## Table CE2.10 Annual household fuel expenditures in the West-totals and averages, 2020

	Number of housing units (million)	Total energy ex (billion dollars)	•				Average energ dollars per ho				
	Total West <sup>b</sup>			Natural cas	Dronono	Fuel oil or				Dronono	Fuel oil or kerosene
AU 1		Total	Electricity	Natural gas	Propane	kerosene	Total	Electricity	_	Propane	
All homes	27.72	45.84	33.57	10.76	1.32	0.18	1,653	1,211	526	797	1,176
Census division											
Mountain	9.22		11.42	3.30	0.51	Q	1,653	1,238	503	850	C
Mountain North	4.62	6.80	4.55	1.97	0.27	Q	1,474	987	535	941	C
Mountain South	4.60	8.43	6.86	1.33	0.24	Q	1,833	1,491	463	768	C
Pacific	18.51	30.60	22.16	7.47	0.81	0.16	1,653	1,197	536	766	1,344
Census urban/rural classification <sup>c</sup>											
Urban	25.24	40.40	29.74	10.14	0.43	0.09	1,601	1,178	520	574	1,072
Urbanized area	22.74	36.36	26.80	9.26	0.24	0.06	1,599	1,179	518	485	1,023
Urban cluster	2.50	4.04	2.93	0.88	0.19	0.04	1,616	1,174	549	756	1,159
Rural	2.48	5.43	3.83	0.62	0.89	0.09	2,188	1,544	637	980	1,310
Climate region <sup>d</sup>											
Very cold/Cold	6.35	9.85	6.62	2.61	0.49	0.14	1,550	1,042	568	803	1,478
Mixed-humid	0.55 N	5.85 N	0.02 N	2.01 N	0.45 N	0.14 N	1,550 N	1,042 N	N	N	1,470 N
Mixed-dry/Hot-dry	14.03	24.44	18.48	5.39	0.56	Q	1,742	1,317	475	828	Q
Hot-humid	0.47	0.98	0.91	0.05	0.02	N	2,058	1,911	625	435	N
Marine	6.87	10.57	7.57	2.72	0.25	Q	1,540	1,102	610	783	Q
Housing unit type											
Single-family detached	16.97	33.84	24.05	8.56	1.11	0.13	1,994	1,417	630	934	1,346
Single-family attached	1.69	2.38	1.77	0.59	Q	0.01	1,413	1,049	435	Q	2,451
Apartments in buildings with 2-4 units	1.89	2.04	1.60	0.41	Q	Q	1,079	848	322	Q	Q
Apartments in buildings with 5 or	1.05	2.04	1.00	0.41	ų	<u>ц</u>	1,075	040	JZZ	<u>ц</u>	<b>u</b>
more units	5.70	5.33	4.44	0.86	0.03	Q	935	778	256	179	Q
Mobile homes	1.47	2.24	1.72	0.34	0.16	Q	1,520	1,168	388	699	Q
Ownership of housing unit											
Owned	17.40	33.31	23.68	8.33	1.16	0.14	1,915	1,361	611	882	1,474
Single-family	15.57	30.79	21.73	7.94	0.99	0.13	1,978	1,396	633	923	1,483
Apartments Mobile homes	0.59	0.61	0.50	0.11 0.28	Q 0.16	N Q	1,029	840 1,178	271 405	Q 718	N Q
Mobile homes Rented <sup>e</sup>	1.24 10.33	12.53		2.44	0.16		1,545	958	356	470	698
Single-family	3.09	5.44	9.89 4.09	1.21	0.18	0.04	1,213 1,758	1,322	504	1,007	1,027
Apartments	7.00	6.76	5.54	1.21	0.12	0.02	966	791	274	1,007	566
Mobile homes	0.24	0.33	0.26	0.06	0.04 Q	Q	1,394	1,112	318	Q	Q
			0.20		~~~~	~~~~	2,00			~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Year of construction											
Before 1950	3.27	4.97	3.36	1.50	0.08	0.02	1,522	1,028	574	689	934
1950 to 1959	2.73	4.34	3.02	1.23	Q	Q	1,589	1,103	513	Q	Q
1960 to 1969	2.95		3.37	1.12	0.11	Q	1,565	1,143	508	563	Q
1970 to 1979	4.71		5.78	1.60	0.21	0.03	1,619	1,228	515	856	1,981
1980 to 1989	3.95		5.07	1.33	0.28	0.04	1,702	1,285	476	935	1,984
1990 to 1999 2000 to 2009	4.05		5.29	1.62	0.30	0.02	1,789	1,309	573	895	955
2010 to 2015	3.89 1.16		5.17 1.41	1.64 0.41	0.23	0.03 Q	1,814 1,590	1,329 1,210	552 489	751 326	1,076 Q
2016 to 2013	1.10		1.41	0.41	0.02	N	1,390	1,210	435	417	N
	1.02	1.42	1.11	0.30	0.02	NI	1,350	1,002	431	41/	IN
Total square footage <sup>f</sup>											
Less than 1,000	7.89	8.01	6.29	1.59	0.11	0.03	1,015	797	311	353	714
1,000 to 1,499	6.53		7.52	2.14	0.20	0.03	1,512	1,151	449	680	1,127
1,500 to 1,999	5.30		7.06	2.35	0.27	0.04	1,834	1,331	570	769	1,191
2,000 to 2,499	3.34		5.04	1.61	0.32	0.05	2,103	1,511	633	897	1,384
2,500 to 2,999	1.92		2.98	1.14	0.16	Q	2,232	1,548		1,129	Q
3,000 or more	2.74	6.90	4.69	1.94	0.26	Q	2,522	1,712	839	1,249	Q
Number of household members											
1 member	7.23	8.00	5.74	1.91	0.31	0.03	1,106	794	390	714	1,256
2 members	9.31		11.48	3.77	0.47	0.07	1,697	1,233	544	744	1,165
3 members	4.12		5.79	1.74	0.20	0.02	1,882	1,407	568	819	1,020
4 members	4.08		5.85	1.89	0.20	0.03	1,957	1,435	587	1,020	1,362
5 members	1.71	3.51	2.61	0.82	0.08	Q	2,055	1,528	599	840	Q
6 or more members	1.28	2.80	2.10	0.63	0.05	Q	2,181	1,635	638	1,137	Q

## Table CE2.10 Annual household fuel expenditures in the West-totals and averages, 2020

	Number of housing units (million)	Total energy expenditures <sup>a</sup> Average energy expenditures <sup>a</sup> (billion dollars)       (dollars per household using the fuel)									
	Total West <sup>b</sup>	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene		Electricity	Natural gas	Propane	Fuel oil or kerosene
All homes	27.72	45.84	33.57	10.76	1.32	0.18	1,653	1,211	526	797	1,176
2020 annual household income											
Less than \$5,000	0.90	1.09	0.87	0.20	Q	Q	1,210	971	349	Q	Q
\$5,000 to \$9,999	0.72	0.76	0.61	0.14	0.02	Q	1,055	840	291	305	Q
\$10,000 to \$19,999	2.03	2.40	1.75	0.55	0.09	Q	1,182	862	396	626	Q
\$20,000 to \$39,999	5.26	7.19	5.38	1.61	0.16	0.05	1,367	1,023	432	524	976
\$40,000 to \$59,999	4.32	6.53	4.85	1.42	0.22	0.04	1,513	1,124	471	794	793
\$60,000 to \$99,999	6.30	10.71	7.93	2.38	0.36	0.04	1,699	1,257	532	890	1,819
\$100,000 to \$149,999	4.06	7.66	5.54	1.87	0.22	0.03	1,887	1,364	566	968	Q
\$150,000 or more	4.13	9.49	6.64	2.59	0.24	0.02	2,298	1,609	739	1,151	1,597
Payment method for energy bills											
All paid by household	25.56	43.43	31.67	10.34	1.27	0.16	1,699	1,239	546	855	1,396
Some paid by household, some											
included in rent or condo fee	1.27	1.40	1.05	0.29	0.04	0.02	1,105	831	277	321	621
All included in rent or condo fee	0.89	1.00	0.85	0.13	Q	Q	1,127	958	269	Q	Q
Some other method	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main heating fuel											
Natural gas	16.13	28.37	18.70	9.65	Q	Q	1,759	1,159	598	Q	Q
Electricity	7.62	10.92	10.11	0.66	0.15	Q	1,432	1,326	260	343	Q
Fuel oil or kerosene	0.11	0.33	0.16	Q	*	0.16	2,876	1,377	Q	143	1,417
Propane	0.72	1.98	1.06	Q	0.92	N	2,752	1,464	Q	1,279	N
Wood	0.67	1.08	0.87	Q	0.17	Q	1,611	1,306	262	640	Q
Some other fuel <sup>g</sup>	N	N	N	N	N	N	N	N	N	N	N
Does not use heating equipment	2.47	3.15	2.68	0.42	0.05	Q	1,277	1,087	255	473	Q

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.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

<sup>b</sup> 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.

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

<sup>d</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/Cold.

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

<sup>1</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>g</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 0.005 and rounds to zero.

## Relative standard errors (RSEs) for Table CE2.10 Annual household fuel expenditures in the West-totals and averages, 2020

	units Total West <sup>b</sup>	RSEs for total e	normy ovnon								
	Tatal Manth		units RSEs for total energy expenditures <sup>a</sup> RSE				s for avera	ge energy exp			
	lotal west	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene
All homes	0.00	0.86	0.99	1.46	9.49	12.48	0.86	0.99	1.35	6.91	10.04
Census division											
Mountain	0.00	1.12	1.38	1.59	12.37	41.96	1.12	1.38	1.32	7.60	26.38
Mountain North	0.00	1.53	1.90	2.02	19.04	42.22	1.53	1.90	1.56	10.76	43.77
Mountain South	0.00	1.65	1.85	2.88	18.54	20.25	1.65	1.85	2.14	13.14	0.00
Pacific	0.00	1.13	1.42	2.09	13.53	13.26	1.13	1.42	1.87	10.46	9.72
Census urban/rural classification <sup>c</sup>											
Urban	0.58	1.08	1.15	1.61	15.67	20.11	0.91	1.05	1.38	11.54	13.54
Urbanized area	0.81	1.28	1.33	1.89	19.78	29.28	0.98	1.12	1.53	17.50	21.06
Urban cluster	5.53	6.27	6.52	7.88	21.84	29.07	3.14	3.70	3.39	8.81	18.76
Rural	5.87	6.20	6.37	9.59	12.07	15.11	2.69	2.82	5.16	8.37	18.57
Climate region <sup>d</sup>											
Very cold/Cold	1.37	1.81	2.18	1.89	12.41	11.44	1.14	1.52	1.30	6.51	12.17
Mixed-humid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mixed-dry/Hot-dry	1.21	1.76	1.85	2.46	14.96	20.25	1.49	1.60	2.29	12.54	0.00
Hot-humid	0.00	3.99	4.25	14.72	26.73	0.00	3.99	4.25	8.94	22.05	0.00
Marine	2.39	2.81	3.00	4.10	25.23	39.60	1.96	2.34	2.94	20.36	23.47
Housing unit type Single-family detached	0.00	1.17	1.33	1.68	10.52	15.01	1.17	1.33	1.39	7.53	10.98
Single-family attached	0.00	3.15	3.76	5.03	63.23	40.84	3.15	3.76	3.87	29.35	10.98
	0.00	5.15	5.70	5.05	03.23	40.84	5.15	5.70	5.67	29.33	17.80
Apartments in buildings with 2–4 units Apartments in buildings with 5 or	0.00	3.82	4.19	11.45	72.14	53.19	3.82	4.19	8.98	81.98	35.27
more units	0.00	1.79	2.47	5.16	31.57	58.99	1.79	2.47	3.14	23.18	21.66
Mobile homes	0.00	3.07	3.05	7.17	19.15	55.19	3.07	3.05	4.79	13.08	54.64
Ownership of housing unit											
Owned	0.92	1.27	1.32	1.91	10.15	14.26	1.11	1.24	1.48	7.77	10.31
Single-family	0.90	1.42	1.49	2.02	11.12	15.28	1.14	1.29	1.45	8.63	11.32
Apartments	11.85	11.01	11.42	17.20	66.17	0.00	6.74	8.33	7.04	63.89	0.00
Mobile homes	3.65	4.78	4.69	9.06	19.92	66.61	3.39	3.20	6.24	13.14	8.40
Rented <sup>e</sup>	1.55	2.88	3.00	4.26	23.93	24.57	1.95	2.20	3.21	22.21	16.07
Single-family	4.55	5.88	5.99	7.55	29.22	32.63	2.98	3.55	4.12	19.54	35.55
Apartments	1.00	2.00	2.53	5.15	32.24	41.17	1.87	2.38	3.97	30.65	24.60
Mobile homes	19.20	21.32	22.32	21.57	56.07	20.14	10.49	11.72	13.38	55.07	0.00
Year of construction											
Before 1950	0.00	3.67	4.14	5.21	41.75	30.46	3.67	4.14	4.85	36.02	19.34
1950 to 1959	0.00	3.05	3.74	4.26	52.23	47.91	3.05	3.74	3.96	38.07	38.15
1960 to 1969	0.00	3.62	3.92	6.15	30.10	43.71	3.62	3.92	4.56	26.12	41.79
1970 to 1979	0.00	2.50	2.82	4.31	22.46	31.33	2.50	2.82	3.35	15.69	18.43
1980 to 1989	0.00	3.36	3.57	4.50	22.48	25.03	3.36	3.57	3.67	16.30	24.24
1990 to 1999	0.00	2.69	2.95	4.25	19.56	44.56	2.69	2.95	4.10	13.70	48.01
2000 to 2009	0.00	2.27	2.56	3.42	23.73	27.07	2.27	2.56	3.17	19.84	33.12
2010 to 2015 2016 to 2020	5.40 6.14	7.13 6.92	7.69 7.10	8.24 9.21	34.80 49.36	89.53	4.47	5.32 4.32	6.09 5.70	26.36 40.77	102.91 0.00
Total square footage <sup>f</sup>	0.14	0.92	7.10	9.21	49.36	0.00	4.10	4.32	5.70	40.77	0.00
Less than 1,000	2.20	2.62	2.86	4.69	19.28	34.10	1.77	2.15	3.21	19.08	21.83
1,000 to 1,499	3.39	3.82	3.80	4.88	28.09	27.11	1.80	2.04	2.44	19.49	20.26
1,500 to 1,999	3.51	3.91	4.07	4.42	19.58	35.16	1.83	2.30	1.90	13.85	18.17
2,000 to 2,499	4.58	5.39	5.63	6.02	20.23	29.25	2.08	2.59	2.81	12.30	25.85
2,500 to 2,999	5.90	6.79	6.74	7.97	34.44	35.29	3.09	3.56	3.47	21.10	44.68
3,000 or more	4.59	5.62	6.06	6.14	24.84	34.41	2.97	3.62	3.43	18.63	28.02
Number of household members											
1 member	3.10	3.63	3.78	5.34	22.82	21.98	2.04	2.40	3.68	18.55	16.52
2 members	2.87	3.26	3.56	3.73	14.33	23.31	1.58	2.02	1.96	11.10	21.01
3 members	5.32	5.63	5.71	5.97	24.81	33.82	2.53	2.81	3.52	21.44	34.79
4 members	4.26	4.51	4.68	5.31	27.33	29.47	2.41	2.67	3.08	16.93	48.99
5 members	6.30	6.60	6.83	7.16	34.54	82.76	4.07	4.35	5.34	21.47	60.58
6 or more members	8.85	8.65	8.85	11.90	44.60	52.67	4.18	4.64	8.06	27.84	63.57

Relative standard errors (RSEs) for Table CE2.10 Annual household fuel expenditures in the West-totals and averages, 2020

RSEs for	
number of	
housing	

	housing units	5						RSEs for average energy expenditures <sup>a</sup>						
	Total West <sup>b</sup>	Total	Electricity	Natural gas	Propane	Fuel oil or kerosene	Total	Electricity		Propane	Fuel oil or kerosene			
All homes	0.00	0.86	0.99	1.46	9.49	12.48	0.86	0.99	1.35	6.91	10.04			
2020 annual household income														
Less than \$5,000	9.77	10.61	10.97	14.52	55.59	70.70	6.24	6.71	8.96	18.99	62.70			
\$5,000 to \$9,999	14.97	15.46	15.51	22.48	39.22	13.26	6.94	8.71	8.13	38.07	0.00			
\$10,000 to \$19,999	6.11	6.63	6.80	10.67	30.23	58.13	4.77	5.23	8.09	27.73	20.57			
\$20,000 to \$39,999	3.64	4.23	4.58	5.42	21.65	22.87	2.34	2.95	3.05	11.68	14.42			
\$40,000 to \$59,999	4.01	4.05	4.37	5.91	21.22	33.32	2.58	3.07	3.90	18.22	21.92			
\$60,000 to \$99,999	2.99	3.47	3.69	3.77	16.67	29.64	2.02	2.03	2.38	11.28	11.93			
\$100,000 to \$149,999	4.08	4.63	4.91	4.98	25.49	24.12	2.46	2.83	2.69	17.72	60.26			
\$150,000 or more	4.34	5.13	5.28	5.59	28.11	35.90	2.41	3.01	3.01	21.98	28.58			
Payment method for energy bills														
All paid by household	0.50	0.98	1.13	1.55	9.67	13.33	0.96	1.08	1.39	7.51	9.90			
Some paid by household, some														
included in rent or condo fee	8.83	9.43	9.90	11.45	44.20	41.02	5.10	5.50	9.63	45.48	35.40			
All included in rent or condo fee	9.52	11.01	11.09	17.58	59.23	85.74	5.43	6.01	9.70	68.77	79.26			
Some other method	63.98	56.90	54.33	76.45	15.96	23.61	23.41	64.46	57.52	0.00	0.00			
Main heating fuel														
Natural gas	1.30	1.73	1.91	1.76	57.01	61.33	1.25	1.42	1.39	55.98	119.11			
Electricity	2.75	3.55	3.51	8.01	15.84	28.74	1.96	1.97	4.59	12.92	0.00			
Fuel oil or kerosene	17.12	13.68	14.08	80.07	41.13	13.01	6.97	7.92	54.19	33.28	10.03			
Propane	10.97	11.41	12.00	82.65	12.43	0.00	5.41	5.90	89.92	8.02	0.00			
Wood	12.40	16.30	16.72	50.33	28.71	56.63	7.72	8.24	41.80	19.92	53.29			
Some other fuel <sup>g</sup>	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	6.32	6.74	6.89	9.43	32.59	84.02	3.45	4.01	5.17	16.31	19.03			

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.

<sup>a</sup> Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded.

<sup>b</sup> 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.

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

<sup>d</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/Cold.

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

<sup>1</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 and/or characteristics of the home. See 2020 RECS Square Footage Methodology for full details about data collection and processing.

<sup>g</sup> Some other fuel includes coal and district steam.