

Data release date: June 2023

Revised data release date: March 2024

**Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)																		
		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	2,619	902	125	91	131	77	478	1,521	1,195	275	51	170	141	19	10	26	23	Q	Q
<b>Census division</b>																				
East North Central	18.55	1,823	591	77	58	84	52	321	1,103	870	193	40	108	89	12	7	21	19	Q	Q
West North Central	8.50	796	310	48	33	47	25	157	419	325	83	11	62	52	7	4	4	4	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																				
Urban	20.77	1,971	632	77	51	101	57	346	1,325	1,038	244	43	8	6	1	1	6	5	Q	N
Urban area	17.20	1,654	513	57	38	85	47	285	1,131	882	211	38	6	4	Q	Q	5	4	Q	N
Urban cluster	3.57	317	119	21	12	17	9	60	194	156	33	5	3	2	Q	Q	Q	Q	N	N
Rural	6.28	648	270	48	40	30	20	132	196	157	31	8	162	135	18	9	20	18	Q	Q
<b>Climate region<sup>f</sup></b>																				
Very cold and Cold	22.09	2,178	702	94	70	94	61	383	1,306	1,028	233	45	146	123	15	8	25	22	Q	Q
Mixed-humid	4.96	441	200	31	21	38	15	95	215	167	43	6	24	18	4	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	2,144	710	88	64	106	60	392	1,253	1,006	207	41	157	131	17	9	23	21	Q	Q
Single-family attached	1.33	113	37	5	3	5	3	20	74	57	15	2	2	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	1.95	125	42	9	5	6	4	18	81	57	21	4	N	N	N	N	Q	Q	Q	N
Apartments in buildings with 5 or more units	4.20	164	79	16	13	10	7	33	82	51	28	3	1	1	Q	Q	Q	Q	Q	N
Mobile homes	0.97	73	34	6	6	4	2	15	30	25	5	1	9	8	1	*	Q	Q	N	N
<b>Ownership of housing unit</b>																				
Owned	19.48	2,164	721	93	64	106	62	395	1,266	1,010	213	42	156	129	18	10	21	19	Q	Q
Single-family	17.73	2,041	672	83	57	100	58	374	1,200	961	199	40	148	121	17	10	21	19	Q	Q
Apartments	0.94	61	20	5	2	3	2	8	42	30	10	1	Q	Q	N	N	N	N	N	N
Mobile homes	0.81	61	29	6	5	3	2	13	24	19	4	1	8	7	1	*	Q	Q	N	N
Rented <sup>d</sup>	7.56	456	181	32	27	25	15	83	256	185	62	9	14	12	1	1	4	4	Q	N
Single-family	2.19	216	74	10	10	11	5	37	127	102	22	3	12	11	Q	*	Q	Q	Q	N
Apartments	5.22	227	102	21	16	13	9	43	122	78	40	5	1	1	Q	Q	Q	Q	Q	N
Mobile homes	0.16	12	5	1	1	1	*	2	6	6	Q	*	Q	Q	N	Q	N	N	N	N
<b>Year of construction</b>																				
Before 1950	6.11	672	197	26	19	32	16	104	420	344	63	13	45	40	4	2	9	8	Q	Q
1950 to 1959	3.18	331	99	11	9	17	9	54	209	170	34	6	16	13	1	1	Q	Q	Q	Q
1960 to 1969	2.90	276	84	11	7	13	8	45	177	141	31	5	13	9	2	2	Q	Q	Q	N
1970 to 1979	4.05	373	138	25	15	19	11	68	196	151	38	7	35	32	2	1	4	3	Q	N
1980 to 1989	2.71	214	87	16	10	12	7	42	116	90	23	4	8	6	1	1	Q	Q	Q	Q
1990 to 1999	3.56	354	131	14	12	17	12	77	193	146	40	7	29	23	4	2	Q	Q	N	Q
2000 to 2009	2.95	276	108	13	12	14	9	60	150	109	34	7	17	13	3	2	Q	Q	N	N
2010 to 2015	0.86	70	34	5	5	4	3	17	32	25	6	1	4	3	Q	1	Q	Q	Q	N



**Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020**

	Number of housing units (million)	Total site energy consumption <sup>a</sup> (trillion Btu)																		
			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>			
<b>All homes</b>	27.04	2,619	902	125	91	131	77	478	1,521	1,195	275	51	170	141	19	10	26	23	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 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.

\* = Estimate is less than 0.5 and rounds to zero.

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**Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020**

	Total Mid-west <sup>b</sup>	Total site energy consumption <sup>a</sup>																	
		Electricity (billion kWh)					Natural gas (billion cubic feet)				Propane (million gallons)			Fuel oil or kerosene (million gallons)					
		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	264	37	27	38	22	140	1,492	1,172	270	50	1,864	1,543	206	114	187	166	Q	Q
<b>Census division</b>																			
East North Central	18.55	173	23	17	24	15	94	1,078	850	188	39	1,181	975	132	74	156	135	Q	Q
West North Central	8.50	91	14	10	14	7	46	415	322	82	11	683	568	74	41	31	31	Q	N
<b>Census urban/rural classification<sup>e</sup></b>																			
Urban	20.77	185	23	15	30	17	101	1,299	1,018	239	42	91	67	11	13	41	35	Q	N
Urbanized area	17.20	150	17	11	25	14	84	1,108	864	207	37	61	46	Q	Q	37	30	Q	N
Urban cluster	3.57	35	6	4	5	3	18	191	154	33	5	30	21	Q	Q	Q	Q	N	N
Rural	6.28	79	14	12	9	6	39	193	154	31	8	1,773	1,476	195	102	145	131	Q	Q
<b>Climate region<sup>f</sup></b>																			
Very cold and Cold	22.09	206	28	20	27	18	112	1,278	1,006	228	44	1,598	1,343	162	92	179	162	Q	Q
Mixed-humid	4.96	59	9	6	11	4	28	215	167	42	6	266	200	44	22	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	208	26	19	31	18	115	1,229	986	203	40	1,721	1,431	187	103	170	153	Q	Q
Single-family attached	1.33	11	1	1	2	1	6	73	56	14	2	26	Q	Q	Q	Q	Q	Q	N
Apartments in buildings with 2–4 units	1.95	12	3	1	2	1	5	80	55	21	4	N	N	N	N	Q	Q	Q	N
Apartments in buildings with 5 or more units	4.20	23	5	4	3	2	10	81	50	28	3	16	9	Q	Q	Q	Q	Q	N
Mobile homes	0.97	10	2	2	1	1	4	30	24	4	1	101	87	10	3	Q	Q	N	N
<b>Ownership of housing unit</b>																			
Owned	19.48	211	27	19	31	18	116	1,242	991	209	41	1,709	1,409	192	108	154	140	Q	Q
Single-family	17.73	197	24	17	29	17	110	1,178	943	195	39	1,615	1,328	182	105	153	139	Q	Q
Apartments	0.94	6	1	*	1	1	2	41	29	10	1	Q	Q	N	N	N	N	N	N
Mobile homes	0.81	8	2	2	1	1	4	23	19	4	1	92	79	10	3	Q	Q	N	N
Rented <sup>g</sup>	7.56	53	9	8	7	4	24	250	181	61	8	155	135	14	6	32	26	Q	N
Single-family	2.19	22	3	3	3	2	11	124	99	22	3	132	119	Q	4	Q	Q	Q	N
Apartments	5.22	30	6	5	4	3	13	120	76	39	5	14	7	Q	Q	Q	Q	Q	N
Mobile homes	0.16	1	*	*	*	*	1	6	6	Q	*	Q	Q	N	Q	N	N	N	N
<b>Year of construction</b>																			
Before 1950	6.11	58	8	5	9	5	31	411	337	62	13	494	435	43	17	68	61	Q	Q
1950 to 1959	3.18	29	3	3	5	3	16	205	166	33	5	175	145	16	14	Q	Q	Q	Q
1960 to 1969	2.90	25	3	2	4	2	13	174	138	31	5	138	102	19	17	Q	Q	Q	N
1970 to 1979	4.05	40	7	4	6	3	20	193	148	37	7	382	350	26	6	26	24	Q	N
1980 to 1989	2.71	26	5	3	4	2	12	114	88	23	3	89	67	14	8	Q	Q	Q	Q
1990 to 1999	3.56	39	4	3	5	3	22	190	143	40	7	316	250	46	20	Q	Q	N	Q
2000 to 2009	2.95	32	4	3	4	3	17	147	107	34	7	189	139	28	21	Q	Q	N	N
2010 to 2015	0.86	10	1	2	1	1	5	31	24	6	1	48	34	Q	10	Q	Q	Q	N



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	Number of housing units (million)	Total site energy consumption <sup>a</sup>																	
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)			Fuel oil or kerosene (million gallons)				
		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
<b>All homes</b>	27.04	264	37	27	38	22	140	1,492	1,172	270	50	1,864	1,543	206	114	187	166	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

<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.

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<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.

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N = No households in reporting sample.

\* = Estimate is less than 0.5 and rounds to zero.

**Relative standard errors (RSEs) for Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020**

	RSEs for number of housing units	Total site energy consumption <sup>a</sup>																			
		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	4.60	3.24	1.50	0.83	1.14	1.66	1.73	1.99	5.73	6.25	6.87	9.01	14.37	19.73	20.71	43.95	50.33	
<b>Census division</b>																					
East North Central	0.00	1.13	1.34	6.48	4.37	1.81	0.99	1.59	1.92	2.02	2.35	6.90	8.20	8.75	13.00	18.29	22.30	23.87	44.60	50.33	
West North Central	0.00	1.29	1.33	5.45	5.11	2.17	1.33	1.60	2.62	2.69	3.07	11.51	7.68	8.47	9.94	19.53	31.76	31.90	15.91	0.00	
<b>Census urban/rural classification<sup>e</sup></b>																					
Urban	0.97	1.57	1.54	4.81	4.22	2.07	1.50	1.74	1.93	2.05	2.21	5.63	27.91	32.30	36.21	38.71	27.27	30.55	45.87	0.00	
Urbanized area	1.23	1.84	1.84	5.61	5.12	2.48	1.84	2.14	2.16	2.31	2.38	6.10	34.37	38.15	39.57	54.72	30.32	34.47	45.87	0.00	
Urban cluster	4.97	6.09	5.79	11.08	9.62	6.00	5.61	5.75	7.16	7.43	7.21	16.48	39.38	45.21	82.46	52.22	68.90	68.90	0.00	0.00	
Rural	3.21	3.48	3.61	8.85	6.29	3.46	3.47	3.57	6.11	6.47	6.20	16.75	6.14	6.69	9.18	15.54	24.44	24.92	75.70	50.33	
<b>Climate region<sup>f</sup></b>																					
Very cold and Cold	0.49	1.09	1.31	5.60	3.90	1.82	1.06	1.31	1.83	1.88	2.31	6.18	6.88	7.50	9.67	16.22	20.18	21.09	43.95	58.74	
Mixed-humid	2.18	3.28	3.10	7.10	7.13	3.70	3.25	3.56	4.54	4.72	5.71	13.76	16.25	17.69	18.98	24.66	14.03	14.03	0.00	14.03	
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	5.33	3.98	1.71	0.98	1.21	1.66	1.73	2.02	6.32	6.76	7.37	9.92	16.06	21.89	22.66	62.83	50.33	
Single-family attached	0.00	2.19	3.33	11.86	13.90	4.78	3.21	4.45	3.02	3.28	4.15	16.47	43.96	50.09	50.29	65.15	96.53	95.11	12.11	0.00	
Apartments in buildings with 2–4 units	0.00	4.38	4.40	13.14	15.06	8.21	5.57	5.58	6.69	8.29	8.94	25.58	0.00	0.00	0.00	0.00	74.28	72.90	15.81	0.00	
Apartments in buildings with 5 or more units	0.00	3.69	3.92	11.92	8.03	4.35	2.22	4.20	7.17	9.28	6.93	15.07	33.76	30.18	66.80	75.16	60.10	69.73	71.18	0.00	
Mobile homes	0.00	4.33	4.81	14.57	10.26	7.55	4.07	5.07	13.53	13.17	20.92	18.72	23.80	23.66	45.95	40.96	78.76	78.76	0.00	0.00	
<b>Ownership of housing unit</b>																					
Owned	0.87	1.17	1.37	5.62	4.18	1.93	1.21	1.32	1.90	1.98	2.13	6.04	6.76	7.34	8.98	15.50	23.10	23.45	81.31	50.33	
Single-family	0.60	1.09	1.38	5.76	4.42	1.92	1.12	1.33	1.81	1.90	2.13	6.25	7.21	7.86	9.47	15.91	23.31	23.69	81.31	50.33	
Apartments	11.27	13.82	14.98	27.05	24.23	15.29	13.28	14.36	15.33	16.73	15.22	18.04	15.97	15.97	0.00	0.00	0.00	0.00	0.00	0.00	
Mobile homes	4.59	5.96	6.95	16.52	12.06	9.02	6.04	6.87	15.34	14.94	21.67	20.75	25.08	24.84	45.95	43.78	78.76	78.76	0.00	0.00	
Rented <sup>g</sup>	2.25	3.48	3.56	7.27	6.98	4.14	2.96	4.05	4.94	5.81	5.24	13.63	21.01	23.15	39.32	32.49	35.29	40.80	51.56	0.00	
Single-family	4.85	5.70	5.91	13.11	10.42	7.54	6.15	6.18	7.38	7.83	7.75	15.94	22.77	25.02	36.29	36.53	54.09	62.44	88.05	0.00	
Apartments	2.02	3.64	3.59	8.51	8.54	4.98	2.67	4.30	6.38	7.61	7.21	19.81	37.37	32.97	66.80	75.16	49.32	54.49	58.82	0.00	
Mobile homes	23.49	24.93	23.72	48.41	29.92	26.71	22.15	27.42	32.47	32.14	60.54	49.27	15.73	15.73	0.00	15.73	0.00	0.00	0.00	0.00	
<b>Year of construction</b>																					
Before 1950	0.00	2.25	2.44	9.27	7.51	3.71	1.96	2.83	3.85	4.13	4.71	8.17	14.74	15.58	18.69	28.63	30.56	32.01	14.95	70.71	
1950 to 1959	0.00	2.89	3.03	12.30	10.59	4.54	2.88	4.10	3.73	4.13	4.52	14.01	20.10	20.84	27.66	41.59	43.02	41.88	15.81	14.47	
1960 to 1969	0.00	2.88	3.73	13.87	11.86	4.50	3.36	3.92	4.26	4.57	5.04	9.68	23.22	26.76	27.82	48.78	56.37	64.64	71.42	0.00	
1970 to 1979	0.00	2.41	2.92	10.20	8.71	3.26	2.25	2.78	4.07	4.26	6.08	17.85	14.34	14.84	21.12	23.38	42.40	43.68	76.68	0.00	
1980 to 1989	0.00	3.83	3.81	11.72	10.37	5.28	3.74	3.73	7.07	7.40	7.43	17.20	22.86	25.42	32.09	45.23	44.84	46.72	15.29	17.27	

Relative standard errors (RSEs) for Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020

	RSEs for number of housing units Total 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	4.60	3.24	1.50	0.83	1.14	1.66	1.73	1.99	5.73	6.25	6.87	9.01	14.37	19.73	20.71	43.95	50.33	
1990 to 1999	0.00	2.39	3.28	13.67	10.46	3.98	2.71	3.98	4.41	4.58	5.29	15.59	14.75	15.70	18.81	31.42	78.61	81.58	0.00	11.56	
2000 to 2009	0.00	3.44	3.22	9.22	7.87	4.67	3.14	3.58	5.16	5.49	5.69	15.43	16.10	17.49	24.54	36.67	71.08	71.08	0.00	0.00	
2010 to 2015	5.76	7.74	8.52	15.46	11.50	9.62	7.38	9.20	10.08	10.16	13.03	29.64	23.20	27.00	51.70	49.34	15.91	15.91	15.91	0.00	
2016 to 2020	6.83	9.55	10.15	22.34	15.42	12.00	8.02	11.10	12.38	13.28	17.33	15.56	30.66	36.88	36.86	43.50	18.35	18.35	18.35	0.00	
<b>Total square footage<sup>b</sup></b>																					
Less than 1,000	3.29	4.19	3.69	8.10	6.85	5.44	4.11	4.85	5.42	5.91	6.33	11.11	25.68	25.05	33.86	61.22	51.94	50.68	67.19	0.00	
1,000 to 1,499	4.29	4.96	5.15	10.50	8.73	5.55	4.99	5.20	5.98	6.21	7.00	13.84	13.82	15.23	24.53	31.99	44.66	46.06	75.37	17.27	
1,500 to 1,999	3.84	4.23	4.07	8.06	8.04	5.40	4.18	4.49	5.30	5.56	6.50	6.95	13.81	14.54	26.20	34.27	39.64	42.70	15.91	14.83	
2,000 to 2,499	3.93	3.76	4.12	10.12	9.00	5.06	4.43	4.14	5.27	5.34	6.20	16.49	14.90	15.79	20.06	30.17	42.19	42.00	76.45	14.47	
2,500 to 2,999	4.68	5.19	5.74	15.96	11.02	6.36	5.49	5.67	6.43	6.62	6.50	19.96	17.60	18.64	24.83	33.95	41.02	42.17	14.95	14.03	
3,000 or more	3.47	3.84	4.20	10.55	9.35	5.08	3.93	4.45	4.81	4.88	5.36	10.93	12.15	12.92	15.65	27.88	46.15	46.27	0.00	11.56	
<b>Number of household members</b>																					
1 member	3.09	4.17	4.10	9.00	6.77	4.95	3.52	4.50	5.41	5.76	4.30	13.85	12.40	12.72	18.54	35.61	29.11	29.08	56.47	14.47	
2 members	2.28	2.54	2.71	7.48	5.88	2.82	2.89	2.64	3.20	3.30	3.48	10.76	9.68	10.04	15.12	22.63	35.45	35.26	79.39	17.27	
3 members	4.59	5.01	5.38	11.66	11.84	5.56	5.29	5.27	6.22	6.43	6.47	11.06	23.88	26.00	28.56	31.19	45.19	49.15	12.11	69.75	
4 members	5.39	6.13	5.60	12.04	9.87	6.80	6.19	6.15	6.89	6.99	7.65	12.18	18.54	20.45	26.55	32.67	65.36	79.28	76.45	0.00	
5 members	7.66	8.62	7.94	18.24	11.90	9.26	9.00	8.45	9.74	10.19	10.80	17.60	31.27	31.86	46.53	42.57	18.89	18.89	0.00	0.00	
6 or more members	12.00	11.92	12.14	25.66	20.69	12.97	12.50	12.50	14.06	14.47	17.43	18.86	32.27	32.74	46.47	57.06	15.50	15.50	0.00	0.00	
<b>2020 annual household income</b>																					
Less than \$5,000	10.86	12.10	12.95	24.95	21.77	14.87	11.24	14.19	14.35	15.30	15.26	22.49	47.47	50.12	65.88	49.41	96.55	96.55	0.00	0.00	
\$5,000 to \$9,999	11.72	12.06	12.17	27.37	18.44	16.22	13.74	12.15	16.80	17.95	18.43	30.16	40.79	42.66	78.83	59.18	54.87	56.08	70.30	0.00	
\$10,000 to \$19,999	6.55	6.83	8.01	14.48	11.70	10.13	7.37	8.69	8.61	9.31	10.93	20.68	25.99	26.49	41.30	36.91	74.98	84.79	82.66	0.00	
\$20,000 to \$39,999	3.87	4.56	4.94	9.88	7.26	5.93	4.53	5.13	4.98	5.13	5.96	14.62	15.45	16.31	24.13	43.97	37.57	40.12	69.30	0.00	
\$40,000 to \$59,999	4.29	4.68	4.39	10.55	7.83	5.03	4.57	4.84	6.13	6.35	6.04	10.36	17.18	18.35	21.22	33.74	51.62	51.62	0.00	0.00	
\$60,000 to \$99,999	3.08	3.17	3.57	7.39	7.21	4.21	3.25	3.51	4.01	4.22	4.18	14.38	13.28	13.56	19.86	31.59	38.00	37.06	18.35	60.25	
\$100,000 to \$149,999	4.72	4.79	5.58	15.38	11.46	6.08	5.08	5.20	5.93	5.97	7.10	11.52	13.25	14.52	17.12	40.31	41.07	44.15	0.00	14.83	
\$150,000 or more	5.18	5.48	5.39	11.59	11.38	5.50	5.66	5.78	5.95	6.34	5.85	13.26	18.81	20.69	18.38	28.72	99.10	99.87	14.95	11.56	
<b>Payment method for energy bills</b>																					
All paid by household	0.58	0.94	1.13	4.74	3.51	1.60	0.89	1.20	1.72	1.80	1.99	5.80	6.35	6.96	8.97	14.87	20.94	21.93	48.30	50.33	
Some paid by household, some included in rent or condo fee	8.20	10.39	10.29	23.86	17.93	11.99	8.67	11.36	13.07	14.81	12.87	16.67	46.49	56.66	60.39	91.79	50.31	51.10	77.88	0.00	
All included in rent or condo fee	10.71	14.84	12.81	17.54	18.46	13.58	12.95	14.79	18.40	20.46	17.13	55.31	67.67	60.81	0.00	84.96	15.49	15.49	15.49	0.00	
Some other method	59.10	66.37	57.19	77.70	16.36	76.10	58.47	58.67	67.43	69.20	71.05	88.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Main heating fuel</b>																					
Natural gas	1.34	1.62	1.80	6.74	5.28	2.31	1.59	1.90	1.68	1.73	2.10	5.97	40.69	64.43	58.34	54.17	56.92	68.56	17.01	0.00	
Electricity	4.18	5.04	5.22	6.03	6.42	6.01	4.59	5.06	14.20	30.17	16.09	22.57	20.50	29.66	27.67	35.45	95.33	0.00	15.29	11.56	
Fuel oil or kerosene	20.23	22.04	21.98	50.09	26.53	26.36	21.91	21.78	86.01	0.00	90.76	98.83	67.12	14.11	81.71	77.26	22.40	22.36	56.86	75.82	
Propane	6.23	6.94	7.81	22.15	10.74	9.15	6.88	8.23	43.56	0.00	0.00	43.56	6.92	7.17	10.09	13.01	13.81	13.81	0.00	0.00	
Wood	13.66	14.98	14.80	29.63	18.81	17.48	14.59	16.01	55.45	81.46	63.92	48.41	25.02	29.81	31.64	40.90	48.40	46.18	0.00	70.71	



Relative standard errors (RSEs) for Table CE4.3 Annual household site end-use consumption by fuel in the Midwest—totals, 2020

RSEs for number of housing units	Total 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>	
All homes	0.00	0.90	1.02	4.60	3.24	1.50	0.83	1.14	1.66	1.73	1.99	5.73	6.25	6.87	9.01	14.37	19.73	20.71	43.95	50.33	
Some other fuel <sup>f</sup>	14.87	14.87	14.87	0.00	14.87	14.87	14.87	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	
Does not use heating equipment	32.69	40.25	44.29	0.00	49.25	47.96	34.47	48.24	61.36	0.00	64.64	79.64	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 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.