing unit Owned 0.87 0.98 1.22 5.04 2.81 1.61 0.95 1.21 1.20 1.30 1.30 1.30 5.31 3.70 4.00 2.94 13.30 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 0.00 0.00<	Apartments in buildings with 5 or																				
Ownership of housing unit Ownership of housing unit 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 12.51 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	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
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 <	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
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	Ownership of housing unit																				
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 0.0	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
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 [®] 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 3.85 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<	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
Rented ^g 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 3.02 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	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
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 19.41 0.00 13.21 19.50 19.51 <t< td=""><td>Mobile homes</td><td>4.59</td><td>4.46</td><td>5.83</td><td>13.27</td><td>7.76</td><td>7.80</td><td>4.26</td><td>6.00</td><td>9.23</td><td>6.85</td><td>11.74</td><td>14.76</td><td>11.33</td><td>13.01</td><td>7.59</td><td>34.12</td><td>182.83</td><td>182.83</td><td>0.00</td><td>0.00</td></t<>	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
Apartments 2.02 3.02 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 37.9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Rented ^g	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
Wobile 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.	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
Vear of construction Perfore 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	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
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	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
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	Year of construction																				
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	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
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																					
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		0.00				6.61				3.00											
	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
		0.00	3.83	3.81	10.49	7.03				4.74				12.70	14.86	14.40					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 number of housing

units RSEs for average site energy consumption^a

		E	lectricity	1				ı	Natural ga	s		F	Propane			I	Fuel oil or	kerosene		
	Total	_																		
	Mid-			Space	Water	Air condi	Refrig-			Space	Water			Space	Water			Space	Water	
	west ^b	Total	Total	heating ^c	heating	tioning	erators	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d	Total	heating ^c	heating	Other ^d
All homes	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
1990 to 1999	0.00	2.39	3.28	12.86	6.84	3.93	2.71	3.98	2.86	3.07	2.89	15.80	8.65	8.92	5.28	28.90	58.89	277.55	0.00	0.00
2000 to 2009	0.00	3.44	3.22	7.97	5.13	4.49	3.14	3.58	4.11	4.27	3.12	15.00	9.46	9.48	10.55	31.65	52.48	52.48	0.00	0.00
2010 to 2015	5.76	5.40	5.60	12.66	7.30	7.21	4.27	6.76	6.50	6.50	6.32	26.84	12.05	16.76	29.37	42.96	0.00	0.00	0.00	0.00
2016 to 2020	6.83	6.52	6.23	18.66	10.51	8.36	4.63	7.36	9.10	9.70	7.78	10.77	16.88	25.54	16.97	26.29	0.00	0.00	0.00	0.00
Total square footage ^h																				
Less than 1,000	3.29	2.48	3.01	7.50	5.78	3.92	2.33	3.65	3.29	4.02	3.08	9.56	17.80	17.54	10.45	63.12	40.58	40.63	89.20	0.00
1,000 to 1,499	4.29	2.23	2.65	7.92	4.77	2.85	2.05	2.98	2.95	2.97	2.98	11.58	8.05	9.27	9.67	31.29	33.54	31.28	63.88	0.00
1,500 to 1,999	3.84	1.83	2.35	7.99	4.33	3.48	1.82	2.97	2.59	2.55	3.27	5.99	6.24	7.52	9.52	29.07	16.26	23.48	0.00	0.00
2,000 to 2,499	3.93	1.82	2.32	8.73	5.67	3.43	2.30	2.15	2.49	2.35	2.93	15.61	6.97	7.92	6.41	25.67	32.14	29.59	11.13	0.00
2,500 to 2,999	4.68	2.16	2.90	14.35	7.63	3.61	2.78	2.44	2.65	2.81	3.26	17.80	9.64	11.17	4.55	30.43	20.27	25.64	0.00	0.00
3,000 or more	3.47	1.64	2.47	8.35	5.79	3.13	1.98	2.45	2.09	2.12	2.21	9.86	5.40	5.51	5.29	23.37	29.58	21.50	0.00	0.00
Number of household members																				
1 member	3.09	2.21	2.54	7.21	3.38	3.23	1.56	2.98	2.65	2.68	2.38	12.67	7.76	8.19	2.61	30.84	20.85	20.58	40.63	0.00
2 members	2.28	1.43	1.61	6.48	3.45	2.26	1.38	1.70	1.86	2.06	1.63	9.22	5.29	5.99	2.89	20.60	17.25	16.86	74.77	0.00
3 members	4.59	2.63	2.74	8.09	5.97	3.49	3.19	3.22	3.30	3.45	3.00	9.46	11.76	13.25	6.66	21.89	24.37	29.85	0.00	37.10
4 members	5.39	2.47	2.84	10.05	6.20	3.32	2.62	3.08	2.76	3.08	2.41	9.54	7.06	9.44	7.18	27.31	47.98	70.63	11.13	0.00
5 members	7.66	3.70	4.07	14.75	6.99	5.57	4.80	4.61	4.39	4.24	3.97	12.39	15.89	12.84	4.97	20.29	0.00	0.00	0.00	0.00
6 or more members	12.00	3.34	5.59	21.49	9.13	5.69	6.50	5.00	4.70	5.92	6.40	9.04	17.33	14.87	13.52	50.79	0.00	0.00	0.00	0.00
2020 annual household income																				
Less than \$5,000	10.86	6.38	5.90	14.66	15.42	11.39	3.29	9.41	6.65	8.00	6.69	17.90	20.88	20.32	37.31	50.70	80.73	80.73	0.00	0.00
\$5,000 to \$9,999	11.72	7.26	7.00	21.72	15.03	10.71	7.73	6.97	9.61	11.82	5.84	23.30	33.24	35.50	34.91	47.45	44.66	52.83	4.17	0.00
\$10,000 to \$19,999	6.55	3.65	5.32	11.02	6.94	6.95	3.53	6.61	3.82	5.17	6.16	18.16	17.12	17.26	2.67	18.29	71.50	73.86	5.40	0.00
\$20,000 to \$39,999	3.87	2.41	2.62	8.03	4.50	3.48	1.89	2.94	2.73	2.73	2.90	13.31	8.99	9.91	5.01	41.73	20.54	21.81	10.82	0.00
\$40,000 to \$59,999	4.29	2.61	2.59	9.32	6.13	3.62	2.02	2.52	3.57	3.56	2.64	9.21	8.67	10.04	6.46	31.46	27.19	27.19	0.00	0.00
\$60,000 to \$99,999	3.08	1.68	1.90	6.22	4.29	2.55	1.92	1.95	2.30	2.41	2.25	12.66	7.05	6.95	6.09	26.10	19.21	21.77	0.00	6.35
\$100,000 to \$149,999	4.72	2.42	3.27	13.31	7.43	3.94	2.34	2.86	2.83	2.81	2.75	9.42	7.13	8.07	6.83	32.98	26.42	33.32	0.00	0.00
\$150,000 or more	5.18	2.02	2.58	9.65	6.12	3.64	2.21	2.73	2.58	2.90	2.61	12.45	10.87	11.33	6.54	25.80	114.89	102.21	0.00	0.00
Payment method for energy bills																				
All paid by household	0.58	0.94	1.08	4.12	2.59	1.50	0.90	1.20	1.06	1.12	1.29	5.15	3.54	3.78	2.84	13.04	10.88	10.82	30.19	18.91
Some paid by household, some																				
included in rent or condo fee	8.20	6.30	6.23	20.58	10.39	7.18	3.29	8.22	8.44	9.29	4.21	11.21	45.98	56.21	11.83	153.26	42.36	21.72	33.64	0.00
All included in rent or condo fee	10.71	8.19	6.71	14.06	8.12	7.29	6.43	8.17	11.72	13.19	8.39	50.81	33.58	25.31	0.00	0.48	0.00	0.00	0.00	0.00
Some other method	59.10	37.30	47.21	73.72	0.00	67.12	9.49	27.99	37.88	50.12	35.06	71.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Main heating fuel																				
Natural gas	1.34	0.93	1.11	6.30	4.29	1.67	1.06	1.30	1.08	1.17	1.23	5.37	28.14	48.80	17.00	20.28	31.04	32.04	0.00	0.00
Electricity	4.18	3.04	2.93	4.06	3.91	3.99	2.12	3.20	10.93	29.12	6.77	20.25	15.52	20.28	10.07	30.82	105.44	0.00	0.00	0.00
Fuel oil or kerosene	20.23	9.17	9.97	45.44	15.92	14.35	12.50	10.02	56.62	0.00	9.39	86.31	34.35	0.00	25.22	72.23	10.64	10.69	44.78	3.42
Propane	6.23	2.52	3.63	16.37	5.08	4.85	2.97	4.66	35.51	0.00	0.00	35.51	3.05	3.43	2.86	10.81	0.00	0.00	0.00	0.00
Wood	13.66	7.11	5.50	18.50	11.24	9.88	6.28	6.97	48.58	66.43	34.06	43.93	15.50	20.03	14.45	33.39	24.60	25.28	0.00	13.21
Some other fuel	14.87	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
Joine offici luci	14.0/	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

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

RSEs for number of housing

units RSEs for average site energy consumption^a

		E	lectricity						Natural ga	ıs			Propane				Fuel oil or	kerosene		
	Total Mid- west ^b	Total	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	O ther ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	O ther ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	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.

a 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.

b 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.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

e 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.

^f 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 Verycold and Cold.

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

^h 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.

Some other fuel includes coal and district steam.