

Data release date: March 2023

Revised data release date: March 2024

Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total West ^b (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	27.72	1,790	64.6	25.0	39.1	45.84	1,653	641	1.00
Census division									
Mountain	9.22	727	78.9	31.4	42.7	15.24	1,653	658	0.89
Mountain North	4.62	413	89.5	34.9	44.4	6.80	1,474	576	0.73
Mountain South	4.60	314	68.3	27.7	40.6	8.43	1,833	745	1.09
Pacific	18.51	1,063	57.4	22.0	37.0	30.60	1,653	633	1.07
Census urban/rural classification^c									
Urban	25.24	1,584	62.8	24.3	39.3	40.40	1,601	619	1.00
Urbanized area	22.74	1,417	62.3	24.0	39.1	36.36	1,599	615	1.00
Urban cluster	2.50	167	66.7	27.4	41.3	4.04	1,616	664	1.00
Rural	2.48	206	82.9	32.8	37.9	5.43	2,188	865	1.00
Climate region^d									
Very cold/Cold	6.35	548	86.3	34.7	44.3	9.85	1,550	624	0.80
Mixed-humid	N	N	N	N	N	N	N	N	N
Mixed-dry/Hot-dry	14.03	815	58.0	21.9	37.6	24.44	1,742	657	1.13
Hot-humid	0.47	14	30.3	10.1	20.9	0.98	2,058	689	1.42
Marine	6.87	413	60.2	24.1	37.5	10.57	1,540	617	0.96
Housing unit type									
Single-family detached	16.97	1,384	81.5	29.0	39.3	33.84	1,994	710	0.96
Single-family attached	1.69	86	51.0	20.8	37.7	2.38	1,413	576	1.05
Apartments in buildings with 2–4 units	1.89	68	36.2	14.2	41.0	2.04	1,079	424	1.22
Apartments in buildings with 5 or more units	5.70	167	29.2	14.4	34.3	5.33	935	462	1.10
Mobile homes	1.47	85	58.1	25.2	49.5	2.24	1,520	661	1.30
Ownership of housing unit									
Owned	17.40	1,362	78.3	29.8	39.0	33.31	1,915	728	0.95
Single-family	15.57	1,272	81.7	30.2	38.8	30.79	1,978	731	0.94
Apartments	0.59	18	29.7	18.3	29.1	0.61	1,029	632	1.01
Mobile homes	1.24	73	58.8	26.7	48.4	1.91	1,545	702	1.27
Rented ^e	10.33	428	41.4	16.6	39.4	12.53	1,213	487	1.15
Single-family	3.09	198	64.0	20.4	42.1	5.44	1,758	562	1.16
Apartments	7.00	217	31.0	14.1	36.7	6.76	966	439	1.14
Mobile homes	0.24	13	54.1	19.2	56.5	0.33	1,394	494	1.46
Year of construction									
Before 1950	3.27	204	62.3	27.2	41.0	4.97	1,522	663	1.00
1950 to 1959	2.73	177	64.7	25.1	42.3	4.34	1,589	615	1.04
1960 to 1969	2.95	170	57.7	22.8	40.1	4.61	1,565	619	1.09
1970 to 1979	4.71	283	60.2	24.1	39.5	7.62	1,619	649	1.06
1980 to 1989	3.95	240	60.9	23.4	38.7	6.72	1,702	653	1.08
1990 to 1999	4.05	293	72.4	26.9	40.5	7.24	1,789	665	1.00
2000 to 2009	3.89	290	74.5	27.1	37.9	7.06	1,814	659	0.92
2010 to 2015	1.16	75	64.3	22.8	34.0	1.85	1,590	564	0.84
2016 to 2020	1.02	58	57.0	22.2	30.7	1.42	1,390	542	0.75
Total square footage^f									
Less than 1,000	7.89	273	34.7	16.7	47.5	8.01	1,015	489	1.39

Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a					
		Total West ^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	27.72	1,790	64.6	25.0	39.1	45.84	1,653	641	1.00	
1,000 to 1,499	6.53	357	54.7	20.5	45.1	9.88	1,512	568	1.25	
1,500 to 1,999	5.30	379	71.5	26.4	41.8	9.73	1,834	677	1.07	
2,000 to 2,499	3.34	277	82.9	30.4	37.6	7.02	2,103	771	0.95	
2,500 to 2,999	1.92	184	95.7	32.3	35.5	4.29	2,232	753	0.83	
3,000 or more	2.74	319	116.7	37.2	30.5	6.90	2,522	804	0.66	
Number of household members										
1 member	7.23	315	43.5	43.5	35.0	8.00	1,106	1,106	0.89	
2 members	9.31	630	67.7	33.8	38.7	15.80	1,697	849	0.97	
3 members	4.12	284	68.9	23.0	40.5	7.75	1,882	627	1.11	
4 members	4.08	313	76.7	19.2	40.2	7.98	1,957	489	1.03	
5 members	1.71	138	80.8	16.2	43.8	3.51	2,055	411	1.12	
6 or more members	1.28	111	86.3	13.1	43.6	2.80	2,181	330	1.10	
2020 annual household income										
Less than \$5,000	0.90	39	43.0	17.2	41.2	1.09	1,210	483	1.16	
\$5,000 to \$9,999	0.72	28	38.1	15.5	38.9	0.76	1,055	428	1.08	
\$10,000 to \$19,999	2.03	94	46.5	22.6	40.1	2.40	1,182	575	1.02	
\$20,000 to \$39,999	5.26	287	54.4	23.1	40.3	7.19	1,367	580	1.01	
\$40,000 to \$59,999	4.32	254	58.9	24.2	38.3	6.53	1,513	621	0.98	
\$60,000 to \$99,999	6.30	413	65.4	25.2	39.0	10.71	1,699	654	1.01	
\$100,000 to \$149,999	4.06	308	75.8	26.8	39.8	7.66	1,887	668	0.99	
\$150,000 or more	4.13	369	89.2	29.4	38.1	9.49	2,298	757	0.98	
Payment method for energy bills										
All paid by household	25.56	1,710	66.9	25.5	39.1	43.43	1,699	649	0.99	
Some paid by household, some included in rent or condo fee	1.27	49	38.5	18.0	40.4	1.40	1,105	517	1.16	
All included in rent or condo fee	0.89	31	34.9	16.7	39.6	1.00	1,127	537	1.28	
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Main heating fuel										
Natural gas	16.13	1,281	79.4	30.1	42.6	28.37	1,759	666	0.94	
Electricity	7.62	320	42.0	17.4	32.3	10.92	1,432	595	1.10	
Fuel oil or kerosene	0.11	12	105.5	39.9	61.9	0.33	2,876	1,087	1.69	
Propane	0.72	63	87.4	35.4	42.2	1.98	2,752	1,114	1.33	
Wood	0.67	34	51.0	20.9	28.6	1.08	1,611	660	0.90	
Some other fuel [§]	N	N	N	N	N	N	N	N	N	
Does not use heating equipment	2.47	80	32.2	11.6	27.7	3.15	1,277	462	1.10	

Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	Number of housing units (million)	Site energy consumption ^a			Energy expenditures ^a				
		Total West ^b	Total household (trillion 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	27.72	1,790	64.6	25.0	39.1	45.84	1,653	641	1.00

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 West* includes all primary occupied housing units in the West 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.

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Relative standard errors (RSEs) for Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	RSEs for number of housing units		RSEs for site energy consumption ^a			RSEs for energy expenditures ^a			
	Total West ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.74	0.74	1.11	0.75	0.86	0.86	1.19	0.94
Census division									
Mountain	0.00	1.03	1.03	1.68	1.03	1.12	1.12	1.77	1.36
Mountain North	0.00	1.40	1.40	2.45	1.58	1.53	1.53	2.48	1.77
Mountain South	0.00	1.70	1.70	2.01	1.49	1.65	1.65	2.10	1.67
Pacific	0.00	1.09	1.09	1.44	1.14	1.13	1.13	1.48	1.26
Census urban/rural classification^c									
Urban	0.58	1.06	0.74	1.18	0.80	1.08	0.91	1.29	1.04
Urbanized area	0.81	1.31	0.86	1.25	0.86	1.28	0.98	1.37	1.09
Urban cluster	5.53	6.06	2.91	3.73	2.56	6.27	3.14	3.51	3.10
Rural	5.87	6.00	2.61	3.57	2.32	6.20	2.69	3.52	3.42
Climate region^d									
Very cold/Cold	1.37	1.33	1.16	2.18	1.27	1.81	1.14	2.25	1.54
Mixed-humid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mixed-dry/Hot-dry	1.21	1.65	1.36	1.74	1.26	1.76	1.49	1.90	1.48
Hot-humid	0.00	3.62	3.62	4.05	4.28	3.99	3.99	4.94	5.17
Marine	2.39	2.62	2.16	2.70	1.86	2.81	1.96	2.61	1.56
Housing unit type									
Single-family detached	0.00	0.92	0.92	1.34	1.03	1.17	1.17	1.41	1.31
Single-family attached	0.00	2.71	2.71	3.31	3.08	3.15	3.15	3.80	3.03
Apartments in buildings with 2–4 units	0.00	4.11	4.11	6.32	5.09	3.82	3.82	6.17	4.26
Apartments in buildings with 5 or more units	0.00	1.75	1.75	2.71	2.00	1.79	1.79	3.02	1.96
Mobile homes	0.00	3.12	3.12	4.28	2.85	3.07	3.07	5.02	2.97
Ownership of housing unit									
Owned	0.92	1.26	1.02	1.36	0.95	1.27	1.11	1.37	1.15
Single-family	0.90	1.36	1.02	1.36	1.03	1.42	1.14	1.37	1.25
Apartments	11.85	11.64	6.84	7.16	6.06	11.01	6.74	5.43	7.08
Mobile homes	3.65	4.64	3.79	4.75	3.54	4.78	3.39	5.06	3.34
Rented ^e	1.55	3.04	2.02	2.54	1.48	2.88	1.95	2.64	1.59
Single-family	4.55	6.25	2.97	3.57	3.04	5.88	2.98	3.83	2.95
Apartments	1.00	1.89	1.84	3.08	1.94	2.00	1.87	3.19	1.81
Mobile homes	19.20	18.65	9.16	19.95	8.03	21.32	10.49	18.92	10.97
Year of construction									
Before 1950	0.00	3.36	3.36	3.96	2.38	3.67	3.67	4.25	2.94
1950 to 1959	0.00	2.41	2.41	3.65	2.95	3.05	3.05	4.21	3.44
1960 to 1969	0.00	3.29	3.29	4.46	2.42	3.62	3.62	4.32	2.98
1970 to 1979	0.00	2.49	2.49	3.09	2.17	2.50	2.50	2.93	2.73
1980 to 1989	0.00	2.74	2.74	4.13	2.27	3.36	3.36	4.59	2.78
1990 to 1999	0.00	2.40	2.40	3.39	1.97	2.69	2.69	3.59	2.54
2000 to 2009	0.00	2.39	2.39	2.88	2.10	2.27	2.27	2.88	2.75
2010 to 2015	5.40	6.92	4.49	4.22	3.47	7.13	4.47	3.97	4.29
2016 to 2020	6.14	7.46	5.02	6.35	3.52	6.92	4.10	6.06	4.23
Total square footage^f									
Less than 1,000	2.20	2.72	1.78	2.99	1.79	2.62	1.77	3.21	1.83
1,000 to 1,499	3.39	3.66	1.64	2.57	1.51	3.82	1.80	2.43	1.75

Relative standard errors (RSEs) for Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	RSEs for number of housing units									
	RSEs for site energy consumption ^a					RSEs for energy expenditures ^a				
	Total West ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot	
All homes	0.00	0.74	0.74	1.11	0.75	0.86	0.86	1.19	0.94	
1,500 to 1,999	3.51	3.62	1.38	2.25	1.39	3.91	1.83	2.23	1.81	
2,000 to 2,499	4.58	4.85	1.76	2.54	1.79	5.39	2.08	2.78	2.13	
2,500 to 2,999	5.90	6.05	2.55	3.92	2.55	6.79	3.09	4.07	3.01	
3,000 or more	4.59	4.69	2.31	2.75	2.29	5.62	2.97	3.06	3.04	
Number of household members										
1 member	3.10	3.63	2.11	2.11	2.04	3.63	2.04	2.04	2.20	
2 members	2.87	2.96	1.57	1.57	1.26	3.26	1.58	1.58	1.79	
3 members	5.32	5.36	2.49	2.49	2.32	5.63	2.53	2.53	2.55	
4 members	4.26	4.28	2.63	2.63	2.51	4.51	2.41	2.41	2.64	
5 members	6.30	6.16	3.79	3.79	2.68	6.60	4.07	4.07	3.44	
6 or more members	8.85	8.90	5.15	5.22	4.53	8.65	4.18	4.30	4.64	
2020 annual household income										
Less than \$5,000	9.77	10.72	6.77	8.89	5.34	10.61	6.24	8.35	5.38	
\$5,000 to \$9,999	14.97	16.37	6.97	10.66	7.52	15.46	6.94	11.65	7.92	
\$10,000 to \$19,999	6.11	6.74	4.77	6.79	4.17	6.63	4.77	6.06	4.06	
\$20,000 to \$39,999	3.64	4.02	2.12	3.44	2.02	4.23	2.34	3.55	2.41	
\$40,000 to \$59,999	4.01	4.21	3.02	3.49	2.20	4.05	2.58	2.59	2.03	
\$60,000 to \$99,999	2.99	3.06	2.06	2.21	1.89	3.47	2.02	1.99	2.08	
\$100,000 to \$149,999	4.08	3.92	2.07	2.89	2.25	4.63	2.46	3.19	3.17	
\$150,000 or more	4.34	4.92	2.18	2.10	2.30	5.13	2.41	2.53	2.85	
Payment method for energy bills										
All paid by household	0.50	0.82	0.85	1.22	0.81	0.98	0.96	1.26	1.01	
Some paid by household, some included in rent or condo fee	8.83	8.88	5.82	7.00	4.17	9.43	5.10	5.74	3.99	
All included in rent or condo fee	9.52	11.46	5.94	7.76	4.99	11.01	5.43	6.81	5.15	
Some other method	63.98	63.37	25.71	32.84	40.35	56.90	23.41	13.82	21.83	
Main heating fuel										
Natural gas	1.30	1.42	0.96	1.41	0.92	1.73	1.25	1.54	1.25	
Electricity	2.75	3.41	1.99	2.56	1.69	3.55	1.96	2.69	1.82	
Fuel oil or kerosene	17.12	15.08	6.10	10.78	11.01	13.68	6.97	11.13	10.77	
Propane	10.97	10.42	5.43	6.46	4.91	11.41	5.41	7.08	5.99	
Wood	12.40	14.99	7.44	6.47	8.14	16.30	7.72	7.66	9.51	
Some other fuel ^b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Does not use heating equipment	6.32	7.21	3.25	4.19	3.50	6.74	3.45	4.56	3.85	

Relative standard errors (RSEs) for Table CE1.5 Summary annual household site consumption and expenditures in the West—totals and intensities, 2020

	RSEs for number of housing units	RSEs for site energy consumption ^a				RSEs for energy expenditures ^a			
	Total West ^b	Total	Per household	Per household member	Per square foot	Total	Per household	Per household member	Per square foot
All homes	0.00	0.74	0.74	1.11	0.75	0.86	0.86	1.19	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: 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 West* includes all primary occupied housing units in the West 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.