

Data release date: March 2023

Revised data release date: March 2024

Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total Midwest ^b	Total (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)
All homes	27.04	2,619	96.9	40.9	48.3	51.18	1,892	798	0.94
Census division									
East North Central	18.55	1,823	98.3	41.5	49.1	35.51	1,915	808	0.96
West North Central	8.50	796	93.7	39.5	46.4	15.66	1,844	777	0.91
Census urban/rural classification^c									
Urban	20.77	1,971	94.9	40.0	49.9	36.39	1,752	739	0.92
Urbanized area	17.20	1,654	96.2	39.9	50.0	30.32	1,763	731	0.92
Urban cluster	3.57	317	88.9	40.7	49.5	6.07	1,702	781	0.95
Rural	6.28	648	103.3	43.6	43.9	14.79	2,356	995	1.00
Climate region^d									
Very cold/Cold	22.09	2,178	98.6	41.6	49.4	41.44	1,876	791	0.94
Mixed-humid	4.96	441	89.0	37.7	43.3	9.74	1,966	832	0.96
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N
Marine	N	N	N	N	N	N	N	N	N
Housing unit type									
Single-family detached	18.58	2,144	115.4	45.1	47.8	40.61	2,186	854	0.91
Single-family attached	1.33	113	84.9	38.9	47.9	2.18	1,636	749	0.92
Apartments in buildings with 2–4 units	1.95	125	64.1	29.5	60.3	2.55	1,308	603	1.23
Apartments in buildings with 5 or more units	4.20	164	39.0	22.5	42.8	4.09	974	563	1.07
Mobile homes	0.97	73	75.3	34.1	64.3	1.74	1,784	808	1.52
Ownership of housing unit									
Owned	19.48	2,164	111.1	45.3	47.5	41.29	2,119	864	0.91
Single-family	17.73	2,041	115.1	46.1	47.0	38.60	2,177	872	0.89
Apartments	0.94	61	65.6	35.1	51.3	1.23	1,317	705	1.03
Mobile homes	0.81	61	75.1	35.0	64.2	1.46	1,790	835	1.53
Rented ^e	7.56	456	60.2	27.9	52.6	9.89	1,308	605	1.14
Single-family	2.19	216	98.8	34.9	57.4	4.20	1,921	679	1.12
Apartments	5.22	227	43.6	23.3	48.4	5.41	1,038	555	1.15
Mobile homes	0.16	12	76.4	30.1	64.8	0.28	1,751	690	1.48
Year of construction									
Before 1950	6.11	672	109.9	47.1	56.6	12.16	1,989	852	1.02
1950 to 1959	3.18	331	104.3	44.9	56.4	6.13	1,930	830	1.04
1960 to 1969	2.90	276	95.3	41.8	53.9	5.08	1,754	769	0.99
1970 to 1979	4.05	373	92.1	38.7	48.8	7.68	1,898	798	1.01
1980 to 1989	2.71	214	79.1	35.5	43.5	4.50	1,662	747	0.91
1990 to 1999	3.56	354	99.5	41.1	42.9	7.22	2,028	837	0.87
2000 to 2009	2.95	276	93.5	36.7	39.8	5.68	1,926	756	0.82
2010 to 2015	0.86	70	80.9	31.9	33.7	1.56	1,804	712	0.75
2016 to 2020	0.73	54	73.7	28.7	34.3	1.17	1,605	624	0.75

Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total Midwest ^b	Total (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)
All homes	27.04	2,619	96.9	40.9	48.3	51.18	1,892	798	0.94
Total square footage^f									
Less than 1,000	5.29	274	51.8	28.1	68.7	6.13	1,159	630	1.54
1,000 to 1,499	5.28	422	79.9	35.7	65.7	8.46	1,601	716	1.32
1,500 to 1,999	4.73	462	97.8	39.2	57.0	9.00	1,905	763	1.11
2,000 to 2,499	3.79	418	110.3	43.6	49.6	8.04	2,122	839	0.95
2,500 to 2,999	2.92	337	115.4	45.5	43.0	6.35	2,175	857	0.81
3,000 or more	5.03	706	140.3	51.3	36.3	13.19	2,621	957	0.68
Number of household members									
1 member	7.74	560	72.3	72.3	46.7	10.76	1,390	1,390	0.90
2 members	10.41	1,047	100.6	50.3	47.2	20.32	1,952	976	0.92
3 members	3.62	391	108.0	36.0	50.8	7.86	2,173	724	1.02
4 members	3.08	357	115.8	29.0	49.4	6.94	2,252	563	0.96
5 members	1.36	156	114.8	23.0	48.8	3.14	2,309	462	0.98
6 or more members	0.83	108	129.9	19.4	56.3	2.16	2,595	388	1.12
2020 annual household income									
Less than \$5,000	1.01	76	75.2	30.3	60.8	1.60	1,575	634	1.27
\$5,000 to \$9,999	0.92	62	67.4	30.8	58.3	1.31	1,430	653	1.24
\$10,000 to \$19,999	2.31	159	69.1	38.6	47.1	3.25	1,411	788	0.96
\$20,000 to \$39,999	5.27	442	84.0	41.4	51.2	8.87	1,684	829	1.03
\$40,000 to \$59,999	4.28	382	89.1	41.7	48.8	7.47	1,745	816	0.96
\$60,000 to \$99,999	6.42	646	100.7	39.7	49.0	12.56	1,957	771	0.95
\$100,000 to \$149,999	3.71	414	111.7	41.2	45.4	8.07	2,178	804	0.88
\$150,000 or more	3.14	438	139.6	47.2	44.8	8.05	2,568	868	0.82
Payment method for energy bills									
All paid by household	24.66	2,488	100.9	41.4	48.0	48.65	1,973	810	0.94
Some paid by household, some included in rent or condo fee	1.50	82	55.0	33.6	55.5	1.61	1,078	658	1.09
All included in rent or condo fee	0.84	43	51.0	28.7	50.9	0.84	1,003	564	1.00
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main heating fuel									
Natural gas	18.81	2,065	109.8	45.3	52.5	35.43	1,884	777	0.90
Electricity	5.20	249	48.0	22.0	30.7	8.24	1,586	727	1.02
Fuel oil or kerosene	0.28	32	115.2	67.0	58.3	0.76	2,707	1,573	1.37
Propane	2.12	239	112.7	46.8	48.0	5.69	2,687	1,117	1.14
Wood	0.51	28	54.8	21.5	25.2	0.90	1,746	684	0.80
Some other fuel ^g	Q	Q	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	0.12	5	43.1	18.9	35.7	0.15	1,218	534	1.01

Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a					
		Total Midwest ^b	Total (trillion Btu)	Per household (million Btu)	Per household member (million Btu)	Per square foot (thousand Btu)	Total (billion dollars)	Per household (dollars)	Per household member (dollars)	Per square foot (dollars)
All homes	27.04	2,619	96.9	40.9	48.3	51.18	1,892	798	0.94	

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated 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

^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 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, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^d 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/Cold*.

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

^f *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.

^g *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: March 2023

Revised data release date: March 2024

Relative standard errors (RSEs) for Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a			
		Total Midwest ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member
All homes	0.00	0.90	0.90	1.22	0.83	0.75	0.75	1.07	0.75
Census division									
East North Central	0.00	1.13	1.13	1.50	0.99	1.00	1.00	1.28	1.03
West North Central	0.00	1.29	1.29	1.98	1.33	0.94	0.94	1.70	1.13
Census urban/rural classification^c									
Urban	0.97	1.57	1.14	1.54	1.08	1.38	0.91	1.34	0.90
Urbanized area	1.23	1.84	1.30	1.89	1.07	1.68	1.09	1.66	1.01
Urban cluster	4.97	6.09	2.72	3.29	3.22	5.60	2.12	2.46	2.65
Rural	3.21	3.48	1.69	2.59	1.61	3.35	1.48	2.34	1.59
Climate region^d									
Very cold/Cold	0.49	1.09	0.97	1.40	0.93	1.00	0.88	1.24	0.89
Mixed-humid	2.18	3.28	2.21	2.98	1.67	3.01	1.95	2.55	1.77
Mixed-dry/Hot-dry	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
Marine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Housing unit type									
Single-family detached	0.00	0.88	0.88	1.29	0.93	0.79	0.79	1.14	0.93
Single-family attached	0.00	2.19	2.19	4.47	2.60	2.51	2.51	4.51	3.01
Apartments in buildings with 2–4 units	0.00	4.38	4.38	5.90	4.53	2.92	2.92	5.45	3.54
Apartments in buildings with 5 or more units	0.00	3.69	3.69	5.56	3.16	2.87	2.87	5.19	2.67
Mobile homes	0.00	4.33	4.33	6.77	5.20	3.34	3.34	6.77	4.21
Ownership of housing unit									
Owned	0.87	1.17	0.98	1.27	0.84	1.11	0.88	1.11	0.85
Single-family	0.60	1.09	0.93	1.35	0.86	1.04	0.90	1.22	0.93
Apartments	11.27	13.82	7.21	8.70	6.85	12.88	5.14	7.86	5.30
Mobile homes	4.59	5.96	4.46	7.31	6.08	5.32	3.68	8.30	5.21
Rented ^e	2.25	3.48	2.12	2.70	2.06	3.11	1.65	2.41	1.68
Single-family	4.85	5.70	2.72	3.85	3.60	5.45	2.24	3.24	3.20
Apartments	2.02	3.64	3.02	3.91	2.84	2.90	2.18	3.65	2.01
Mobile homes	23.49	24.93	14.61	16.63	9.12	24.10	11.49	12.97	8.70
Year of construction									
Before 1950	0.00	2.25	2.25	2.93	2.24	1.80	1.80	2.44	2.25
1950 to 1959	0.00	2.89	2.89	2.98	3.05	2.90	2.90	2.76	2.82
1960 to 1969	0.00	2.88	2.88	3.75	3.03	2.76	2.76	3.34	3.41
1970 to 1979	0.00	2.41	2.41	3.33	2.05	2.31	2.31	3.56	2.18
1980 to 1989	0.00	3.83	3.83	4.03	2.49	2.65	2.65	3.36	2.24
1990 to 1999	0.00	2.39	2.39	3.45	1.70	2.46	2.46	3.36	2.28
2000 to 2009	0.00	3.44	3.44	4.09	1.84	2.73	2.73	3.81	1.80
2010 to 2015	5.76	7.74	5.40	4.52	3.99	7.54	4.72	3.94	4.77
2016 to 2020	6.83	9.55	6.52	6.04	5.46	9.22	5.39	5.40	5.11
Total square footage^f									
Less than 1,000	3.29	4.19	2.48	4.12	2.50	3.58	2.12	3.82	2.24
1,000 to 1,499	4.29	4.96	2.23	3.07	2.26	4.67	1.54	2.54	1.67
1,500 to 1,999	3.84	4.23	1.83	3.07	1.78	3.83	1.50	2.67	1.50
2,000 to 2,499	3.93	3.76	1.82	3.09	1.87	3.82	1.91	3.12	1.96

Relative standard errors (RSEs) for Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	RSEs for number of housing units								
	Total Midwest ^b	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a			
		Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.90	0.90	1.22	0.83	0.75	0.75	1.07	0.75
2,500 to 2,999	4.68	5.19	2.16	3.12	2.02	5.32	2.18	2.88	2.05
3,000 or more	3.47	3.84	1.64	2.51	1.39	3.95	1.80	2.59	1.69
Number of household members									
1 member	3.09	4.17	2.21	2.21	1.88	3.80	1.79	1.79	1.78
2 members	2.28	2.54	1.43	1.43	1.17	2.56	1.35	1.35	1.24
3 members	4.59	5.01	2.63	2.63	2.49	5.19	2.62	2.62	2.62
4 members	5.39	6.13	2.47	2.47	2.57	5.81	1.96	1.96	2.68
5 members	7.66	8.62	3.70	3.70	3.34	8.50	3.31	3.31	2.99
6 or more members	12.00	11.92	3.34	4.33	5.00	11.73	3.70	3.94	4.37
2020 annual household income									
Less than \$5,000	10.86	12.10	6.38	9.35	5.73	12.15	6.01	9.00	6.39
\$5,000 to \$9,999	11.72	12.06	7.26	8.01	7.14	11.27	5.49	7.91	5.32
\$10,000 to \$19,999	6.55	6.83	3.65	5.57	3.36	6.83	3.69	5.55	3.91
\$20,000 to \$39,999	3.87	4.56	2.41	2.98	2.03	4.67	2.06	2.62	1.88
\$40,000 to \$59,999	4.29	4.68	2.61	3.84	2.33	4.09	1.97	3.17	2.37
\$60,000 to \$99,999	3.08	3.17	1.68	2.50	1.61	3.09	1.46	2.10	1.71
\$100,000 to \$149,999	4.72	4.79	2.42	3.08	2.07	4.88	2.25	2.68	2.13
\$150,000 or more	5.18	5.48	2.02	2.88	2.31	5.69	2.19	3.03	2.52
Payment method for energy bills									
All paid by household	0.58	0.94	0.94	1.25	0.83	0.84	0.83	1.05	0.78
Some paid by household, some included in rent or condo fee	8.20	10.39	6.30	7.23	5.76	9.26	4.35	6.59	4.76
All included in rent or condo fee	10.71	14.84	8.19	12.87	6.85	13.10	5.80	12.01	6.82
Some other method	59.10	66.37	37.30	66.22	14.28	63.90	46.01	93.58	17.16
Main heating fuel									
Natural gas	1.34	1.62	0.93	1.47	0.95	1.64	0.88	1.35	0.92
Electricity	4.18	5.04	3.04	3.61	2.30	4.90	2.68	3.41	2.34
Fuel oil or kerosene	20.23	22.04	9.17	11.20	6.88	21.86	8.76	10.15	5.99
Propane	6.23	6.94	2.52	3.90	2.72	7.10	2.65	3.77	2.65
Wood	13.66	14.98	7.11	9.62	7.68	14.65	5.64	7.86	6.54
Some other fuel [§]	14.87	14.87	0.00	0.00	0.00	14.87	0.00	0.00	0.00
Does not use heating equipment	32.69	40.25	19.64	21.49	19.01	38.51	22.15	20.06	20.78

Relative standard errors (RSEs) for Table CE1.3 Summary annual household site consumption and expenditures in the Midwest—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a				
		Total Midwest ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.90	0.90	1.22	0.83	0.75	0.75	1.07	0.75	

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated 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 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, while urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^d 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/Cold*.

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

^f *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.

^g *Some other fuel* includes coal and district steam.